# APPENDIX J

# XRF ANALYTICAL RESULTS

FINAL REPORT

# FINAL REPORT

# X-RAY FLUORESCENCE ANALYSIS FOR METALS AT LOAD LINE 1

Ravenna Army
Ammunition Plant
Ravenna, Ohio


Prepared for:

Science Applications
International Corporation (SAIC)

DECEMBER 2000

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MKM

# MKM Engineers, Inc.

*Geotechnical, Environmental and Remediation Services*

January 19, 2001

Mr. Steve Selecman
Vice-President
SAIC
PO Box 2502
Oak Ridge, TN 37831

Subject: LL-1 X-Ray Fluorescence Analysis for Metals – Final Report

Dear Mr. Selecman:

The enclosed report is for the Load Line 1 X-Ray Fluorescence Analysis for Metals conducted at the Ravenna Army Ammunition Plant. The report has been divided into 8 sections for easy review. The ex-situ analyses were conducted in accordance with the EPA Method 6200.

It was a pleasure working with the SAIC crew in general and Ms. Kathy Dominic in particular on this project and we look forward to working with you on your future projects.

Should you have any questions please call me at 281-277-5100 or 281-703-1582.

Thank You,

Sincerely,

Srini Neralla, Ph.D.
Project Manager

CC: Mr. John Jent

*Ravenna Army Ammunition Plant, 8451 State Rt. 5, Building 1038*
*Phone: (330) 358-2920 Fax: (330)358-2924*

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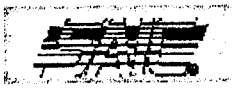
# FINAL REPORT FOR THE X-RAY FLUORESCENCE ANALYSIS FOR METALS AT LOAD LINE 1

## RAVENNA ARMY AMMUNITION PLANT
## RAVENNA, OHIO 44266

***Prepared for***



SCIENCE APPLICATIONS INTERNATIONAL
CORPORATION
800 OAKRIDGE TURNPIKE
OAKRIDGE, TN 37831

***Prepared by***


MKM ENGINEERS, INC
4153 BLUEBONNET DRIVE
STAFFORD, TEXAS 77477

**DECEMBER 2000**

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# Table of Contents

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# 1. INTRODUCTION

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# INTRODUCTION

**Project Authorization:** MKM Engineers, Inc. provided services to conduct X-Ray Fluorescence (XRF) Analysis for detection of Metals during the Remedial Investigation at Load Line 1 by Science Applications International Corporation (SAIC). This project started on September 12, 2000.

**Purpose and Scope:** The purpose of this project was to use XRF Technology to detect metals in soils and sediments during the Remedial Investigation of Load Line 1. Specifically, the major tasks involved in completing this contract were:

1. Provide all necessary materials and labor to detect metals in-situ.
2. Provide all necessary materials and labor to analyze metals ex-situ in accordance with the EPA Method 6200 on samples provided by SAIC.
3. Provide final report describing results of all work completed.

## X-Ray Fluorescence Spectrometry:

Analytical methods that can rapidly provide on-site information on contaminant concentrations can be very useful in facilitating the making of real time decisions regarding sampling, exposure assessment, risk assessment and risk management. XRF instruments for measuring concentrations of metals in soils is gaining acceptance because of its obvious advantages. Analysis of metals in soils and sediments can be made either in-situ or ex-situ.

In-situ analysis of soils involves measuring concentrations in-place. Since the soils are not processed prior to analysis, such data may not be very accurate compared to results from a traditional laboratory extraction procedure. Ex-situ analysis involves processing of the soil samples in a laboratory in accordance with the EPA 6200 method. Previous studies have shown that the ex-situ data is comparable to the traditional laboratory data. However, comprehensive correlation studies have not been conducted to compare the in-situ and ex-situ analysis data.

Niton 700 Series XRF Instrument is a dual-detector system containing Cadmium and Americium detectors. Cadmium detects Arsenic, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Rubidium, Selenium, Strontium, Titanium, Zinc and Zirconium. Americium detects Antimony, Barium, Cadmium, Indium, Iodine, Palladium, Silver and Tin.

The current report is a compilation of results from the in-situ and ex-situ analyses of soil samples from Load Line 1 at the Ravenna Army Ammunition Plant. The Niton XRF Instrument reports results with an error margin of 3-Standard Deviations. The results from the in-situ and ex-situ analyses have been provided in separate sections. Ex-situ results can be used for comparisons to the laboratory analytical data.

**In-Situ Analysis for Metals:**

Based on the triangulation sampling scheme followed for the collection of samples for analysis of explosives and metals, each sample station identified and cleared by the SAIC sampling team was analyzed using the Niton XRF Instrument at the 3 vertices of the triangle. A fourth location at the center of the triangle (which was used for collection of sample for metals analysis by the SAIC sampling team) was also analyzed using the Niton XRF Instrument. The instrument was calibrated thrice every day using the internal calibration procedure for the in-situ measurements.

**Ex-Situ Analysis for Metals:**

Samples (splits of samples that were sent to the laboratory for analysis using the traditional extraction procedures) provided by the SAIC Sampling Team were analyzed at the MKM Field Laboratory using the EPA Method 6200. Appropriate QA/QC procedures were implemented during the analysis. Calibration verification checks were conducted using the NIST standards provided by the instrument manufacturer. Ten percent of the samples analyzed in a day were duplicated to ensure data accuracy. NIST Blank sample (instrument blank) was analyzed periodically to ensure that the spectrometer or the probe window is not contaminated.

# 2. CASE NARRATIVE

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## CASE NARRATIVE

Samples were received from the SAIC Sampling Manager immediately after collection and were at ambient temperature. All samples were refrigerated at 4 degrees C immediately upon arrival at the MKM Field Laboratory.

No anomalies were associated with this project. Necessary laboratory QA/QC measures were implemented during the project.

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# 3. IN-SITU ANALYSIS DATA

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LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| 001-01 | <LOD | 31.35 | 249.6 | 49.3 | <LOD | 48.15 | <LOD | 54.9 | <LOD | 41.55 | <LOD | 110.55 |
| 001-02 | <LOD | 42.45 | 180.9 | 52.3 | <LOD | 52.95 | <LOD | 76.8 | <LOD | 46.65 | <LOD | 142.65 |
| 001-03 | <LOD | 27.3 | 273 | 54.4 | <LOD | 52.2 | <LOD | 57 | <LOD | 46.95 | <LOD | 123.3 |
| 001-04 | <LOD | 30.15 | 244.4 | 46.4 | <LOD | 37.5 | <LOD | 55.95 | <LOD | 36 | <LOD | 108.15 |
| 002-01 | <LOD | 35.7 | 187.9 | 47.3 | <LOD | 47.25 | <LOD | 65.4 | <LOD | 44.85 | <LOD | 124.65 |
| 002-02 | <LOD | 32.25 | 144.8 | 42.1 | <LOD | 47.4 | <LOD | 64.8 | <LOD | 43.2 | <LOD | 120.3 |
| 002-03 | <LOD | 43.95 | 180 | 63 | <LOD | 59.1 | <LOD | 89.25 | <LOD | 52.2 | <LOD | 165 |
| 002-04 | <LOD | 25.5 | 186.2 | 38 | <LOD | 37.95 | <LOD | 50.1 | <LOD | 30.15 | <LOD | 95.25 |
| 003-01 | <LOD | 29.4 | 221.6 | 45.3 | <LOD | 42.6 | <LOD | 55.8 | <LOD | 41.25 | <LOD | 103.95 |
| 003-02 | <LOD | 19.65 | 188.8 | 40.7 | <LOD | 40.95 | <LOD | 58.05 | <LOD | 41.55 | <LOD | 109.8 |
| 003-03 | <LOD | 35.7 | 293.6 | 62.4 | <LOD | 57.6 | <LOD | 67.5 | <LOD | 50.25 | <LOD | 140.7 |
| 003-04 | <LOD | 31.05 | 208.2 | 56.9 | <LOD | 49.95 | <LOD | 71.85 | <LOD | 45.75 | <LOD | 133.95 |
| 004-01 | <LOD | 29.25 | 218.2 | 47.1 | <LOD | 43.05 | <LOD | 61.65 | <LOD | 42.6 | <LOD | 112.05 |
| 004-02 | <LOD | 23.4 | 157.2 | 39.2 | <LOD | 43.8 | <LOD | 56.7 | <LOD | 40.5 | <LOD | 106.95 |
| 004-03 | <LOD | 32.4 | 1469.6 | 110 | <LOD | 62.4 | <LOD | 55.95 | <LOD | 43.95 | <LOD | 104.25 |
| 004-04 | <LOD | 32.1 | 115.6 | 40.7 | <LOD | 46.35 | <LOD | 69.75 | <LOD | 45.3 | <LOD | 125.85 |
| 005-01 | <LOD | 36.75 | 211.8 | 52.8 | <LOD | 56.1 | <LOD | 72.3 | <LOD | 46.95 | <LOD | 133.5 |
| 005-02 | <LOD | 35.55 | 887.2 | 100 | <LOD | 68.85 | <LOD | 63.3 | <LOD | 47.1 | <LOD | 136.2 |
| 005-03 | <LOD | 34.2 | 476 | 69.8 | <LOD | 53.4 | <LOD | 64.8 | <LOD | 45.45 | <LOD | 119.25 |
| 005-04 | <LOD | 37.2 | 633.6 | 85.4 | <LOD | 62.25 | <LOD | 68.55 | <LOD | 50.85 | <LOD | 128.1 |
| 006-01 | <LOD | 30.9 | 161.9 | 47.5 | <LOD | 45.15 | <LOD | 62.55 | <LOD | 47.7 | <LOD | 139.8 |
| 006-02 | <LOD | 33.15 | 205 | 45.5 | <LOD | 45.45 | <LOD | 61.5 | <LOD | 41.25 | <LOD | 118.05 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 006-03 | <LOD | 40.35 | 171.6 | 51 | <LOD | 52.35 | <LOD | 74.4 | <LOD | 51.6 | <LOD | 136.5 |
| 006-04 | <LOD | 30 | 336.6 | 54.7 | <LOD | 48.75 | <LOD | 50.85 | <LOD | 37.05 | <LOD | 112.95 |
| 007-01 | <LOD | 25.35 | 177.1 | 37.8 | <LOD | 41.7 | <LOD | 54 | <LOD | 36 | <LOD | 100.95 |
| 007-02 | <LOD | 26.7 | 185.8 | 40.6 | <LOD | 41.4 | <LOD | 55.35 | <LOD | 38.55 | <LOD | 100.05 |
| 007-03 | <LOD | 33.6 | 143.3 | 43 | <LOD | 45.9 | <LOD | 65.55 | <LOD | 39.6 | <LOD | 113.4 |
| 007-04 | <LOD | 28.8 | 190.2 | 46.5 | <LOD | 48.3 | <LOD | 53.4 | <LOD | 37.2 | <LOD | 115.2 |
| 008-01 | <LOD | 29.55 | 235.2 | 45.7 | <LOD | 39 | <LOD | 57.3 | <LOD | 41.1 | <LOD | 107.7 |
| 008-02 | <LOD | 41.4 | 259.6 | 68.6 | <LOD | 69.9 | <LOD | 88.05 | <LOD | 58.5 | <LOD | 195 |
| 008-03 | <LOD | 30.15 | 267.8 | 50.9 | <LOD | 49.2 | <LOD | 57.75 | <LOD | 41.1 | <LOD | 109.05 |
| 008-04 | <LOD | 28.95 | 277 | 45.6 | <LOD | 41.4 | <LOD | 52.05 | <LOD | 34.8 | <LOD | 97.35 |
| 023-01 | <LOD | 32.1 | 311.4 | 60.3 | <LOD | 46.2 | <LOD | 61.05 | <LOD | 43.35 | <LOD | 130.35 |
| 023-02 | <LOD | 26.7 | 235.2 | 46.9 | <LOD | 44.1 | <LOD | 62.4 | <LOD | 39.9 | <LOD | 111.6 |
| 023-03 | <LOD | 27 | 249.8 | 47.2 | <LOD | 41.4 | <LOD | 57 | <LOD | 39.6 | <LOD | 108.45 |
| 023-04 | <LOD | 33.75 | 211 | 50.6 | <LOD | 49.2 | <LOD | 60.75 | <LOD | 48.75 | <LOD | 123.3 |
| 024-01 | <LOD | 38.7 | 175 | 49.9 | <LOD | 52.65 | <LOD | 69.6 | <LOD | 48.75 | <LOD | 143.4 |
| 024-02 | <LOD | 37.8 | 194.7 | 51.7 | <LOD | 47.85 | <LOD | 68.7 | <LOD | 44.1 | <LOD | 131.25 |
| 024-03 | <LOD | 33 | 163 | 44.2 | <LOD | 47.7 | <LOD | 60.75 | <LOD | 43.2 | <LOD | 124.8 |
| 024-04 | <LOD | 54.15 | 256.4 | 84.3 | <LOD | 69.75 | <LOD | 106.5 | <LOD | 66.3 | <LOD | 195 |
| 034-01 | <LOD | 32.25 | 161.6 | 43.8 | <LOD | 42.9 | <LOD | 57.75 | <LOD | 39.6 | <LOD | 126.45 |
| 034-02 | <LOD | 33.15 | 137.2 | 40.4 | <LOD | 41.25 | <LOD | 64.2 | <LOD | 47.55 | <LOD | 122.85 |
| 034-03 | <LOD | 29.55 | 265.2 | 50 | <LOD | 44.25 | <LOD | 60 | <LOD | 36.75 | <LOD | 118.5 |
| 034-04 | <LOD | 43.65 | 176.2 | 55.8 | <LOD | 56.4 | <LOD | 80.25 | <LOD | 49.5 | <LOD | 150 |
| 035-01 | <LOD | 29.4 | 152.8 | 46.9 | <LOD | 49.35 | <LOD | 64.5 | <LOD | 45.3 | <LOD | 141.6 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 035-02 | <LOD | 27 | 173.6 | 41 | <LOD | 41.25 | <LOD | 56.7 | <LOD | 35.25 | <LOD | 111.75 |
| 035-03 | <LOD | 25.65 | 187.9 | 40.9 | <LOD | 40.95 | <LOD | 53.4 | <LOD | 37.35 | <LOD | 107.7 |
| 035-04 | <LOD | 33 | 168.2 | 55.8 | <LOD | 50.25 | <LOD | 71.25 | <LOD | 48.6 | <LOD | 149.55 |
| 037-01 | 45.1 | 25.5 | 153.2 | 41.4 | <LOD | 43.5 | <LOD | 57.45 | <LOD | 42.3 | <LOD | 115.5 |
| 037-02 | <LOD | 29.1 | 165.8 | 42.7 | <LOD | 42.3 | <LOD | 57.75 | <LOD | 40.05 | <LOD | 111.6 |
| 037-03 | <LOD | 27.75 | 157.5 | 39.6 | <LOD | 43.65 | <LOD | 59.85 | <LOD | 37.65 | <LOD | 110.25 |
| 037-04 | <LOD | 34.95 | 173.6 | 47.9 | <LOD | 47.55 | <LOD | 63 | <LOD | 39.45 | <LOD | 127.2 |
| 038-01 | <LOD | 28.2 | 351 | 54.1 | <LOD | 46.65 | <LOD | 55.95 | <LOD | 35.1 | <LOD | 105.3 |
| 038-02 | <LOD | 32.7 | 284.4 | 55.6 | <LOD | 52.2 | <LOD | 66 | <LOD | 46.05 | <LOD | 119.7 |
| 038-03 | <LOD | 28.95 | 247.2 | 48.7 | <LOD | 46.35 | <LOD | 54.75 | <LOD | 37.2 | <LOD | 107.55 |
| 038-04 | <LOD | 40.2 | 298.6 | 59.2 | <LOD | 52.5 | <LOD | 69.75 | <LOD | 41.7 | <LOD | 123.3 |
| 068-01 | <LOD | 35.55 | <LOD | 79.65 | <LOD | 57.3 | <LOD | 103.35 | <LOD | 71.1 | <LOD | 195 |
| 068-02 | <LOD | 29.85 | 189.2 | 53.3 | <LOD | 49.8 | <LOD | 71.55 | <LOD | 42.6 | <LOD | 129 |
| 068-03 | 63.1 | 39.2 | 285.8 | 78.3 | <LOD | 62.7 | <LOD | 92.7 | <LOD | 69.6 | <LOD | 180 |
| 068-04 | <LOD | 40.2 | 127.1 | 67.9 | <LOD | 59.1 | <LOD | 85.95 | <LOD | 73.5 | <LOD | 225 |
| 086-01 | <LOD | 34.8 | 215.6 | 53.8 | <LOD | 43.5 | <LOD | 60 | <LOD | 45.9 | <LOD | 128.1 |
| 086-02 | <LOD | 27.45 | 83.2 | 35.6 | <LOD | 40.5 | <LOD | 62.25 | <LOD | 38.4 | <LOD | 119.4 |
| 086-03 | <LOD | 35.4 | 113 | 40.3 | <LOD | 39.75 | <LOD | 63.3 | <LOD | 44.1 | <LOD | 120.75 |
| 086-04 | <LOD | 36.75 | 168.5 | 53.3 | <LOD | 51.6 | <LOD | 69.75 | <LOD | 53.55 | <LOD | 150 |
| 087-01 | <LOD | 43.5 | 124.8 | 55.2 | <LOD | 57.15 | <LOD | 73.95 | <LOD | 62.25 | <LOD | 180 |
| 087-02 | <LOD | 42.15 | 218.6 | 75.5 | <LOD | 63.6 | <LOD | 75.3 | <LOD | 64.5 | <LOD | 165 |
| 087-03 | <LOD | 32.55 | 402.8 | 70.6 | <LOD | 57.9 | <LOD | 62.7 | <LOD | 53.4 | <LOD | 132.9 |
| 087-04 | <LOD | 59.25 | 330.8 | 92.6 | <LOD | 74.7 | <LOD | 94.5 | <LOD | 69.75 | <LOD | 210 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 088-01 | <LOD | 35.1 | 148.9 | 50.3 | <LOD | 49.95 | <LOD | 66.3 | <LOD | 47.55 | <LOD | 143.7 |
| 088-02 | <LOD | 28.2 | 148.9 | 46.3 | <LOD | 47.25 | <LOD | 67.05 | <LOD | 44.55 | <LOD | 129.3 |
| 088-03 | 38.9 | 25.4 | 255.4 | 51.5 | <LOD | 47.85 | <LOD | 60 | <LOD | 43.35 | <LOD | 119.55 |
| 088-04 | <LOD | 33.45 | 161.8 | 45.6 | <LOD | 46.05 | <LOD | 63 | <LOD | 40.5 | <LOD | 119.4 |
| 089-01 | <LOD | 45.75 | 83.5 | 49.9 | <LOD | 61.95 | <LOD | 78.9 | <LOD | 50.4 | <LOD | 165 |
| 089-02 | <LOD | 36.9 | 173.4 | 51.6 | <LOD | 54.6 | <LOD | 60.9 | <LOD | 42.45 | <LOD | 144.3 |
| 089-03 | <LOD | 32.1 | 206.2 | 50.9 | <LOD | 48.15 | <LOD | 67.5 | <LOD | 44.1 | <LOD | 126.15 |
| 089-04 | <LOD | 35.55 | 136 | 48 | <LOD | 55.65 | <LOD | 69.6 | <LOD | 48.75 | <LOD | 165 |
| 090-01 | <LOD | 42.75 | 186.8 | 68.1 | <LOD | 61.5 | <LOD | 80.25 | <LOD | 54.3 | <LOD | 165 |
| 090-02 | <LOD | 44.7 | 260.6 | 79.5 | <LOD | 63.45 | <LOD | 76.35 | <LOD | 59.55 | <LOD | 180 |
| 090-03 | <LOD | 34.2 | 255.6 | 57 | <LOD | 49.8 | <LOD | 63.9 | <LOD | 42 | <LOD | 127.2 |
| 090-04 | <LOD | 40.8 | 261.6 | 65.1 | <LOD | 59.25 | <LOD | 76.2 | <LOD | 52.65 | <LOD | 150 |
| 091-01 | <LOD | 47.1 | 239.4 | 75.5 | <LOD | 64.65 | <LOD | 84.15 | <LOD | 58.65 | <LOD | 225 |
| 091-02 | 58 | 30.3 | 236.6 | 57.9 | <LOD | 52.65 | <LOD | 67.8 | <LOD | 37.35 | <LOD | 128.25 |
| 091-03 | <LOD | 37.95 | 197.9 | 62.7 | <LOD | 57.9 | <LOD | 78.6 | <LOD | 52.2 | <LOD | 165 |
| 091-04 | <LOD | 51 | 195.6 | 66.5 | <LOD | 67.05 | <LOD | 78.75 | <LOD | 61.2 | <LOD | 180 |
| 092-01 | <LOD | 28.95 | 111 | 44 | <LOD | 48.75 | <LOD | 59.85 | <LOD | 40.2 | <LOD | 134.4 |
| 092-02 | <LOD | 49.35 | 394 | 92 | <LOD | 73.65 | <LOD | 90.15 | <LOD | 63.9 | <LOD | 180 |
| 092-03 | <LOD | 35.4 | 206 | 57.2 | <LOD | 55.35 | <LOD | 80.4 | <LOD | 53.85 | <LOD | 147 |
| 092-04 | <LOD | 34.05 | 239 | 71.9 | <LOD | 60.15 | <LOD | 80.85 | <LOD | 58.2 | <LOD | 165 |
| 093-01 | <LOD | 38.85 | 198.5 | 51.7 | <LOD | 50.4 | <LOD | 69.45 | <LOD | 45.15 | <LOD | 131.55 |
| 093-02 | <LOD | 34.5 | 142.6 | 46.6 | <LOD | 52.95 | <LOD | 63.75 | <LOD | 41.85 | <LOD | 129 |
| 093-03 | <LOD | 39.3 | 165.4 | 51.6 | <LOD | 55.2 | <LOD | 65.55 | <LOD | 43.8 | <LOD | 132 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 093-04 | <LOD | 32.55 | 165.8 | 49.8 | <LOD | 50.4 | <LOD | 63.15 | <LOD | 50.55 | <LOD | 137.25 |
| 094-01 | <LOD | 34.8 | 192.8 | 48.3 | <LOD | 47.4 | <LOD | 65.7 | <LOD | 42 | <LOD | 119.1 |
| 094-02 | <LOD | 37.8 | 204.1 | 59.2 | <LOD | 59.25 | <LOD | 79.2 | <LOD | 56.55 | <LOD | 150 |
| 094-03 | <LOD | 39.3 | 232.4 | 54.6 | <LOD | 51.45 | <LOD | 61.95 | <LOD | 44.4 | <LOD | 130.35 |
| 094-04 | <LOD | 25.65 | 175.9 | 50.7 | <LOD | 47.4 | <LOD | 63.9 | <LOD | 44.4 | <LOD | 126.15 |
| 095-01 | <LOD | 48 | 254.4 | 65.2 | <LOD | 53.4 | <LOD | 78.3 | <LOD | 45.15 | <LOD | 165 |
| 095-02 | <LOD | 30 | 364.8 | 65.5 | <LOD | 55.5 | <LOD | 64.5 | <LOD | 47.25 | <LOD | 127.35 |
| 095-03 | <LOD | 44.85 | 277.2 | 76.7 | <LOD | 69 | <LOD | 75.45 | <LOD | 54.75 | <LOD | 210 |
| 095-04 | <LOD | 34.95 | 376 | 60.1 | <LOD | 49.35 | <LOD | 61.8 | <LOD | 43.35 | <LOD | 112.65 |
| 096-01 | <LOD | 36.45 | 308.2 | 60.4 | <LOD | 52.35 | <LOD | 65.4 | <LOD | 45.45 | <LOD | 132.9 |
| 096-02 | <LOD | 34.65 | 337.8 | 56.1 | <LOD | 42.3 | <LOD | 56.4 | <LOD | 36.15 | <LOD | 112.8 |
| 096-03 | <LOD | 36.15 | 268.8 | 52.7 | <LOD | 45.75 | <LOD | 60.15 | <LOD | 42.9 | <LOD | 118.5 |
| 096-04 | <LOD | 33.45 | 300.4 | 52.8 | <LOD | 49.05 | <LOD | 59.25 | <LOD | 36.15 | <LOD | 107.25 |
| 097-01 | <LOD | 41.4 | 264.6 | 61.5 | <LOD | 51.3 | <LOD | 70.95 | <LOD | 43.2 | <LOD | 134.25 |
| 097-02 | <LOD | 35.4 | 238 | 56.8 | <LOD | 52.5 | <LOD | 64.5 | <LOD | 45.9 | <LOD | 139.35 |
| 097-03 | <LOD | 45.75 | 220.4 | 65.9 | <LOD | 68.4 | <LOD | 76.8 | <LOD | 48.45 | <LOD | 165 |
| 097-04 | <LOD | 34.65 | 377.6 | 58.7 | <LOD | 49.95 | <LOD | 58.65 | <LOD | 39.6 | <LOD | 107.25 |
| 098-01 | 40 | 24.8 | 333.6 | 54.8 | <LOD | 44.4 | <LOD | 54.15 | <LOD | 36.3 | <LOD | 112.05 |
| 098-02 | <LOD | 36.15 | 340.6 | 64.4 | <LOD | 51.45 | <LOD | 63.45 | <LOD | 43.5 | <LOD | 134.85 |
| 098-03 | <LOD | 42 | 325 | 69.2 | <LOD | 60 | <LOD | 78.45 | <LOD | 50.1 | <LOD | 144.45 |
| 098-04 | <LOD | 34.8 | 279.2 | 69 | <LOD | 61.5 | <LOD | 75.3 | <LOD | 49.05 | <LOD | 165 |
| 099-01 | <LOD | 39.6 | 287.4 | 60.6 | <LOD | 54.6 | <LOD | 64.05 | <LOD | 48.15 | <LOD | 132.3 |
| 099-02 | <LOD | 43.8 | 338.8 | 68 | <LOD | 57.15 | <LOD | 70.35 | <LOD | 53.55 | <LOD | 150 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 099-03 | <LOD | 32.25 | 327.6 | 64.5 | <LOD | 56.7 | <LOD | 72.75 | <LOD | 53.4 | <LOD | 130.5 |
| 099-04 | 43.4 | 28.3 | 341.8 | 63.7 | <LOD | 50.7 | <LOD | 70.35 | <LOD | 38.7 | <LOD | 128.7 |
| 100-01 | <LOD | 28.05 | 263.8 | 51.2 | <LOD | 47.25 | <LOD | 61.05 | <LOD | 43.2 | <LOD | 117.75 |
| 100-02 | <LOD | 33 | 220.2 | 50.9 | <LOD | 51.3 | <LOD | 61.05 | <LOD | 38.7 | <LOD | 127.05 |
| 100-03 | <LOD | 28.35 | 197.7 | 43.5 | <LOD | 42.9 | <LOD | 54.75 | <LOD | 38.85 | <LOD | 111.75 |
| 100-04 | <LOD | 30.6 | 194.4 | 55.2 | <LOD | 52.35 | <LOD | 70.35 | <LOD | 53.25 | <LOD | 146.85 |
| 101-01 | <LOD | 47.4 | 164.8 | 74.6 | <LOD | 78.15 | <LOD | 101.7 | <LOD | 69.75 | <LOD | 195 |
| 101-02 | <LOD | 35.25 | 201.5 | 49.5 | <LOD | 49.8 | <LOD | 66.45 | <LOD | 38.4 | <LOD | 123.9 |
| 101-03 | <LOD | 40.5 | 163.6 | 58.7 | <LOD | 64.5 | <LOD | 83.25 | <LOD | 51.45 | <LOD | 165 |
| 101-04 | <LOD | 32.85 | 244.2 | 55.2 | <LOD | 49.2 | <LOD | 61.2 | <LOD | 39.6 | <LOD | 127.65 |
| 102-01 | <LOD | 60.3 | 203.8 | 75.9 | <LOD | 76.5 | <LOD | 91.05 | <LOD | 63.9 | <LOD | 195 |
| 102-02 | <LOD | 29.4 | 300.2 | 56.7 | <LOD | 52.95 | <LOD | 65.85 | <LOD | 41.4 | <LOD | 122.85 |
| 102-03 | <LOD | 34.95 | 217 | 56.7 | <LOD | 49.2 | <LOD | 68.7 | <LOD | 50.55 | <LOD | 139.95 |
| 102-04 | <LOD | 37.95 | 220.2 | 53.8 | <LOD | 48.15 | <LOD | 65.7 | <LOD | 45.3 | <LOD | 133.65 |
| 103-01 | <LOD | 37.5 | 220 | 54.7 | <LOD | 45.3 | <LOD | 69.45 | <LOD | 43.65 | <LOD | 139.05 |
| 103-02 | <LOD | 39 | 152.7 | 61.5 | <LOD | 66.45 | <LOD | 86.55 | <LOD | 53.85 | <LOD | 165 |
| 103-03 | <LOD | 39 | 168.7 | 58.7 | <LOD | 66.75 | <LOD | 73.5 | <LOD | 55.65 | <LOD | 165 |
| 103-04 | <LOD | 40.35 | 182.6 | 69.5 | <LOD | 69.6 | <LOD | 88.95 | <LOD | 58.65 | <LOD | 180 |
| 104-01 | <LOD | 43.2 | 269 | 66.2 | <LOD | 55.05 | <LOD | 81.6 | <LOD | 55.95 | <LOD | 150 |
| 104-02 | <LOD | 34.2 | 184.2 | 53.6 | <LOD | 51 | <LOD | 70.5 | <LOD | 49.35 | <LOD | 136.05 |
| 104-03 | <LOD | 36.9 | 126.8 | 51.6 | <LOD | 58.05 | <LOD | 79.05 | <LOD | 49.05 | <LOD | 165 |
| 104-04 | <LOD | 35.7 | 146 | 58.3 | <LOD | 59.25 | <LOD | 88.05 | <LOD | 48.15 | <LOD | 165 |
| 105-01 | <LOD | 27.45 | 66.2 | 35.3 | <LOD | 39.75 | <LOD | 58.35 | <LOD | 39.9 | <LOD | 116.25 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 105-02 | <LOD | 31.35 | 83.1 | 45.3 | <LOD | 48.6 | <LOD | 77.1 | <LOD | 48.9 | <LOD | 150 |
| 105-03 | <LOD | 34.2 | 216.2 | 56.4 | <LOD | 54.15 | <LOD | 64.95 | <LOD | 40.65 | <LOD | 137.85 |
| 105-04 | <LOD | 35.25 | 229.4 | 51.3 | <LOD | 47.7 | <LOD | 63.9 | <LOD | 41.55 | <LOD | 127.5 |
| 106-01 | 136.9 | 44.6 | 506 | 81.3 | <LOD | 69.45 | <LOD | 68.1 | <LOD | 54.3 | <LOD | 142.05 |
| 106-02 | <LOD | 46.2 | 250.6 | 73.5 | <LOD | 60.75 | <LOD | 87.45 | <LOD | 55.65 | <LOD | 195 |
| 106-03 | <LOD | 38.1 | 313.2 | 63.7 | <LOD | 56.85 | <LOD | 75.45 | <LOD | 41.1 | <LOD | 131.55 |
| 106-04 | <LOD | 38.4 | 262.4 | 60.2 | <LOD | 54 | <LOD | 70.5 | <LOD | 53.4 | <LOD | 142.95 |
| 107-01 | <LOD | 35.55 | 305.2 | 61.9 | <LOD | 54.6 | <LOD | 67.5 | <LOD | 42.15 | <LOD | 138.6 |
| 107-02 | <LOD | 31.5 | 315.2 | 62.9 | <LOD | 54.9 | <LOD | 66.3 | <LOD | 44.4 | <LOD | 130.95 |
| 107-03 | <LOD | 43.35 | 192.6 | 54.9 | <LOD | 52.35 | <LOD | 66.6 | <LOD | 45.75 | <LOD | 145.8 |
| 107-04 | <LOD | 34.65 | 297.4 | 67.3 | <LOD | 55.5 | <LOD | 69 | <LOD | 53.85 | <LOD | 165 |
| 108-01 | <LOD | 33 | 276.8 | 53.7 | <LOD | 45.6 | <LOD | 56.4 | <LOD | 40.35 | <LOD | 122.55 |
| 108-02 | <LOD | 43.5 | 184.7 | 57.3 | <LOD | 55.05 | <LOD | 71.1 | <LOD | 45.9 | <LOD | 149.25 |
| 108-03 | <LOD | 31.65 | 167.2 | 51.6 | <LOD | 48.3 | <LOD | 65.1 | <LOD | 42.3 | <LOD | 133.2 |
| 108-04 | <LOD | 34.2 | 191.4 | 48 | <LOD | 48.3 | <LOD | 64.2 | <LOD | 44.7 | <LOD | 120.75 |
| 110-01 | <LOD | 39 | 195 | 62.3 | <LOD | 60 | <LOD | 74.1 | <LOD | 55.65 | <LOD | 165 |
| 110-02 | <LOD | 38.4 | 209.8 | 69.8 | <LOD | 59.25 | <LOD | 91.95 | <LOD | 57.15 | <LOD | 180 |
| 110-03 | <LOD | 39.9 | 291.6 | 72.8 | <LOD | 54.9 | <LOD | 75.3 | <LOD | 58.8 | <LOD | 150 |
| 110-04 | <LOD | 36.6 | 258.4 | 72.9 | <LOD | 59.55 | <LOD | 81.6 | <LOD | 53.1 | <LOD | 180 |
| 111-01 | <LOD | 40.05 | 333.8 | 68.2 | <LOD | 49.35 | <LOD | 68.4 | <LOD | 50.7 | <LOD | 139.35 |
| 111-02 | <LOD | 36.15 | 303.8 | 61.9 | <LOD | 60.6 | <LOD | 67.35 | <LOD | 51.45 | <LOD | 137.1 |
| 111-03 | <LOD | 28.5 | 260.2 | 54 | <LOD | 47.25 | <LOD | 59.1 | <LOD | 43.95 | <LOD | 121.5 |
| 111-04 | 134.1 | 36.4 | 345 | 59.1 | <LOD | 54.45 | <LOD | 62.85 | <LOD | 48 | <LOD | 116.7 |

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## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **112-01** | <LOD | 29.4 | 138.5 | 48.8 | <LOD | 51.45 | <LOD | 75.15 | <LOD | 52.8 | <LOD | 150 |
| **112-02** | <LOD | 45.3 | 192.8 | 66.4 | <LOD | 64.65 | <LOD | 81.9 | <LOD | 69 | <LOD | 165 |
| **112-03** | <LOD | 34.65 | 210.6 | 69.9 | <LOD | 60.9 | <LOD | 83.7 | <LOD | 66.75 | <LOD | 180 |
| **112-04** | <LOD | 38.7 | 264.8 | 64.4 | <LOD | 60.3 | <LOD | 71.55 | <LOD | 54.9 | <LOD | 150 |
| **113-01** | <LOD | 30.3 | 162.1 | 54.4 | <LOD | 57.15 | <LOD | 72.6 | <LOD | 42.6 | <LOD | 145.65 |
| **113-02** | <LOD | 25.35 | 88.8 | 36.8 | <LOD | 40.65 | <LOD | 59.25 | <LOD | 40.05 | <LOD | 120.3 |
| **113-03** | <LOD | 42.75 | 82 | 52.1 | <LOD | 60.3 | <LOD | 73.35 | <LOD | 58.35 | <LOD | 165 |
| **113-04** | <LOD | 34.8 | 123.3 | 47.2 | <LOD | 45 | <LOD | 62.1 | <LOD | 42.15 | <LOD | 140.4 |
| **114-01** | <LOD | 36.9 | 195.8 | 54.8 | <LOD | 54.9 | <LOD | 62.85 | <LOD | 47.1 | <LOD | 165 |
| **114-02** | <LOD | 42 | 128.5 | 61 | <LOD | 60.3 | <LOD | 84.15 | <LOD | 59.4 | <LOD | 195 |
| **114-03** | <LOD | 41.85 | <LOD | 82.95 | <LOD | 66.3 | <LOD | 78.45 | <LOD | 59.4 | <LOD | 180 |
| **114-04** | <LOD | 30.45 | 168.7 | 48.7 | <LOD | 53.4 | <LOD | 75.9 | <LOD | 50.85 | <LOD | 137.4 |
| **115-01** | <LOD | 33.75 | 81.9 | 41.4 | <LOD | 52.95 | <LOD | 69 | <LOD | 40.8 | <LOD | 128.55 |
| **115-02** | <LOD | 36.9 | 131.1 | 53.8 | <LOD | 59.4 | <LOD | 77.7 | <LOD | 52.05 | <LOD | 150 |
| **115-03** | <LOD | 43.2 | 323 | 68.6 | <LOD | 54.9 | <LOD | 61.95 | <LOD | 48.75 | <LOD | 136.65 |
| **115-04** | <LOD | 37.8 | 126.1 | 53.6 | <LOD | 58.05 | <LOD | 71.55 | <LOD | 54 | <LOD | 180 |
| **116-01** | <LOD | 32.7 | 109.4 | 43 | <LOD | 43.35 | <LOD | 70.2 | <LOD | 47.25 | <LOD | 133.35 |
| **116-02** | <LOD | 39 | 143.3 | 45.3 | <LOD | 47.55 | <LOD | 63.9 | <LOD | 41.7 | <LOD | 132.3 |
| **116-03** | <LOD | 35.1 | 117.3 | 38.9 | <LOD | 47.55 | <LOD | 64.2 | <LOD | 39.15 | <LOD | 119.4 |
| **116-04** | <LOD | 33.75 | 305 | 53.4 | <LOD | 47.1 | <LOD | 60.3 | <LOD | 40.2 | <LOD | 115.95 |
| **117-01** | <LOD | 53.1 | 281.2 | 76.6 | <LOD | 62.4 | <LOD | 88.05 | <LOD | 64.5 | <LOD | 180 |
| **117-02** | <LOD | 39.75 | 236.4 | 55 | <LOD | 54.15 | <LOD | 67.95 | <LOD | 40.5 | <LOD | 130.95 |
| **117-03** | <LOD | 38.1 | 349.8 | 62 | <LOD | 47.7 | <LOD | 61.35 | <LOD | 37.2 | <LOD | 127.35 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117-04 | <LOD | 31.65 | 291 | 57.1 | <LOD | 51.45 | <LOD | 66.15 | <LOD | 42.6 | <LOD | 120.3 |
| 118-01 | 74.8 | 47.8 | 796.8 | 130 | <LOD | 88.35 | <LOD | 99.45 | <LOD | 66.45 | <LOD | 210 |
| 118-02 | <LOD | 46.95 | 410 | 75.1 | <LOD | 59.25 | <LOD | 69.3 | <LOD | 45.75 | <LOD | 165 |
| 118-03 | <LOD | 53.1 | 316.2 | 75.2 | <LOD | 69.75 | <LOD | 73.8 | <LOD | 50.25 | <LOD | 165 |
| 118-04 | <LOD | 34.65 | 315 | 57.3 | <LOD | 53.25 | <LOD | 61.2 | <LOD | 43.35 | <LOD | 123.75 |
| 119-01 | 120.3 | 39.3 | 260 | 61.1 | <LOD | 51.45 | <LOD | 66.15 | <LOD | 43.5 | <LOD | 138.3 |
| 119-02 | 86.4 | 34.3 | 212.2 | 52.3 | <LOD | 52.35 | <LOD | 62.1 | <LOD | 48.75 | <LOD | 135.9 |
| 119-03 | 65.3 | 31.7 | 154.1 | 48.6 | <LOD | 50.85 | <LOD | 68.7 | <LOD | 34.95 | <LOD | 129 |
| 119-04 | 139.5 | 47.2 | 238.8 | 65.6 | <LOD | 57.3 | <LOD | 74.1 | <LOD | 49.05 | <LOD | 150 |
| 120-01 | <LOD | 30.9 | 238.8 | 55.2 | <LOD | 51.9 | <LOD | 68.85 | <LOD | 47.7 | <LOD | 128.85 |
| 120-02 | <LOD | 35.85 | 260.4 | 53.9 | <LOD | 48.45 | <LOD | 66.6 | <LOD | 40.5 | <LOD | 125.25 |
| 120-03 | 45.1 | 27 | 170.2 | 47 | <LOD | 49.35 | <LOD | 65.1 | <LOD | 48 | <LOD | 126.9 |
| 120-04 | <LOD | 32.85 | 204.2 | 45.2 | <LOD | 46.95 | <LOD | 54.75 | <LOD | 37.5 | <LOD | 111.9 |
| 121-01 | <LOD | 25.65 | 344.2 | 58 | <LOD | 44.25 | <LOD | 56.7 | <LOD | 40.8 | <LOD | 117.9 |
| 121-02 | <LOD | 33.6 | 272 | 55.5 | <LOD | 50.7 | <LOD | 58.05 | <LOD | 45.3 | <LOD | 121.65 |
| 121-03 | <LOD | 33.3 | 350.8 | 55.3 | <LOD | 45.45 | <LOD | 57.9 | <LOD | 36.9 | <LOD | 116.85 |
| 121-04 | <LOD | 37.35 | 375 | 70.4 | <LOD | 57.45 | <LOD | 65.7 | <LOD | 45.9 | <LOD | 165 |
| 122-01 | <LOD | 34.95 | 170.5 | 45.5 | <LOD | 49.5 | <LOD | 58.65 | <LOD | 41.55 | <LOD | 120.3 |
| 122-02 | <LOD | 34.8 | 172 | 48.1 | <LOD | 43.65 | <LOD | 62.7 | <LOD | 39.9 | <LOD | 131.4 |
| 122-03 | <LOD | 37.05 | 135.1 | 51.4 | <LOD | 60.15 | <LOD | 76.05 | <LOD | 47.85 | <LOD | 145.95 |
| 122-04 | <LOD | 30 | 203.2 | 40.3 | <LOD | 39.45 | <LOD | 54.75 | <LOD | 35.1 | <LOD | 103.8 |
| 123-01 | <LOD | 34.95 | 199.1 | 48.6 | <LOD | 47.55 | <LOD | 59.4 | <LOD | 42.15 | <LOD | 125.1 |
| 123-02 | <LOD | 35.25 | 274.2 | 57.2 | <LOD | 49.05 | <LOD | 61.2 | <LOD | 41.55 | <LOD | 133.35 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123-03 | <LOD | 32.85 | 157.1 | 45.8 | <LOD | 50.25 | <LOD | 60 | <LOD | 46.5 | <LOD | 127.35 |
| 123-04 | <LOD | 32.7 | 199 | 47.7 | <LOD | 41.1 | <LOD | 56.25 | <LOD | 42.3 | <LOD | 122.25 |
| 124-01 | <LOD | 25.65 | 189.3 | 43.9 | <LOD | 44.1 | <LOD | 57.75 | <LOD | 39.15 | <LOD | 114.6 |
| 124-02 | <LOD | 26.85 | 100.4 | 37.8 | <LOD | 49.8 | <LOD | 51.3 | <LOD | 40.5 | <LOD | 123 |
| 124-03 | <LOD | 31.95 | 149.6 | 41.1 | <LOD | 46.8 | <LOD | 60.15 | <LOD | 40.2 | <LOD | 117.45 |
| 124-04 | <LOD | 37.95 | 96.8 | 41.8 | <LOD | 44.7 | <LOD | 63.15 | <LOD | 49.65 | <LOD | 141.3 |
| 125-01 | <LOD | 36 | 250.8 | 53.6 | <LOD | 47.7 | <LOD | 61.05 | <LOD | 38.55 | <LOD | 123.3 |
| 125-02 | <LOD | 35.4 | 271.8 | 51.6 | <LOD | 48 | <LOD | 57.9 | <LOD | 41.7 | <LOD | 115.5 |
| 125-03 | <LOD | 38.7 | 285.2 | 59.7 | <LOD | 49.35 | <LOD | 67.35 | <LOD | 45.75 | <LOD | 137.25 |
| 125-04 | <LOD | 37.05 | 257 | 55 | <LOD | 53.7 | <LOD | 62.4 | <LOD | 44.4 | <LOD | 135.9 |
| 126-01 | <LOD | 39.15 | 179.1 | 49.6 | <LOD | 45.45 | <LOD | 66.45 | <LOD | 42.15 | <LOD | 124.2 |
| 126-02 | <LOD | 38.1 | 211 | 51.6 | <LOD | 51.45 | <LOD | 69.45 | <LOD | 45.9 | <LOD | 126.3 |
| 126-03 | <LOD | 27.9 | 145.4 | 36.3 | <LOD | 38.7 | <LOD | 51 | <LOD | 36 | <LOD | 101.55 |
| 126-04 | <LOD | 35.1 | 171.1 | 54.9 | <LOD | 56.4 | <LOD | 75.15 | <LOD | 43.05 | <LOD | 144.75 |
| 127-01 | <LOD | 33.3 | 217.2 | 49.3 | <LOD | 47.1 | <LOD | 59.1 | <LOD | 47.85 | <LOD | 125.85 |
| 127-02 | <LOD | 25.35 | 116.1 | 41.2 | <LOD | 46.35 | <LOD | 58.65 | <LOD | 46.35 | <LOD | 124.35 |
| 127-03 | <LOD | 28.8 | 171 | 43.4 | <LOD | 45.45 | <LOD | 61.05 | <LOD | 39.3 | <LOD | 116.55 |
| 127-04 | <LOD | 31.8 | 159.3 | 46.9 | <LOD | 42.6 | <LOD | 55.05 | <LOD | 35.55 | <LOD | 119.4 |
| 128-01 | <LOD | 25.95 | 161.5 | 42.2 | <LOD | 40.65 | <LOD | 59.7 | <LOD | 36.15 | <LOD | 114.6 |
| 128-02 | <LOD | 27.6 | 142 | 38.5 | <LOD | 41.7 | <LOD | 57.15 | <LOD | 39 | <LOD | 109.2 |
| 128-03 | <LOD | 37.35 | 168.4 | 50.9 | <LOD | 44.85 | <LOD | 67.05 | <LOD | 46.35 | <LOD | 135.6 |
| 128-04 | <LOD | 27.45 | 171.8 | 56 | <LOD | 59.4 | <LOD | 75.75 | <LOD | 52.65 | <LOD | 165 |
| 129-01 | <LOD | 29.55 | 160.7 | 44 | <LOD | 45.15 | <LOD | 61.5 | <LOD | 46.2 | <LOD | 121.35 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 129-02 | <LOD | 31.35 | 129.9 | 47.3 | <LOD | 51.45 | <LOD | 65.55 | <LOD | 45.15 | <LOD | 150 |
| 129-03 | <LOD | 26.7 | 196.8 | 45.1 | <LOD | 44.25 | <LOD | 55.05 | <LOD | 39 | <LOD | 112.2 |
| 129-04 | <LOD | 34.2 | 216.6 | 50.4 | <LOD | 46.2 | <LOD | 72.9 | <LOD | 46.35 | <LOD | 129.15 |
| 130-01 | <LOD | 27.6 | 107.5 | 35.2 | <LOD | 44.25 | <LOD | 60 | <LOD | 45 | <LOD | 123.9 |
| 130-02 | <LOD | 40.05 | 264 | 56 | <LOD | 51 | <LOD | 66.9 | <LOD | 45 | <LOD | 128.7 |
| 130-03 | <LOD | 30.6 | 130.9 | 39.8 | <LOD | 40.95 | <LOD | 57.9 | <LOD | 44.4 | <LOD | 120 |
| 130-04 | <LOD | 28.05 | 147.1 | 41.3 | <LOD | 41.1 | <LOD | 60.3 | <LOD | 39.45 | <LOD | 115.2 |
| 131-01 | <LOD | 35.7 | 163.4 | 58.9 | <LOD | 66 | <LOD | 72.45 | <LOD | 52.2 | <LOD | 165 |
| 131-02 | 39.2 | 23.7 | 451.2 | 61 | <LOD | 48 | <LOD | 53.25 | <LOD | 37.65 | <LOD | 108.75 |
| 131-03 | <LOD | 37.35 | 180.8 | 52.4 | <LOD | 50.25 | <LOD | 66.6 | <LOD | 44.4 | <LOD | 136.05 |
| 131-04 | <LOD | 35.7 | 160.9 | 45.7 | <LOD | 45.3 | <LOD | 61.65 | <LOD | 40.8 | <LOD | 133.5 |
| 132-01 | <LOD | 33.15 | 293.8 | 58.1 | <LOD | 49.5 | <LOD | 71.25 | <LOD | 45 | <LOD | 143.4 |
| 132-02 | 36.8 | 23.4 | 236.6 | 47.4 | <LOD | 41.1 | <LOD | 51.6 | <LOD | 35.85 | <LOD | 114.3 |
| 132-03 | <LOD | 45.15 | 210.6 | 56.6 | <LOD | 54.45 | <LOD | 62.55 | <LOD | 52.5 | <LOD | 150 |
| 132-04 | 54.3 | 28.3 | 221 | 49.7 | <LOD | 53.85 | <LOD | 60.15 | <LOD | 48 | <LOD | 126.15 |
| 133-01 | <LOD | 35.25 | 302.2 | 55.3 | <LOD | 47.55 | <LOD | 64.35 | <LOD | 43.5 | <LOD | 123.45 |
| 133-02 | <LOD | 31.5 | 241.6 | 46.2 | <LOD | 44.55 | <LOD | 55.5 | <LOD | 38.55 | <LOD | 110.25 |
| 133-03 | <LOD | 34.35 | 224 | 51.1 | <LOD | 43.05 | <LOD | 67.05 | <LOD | 40.8 | <LOD | 127.2 |
| 133-04 | <LOD | 33.3 | 215 | 46.3 | <LOD | 41.25 | <LOD | 60.75 | <LOD | 39.9 | <LOD | 118.05 |
| 134-01 | <LOD | 33.75 | 161.8 | 53.2 | <LOD | 52.35 | <LOD | 79.5 | <LOD | 54.45 | <LOD | 180 |
| 134-02 | <LOD | 27.15 | 181.3 | 46.4 | <LOD | 49.2 | <LOD | 65.4 | <LOD | 41.7 | <LOD | 127.65 |
| 134-03 | <LOD | 23.7 | 139.7 | 38.3 | <LOD | 40.95 | <LOD | 61.8 | <LOD | 39.15 | <LOD | 111.75 |
| 134-04 | <LOD | 30.6 | 191.4 | 46.5 | <LOD | 51 | <LOD | 60.6 | <LOD | 47.7 | <LOD | 124.95 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 136-01 | <LOD | 35.1 | 212 | 53 | <LOD | 49.35 | <LOD | 73.5 | <LOD | 44.25 | <LOD | 135 |
| 136-02 | <LOD | 54.9 | 217.6 | 71.7 | <LOD | 61.65 | <LOD | 96 | <LOD | 63.45 | <LOD | 180 |
| 136-03 | <LOD | 42.6 | 154 | 55.6 | <LOD | 59.4 | <LOD | 76.65 | <LOD | 52.95 | <LOD | 147 |
| 136-04 | <LOD | 30.9 | 219.8 | 52 | <LOD | 45.75 | <LOD | 61.35 | <LOD | 46.35 | <LOD | 126.3 |
| 137-01 | <LOD | 31.65 | 312.6 | 50.1 | <LOD | 46.05 | <LOD | 57.3 | <LOD | 33.45 | <LOD | 103.05 |
| 137-02 | <LOD | 39.75 | 220 | 61.5 | <LOD | 59.55 | <LOD | 81.15 | <LOD | 44.85 | <LOD | 150 |
| 137-03 | <LOD | 34.8 | 292.2 | 54.4 | <LOD | 50.1 | <LOD | 59.7 | <LOD | 42.9 | <LOD | 119.7 |
| 137-04 | <LOD | 34.95 | 373.4 | 60.9 | <LOD | 45.9 | <LOD | 59.55 | <LOD | 44.1 | <LOD | 115.2 |
| 138-01 | <LOD | 29.7 | 196.1 | 49.3 | <LOD | 48.15 | <LOD | 61.2 | <LOD | 46.95 | <LOD | 129.3 |
| 138-02 | <LOD | 42.75 | 269.6 | 57.8 | <LOD | 56.7 | <LOD | 66.15 | <LOD | 42.75 | <LOD | 130.05 |
| 138-03 | <LOD | 27 | 245 | 41.2 | <LOD | 40.05 | <LOD | 51.75 | <LOD | 34.95 | <LOD | 96 |
| 138-04 | <LOD | 34.35 | 162.2 | 46.3 | <LOD | 41.25 | <LOD | 66.75 | <LOD | 47.25 | <LOD | 132.9 |
| 139-01 | <LOD | 32.1 | 237 | 52.2 | <LOD | 52.95 | <LOD | 63.3 | <LOD | 46.2 | <LOD | 121.35 |
| 139-02 | <LOD | 36.15 | 159.5 | 54.6 | <LOD | 63.3 | <LOD | 75.3 | <LOD | 51.15 | <LOD | 144.75 |
| 139-03 | <LOD | 39.75 | 182.8 | 55.3 | <LOD | 60.45 | <LOD | 64.95 | <LOD | 52.05 | <LOD | 142.2 |
| 139-04 | <LOD | 31.5 | 183.5 | 40.9 | <LOD | 41.1 | <LOD | 58.35 | <LOD | 35.4 | <LOD | 105 |
| 140-01 | <LOD | 40.5 | 217.4 | 57.6 | <LOD | 44.85 | <LOD | 75.3 | <LOD | 49.2 | <LOD | 146.1 |
| 140-02 | <LOD | 35.85 | 149.2 | 50.2 | <LOD | 57.75 | <LOD | 69.45 | <LOD | 54.3 | <LOD | 147 |
| 140-03 | <LOD | 32.25 | 192.2 | 52.7 | <LOD | 49.05 | <LOD | 69 | <LOD | 46.2 | <LOD | 133.35 |
| 140-04 | <LOD | 32.4 | 174.5 | 39.8 | <LOD | 39.75 | <LOD | 51.3 | <LOD | 37.05 | <LOD | 101.7 |
| 141-01 | <LOD | 30.3 | 241.8 | 44.5 | <LOD | 41.85 | <LOD | 55.05 | <LOD | 38.55 | <LOD | 105.9 |
| 141-02 | <LOD | 31.95 | 408.2 | 59.3 | <LOD | 48.3 | <LOD | 56.1 | <LOD | 43.8 | <LOD | 110.1 |
| 141-03 | <LOD | 27.75 | 339.4 | 61.1 | <LOD | 53.25 | <LOD | 63.45 | <LOD | 41.55 | <LOD | 121.5 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 141-04 | <LOD | 28.95 | 486 | 62.5 | <LOD | 47.1 | <LOD | 57.45 | <LOD | 38.4 | <LOD | 103.35 |
| 142-01 | <LOD | 29.25 | 331.4 | 51.5 | <LOD | 41.7 | <LOD | 54.75 | <LOD | 32.85 | <LOD | 102.75 |
| 142-02 | <LOD | 40.05 | 231.4 | 64.5 | <LOD | 65.55 | <LOD | 83.55 | <LOD | 55.95 | <LOD | 180 |
| 142-03 | <LOD | 34.95 | 328.4 | 70.8 | <LOD | 60 | <LOD | 78.15 | <LOD | 45.15 | <LOD | 145.2 |
| 142-04 | <LOD | 34.95 | 297.2 | 56 | <LOD | 52.5 | <LOD | 61.5 | <LOD | 44.85 | <LOD | 119.55 |
| 143-01 | <LOD | 28.35 | 239.4 | 58.3 | <LOD | 53.85 | <LOD | 73.05 | <LOD | 44.25 | <LOD | 136.2 |
| 143-02 | <LOD | 23.55 | 226.6 | 39.9 | <LOD | 38.85 | <LOD | 51.45 | <LOD | 33.9 | <LOD | 93.9 |
| 143-03 | <LOD | 36.9 | 175.5 | 49.1 | <LOD | 55.95 | <LOD | 66.3 | <LOD | 42.6 | <LOD | 124.2 |
| 143-04 | <LOD | 27.15 | 188.1 | 43.3 | <LOD | 41.1 | <LOD | 58.2 | <LOD | 42.45 | <LOD | 109.35 |
| 144-01 | 64.4 | 38.3 | 352.6 | 79.8 | <LOD | 65.25 | <LOD | 85.95 | <LOD | 46.2 | <LOD | 180 |
| 144-02 | <LOD | 33.15 | 176.6 | 50.6 | <LOD | 53.55 | <LOD | 66.15 | <LOD | 46.8 | <LOD | 139.05 |
| 144-03 | 68.8 | 32.9 | 441.6 | 72 | <LOD | 60.45 | <LOD | 64.65 | <LOD | 40.8 | <LOD | 126.9 |
| 144-04 | 70 | 38.2 | 281.8 | 65.4 | <LOD | 66.15 | <LOD | 73.2 | <LOD | 51.45 | <LOD | 147.15 |
| 145-01 | <LOD | 29.55 | 140.3 | 41 | <LOD | 41.7 | <LOD | 66.15 | <LOD | 46.05 | <LOD | 121.2 |
| 145-02 | <LOD | 28.2 | 285.6 | 52.5 | <LOD | 48 | <LOD | 59.85 | <LOD | 42.15 | <LOD | 113.4 |
| 145-03 | <LOD | 37.95 | 192.4 | 52.4 | <LOD | 52.95 | <LOD | 72 | <LOD | 49.95 | <LOD | 133.05 |
| 145-04 | <LOD | 25.5 | 230.6 | 41.3 | <LOD | 40.8 | <LOD | 51.9 | <LOD | 34.2 | <LOD | 98.1 |
| 146-01 | <LOD | 38.25 | 244 | 55.2 | <LOD | 51.6 | <LOD | 67.2 | <LOD | 48.3 | <LOD | 129.15 |
| 146-02 | <LOD | 35.1 | 269 | 51.8 | <LOD | 46.95 | <LOD | 59.4 | <LOD | 41.1 | <LOD | 113.25 |
| 146-03 | <LOD | 32.4 | 374.4 | 57 | <LOD | 48.3 | <LOD | 53.4 | <LOD | 40.35 | <LOD | 110.25 |
| 146-04 | <LOD | 32.55 | 248.6 | 45.6 | <LOD | 45.45 | <LOD | 53.85 | <LOD | 40.65 | <LOD | 102.45 |
| 147-01 | <LOD | 28.05 | 258.6 | 44.3 | <LOD | 43.95 | <LOD | 52.95 | <LOD | 37.95 | <LOD | 98.4 |
| 147-02 | <LOD | 29.1 | 269.6 | 43.3 | <LOD | 40.65 | <LOD | 52.95 | <LOD | 32.55 | <LOD | 93.6 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 147-03 | <LOD | 26.1 | 226 | 50.6 | <LOD | 42.45 | <LOD | 61.35 | <LOD | 40.5 | <LOD | 119.7 |
| 147-04 | <LOD | 26.1 | 226 | 50.6 | <LOD | 42.45 | <LOD | 61.35 | <LOD | 40.5 | <LOD | 119.7 |
| 148-01 | <LOD | 32.4 | 134.1 | 44.8 | <LOD | 45.75 | <LOD | 66.6 | <LOD | 42 | <LOD | 150 |
| 148-02 | <LOD | 28.8 | 201.6 | 44.8 | <LOD | 48.6 | <LOD | 64.35 | <LOD | 38.7 | <LOD | 113.85 |
| 148-03 | <LOD | 23.1 | 246.4 | 38.1 | <LOD | 36 | <LOD | 47.1 | <LOD | 32.7 | <LOD | 86.55 |
| 148-04 | <LOD | 26.25 | 179.1 | 34.7 | <LOD | 37.5 | <LOD | 48.6 | <LOD | 32.55 | <LOD | 90.75 |
| 149-01 | <LOD | 31.2 | 253.8 | 57.9 | <LOD | 49.2 | <LOD | 65.25 | <LOD | 40.65 | <LOD | 135 |
| 149-02 | <LOD | 32.85 | 400.4 | 61.5 | <LOD | 46.65 | <LOD | 57.6 | <LOD | 39.15 | <LOD | 111 |
| 149-03 | <LOD | 32.85 | 230.6 | 55 | <LOD | 54.15 | <LOD | 67.8 | <LOD | 47.85 | <LOD | 129 |
| 149-04 | <LOD | 48.15 | 214.2 | 75.7 | <LOD | 84.9 | <LOD | 98.7 | <LOD | 58.95 | <LOD | 195 |
| 150-01 | <LOD | 22.95 | 372 | 53.3 | <LOD | 45.45 | <LOD | 57.75 | <LOD | 37.5 | <LOD | 100.05 |
| 150-02 | <LOD | 24.3 | 185.9 | 38.3 | <LOD | 36.15 | <LOD | 54 | <LOD | 32.25 | <LOD | 105.6 |
| 150-03 | <LOD | 42.45 | 191.3 | 57 | <LOD | 55.95 | <LOD | 68.4 | <LOD | 53.4 | <LOD | 165 |
| 150-04 | <LOD | 27 | 183.7 | 41.1 | <LOD | 45 | <LOD | 51.3 | <LOD | 33.75 | <LOD | 105.75 |
| 151-01 | <LOD | 35.1 | 146.3 | 56.1 | <LOD | 68.55 | <LOD | 83.85 | <LOD | 57.45 | <LOD | 165 |
| 151-02 | <LOD | 34.95 | 315 | 61.7 | <LOD | 48.15 | <LOD | 63.6 | <LOD | 43.5 | <LOD | 121.8 |
| 151-03 | <LOD | 23.85 | 257.2 | 41.3 | <LOD | 37.8 | <LOD | 47.7 | <LOD | 31.65 | <LOD | 91.65 |
| 151-04 | <LOD | 29.25 | 232.6 | 44.4 | <LOD | 42.75 | <LOD | 57.9 | <LOD | 36.6 | <LOD | 100.35 |
| 152-01 | <LOD | 32.4 | 210.6 | 45.1 | <LOD | 47.85 | <LOD | 58.05 | <LOD | 42 | <LOD | 107.4 |
| 152-02 | <LOD | 25.65 | 187.1 | 41.7 | <LOD | 44.1 | <LOD | 54.45 | <LOD | 35.85 | <LOD | 105.15 |
| 152-03 | <LOD | 23.7 | 178.9 | 38.9 | <LOD | 39.45 | <LOD | 57.45 | <LOD | 35.7 | <LOD | 100.05 |
| 152-04 | <LOD | 32.25 | 251.6 | 57.5 | <LOD | 53.4 | <LOD | 70.05 | <LOD | 43.35 | <LOD | 133.95 |
| 154-01 | <LOD | 32.4 | 307.2 | 54.7 | <LOD | 45.75 | <LOD | 58.35 | <LOD | 36.45 | <LOD | 112.05 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 154-02 | <LOD | 32.4 | 317.4 | 60 | <LOD | 54.3 | <LOD | 72.9 | <LOD | 42.45 | <LOD | 130.8 |
| 154-03 | <LOD | 24.75 | 281.6 | 52.5 | <LOD | 46.05 | <LOD | 58.05 | <LOD | 37.5 | <LOD | 114.9 |
| 154-04 | <LOD | 28.35 | 260 | 48.4 | <LOD | 45.9 | <LOD | 59.25 | <LOD | 40.35 | <LOD | 105.45 |
| 188-01 | <LOD | 33.9 | 180.1 | 49.3 | <LOD | 49.65 | <LOD | 68.85 | <LOD | 43.2 | <LOD | 127.2 |
| 188-02 | <LOD | 35.4 | 178.4 | 51.1 | <LOD | 45.9 | <LOD | 71.55 | <LOD | 43.65 | <LOD | 134.1 |
| 188-03 | <LOD | 34.35 | 273 | 54.4 | <LOD | 49.65 | <LOD | 57.9 | <LOD | 44.4 | <LOD | 124.65 |
| 188-04 | <LOD | 44.55 | 231 | 62.5 | 78.4 | 50.5 | <LOD | 74.1 | <LOD | 44.25 | <LOD | 180 |
| 189-01 | <LOD | 33.75 | 206.2 | 52 | <LOD | 54.6 | <LOD | 70.05 | <LOD | 49.65 | <LOD | 131.7 |
| 189-02 | <LOD | 35.7 | 201.2 | 45.8 | <LOD | 48.3 | <LOD | 59.25 | <LOD | 39.6 | <LOD | 114.45 |
| 189-03 | <LOD | 29.25 | 262 | 44.4 | <LOD | 41.1 | <LOD | 54.9 | <LOD | 35.4 | <LOD | 100.65 |
| 189-04 | <LOD | 31.65 | 240 | 46.4 | <LOD | 49.8 | <LOD | 60.75 | <LOD | 42.9 | <LOD | 109.5 |
| 190-01 | <LOD | 41.4 | 197.8 | 52.9 | <LOD | 49.35 | <LOD | 71.85 | <LOD | 46.95 | <LOD | 147.75 |
| 190-02 | <LOD | 31.35 | 201.1 | 46.3 | <LOD | 44.85 | <LOD | 62.25 | <LOD | 40.5 | <LOD | 114.3 |
| 190-03 | <LOD | 33.15 | 225.6 | 46.7 | <LOD | 49.5 | <LOD | 60.45 | <LOD | 36.15 | <LOD | 111.75 |
| 190-04 | <LOD | 27.75 | 172.9 | 48.4 | <LOD | 48.45 | <LOD | 64.2 | <LOD | 40.95 | <LOD | 126.15 |
| 191-01 | <LOD | 19.5 | 217 | 38 | <LOD | 37.05 | <LOD | 46.8 | <LOD | 30.15 | <LOD | 94.95 |
| 191-02 | <LOD | 31.2 | 225.8 | 42.2 | <LOD | 44.25 | <LOD | 51.75 | <LOD | 38.85 | <LOD | 103.8 |
| 191-03 | <LOD | 30.15 | 146.5 | 39.2 | <LOD | 44.55 | <LOD | 62.7 | <LOD | 40.2 | <LOD | 111.9 |
| 191-04 | <LOD | 31.35 | 185.2 | 41.3 | <LOD | 44.25 | <LOD | 56.7 | <LOD | 39.3 | <LOD | 111.15 |
| 192-01 | <LOD | 35.85 | 180.6 | 48.2 | <LOD | 51.15 | <LOD | 66.3 | <LOD | 45.75 | <LOD | 129.6 |
| 192-02 | <LOD | 31.5 | 206 | 47.8 | <LOD | 45.3 | <LOD | 58.8 | <LOD | 36.6 | <LOD | 121.35 |
| 192-03 | <LOD | 35.4 | 193.3 | 46.4 | <LOD | 46.2 | <LOD | 61.65 | <LOD | 44.1 | <LOD | 125.25 |
| 192-04 | <LOD | 33.75 | 242.6 | 48.5 | <LOD | 44.85 | <LOD | 59.1 | <LOD | 42.15 | <LOD | 115.5 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193-01 | <LOD | 29.85 | 240 | 43.4 | <LOD | 42.45 | <LOD | 54.45 | <LOD | 38.85 | <LOD | 101.7 |
| 193-02 | <LOD | 28.8 | 196.5 | 40.3 | <LOD | 42.75 | <LOD | 51.9 | <LOD | 36.9 | <LOD | 97.65 |
| 193-03 | <LOD | 37.5 | 235.6 | 56.5 | <LOD | 50.55 | <LOD | 74.55 | <LOD | 49.65 | <LOD | 165 |
| 193-04 | <LOD | 43.5 | 231.6 | 55.3 | <LOD | 55.65 | <LOD | 68.25 | <LOD | 45.75 | <LOD | 150 |
| 194-01 | <LOD | 29.55 | 296 | 48 | <LOD | 42.3 | <LOD | 52.2 | <LOD | 35.4 | <LOD | 101.7 |
| 194-02 | <LOD | 36.9 | 276 | 53.9 | <LOD | 48 | <LOD | 57.9 | <LOD | 40.35 | <LOD | 119.25 |
| 194-03 | <LOD | 30.75 | 259.6 | 45.6 | <LOD | 41.7 | <LOD | 51.15 | <LOD | 35.25 | <LOD | 106.65 |
| 194-04 | <LOD | 37.95 | 254.4 | 56.4 | <LOD | 55.35 | <LOD | 60.3 | <LOD | 45.15 | <LOD | 126.9 |
| 195-01 | <LOD | 40.35 | 250.2 | 57.5 | <LOD | 48.3 | <LOD | 72.3 | <LOD | 45.6 | <LOD | 142.5 |
| 195-02 | <LOD | 33.75 | 244.2 | 51.5 | <LOD | 52.8 | <LOD | 58.65 | <LOD | 35.7 | <LOD | 120.75 |
| 195-03 | <LOD | 37.5 | 227 | 55 | <LOD | 43.35 | <LOD | 61.8 | <LOD | 44.7 | <LOD | 130.05 |
| 195-04 | <LOD | 43.65 | 158.6 | 57 | <LOD | 65.1 | <LOD | 83.55 | <LOD | 53.25 | <LOD | 165 |
| 196-01 | <LOD | 32.55 | 222.4 | 48.5 | <LOD | 51.15 | <LOD | 62.1 | <LOD | 40.95 | <LOD | 116.4 |
| 196-02 | <LOD | 37.95 | 285.2 | 56.7 | <LOD | 52.5 | <LOD | 67.65 | <LOD | 37.5 | <LOD | 123 |
| 196-03 | <LOD | 36.15 | 288.6 | 56.8 | <LOD | 44.7 | <LOD | 61.65 | <LOD | 40.95 | <LOD | 122.55 |
| 196-04 | <LOD | 27.3 | 217 | 41.2 | <LOD | 39.9 | <LOD | 49.95 | <LOD | 31.95 | <LOD | 97.8 |
| 197-01 | <LOD | 46.65 | 233 | 61.5 | <LOD | 58.2 | <LOD | 67.5 | <LOD | 50.55 | <LOD | 147.3 |
| 197-02 | <LOD | 33.9 | 215 | 52.7 | <LOD | 53.4 | <LOD | 66 | <LOD | 44.85 | <LOD | 129.9 |
| 197-03 | <LOD | 34.95 | 240 | 50.5 | <LOD | 47.25 | <LOD | 63.45 | <LOD | 42.75 | <LOD | 131.1 |
| 197-04 | <LOD | 30.9 | 252.6 | 51.3 | <LOD | 46.65 | <LOD | 61.95 | <LOD | 40.05 | <LOD | 117 |
| 198-01 | <LOD | 43.65 | 241.8 | 65.4 | <LOD | 64.2 | <LOD | 79.65 | <LOD | 58.8 | <LOD | 165 |
| 198-02 | <LOD | 39.15 | 208.4 | 50.3 | <LOD | 47.55 | <LOD | 66.3 | <LOD | 40.95 | <LOD | 121.95 |
| 198-03 | <LOD | 60.75 | 226.2 | 79.4 | <LOD | 77.1 | <LOD | 86.7 | <LOD | 64.8 | <LOD | 210 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 198-04 | <LOD | 36.6 | 243 | 53.6 | <LOD | 50.7 | <LOD | 59.4 | <LOD | 40.5 | <LOD | 127.8 |
| 199-01 | <LOD | 34.2 | 222.8 | 49 | <LOD | 47.25 | <LOD | 61.2 | <LOD | 35.4 | <LOD | 115.5 |
| 199-02 | <LOD | 36.3 | 290.8 | 55.8 | <LOD | 47.1 | <LOD | 63.6 | <LOD | 40.05 | <LOD | 118.2 |
| 199-03 | <LOD | 43.8 | 240 | 64.1 | <LOD | 57.45 | <LOD | 67.05 | <LOD | 51 | <LOD | 147.3 |
| 199-04 | <LOD | 34.5 | 259 | 57.4 | <LOD | 49.35 | <LOD | 61.8 | <LOD | 43.5 | <LOD | 142.8 |
| 200-01 | <LOD | 36.6 | 214.8 | 50.3 | <LOD | 50.7 | <LOD | 64.5 | <LOD | 43.2 | <LOD | 120.3 |
| 200-02 | <LOD | 35.25 | 317.2 | 54.4 | <LOD | 48.9 | <LOD | 59.85 | <LOD | 37.65 | <LOD | 110.4 |
| 200-03 | <LOD | 35.55 | 289.4 | 56.7 | <LOD | 53.7 | <LOD | 58.05 | <LOD | 46.5 | <LOD | 125.1 |
| 200-04 | <LOD | 37.05 | 258.8 | 58.6 | <LOD | 57.75 | <LOD | 73.35 | <LOD | 44.85 | <LOD | 133.2 |
| 201-01 | <LOD | 36.45 | 237.2 | 50.4 | <LOD | 48.6 | <LOD | 60.75 | <LOD | 47.4 | <LOD | 126.15 |
| 201-02 | <LOD | 41.1 | 212 | 59.8 | <LOD | 55.8 | <LOD | 75.15 | <LOD | 53.85 | <LOD | 145.5 |
| 201-03 | <LOD | 33.9 | 227.4 | 50 | <LOD | 50.85 | <LOD | 63.15 | <LOD | 40.35 | <LOD | 116.85 |
| 201-04 | <LOD | 37.05 | 211.2 | 51 | <LOD | 51.3 | <LOD | 61.95 | <LOD | 40.65 | <LOD | 127.2 |
| 202-01 | <LOD | 32.1 | 270.6 | 49.7 | <LOD | 41.1 | <LOD | 57 | <LOD | 44.7 | <LOD | 110.55 |
| 202-02 | <LOD | 35.4 | 298 | 53.3 | <LOD | 48.6 | <LOD | 59.7 | <LOD | 39.9 | <LOD | 116.85 |
| 202-03 | <LOD | 34.65 | 242.8 | 50.7 | <LOD | 46.2 | <LOD | 59.85 | <LOD | 43.95 | <LOD | 120 |
| 202-04 | <LOD | 31.05 | 240.2 | 47.6 | <LOD | 44.55 | <LOD | 62.1 | <LOD | 37.35 | <LOD | 110.85 |
| 203-01 | <LOD | 40.5 | 251.4 | 57.4 | <LOD | 54 | <LOD | 74.85 | <LOD | 48.9 | <LOD | 133.65 |
| 203-01 | <LOD | 39.6 | 266 | 58.7 | <LOD | 57.3 | <LOD | 75.75 | <LOD | 46.8 | <LOD | 134.25 |
| 203-02 | <LOD | 36.6 | 266.8 | 60 | <LOD | 50.25 | <LOD | 60.45 | <LOD | 53.4 | <LOD | 138.45 |
| 203-02 | 40.5 | 22.3 | 285.8 | 46.4 | <LOD | 41.4 | <LOD | 52.35 | <LOD | 36.45 | <LOD | 97.95 |
| 203-03 | <LOD | 29.7 | 290.8 | 54.2 | <LOD | 51.75 | <LOD | 63.15 | <LOD | 42.9 | <LOD | 115.2 |
| 203-03 | <LOD | 37.65 | 265.4 | 53 | <LOD | 49.8 | <LOD | 61.2 | <LOD | 44.7 | <LOD | 117.75 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203-04 | <LOD | 25.95 | 299.8 | 55.8 | <LOD | 48.3 | <LOD | 61.5 | <LOD | 44.55 | <LOD | 118.95 |
| 203-04 | <LOD | 34.05 | 291.6 | 53.8 | <LOD | 55.2 | <LOD | 59.25 | <LOD | 42.75 | <LOD | 116.1 |
| 204-01 | <LOD | 34.05 | 322.2 | 56.5 | <LOD | 47.7 | <LOD | 60 | <LOD | 38.55 | <LOD | 118.2 |
| 204-02 | <LOD | 42.3 | 256.2 | 57 | <LOD | 52.65 | <LOD | 67.95 | <LOD | 41.25 | <LOD | 128.4 |
| 204-03 | <LOD | 42 | 326.4 | 62.9 | <LOD | 52.8 | <LOD | 60.6 | <LOD | 44.4 | <LOD | 130.65 |
| 204-04 | <LOD | 39.3 | 264.2 | 61.4 | <LOD | 58.05 | <LOD | 72.15 | <LOD | 51.75 | <LOD | 139.8 |
| 205-01 | 78.1 | 31.4 | 444 | 66.6 | <LOD | 52.2 | <LOD | 59.4 | <LOD | 41.25 | <LOD | 117.45 |
| 205-02 | 43 | 28.1 | 286 | 59.2 | <LOD | 53.85 | <LOD | 65.7 | <LOD | 45.3 | <LOD | 123.9 |
| 205-03 | 70.5 | 34.4 | 417.6 | 73.8 | <LOD | 52.2 | <LOD | 71.4 | <LOD | 45.15 | <LOD | 137.7 |
| 205-04 | <LOD | 38.7 | 289.6 | 54.5 | <LOD | 48.75 | <LOD | 59.4 | <LOD | 42.3 | <LOD | 118.2 |
| 206-01 | <LOD | 38.55 | 197.4 | 54.1 | <LOD | 56.55 | <LOD | 66.75 | <LOD | 48.3 | <LOD | 142.65 |
| 206-02 | <LOD | 37.2 | 213.8 | 56.1 | <LOD | 56.7 | <LOD | 65.4 | <LOD | 41.1 | <LOD | 141.3 |
| 206-03 | <LOD | 43.35 | 228 | 81.6 | <LOD | 70.5 | <LOD | 87.45 | <LOD | 71.55 | <LOD | 240 |
| 206-04 | <LOD | 32.1 | 262.8 | 56.9 | <LOD | 51.75 | <LOD | 62.25 | <LOD | 47.55 | <LOD | 132.75 |
| 207-01 | <LOD | 38.4 | 213.6 | 53.4 | <LOD | 55.5 | <LOD | 65.4 | <LOD | 42.6 | <LOD | 127.8 |
| 207-02 | <LOD | 38.7 | 260.2 | 61.6 | <LOD | 57 | <LOD | 75 | <LOD | 49.65 | <LOD | 150 |
| 207-03 | <LOD | 43.65 | 237.6 | 64.1 | <LOD | 60.9 | <LOD | 68.4 | <LOD | 51.9 | <LOD | 165 |
| 207-04 | <LOD | 35.85 | 174.8 | 47.2 | <LOD | 51.3 | <LOD | 64.5 | <LOD | 39.6 | <LOD | 126.9 |
| 208-01 | 53.1 | 28.1 | 276.8 | 53.3 | <LOD | 51.45 | <LOD | 60.3 | <LOD | 42.3 | <LOD | 134.7 |
| 208-02 | <LOD | 31.8 | 127.4 | 38.3 | <LOD | 43.2 | <LOD | 61.65 | <LOD | 40.65 | <LOD | 118.95 |
| 208-03 | <LOD | 45.75 | 247.2 | 69.9 | <LOD | 64.2 | <LOD | 71.7 | <LOD | 60.3 | <LOD | 225 |
| 208-04 | <LOD | 34.2 | 243.8 | 50.6 | <LOD | 52.2 | <LOD | 67.65 | <LOD | 39.9 | <LOD | 121.8 |
| 209-01 | <LOD | 30.3 | 258.6 | 57 | <LOD | 61.2 | <LOD | 68.7 | <LOD | 48.15 | <LOD | 128.4 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 209-02 | <LOD | 38.25 | 277.4 | 75.8 | <LOD | 70.65 | <LOD | 86.85 | <LOD | 63.9 | <LOD | 180 |
| 209-03 | <LOD | 37.2 | 289 | 58.2 | <LOD | 52.95 | <LOD | 67.35 | <LOD | 45.45 | <LOD | 131.55 |
| 209-04 | <LOD | 40.95 | 290.4 | 69.8 | <LOD | 61.05 | <LOD | 76.2 | <LOD | 53.7 | <LOD | 149.1 |
| 210-01 | <LOD | 36.15 | 220.4 | 59.3 | <LOD | 56.1 | <LOD | 70.5 | <LOD | 53.55 | <LOD | 141.45 |
| 210-02 | <LOD | 32.7 | 279.8 | 54.5 | <LOD | 46.35 | <LOD | 65.85 | <LOD | 37.35 | <LOD | 127.35 |
| 210-03 | <LOD | 27.75 | 297.2 | 47.7 | <LOD | 42.9 | <LOD | 54.3 | <LOD | 35.85 | <LOD | 102.6 |
| 210-04 | 53.2 | 30.5 | 263 | 57.5 | <LOD | 57.9 | <LOD | 66.45 | <LOD | 47.25 | <LOD | 137.4 |
| 211-01 | <LOD | 33.45 | 298.8 | 55.6 | <LOD | 48.6 | <LOD | 63.6 | <LOD | 47.55 | <LOD | 127.35 |
| 211-02 | <LOD | 36.3 | 292.8 | 56.6 | <LOD | 51.75 | <LOD | 64.5 | <LOD | 40.5 | <LOD | 121.35 |
| 211-03 | <LOD | 39.6 | 319.8 | 63.7 | <LOD | 52.95 | <LOD | 68.25 | <LOD | 40.65 | <LOD | 135.3 |
| 211-04 | <LOD | 30.9 | 272.2 | 53.6 | <LOD | 48.15 | <LOD | 63.75 | <LOD | 38.85 | <LOD | 128.4 |
| 212-01 | <LOD | 34.05 | 257.6 | 52.6 | <LOD | 48.75 | <LOD | 61.35 | <LOD | 37.95 | <LOD | 119.85 |
| 212-02 | 42.2 | 27.1 | 279.6 | 55.5 | <LOD | 52.05 | <LOD | 67.05 | <LOD | 44.55 | <LOD | 127.5 |
| 212-03 | <LOD | 39.45 | 308.8 | 63.5 | <LOD | 50.4 | <LOD | 73.95 | <LOD | 40.65 | <LOD | 145.95 |
| 212-04 | <LOD | 32.55 | 242.2 | 52.1 | <LOD | 52.5 | <LOD | 60.9 | <LOD | 42.15 | <LOD | 124.05 |
| 213-01 | <LOD | 26.1 | 357 | 58.5 | <LOD | 48.9 | <LOD | 60.6 | <LOD | 40.8 | <LOD | 116.55 |
| 213-02 | <LOD | 32.7 | 218.4 | 51.4 | <LOD | 51.6 | <LOD | 64.05 | <LOD | 48.45 | <LOD | 131.7 |
| 213-03 | 35.3 | 22.3 | 291 | 48.3 | <LOD | 44.1 | <LOD | 56.25 | <LOD | 38.1 | <LOD | 105.9 |
| 213-04 | <LOD | 36.9 | 285.6 | 57.6 | <LOD | 49.95 | <LOD | 61.65 | <LOD | 41.55 | <LOD | 122.85 |
| 214-01 | <LOD | 35.7 | 248.2 | 51.4 | <LOD | 45.6 | <LOD | 54.9 | <LOD | 43.65 | <LOD | 118.8 |
| 214-02 | <LOD | 28.5 | 208.2 | 48.1 | <LOD | 49.8 | <LOD | 58.65 | <LOD | 44.55 | <LOD | 119.1 |
| 214-03 | <LOD | 36.3 | 242.8 | 53 | <LOD | 50.85 | <LOD | 73.35 | <LOD | 39.45 | <LOD | 134.1 |
| 214-04 | <LOD | 55.8 | 172.6 | 70 | <LOD | 62.85 | <LOD | 91.35 | <LOD | 74.4 | <LOD | 195 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 215-01 | <LOD | 34.2 | 273.4 | 62 | <LOD | 63.15 | <LOD | 73.35 | <LOD | 47.4 | <LOD | 150 |
| 215-02 | <LOD | 35.55 | 315.2 | 54.5 | <LOD | 47.1 | <LOD | 59.85 | <LOD | 40.95 | <LOD | 112.05 |
| 215-03 | <LOD | 35.55 | 315.2 | 54.5 | <LOD | 47.1 | <LOD | 59.85 | <LOD | 40.95 | <LOD | 112.05 |
| 215-04 | <LOD | 38.4 | 271.6 | 59.8 | <LOD | 57.15 | <LOD | 73.5 | <LOD | 44.55 | <LOD | 142.8 |
| 216-01 | <LOD | 39.75 | 258.8 | 57.3 | <LOD | 50.85 | <LOD | 66.3 | <LOD | 45.15 | <LOD | 135.15 |
| 216-02 | <LOD | 35.4 | 245.6 | 62.5 | <LOD | 59.1 | <LOD | 78.9 | <LOD | 47.1 | <LOD | 148.2 |
| 216-03 | <LOD | 30 | 252.4 | 52 | <LOD | 51.3 | <LOD | 70.35 | <LOD | 47.4 | <LOD | 124.5 |
| 216-04 | <LOD | 37.2 | 301.8 | 66.7 | <LOD | 53.1 | <LOD | 78.45 | <LOD | 55.5 | <LOD | 150 |
| 217-01 | <LOD | 36.6 | 301 | 61.8 | <LOD | 53.1 | <LOD | 69.45 | <LOD | 45.75 | <LOD | 129.15 |
| 217-02 | <LOD | 41.1 | 296.2 | 60.7 | <LOD | 52.5 | <LOD | 62.85 | <LOD | 49.5 | <LOD | 126.45 |
| 217-03 | <LOD | 37.65 | 244.4 | 62.8 | <LOD | 55.2 | <LOD | 70.35 | <LOD | 48.75 | <LOD | 150 |
| 217-04 | <LOD | 35.7 | 333.8 | 59.4 | <LOD | 52.65 | <LOD | 63.3 | <LOD | 39.45 | <LOD | 115.65 |
| 254-01 | <LOD | 33.6 | 213.4 | 46.7 | <LOD | 49.35 | <LOD | 57.3 | <LOD | 38.25 | <LOD | 109.95 |
| 254-02 | <LOD | 71.7 | 246.4 | 110 | <LOD | 90.15 | <LOD | 116.55 | <LOD | 101.55 | <LOD | 360 |
| 254-03 | <LOD | 29.55 | 229.8 | 47.9 | <LOD | 48.15 | <LOD | 61.65 | <LOD | 37.2 | <LOD | 114.15 |
| 254-04 | <LOD | 47.85 | 186.4 | 67 | <LOD | 70.65 | <LOD | 85.05 | <LOD | 63.6 | <LOD | 165 |
| 255-01 | <LOD | 45 | 189.5 | 54.4 | <LOD | 47.85 | <LOD | 70.35 | <LOD | 43.05 | <LOD | 144.6 |
| 255-02 | <LOD | 35.1 | 247.4 | 53.7 | <LOD | 47.1 | <LOD | 64.65 | <LOD | 45.15 | <LOD | 123.45 |
| 255-03 | <LOD | 48.9 | 202.5 | 72 | <LOD | 73.65 | <LOD | 95.55 | <LOD | 67.05 | <LOD | 225 |
| 255-04 | <LOD | 34.35 | 174.9 | 52.5 | <LOD | 50.7 | <LOD | 71.25 | <LOD | 47.85 | <LOD | 135 |
| 256-01 | <LOD | 32.7 | 282.4 | 54.7 | <LOD | 45.45 | <LOD | 60.15 | <LOD | 39.75 | <LOD | 122.85 |
| 256-02 | <LOD | 46.35 | 159.7 | 62.3 | <LOD | 62.85 | <LOD | 82.2 | <LOD | 58.65 | <LOD | 180 |
| 256-03 | <LOD | 38.85 | 245.2 | 71.9 | <LOD | 65.1 | <LOD | 76.05 | <LOD | 62.7 | <LOD | 180 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **256-04** | <LOD | 31.35 | 249.8 | 52.1 | <LOD | 49.65 | <LOD | 58.95 | <LOD | 41.1 | <LOD | 118.05 |
| **257-01** | <LOD | 31.2 | 245.4 | 48.6 | <LOD | 40.5 | <LOD | 61.2 | <LOD | 44.85 | <LOD | 113.1 |
| **257-02** | <LOD | 31.35 | 228 | 50.6 | <LOD | 50.4 | <LOD | 59.85 | <LOD | 45.3 | <LOD | 122.55 |
| **257-03** | <LOD | 31.95 | 250 | 50 | <LOD | 48.15 | <LOD | 60.75 | <LOD | 44.4 | <LOD | 115.5 |
| **257-04** | <LOD | 38.55 | 232.6 | 63.6 | <LOD | 57.75 | <LOD | 80.85 | <LOD | 52.8 | <LOD | 150 |
| **258-01** | <LOD | 41.4 | 208.6 | 53 | <LOD | 50.7 | <LOD | 69.75 | <LOD | 43.5 | <LOD | 132.45 |
| **258-02** | <LOD | 31.65 | 261.6 | 50.5 | <LOD | 47.25 | <LOD | 62.7 | <LOD | 36 | <LOD | 117.9 |
| **258-03** | <LOD | 35.55 | 288.4 | 54.4 | <LOD | 48.9 | <LOD | 61.65 | <LOD | 37.5 | <LOD | 114.9 |
| **258-04** | <LOD | 37.65 | 266.6 | 54 | <LOD | 49.95 | <LOD | 60.75 | <LOD | 38.85 | <LOD | 116.4 |
| **259-01** | <LOD | 38.85 | 200.8 | 58.7 | <LOD | 54 | <LOD | 80.1 | <LOD | 48.3 | <LOD | 137.4 |
| **259-02** | <LOD | 38.7 | 243.2 | 59.3 | <LOD | 55.05 | <LOD | 68.55 | <LOD | 49.2 | <LOD | 143.4 |
| **259-03** | <LOD | 33.6 | 264.4 | 50.5 | <LOD | 45.15 | <LOD | 54.45 | <LOD | 39 | <LOD | 109.35 |
| **259-04** | <LOD | 35.7 | 242.6 | 47.8 | <LOD | 45.75 | <LOD | 50.25 | <LOD | 39 | <LOD | 107.85 |
| **260-01** | <LOD | 40.35 | 230.2 | 54.5 | <LOD | 51.15 | <LOD | 64.35 | <LOD | 46.05 | <LOD | 132.3 |
| **260-02** | <LOD | 72.9 | 159.5 | 87 | <LOD | 80.85 | <LOD | 109.65 | <LOD | 92.7 | <LOD | 255 |
| **260-03** | <LOD | 28.5 | 220.8 | 44.6 | <LOD | 43.65 | <LOD | 52.8 | <LOD | 36.45 | <LOD | 103.65 |
| **260-04** | <LOD | 30.45 | 211.6 | 56.6 | <LOD | 48.15 | <LOD | 69 | <LOD | 50.85 | <LOD | 138.45 |
| **261-01** | <LOD | 27.3 | 284 | 45 | <LOD | 38.25 | <LOD | 54.15 | <LOD | 32.1 | <LOD | 98.55 |
| **261-02** | 33.5 | 22 | 325.6 | 50.5 | <LOD | 44.7 | <LOD | 54.6 | <LOD | 35.7 | <LOD | 102.45 |
| **261-03** | <LOD | 25.8 | 241.8 | 40.7 | <LOD | 41.4 | <LOD | 50.85 | <LOD | 33.9 | <LOD | 94.5 |
| **261-04** | <LOD | 30.3 | 225 | 45.2 | <LOD | 40.35 | <LOD | 54.6 | <LOD | 39.45 | <LOD | 110.85 |
| **262-01** | <LOD | 31.95 | 235.6 | 46.4 | <LOD | 45.15 | <LOD | 59.7 | <LOD | 41.4 | <LOD | 109.5 |
| **262-02** | <LOD | 33.15 | 223.6 | 51 | <LOD | 46.05 | <LOD | 57.9 | <LOD | 43.5 | <LOD | 122.1 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 262-03 | <LOD | 33.15 | 239 | 54.3 | <LOD | 49.8 | <LOD | 69.6 | <LOD | 44.4 | <LOD | 124.95 |
| 262-04 | <LOD | 35.7 | 223.8 | 52.7 | <LOD | 55.35 | <LOD | 66.75 | <LOD | 49.5 | <LOD | 121.65 |
| 263-01 | <LOD | 36.6 | 256.4 | 50.4 | <LOD | 51.75 | <LOD | 59.4 | <LOD | 41.25 | <LOD | 116.85 |
| 263-02 | <LOD | 45.45 | 238.8 | 63.6 | <LOD | 60.6 | <LOD | 80.4 | <LOD | 49.65 | <LOD | 165 |
| 263-03 | <LOD | 42 | 196.5 | 52.3 | <LOD | 50.7 | <LOD | 65.85 | <LOD | 38.85 | <LOD | 136.8 |
| 263-04 | <LOD | 44.7 | 246.6 | 65.1 | <LOD | 63 | <LOD | 81 | <LOD | 53.4 | <LOD | 150 |
| 264-01 | <LOD | 31.05 | 210.2 | 43.2 | <LOD | 42.6 | <LOD | 56.25 | <LOD | 40.5 | <LOD | 105.45 |
| 264-02 | <LOD | 42.15 | 217.2 | 61.9 | <LOD | 59.25 | <LOD | 83.25 | <LOD | 47.1 | <LOD | 147.15 |
| 264-03 | <LOD | 46.5 | 224.2 | 69.9 | <LOD | 53.7 | <LOD | 91.35 | <LOD | 58.8 | <LOD | 210 |
| 264-04 | <LOD | 28.65 | 185.5 | 53.3 | <LOD | 53.4 | <LOD | 75.6 | <LOD | 47.7 | <LOD | 141.15 |
| 265-01 | <LOD | 33.15 | 335.6 | 55.2 | <LOD | 42.15 | <LOD | 55.5 | <LOD | 37.5 | <LOD | 111.45 |
| 265-02 | <LOD | 38.55 | 217.6 | 54.8 | <LOD | 55.05 | <LOD | 73.8 | <LOD | 47.55 | <LOD | 137.85 |
| 265-03 | <LOD | 44.85 | 227.4 | 58.7 | <LOD | 56.55 | <LOD | 68.85 | <LOD | 44.1 | <LOD | 138.3 |
| 266-01 | <LOD | 51.3 | 280.8 | 83.1 | <LOD | 65.85 | <LOD | 96.75 | <LOD | 65.55 | <LOD | 180 |
| 266-02 | <LOD | 35.1 | 208.2 | 59.6 | <LOD | 58.05 | <LOD | 73.35 | <LOD | 53.4 | <LOD | 149.1 |
| 266-03 | <LOD | 30.6 | 275 | 45.4 | <LOD | 42.75 | <LOD | 55.95 | <LOD | 36.3 | <LOD | 100.95 |
| 266-04 | <LOD | 63 | 200.4 | 91.3 | <LOD | 76.5 | <LOD | 117 | <LOD | 97.05 | <LOD | 225 |
| 268-01 | <LOD | 36 | 218.6 | 51.9 | <LOD | 47.25 | <LOD | 70.65 | <LOD | 44.25 | <LOD | 125.7 |
| 268-02 | <LOD | 45.6 | 211.2 | 59.5 | <LOD | 59.25 | <LOD | 81.75 | <LOD | 55.5 | <LOD | 150 |
| 268-03 | <LOD | 72.6 | 216.8 | 84.5 | <LOD | 80.55 | <LOD | 105.15 | <LOD | 75 | <LOD | 195 |
| 268-04 | <LOD | 38.1 | 218.2 | 53.7 | <LOD | 55.8 | <LOD | 63.75 | <LOD | 46.8 | <LOD | 136.05 |
| 370-01 | <LOD | 34.35 | 208.4 | 55 | <LOD | 46.2 | <LOD | 64.2 | <LOD | 41.85 | <LOD | 150 |
| 370-02 | <LOD | 41.55 | 141.8 | 55.2 | <LOD | 43.95 | <LOD | 69.75 | <LOD | 49.95 | <LOD | 165 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | La | +/- 3SD | Ba | +/- 3SD | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **370-03** | <LOD | 36.3 | 158.6 | 53.4 | <LOD | 56.4 | <LOD | 72.9 | <LOD | 50.85 | <LOD | 148.65 |
| **370-04** | <LOD | 32.55 | 223 | 51.6 | <LOD | 47.55 | <LOD | 57.9 | <LOD | 39.75 | <LOD | 123.3 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| 001-01 | <LOD | 38.25 | <LOD | 300 | <LOD | 32.55 | 12.2 | 5.2 | 78.3 | 8.2 | 89.2 | 8.6 |
| 001-02 | <LOD | 46.5 | <LOD | 420 | <LOD | 43.95 | 29.7 | 7.7 | 111.3 | 11.5 | 71.3 | 11 |
| 001-03 | <LOD | 43.35 | <LOD | 345 | <LOD | 33.45 | 14.3 | 5.3 | 43.3 | 8.1 | 62.3 | 8.9 |
| 001-04 | <LOD | 35.4 | <LOD | 285 | <LOD | 30.45 | 10.3 | 4.6 | 101.1 | 7.3 | 39.4 | 6.5 |
| 002-01 | <LOD | 40.2 | <LOD | 345 | <LOD | 37.65 | 19 | 5.6 | 122.3 | 8.9 | 31.8 | 7.1 |
| 002-02 | <LOD | 43.05 | <LOD | 345 | <LOD | 37.8 | 23.4 | 6 | 132.9 | 9.2 | 33.4 | 7.5 |
| 002-03 | <LOD | 55.2 | <LOD | 495 | <LOD | 49.05 | 30.7 | 8.7 | 114.5 | 12.8 | 24.9 | 10.6 |
| 002-04 | <LOD | 28.2 | <LOD | 270 | <LOD | 32.85 | 10.5 | 4.4 | 123.2 | 7.1 | 31.5 | 5.7 |
| 003-01 | <LOD | 39.3 | <LOD | 285 | <LOD | 38.25 | <LOD | 6.9 | 67 | 7.4 | 140.8 | 9.1 |
| 003-02 | <LOD | 34.05 | <LOD | 300 | <LOD | 32.85 | 11.8 | 4.4 | 137.5 | 7.2 | 13.6 | 5.1 |
| 003-03 | <LOD | 48.45 | <LOD | 390 | <LOD | 30.75 | 16 | 5.7 | 40.6 | 8.4 | 140 | 10.9 |
| 003-04 | <LOD | 41.55 | <LOD | 390 | <LOD | 43.65 | 17.7 | 6.5 | 52.1 | 9.4 | 110.1 | 11.2 |
| 004-01 | <LOD | 39.75 | <LOD | 300 | <LOD | 43.95 | 15.8 | 5 | 89.5 | 7.6 | 26.7 | 6.7 |
| 004-02 | <LOD | 37.35 | <LOD | 285 | <LOD | 30.75 | 16.1 | 4.8 | 90 | 7.6 | 119.4 | 8.4 |
| 004-03 | <LOD | 39.45 | <LOD | 300 | <LOD | 31.35 | 11.9 | 4.5 | 58.1 | 7.6 | 110.5 | 8.4 |
| 004-04 | <LOD | 39.9 | <LOD | 360 | <LOD | 30.3 | 19.5 | 6.2 | 42.3 | 8.1 | 13.2 | 7.7 |
| 005-01 | <LOD | 40.95 | <LOD | 375 | <LOD | 64.5 | 20.2 | 6.3 | 133.4 | 10.1 | 46.5 | 8.6 |
| 005-02 | <LOD | 46.65 | 504 | 270 | <LOD | 42.45 | 11.8 | 5 | 141.9 | 9.2 | 160 | 9.8 |
| 005-03 | <LOD | 43.05 | <LOD | 330 | <LOD | 42.6 | 9.9 | 3.9 | 71.7 | 6.2 | 118.5 | 7.2 |
| 005-04 | <LOD | 51 | <LOD | 375 | <LOD | 37.05 | 16.5 | 5.2 | 76.2 | 7.7 | 69.6 | 8.1 |
| 006-01 | <LOD | 50.4 | 2769.6 | 320 | <LOD | 49.65 | 14.8 | 5.6 | 131.7 | 9.1 | 42.7 | 7.7 |
| 006-02 | <LOD | 41.25 | <LOD | 345 | <LOD | 37.95 | 14.2 | 5.1 | 159.8 | 8.7 | 32.7 | 6.6 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 006-03 | <LOD | 41.7 | <LOD | 390 | <LOD | 43.5 | 18.7 | 6 | 124.3 | 9.3 | 19.2 | 7.2 |
| 006-04 | <LOD | 33.6 | <LOD | 315 | <LOD | 35.25 | 16.1 | 5.1 | 125.9 | 8.1 | 29.8 | 6.5 |
| 007-01 | <LOD | 30 | <LOD | 270 | <LOD | 30.15 | 11.3 | 4.5 | 175.5 | 7.9 | 23.9 | 5.4 |
| 007-02 | <LOD | 29.1 | <LOD | 270 | <LOD | 31.8 | 17.6 | 4.6 | 141.3 | 7.5 | 34.8 | 5.9 |
| 007-03 | <LOD | 36 | <LOD | 330 | <LOD | 35.55 | 21.3 | 5.4 | 119.5 | 8.3 | 31.7 | 6.7 |
| 007-04 | <LOD | 40.05 | <LOD | 330 | <LOD | 37.35 | 12.1 | 4.7 | 127.3 | 7.6 | 31.4 | 6 |
| 008-01 | <LOD | 32.4 | <LOD | 300 | <LOD | 30.45 | 20.7 | 5.4 | 131 | 8.5 | 39 | 6.9 |
| 008-02 | <LOD | 70.65 | 5168 | 520 | <LOD | 35.7 | 31.4 | 6.7 | 155.9 | 10.7 | 41.6 | 8.4 |
| 008-03 | <LOD | 36 | <LOD | 300 | <LOD | 77.1 | 17 | 5.3 | 143.3 | 8.7 | 29.9 | 6.7 |
| 008-04 | <LOD | 29.7 | <LOD | 270 | <LOD | 32.55 | 20.6 | 5 | 152.4 | 8.3 | 40.7 | 6.5 |
| 023-01 | <LOD | 42.15 | <LOD | 360 | <LOD | 35.25 | 13.5 | 6.5 | 112.5 | 11.3 | 19.2 | 10.5 |
| 023-02 | <LOD | 34.8 | <LOD | 315 | <LOD | 32.7 | 20 | 6 | 234.4 | 10.8 | 26.1 | 7 |
| 023-03 | <LOD | 32.1 | <LOD | 285 | <LOD | 61.05 | 13.6 | 5 | 118.1 | 8.6 | 25.2 | 7.5 |
| 023-04 | <LOD | 43.05 | <LOD | 345 | <LOD | 36.9 | 11.1 | 4.8 | 119 | 8 | 20.4 | 6.6 |
| 024-01 | <LOD | 49.35 | 1040 | 300 | <LOD | 47.4 | 17.7 | 4.9 | 131.6 | 7.7 | 25.2 | 6 |
| 024-02 | <LOD | 43.35 | <LOD | 390 | <LOD | 39.9 | 15.4 | 5.4 | 160.7 | 9.1 | 25.1 | 6.6 |
| 024-03 | <LOD | 44.55 | <LOD | 360 | <LOD | 32.4 | 5.1 | 3 | 16 | 3.8 | 11.6 | 4.2 |
| 024-04 | <LOD | 66.9 | <LOD | 600 | <LOD | 43.8 | 28.2 | 6.7 | 23.2 | 8.9 | 62 | 10.1 |
| 034-01 | <LOD | 44.4 | 2139.2 | 280 | <LOD | 44.85 | 21.4 | 5.4 | 166.3 | 8.9 | 24 | 6.5 |
| 034-02 | <LOD | 45.3 | 447.2 | 240 | <LOD | 34.95 | 18.3 | 5.4 | 100.2 | 8.1 | <LOD | 9.3 |
| 034-03 | <LOD | 37.2 | 540 | 230 | <LOD | 37.05 | 12.3 | 4.6 | 190 | 8.2 | 26.9 | 5.7 |
| 034-04 | <LOD | 48.75 | 954.4 | 330 | <LOD | 35.7 | 17.1 | 5.7 | 112.4 | 8.9 | 17 | 7 |
| 035-01 | <LOD | 52.35 | 3259.2 | 330 | <LOD | 32.55 | 9.9 | 5.1 | 131.1 | 8.7 | 19.5 | 6.9 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 035-02 | <LOD | 41.25 | 576.4 | 220 | <LOD | 47.1 | 11.5 | 4.3 | 145.4 | 7.3 | 29.8 | 5.6 |
| 035-03 | <LOD | 37.95 | 1089.6 | 210 | <LOD | 49.2 | 13.5 | 4.3 | 124.5 | 6.9 | 42.8 | 5.8 |
| 035-04 | <LOD | 47.85 | 1699.2 | 320 | <LOD | 51.75 | NA | | NA | | NA | |
| 037-01 | <LOD | 41.25 | 697.6 | 230 | <LOD | 63.9 | 11.4 | 4.3 | 86.9 | 6.6 | 19.9 | 5.6 |
| 037-02 | <LOD | 43.8 | 408.2 | 220 | <LOD | 38.7 | 11.4 | 4.2 | 88.5 | 6.7 | 34.7 | 6 |
| 037-03 | <LOD | 38.7 | 407.2 | 210 | <LOD | 165 | 15.3 | 4.2 | 78.5 | 6.1 | 21.5 | 5.4 |
| 037-04 | <LOD | 45.6 | 635.6 | 260 | <LOD | 54.6 | 15.7 | 4.8 | 88.4 | 7.5 | 26.8 | 6.5 |
| 038-01 | <LOD | 35.4 | <LOD | 285 | <LOD | 31.2 | 14 | 4.7 | 191 | 8.5 | 56.6 | 6.5 |
| 038-02 | <LOD | 44.85 | <LOD | 345 | <LOD | 45.45 | 23.6 | 6.2 | 155.8 | 10.3 | 45.2 | 8.1 |
| 038-03 | <LOD | 33.15 | <LOD | 285 | <LOD | 37.5 | 17.4 | 4.9 | 139.4 | 8.3 | 62.1 | 7.1 |
| 038-04 | <LOD | 44.25 | <LOD | 360 | <LOD | 33.9 | 23.9 | 5.9 | 156.8 | 9.6 | 47.9 | 7.7 |
| 068-01 | <LOD | 66.45 | <LOD | 615 | <LOD | 38.7 | 32.8 | 9.9 | <LOD | 23.85 | 34.9 | 18.6 |
| 068-02 | <LOD | 48.3 | 587.2 | 260 | <LOD | 38.7 | 18.6 | 5.7 | 163 | 10 | 88.1 | 9 |
| 068-03 | <LOD | 61.65 | 1589.6 | 380 | <LOD | 53.1 | 18.2 | 7.8 | 99.9 | 12.8 | 116 | 13.7 |
| 068-04 | <LOD | 102.3 | 5049.6 | 570 | <LOD | 43.8 | 22.6 | 8.6 | 42.3 | 15.1 | 53.6 | 16.6 |
| 086-01 | <LOD | 46.5 | <LOD | 375 | <LOD | 30.3 | 32.4 | 6.9 | 144.5 | 10.8 | 27.1 | 8.4 |
| 086-02 | <LOD | 37.2 | 555.2 | 230 | <LOD | 38.25 | 17.1 | 4.9 | 137.3 | 7.8 | 48.5 | 6.6 |
| 086-03 | <LOD | 40.95 | 443.6 | 230 | <LOD | 32.85 | 24 | 5.7 | 170.5 | 9.3 | 48.6 | 7.3 |
| 086-04 | <LOD | 50.1 | 2179.2 | 330 | <LOD | 30.75 | 22.2 | 6.1 | 150.5 | 9.8 | 24.6 | 7.5 |
| 087-01 | <LOD | 64.65 | 784 | 380 | <LOD | 43.65 | 14.5 | 4.2 | <LOD | 7.35 | <LOD | 9 |
| 087-02 | <LOD | 61.05 | <LOD | 495 | <LOD | 44.7 | 25.5 | 8.1 | 28.7 | 14.3 | 33.3 | 16.5 |
| 087-03 | <LOD | 48.15 | <LOD | 375 | <LOD | 36 | 26.8 | 5.9 | 32 | 9.5 | 113 | 11.1 |
| 087-04 | <LOD | 80.85 | <LOD | 630 | <LOD | 36.6 | 31.7 | 7.3 | 16.2 | 10.1 | 42.7 | 11.5 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 088-01 | <LOD | 44.1 | 1249.6 | 300 | <LOD | 29.1 | 21.1 | 5.8 | 116.2 | 9 | 25.7 | 7.3 |
| 088-02 | <LOD | 40.95 | 521.2 | 260 | <LOD | 30.75 | 13.1 | 4.8 | 104 | 7.5 | 36.1 | 6.5 |
| 088-03 | <LOD | 38.7 | 660 | 240 | <LOD | 35.7 | 15.5 | 5.5 | 218 | 10.2 | 44.7 | 7.1 |
| 088-04 | <LOD | 42.75 | <LOD | 345 | <LOD | 32.55 | 19.9 | 5.3 | 114.3 | 8.1 | 24.7 | 6.5 |
| 089-01 | <LOD | 52.5 | <LOD | 480 | <LOD | 31.95 | 31 | 6.6 | 114.6 | 9.6 | 17.2 | 7.5 |
| 089-02 | <LOD | 59.85 | 1908.8 | 320 | <LOD | 43.35 | 11.3 | 5.8 | 113.7 | 9.2 | 23.1 | 7.5 |
| 089-03 | <LOD | 38.1 | <LOD | 375 | <LOD | 32.7 | 25.2 | 5.9 | 144.6 | 9.3 | 25.2 | 7.1 |
| 089-04 | <LOD | 60.15 | 7078.4 | 490 | <LOD | 37.5 | 14.8 | 5 | 100.5 | 7.7 | 29.8 | 6.6 |
| 090-01 | <LOD | 49.35 | 1040 | 340 | <LOD | 36.15 | 32.1 | 7 | 99.4 | 10.4 | 134.5 | 11.6 |
| 090-02 | <LOD | 62.55 | <LOD | 540 | <LOD | 32.7 | 31.7 | 9.1 | 111 | 14.5 | 316.4 | 19.7 |
| 090-03 | <LOD | 44.1 | 525.2 | 260 | <LOD | 32.7 | 12.7 | 4.8 | 121.8 | 8 | 139 | 8.7 |
| 090-04 | <LOD | 53.55 | 794.8 | 300 | <LOD | 41.1 | 21.7 | 6.8 | 106.9 | 11.1 | 308.2 | 15.3 |
| 091-01 | <LOD | 81.45 | 9184 | 710 | <LOD | 41.1 | 15 | 7.2 | 82.1 | 11.9 | 259.8 | 16.2 |
| 091-02 | <LOD | 41.7 | 813.2 | 260 | <LOD | 29.7 | 18.9 | 5.6 | 94.4 | 9.2 | 284.2 | 12.8 |
| 091-03 | <LOD | 52.35 | 1029.6 | 340 | <LOD | 32.85 | 17.8 | 6 | 76.5 | 9.1 | 156.1 | 11.2 |
| 091-04 | <LOD | 52.8 | 750.8 | 360 | <LOD | 34.5 | 27.3 | 7.8 | 74.9 | 11.5 | 192.5 | 14.9 |
| 092-01 | <LOD | 42.3 | 525.6 | 270 | <LOD | 31.35 | 18.8 | 5.6 | 80 | 8.3 | 44.6 | 7.8 |
| 092-02 | <LOD | 80.7 | <LOD | 570 | <LOD | 35.1 | 27.4 | 7.9 | 30.7 | 12.3 | 166.7 | 15.9 |
| 092-03 | <LOD | 56.85 | 1049.6 | 310 | <LOD | 41.7 | 20.1 | 6.3 | 66.7 | 9.6 | 192.5 | 12.7 |
| 092-04 | <LOD | 55.5 | 1540 | 370 | <LOD | 31.65 | 16.9 | 6.5 | 51 | 10.2 | 226.2 | 14.2 |
| 093-01 | <LOD | 45.6 | 759.2 | 270 | <LOD | 29.25 | 22.7 | 5.6 | 136.4 | 9 | 50.5 | 7.5 |
| 093-02 | <LOD | 46.35 | <LOD | 375 | <LOD | 62.55 | 24 | 5.7 | 130.9 | 9 | 36.8 | 7.3 |
| 093-03 | <LOD | 45.45 | <LOD | 390 | <LOD | 45.3 | 30.9 | 6.1 | 114 | 8.9 | 30.7 | 7.4 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 093-04 | <LOD | 49.05 | 533.2 | 270 | <LOD | 37.95 | 31.2 | 6.3 | 106.1 | 9.3 | 35 | 7.9 |
| 094-01 | <LOD | 34.05 | 455.2 | 230 | <LOD | 29.7 | 10.6 | 5.1 | 143.9 | 8.7 | 73.4 | 7.7 |
| 094-02 | <LOD | 48.75 | <LOD | 465 | <LOD | 48.75 | 17.4 | 6.4 | 116.4 | 9.8 | 59.7 | 9 |
| 094-03 | <LOD | 34.8 | <LOD | 405 | <LOD | 37.35 | 29.3 | 6.4 | 207.6 | 10.8 | 39.3 | 7.7 |
| 094-04 | <LOD | 44.25 | <LOD | 375 | <LOD | 36.3 | 15.9 | 5.7 | 143.4 | 9.2 | 39.7 | 7.4 |
| 095-01 | <LOD | 50.85 | 586 | 320 | <LOD | 37.05 | 41.4 | 8.4 | 151.2 | 13.1 | 50.6 | 10.9 |
| 095-02 | <LOD | 51.15 | <LOD | 375 | <LOD | 43.95 | 18.1 | 5.7 | 221.4 | 10.3 | 64.9 | 7.7 |
| 095-03 | <LOD | 70.2 | 6320 | 570 | <LOD | 30.75 | 36.1 | 8.1 | 147.1 | 12.4 | 72.4 | 11.2 |
| 095-04 | <LOD | 42.45 | <LOD | 345 | <LOD | 31.35 | 23 | 5.3 | 198 | 9.3 | 80 | 7.5 |
| 096-01 | <LOD | 41.55 | <LOD | 390 | <LOD | 30.9 | 23.1 | 6.5 | 148 | 10.5 | 36 | 8.3 |
| 096-02 | <LOD | 32.7 | <LOD | 300 | <LOD | 32.55 | 18.6 | 5 | 180.8 | 8.7 | 49 | 6.6 |
| 096-03 | <LOD | 41.7 | <LOD | 330 | <LOD | 43.95 | 21.4 | 5.6 | 142 | 9.1 | 88.2 | 8.4 |
| 096-04 | <LOD | 31.65 | <LOD | 300 | <LOD | 33.45 | 16.1 | 5 | 173.1 | 8.8 | 48.4 | 6.8 |
| 097-01 | <LOD | 40.5 | <LOD | 390 | <LOD | 30.45 | 26.6 | 6.2 | 165.2 | 10.2 | 64.9 | 8.5 |
| 097-02 | <LOD | 50.25 | <LOD | 405 | <LOD | 37.65 | 13 | 4.4 | 87 | 6.8 | 33.1 | 6 |
| 097-03 | <LOD | 57.6 | <LOD | 495 | <LOD | 37.8 | 43.1 | 8.5 | 120.3 | 12.7 | 65.9 | 11.4 |
| 097-04 | <LOD | 35.7 | <LOD | 300 | <LOD | 49.05 | 21.9 | 5.4 | 199.9 | 9.5 | 71.5 | 7.5 |
| 098-01 | <LOD | 35.55 | <LOD | 315 | <LOD | 32.85 | 30.3 | 5.7 | 147.8 | 9.2 | 76.4 | 8.1 |
| 098-02 | <LOD | 53.25 | 1629.6 | 290 | <LOD | 30.15 | 21.8 | 5.9 | 187.7 | 10.3 | 52.6 | 7.9 |
| 098-03 | <LOD | 49.65 | 1100 | 310 | <LOD | 31.8 | 23.8 | 6.3 | 171 | 10.8 | 52 | 8.6 |
| 098-04 | <LOD | 58.95 | 1169.6 | 340 | <LOD | 35.55 | 25.8 | 6.9 | 157 | 11.2 | 47.4 | 9.1 |
| 099-01 | <LOD | 52.05 | <LOD | 390 | <LOD | 37.35 | 15.7 | 5.8 | 159.3 | 9.7 | 57.5 | 8 |
| 099-02 | <LOD | 59.1 | 1849.6 | 330 | <LOD | 31.95 | 25.8 | 6.3 | 226.6 | 11.2 | 66.9 | 8.4 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 099-03 | <LOD | 40.2 | <LOD | 375 | <LOD | 30.9 | 25.1 | 6.4 | 181.7 | 10.6 | 58.3 | 8.5 |
| 099-04 | <LOD | 43.05 | <LOD | 360 | <LOD | 36.3 | 22.7 | 5.8 | 195.5 | 10.1 | 65.2 | 7.9 |
| 100-01 | <LOD | 43.2 | 419.2 | 230 | <LOD | 36.3 | 15.3 | 5.1 | 166.3 | 8.9 | 37.9 | 6.7 |
| 100-02 | <LOD | 38.4 | <LOD | 360 | <LOD | 49.65 | 26.5 | 6 | 143.3 | 9.5 | 34 | 7.4 |
| 100-03 | <LOD | 34.65 | 416 | 210 | <LOD | 37.95 | 12.5 | 4.7 | 127.6 | 7.8 | 30.8 | 6.2 |
| 100-04 | <LOD | 49.95 | 554.8 | 300 | <LOD | 43.5 | 29.8 | 7.3 | 120.1 | 11.1 | 29.3 | 9.2 |
| 101-01 | <LOD | 67.5 | <LOD | 630 | <LOD | 35.25 | 32.7 | 8.2 | 124.3 | 12.4 | 39.8 | 10.4 |
| 101-02 | <LOD | 44.55 | 420.8 | 250 | <LOD | 32.7 | 20.4 | 6 | 145.2 | 9.9 | 73 | 8.7 |
| 101-03 | <LOD | 56.55 | <LOD | 510 | <LOD | 61.05 | 43.8 | 8.5 | 121.9 | 12.3 | 39 | 10.4 |
| 101-04 | <LOD | 44.85 | 539.2 | 260 | <LOD | 36.9 | 19 | 5.5 | 147.3 | 9.1 | 66.3 | 7.8 |
| 102-01 | <LOD | 60.9 | 1349.6 | 430 | <LOD | 26.4 | 80.6 | 14.9 | 105.5 | 19.7 | 40.1 | 17.8 |
| 102-02 | <LOD | 45.3 | 505.6 | 250 | <LOD | 30.45 | 25.5 | 6.1 | 152.4 | 9.8 | 41 | 7.8 |
| 102-03 | <LOD | 46.5 | 869.6 | 290 | <LOD | 35.7 | 20.6 | 5.7 | 115.6 | 9 | 42.2 | 7.8 |
| 102-04 | <LOD | 45.9 | <LOD | 375 | <LOD | 77.1 | 27.4 | 7 | 109.8 | 10.8 | 54.1 | 9.7 |
| 103-01 | <LOD | 52.2 | 538.4 | 280 | <LOD | 32.55 | 23.6 | 6.6 | 161.1 | 11.1 | 50 | 9.4 |
| 103-02 | <LOD | 50.55 | <LOD | 510 | <LOD | 30.15 | 39.5 | 8.4 | 141.7 | 12.7 | 37.7 | 10.3 |
| 103-03 | <LOD | 51.9 | 779.6 | 330 | <LOD | 38.55 | 35 | 8.3 | 161.6 | 13.4 | 42.8 | 11 |
| 103-04 | <LOD | 67.65 | 941.6 | 400 | <LOD | 38.85 | 33.5 | 9 | 125.4 | 13.4 | 30.8 | 11.4 |
| 104-01 | <LOD | 49.8 | 486.4 | 310 | <LOD | 44.55 | 28.2 | 7.4 | 138.6 | 11.4 | 40.3 | 9.5 |
| 104-02 | <LOD | 50.85 | 555.2 | 280 | <LOD | 64.5 | 20.9 | 5.7 | 128.2 | 9.1 | 50.6 | 7.8 |
| 104-03 | <LOD | 50.1 | 600 | 320 | <LOD | 42.45 | 28.7 | 7.3 | 109.9 | 10.9 | 40.2 | 9.7 |
| 104-04 | <LOD | 59.1 | 757.6 | 340 | <LOD | 42.6 | 35.1 | 8.2 | 96.1 | 12 | 79.2 | 12.2 |
| 105-01 | <LOD | 39.75 | 638.8 | 230 | <LOD | 41.85 | <LOD | 6.45 | 74.1 | 6.4 | 8.4 | 5.3 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 105-02 | <LOD | 52.5 | 857.6 | 320 | <LOD | 46.05 | 26.1 | 6.2 | 136.6 | 9.5 | 24.4 | 7.3 |
| 105-03 | <LOD | 51.3 | 862.4 | 280 | <LOD | 43.95 | 17.6 | 5.6 | 141 | 9.2 | 44.1 | 7.5 |
| 105-04 | <LOD | 42.45 | 571.6 | 250 | <LOD | 30.75 | 18.8 | 5.2 | 156.3 | 8.6 | 56.7 | 7.1 |
| 106-01 | <LOD | 46.05 | <LOD | 435 | <LOD | 40.35 | 22.5 | 6 | 107.4 | 9.7 | 142.5 | 10.7 |
| 106-02 | <LOD | 73.95 | 4819.2 | 520 | <LOD | 29.4 | 13.3 | 5.3 | 80.1 | 8.1 | 27.5 | 7.4 |
| 106-03 | <LOD | 44.4 | <LOD | 390 | <LOD | 38.25 | 14.7 | 4.6 | 42.9 | 7.6 | 79.1 | 7.9 |
| 106-04 | <LOD | 52.8 | 951.2 | 300 | <LOD | 37.05 | 12.8 | 4.4 | 53.9 | 6.6 | 50.9 | 6.9 |
| 107-01 | <LOD | 48 | 1400 | 300 | <LOD | 31.8 | 7.4 | 3.9 | 41.6 | 5.8 | 22.8 | 5.8 |
| 107-02 | <LOD | 56.1 | 410.8 | 260 | <LOD | 33.15 | 10.9 | 4.3 | 115.3 | 7.3 | 37.4 | 6.2 |
| 107-03 | <LOD | 63.3 | 1100 | 300 | <LOD | 31.2 | 17 | 5.3 | 94.3 | 8.2 | 44.2 | 7.5 |
| 107-04 | <LOD | 55.35 | 764.8 | 300 | <LOD | 36.3 | 8.1 | 4.1 | 20.6 | 5.6 | 12.4 | 5.9 |
| 108-01 | <LOD | 41.25 | 436.4 | 240 | <LOD | 38.7 | 9.1 | 4.4 | 130.3 | 7.5 | 36.7 | 6 |
| 108-02 | <LOD | 53.1 | 2179.2 | 340 | <LOD | 84.45 | 26.6 | 6.2 | 180.2 | 10.4 | 43.7 | 8.2 |
| 108-03 | <LOD | 42.6 | <LOD | 390 | <LOD | 34.2 | 19 | 5.3 | 128.6 | 8.5 | 34.1 | 6.8 |
| 108-04 | <LOD | 42.45 | 484.8 | 250 | <LOD | 48.3 | 10.4 | 3.8 | 75.4 | 5.8 | 29.3 | 5.2 |
| 110-01 | <LOD | 60 | 1220 | 360 | <LOD | 32.55 | 30.4 | 8 | 54.5 | 11.5 | 203.3 | 15.5 |
| 110-02 | <LOD | 72.3 | 1029.6 | 390 | <LOD | 36.6 | 26 | 6.6 | 37.4 | 9 | 92.9 | 10.9 |
| 110-03 | <LOD | 43.65 | 574.8 | 320 | <LOD | 43.8 | 20.4 | 7.3 | 84.7 | 11.7 | 311.6 | 16.8 |
| 110-04 | <LOD | 56.55 | 5177.6 | 480 | <LOD | 36.45 | 20.9 | 6.7 | 71.8 | 10.7 | 243.8 | 14.7 |
| 111-01 | <LOD | 42.15 | 418 | 270 | <LOD | 37.65 | 42.6 | 6.5 | 58.5 | 9.4 | 126.7 | 11.1 |
| 111-02 | 65 | 40.3 | 484 | 270 | <LOD | 34.05 | 17.2 | 4.6 | 19.5 | 6.2 | 100.8 | 8.4 |
| 111-03 | <LOD | 44.25 | 643.2 | 240 | <LOD | 34.2 | 21.9 | 4.7 | 53.3 | 6.8 | 77.7 | 7.6 |
| 111-04 | <LOD | 48.6 | 474.4 | 230 | <LOD | 35.7 | 18.1 | 5 | 48.5 | 7.6 | 145.4 | 9.7 |

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## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112-01 | <LOD | 55.35 | <LOD | 465 | <LOD | 42.9 | 32.4 | 6.2 | 44.8 | 7.9 | 21.2 | 7.8 |
| 112-02 | 268.4 | 75.7 | 866.4 | 370 | <LOD | 51.3 | 41.6 | 8 | 52.5 | 10.9 | 95.8 | 12.5 |
| 112-03 | <LOD | 67.8 | 2320 | 430 | <LOD | 46.5 | 26.6 | 6.1 | 67.1 | 9.1 | 40.1 | 8.9 |
| 112-04 | <LOD | 63.75 | 3699.2 | 380 | <LOD | 37.05 | 20.7 | 5.5 | 60.1 | 8.4 | 66 | 9.1 |
| 113-01 | <LOD | 47.7 | <LOD | 435 | <LOD | 41.4 | 26.4 | 6.3 | <LOD | 11.25 | 85.6 | 10 |
| 113-02 | <LOD | 36.9 | 660.8 | 240 | <LOD | 58.05 | 26.9 | 4.5 | 86 | 6.1 | 19.9 | 5.2 |
| 113-03 | <LOD | 62.7 | 931.2 | 350 | <LOD | 41.4 | 19.1 | 4.8 | 38.7 | 6.2 | 23.1 | 6.3 |
| 113-04 | <LOD | 50.55 | 932.8 | 280 | <LOD | 44.1 | 31 | 6.6 | 22.4 | 8.1 | 105.5 | 10.9 |
| 114-01 | <LOD | 57.75 | 3558.4 | 380 | <LOD | 39.45 | 9.6 | 4.3 | 96.3 | 6.7 | <LOD | 7.95 |
| 114-02 | <LOD | 70.8 | 4000 | 510 | <LOD | 39.75 | 25.4 | 5.8 | 112.1 | 8.7 | 21.6 | 6.9 |
| 114-03 | <LOD | 76.8 | 1189.6 | 390 | <LOD | 28.8 | 18.4 | 6.1 | 126 | 9.6 | <LOD | 10.65 |
| 114-04 | <LOD | 43.65 | 425.6 | 280 | <LOD | 40.95 | 18.9 | 5.4 | 118.7 | 8.3 | 14.5 | 6.3 |
| 115-01 | <LOD | 45.9 | <LOD | 390 | <LOD | 34.2 | 19.5 | 4.9 | 108.8 | 7.3 | 18 | 5.8 |
| 115-02 | <LOD | 54.6 | 693.2 | 320 | <LOD | 49.2 | 13.5 | 5.3 | 89.7 | 8.2 | 51.2 | 7.7 |
| 115-03 | <LOD | 54.3 | 594.4 | 280 | <LOD | 44.25 | 16.4 | 5.9 | 165.8 | 10.4 | 109.1 | 9.5 |
| 115-04 | <LOD | 58.35 | 2760 | 410 | <LOD | 32.4 | 23.1 | 6 | 102 | 8.9 | 16 | 7.3 |
| 116-01 | <LOD | 38.85 | <LOD | 390 | <LOD | 50.7 | 19.8 | 6 | 117.3 | 9.2 | 51.8 | 8.1 |
| 116-02 | <LOD | 42.15 | 463.6 | 260 | <LOD | 31.8 | 32.7 | 6.2 | 149 | 9.3 | 25.4 | 7 |
| 116-03 | <LOD | 37.5 | 534.4 | 240 | <LOD | 48 | 21.3 | 5.6 | 123.9 | 8.5 | 25.5 | 6.8 |
| 116-04 | <LOD | 40.95 | 1020 | 240 | <LOD | 74.25 | 17.6 | 4.7 | 133.8 | 7.6 | 46.2 | 6.4 |
| 117-01 | <LOD | 63.15 | 891.2 | 370 | <LOD | 44.4 | 22.7 | 7.4 | 100.6 | 11.3 | 137.4 | 12.7 |
| 117-02 | <LOD | 41.7 | 641.2 | 260 | <LOD | 38.4 | 23.3 | 5.9 | 131 | 9.4 | 69.4 | 8.5 |
| 117-03 | <LOD | 46.5 | 1449.6 | 270 | <LOD | 52.8 | 16.3 | 6.1 | 123 | 10.2 | 193.1 | 12.1 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117-04 | <LOD | 41.7 | 708.4 | 240 | <LOD | 64.2 | 16 | 5 | 126.8 | 8.4 | 138.4 | 8.9 |
| 118-01 | <LOD | 74.85 | 1689.6 | 460 | <LOD | 40.5 | 48.4 | 15.6 | 103.6 | 24.6 | 260.2 | 30 |
| 118-02 | <LOD | 57.15 | 3747.2 | 400 | <LOD | 53.7 | 23.9 | 6.7 | 111.7 | 10.8 | 132.6 | 11.6 |
| 118-03 | <LOD | 60.15 | 970.4 | 350 | <LOD | 45.75 | 18.5 | 7.7 | 107.3 | 12 | 96.4 | 12.2 |
| 118-04 | <LOD | 44.25 | 1369.6 | 260 | <LOD | 30.9 | 14.1 | 5.5 | 166.9 | 9.7 | 93.2 | 8.7 |
| 119-01 | <LOD | 43.8 | 1060 | 280 | <LOD | 84.15 | 20.7 | 6 | 123.3 | 9.6 | 118.6 | 9.9 |
| 119-02 | <LOD | 47.1 | 840 | 260 | <LOD | 41.4 | 15.5 | 5.4 | 134.5 | 8.9 | 89.5 | 8.4 |
| 119-03 | <LOD | 41.25 | 769.2 | 270 | <LOD | 39.75 | 21.1 | 6 | 123.3 | 9.4 | 57.7 | 8.3 |
| 119-04 | <LOD | 51.9 | 1020 | 330 | <LOD | 35.85 | 28.2 | 7.2 | 88.7 | 10.7 | 132.1 | 12 |
| 120-01 | <LOD | 48.3 | <LOD | 375 | <LOD | 37.2 | 10.4 | 4.1 | 62.4 | 6.1 | 19.6 | 5.8 |
| 120-02 | <LOD | 44.1 | 882.4 | 250 | <LOD | 50.55 | 15.9 | 5.4 | 134 | 9.1 | 61.1 | 8 |
| 120-03 | <LOD | 45.15 | 886.4 | 250 | <LOD | 45.45 | 17 | 4.9 | 124.8 | 7.9 | 54.4 | 6.9 |
| 120-04 | <LOD | 37.65 | 436.4 | 210 | <LOD | 34.8 | 10.8 | 4.2 | 142.2 | 7.2 | 29.1 | 5.5 |
| 121-01 | <LOD | 37.05 | 386.4 | 230 | <LOD | 34.5 | 13.5 | 4.6 | 88.9 | 7.1 | 21.1 | 6.1 |
| 121-02 | <LOD | 43.8 | 1129.6 | 250 | <LOD | 35.55 | 12.4 | 4.6 | 150.5 | 8 | 31.5 | 6.4 |
| 121-03 | <LOD | 43.65 | 1100 | 230 | <LOD | 41.4 | 9.4 | 3.8 | 80.3 | 5.9 | 18.5 | 5.1 |
| 121-04 | <LOD | 57.45 | 4400 | 400 | <LOD | 33.15 | 17.8 | 5.5 | 107.7 | 8.8 | 29.3 | 7.6 |
| 122-01 | <LOD | 38.1 | 747.6 | 240 | <LOD | 36.45 | 19.8 | 5.2 | 118.6 | 8.1 | 22.8 | 6.5 |
| 122-02 | <LOD | 46.35 | 524.4 | 260 | <LOD | 50.85 | 9.4 | 4.7 | 120.9 | 7.7 | 27.1 | 6.3 |
| 122-03 | <LOD | 57.45 | 789.6 | 300 | <LOD | 35.85 | 18.6 | 5.7 | 97.3 | 8.5 | 19.7 | 7 |
| 122-04 | <LOD | 29.55 | 384.4 | 200 | <LOD | 72.3 | 10.2 | 4.1 | 91.2 | 6.3 | 30.6 | 5.5 |
| 123-01 | <LOD | 44.55 | 2148.8 | 280 | <LOD | 43.2 | 17.4 | 4.3 | 112.6 | 6.8 | 32.3 | 5.6 |
| 123-02 | <LOD | 47.85 | 926.4 | 270 | <LOD | 36.3 | 22.9 | 5.9 | 153.3 | 9.5 | 32.9 | 7.4 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123-03 | <LOD | 38.7 | 836 | 260 | <LOD | 140.85 | 18.3 | 4.8 | 140.8 | 7.8 | 20.6 | 5.8 |
| 123-04 | <LOD | 44.85 | 803.6 | 240 | <LOD | 34.8 | 13 | 4.4 | 138.2 | 7.3 | 25.9 | 5.6 |
| 124-01 | <LOD | 41.4 | 922.4 | 230 | <LOD | 52.5 | NA | | NA | | NA | |
| 124-02 | <LOD | 37.65 | 896.8 | 250 | <LOD | 36.9 | 10.3 | 4.1 | 75.8 | 6.1 | 8.7 | 5.1 |
| 124-03 | <LOD | 38.85 | 704.4 | 230 | <LOD | 42.75 | 10.6 | 4.1 | 104.8 | 6.5 | 13.4 | 5.1 |
| 124-04 | <LOD | 49.65 | 1460 | 300 | <LOD | 43.2 | 20.5 | 4.7 | 61 | 7 | 15.5 | 6.4 |
| 125-01 | <LOD | 44.25 | 383.6 | 230 | <LOD | 30.3 | 13.7 | 4.3 | 198.7 | 7.7 | 32.3 | 5.2 |
| 125-02 | <LOD | 37.95 | 1029.6 | 240 | <LOD | 39 | 12.8 | 4.2 | 198 | 7.6 | 32.2 | 5.2 |
| 125-03 | <LOD | 50.7 | 1420 | 290 | <LOD | 33.9 | 18.3 | 4.8 | 200.1 | 8.5 | 37 | 6 |
| 125-04 | <LOD | 47.55 | 1769.6 | 300 | <LOD | 34.8 | 15.3 | 4.5 | 199.8 | 8.1 | 33.3 | 5.5 |
| 126-01 | <LOD | 45 | 486 | 250 | <LOD | 43.2 | 9.1 | 5.2 | 96.8 | 8.7 | 185.9 | 10.7 |
| 126-02 | <LOD | 39.6 | 1220 | 270 | <LOD | 43.95 | 17.2 | 5.2 | 146.4 | 8.5 | 59.9 | 7.3 |
| 126-03 | <LOD | 36.9 | 499.2 | 200 | <LOD | 41.25 | 10 | 3.9 | 148.1 | 6.5 | <LOD | 6.3 |
| 126-04 | <LOD | 46.65 | 1069.6 | 310 | <LOD | 64.2 | 22.7 | 5.5 | 104.4 | 8.1 | 38 | 7 |
| 127-01 | <LOD | 43.2 | 734 | 250 | <LOD | 45 | 14.7 | 4.5 | 81.9 | 7 | 23.8 | 6.3 |
| 127-02 | <LOD | 41.1 | 626.4 | 250 | <LOD | 43.2 | 7 | 3.9 | 74.8 | 6.3 | 15.4 | 5.7 |
| 127-03 | <LOD | 39.45 | 358.6 | 230 | <LOD | 54.45 | 20.1 | 4.7 | 69.4 | 7.1 | 33.6 | 6.7 |
| 127-04 | <LOD | 42.9 | 820.8 | 240 | <LOD | 33.6 | 17.9 | 5.3 | 136.2 | 9 | 108.8 | 8.8 |
| 128-01 | <LOD | 40.35 | 661.2 | 230 | <LOD | 43.8 | 10.7 | 4.5 | 108.2 | 7.2 | 27.1 | 5.9 |
| 128-02 | <LOD | 36.75 | 624.8 | 210 | <LOD | 52.65 | 15.4 | 4.5 | 139.2 | 7.3 | 27.2 | 5.6 |
| 128-03 | <LOD | 52.05 | 1300 | 280 | <LOD | 39.75 | 15.2 | 4 | 59 | 5.9 | 27 | 5.6 |
| 128-04 | <LOD | 66 | 756.4 | 340 | <LOD | 40.8 | 20.6 | 5.2 | 32.8 | 7.3 | 19.1 | 7.4 |
| 129-01 | <LOD | 42.15 | 1540 | 250 | <LOD | 40.2 | 9.7 | 4 | 63.4 | 6.3 | 44.6 | 6.3 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 129-02 | <LOD | 61.35 | 4588.8 | 390 | <LOD | 37.35 | 10.8 | 4.3 | 67.2 | 6.7 | 19.9 | 6.2 |
| 129-03 | <LOD | 39.45 | 678.4 | 220 | <LOD | 35.25 | 12.7 | 4.2 | 88.6 | 6.7 | 40.8 | 6.1 |
| 129-04 | <LOD | 41.4 | 818.4 | 250 | <LOD | 49.65 | 16.4 | 5.2 | 67.3 | 8.6 | 74.2 | 9 |
| 130-01 | <LOD | 48.3 | 1729.6 | 270 | <LOD | 44.4 | 11.3 | 3.9 | 49.5 | 5.8 | 21.1 | 5.6 |
| 130-02 | <LOD | 44.7 | 737.2 | 260 | <LOD | 68.7 | 20.6 | 5.5 | 99.1 | 8.6 | 103.9 | 9 |
| 130-03 | <LOD | 37.35 | 836.8 | 240 | <LOD | 42.6 | 7.2 | 4 | 88 | 6.3 | 24.4 | 5.5 |
| 130-04 | <LOD | 44.1 | 487.6 | 230 | <LOD | 48 | 9.2 | 4.1 | 90.8 | 6.4 | 53.8 | 6.2 |
| 131-01 | <LOD | 65.85 | 1400 | 370 | <LOD | 44.4 | 28.9 | 8 | 188.3 | 13.5 | 39.5 | 10.1 |
| 131-02 | <LOD | 33.6 | 525.2 | 210 | <LOD | 43.8 | 10.7 | 4.9 | 202.6 | 9 | 38.7 | 6.4 |
| 131-03 | <LOD | 54.15 | 636 | 280 | <LOD | 59.55 | 25.8 | 7 | 294.6 | 12.9 | 14 | 7.5 |
| 131-04 | <LOD | 42.45 | 1920 | 280 | <LOD | 52.5 | 15.5 | 5.3 | 297.8 | 10.5 | 15.8 | 5.9 |
| 132-01 | <LOD | 47.7 | 2419.2 | 310 | <LOD | 56.85 | 10.9 | 4.1 | 69.3 | 6.4 | 71.7 | 6.8 |
| 132-02 | <LOD | 39.45 | 936 | 230 | <LOD | 48.75 | 7.5 | 3.8 | 112.7 | 6.4 | 37.4 | 5.4 |
| 132-03 | <LOD | 57 | 1129.6 | 310 | <LOD | 44.1 | 10.7 | 4.1 | 79.9 | 6.3 | 24.6 | 5.7 |
| 132-04 | <LOD | 41.25 | 678.4 | 250 | <LOD | 82.65 | <LOD | 5.85 | 85.7 | 6.2 | 34.2 | 5.7 |
| 133-01 | <LOD | 37.5 | 840 | 250 | <LOD | 39.15 | 9.5 | 3.5 | 152.6 | 6.1 | 21.6 | 4.4 |
| 133-02 | <LOD | 37.95 | 496.4 | 220 | <LOD | 42.3 | 12.1 | 4.2 | 133.6 | 7 | 20.8 | 5.2 |
| 133-03 | <LOD | 43.65 | 1040 | 270 | <LOD | 38.1 | 12 | 4 | 114.2 | 6.4 | 13.5 | 5 |
| 133-04 | <LOD | 47.7 | 627.6 | 230 | <LOD | 38.4 | 16.3 | 4.3 | 133.1 | 7.1 | 22.2 | 5.4 |
| 134-01 | <LOD | 65.55 | 5849.6 | 470 | <LOD | 55.2 | 12 | 4.6 | 129 | 7.8 | 13.5 | 5.9 |
| 134-02 | <LOD | 45.9 | 1400 | 270 | <LOD | 59.25 | 10.1 | 4.3 | 120.6 | 7.2 | 16.8 | 5.6 |
| 134-03 | <LOD | 37.05 | 794.8 | 220 | <LOD | 54.9 | 11.2 | 4.5 | 137.1 | 7.5 | 9.8 | 5.4 |
| 134-04 | <LOD | 48.3 | 2369.6 | 290 | <LOD | 39.75 | 6.8 | 4.2 | 107 | 6.9 | 12.8 | 5.5 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 136-01 | <LOD | 44.55 | <LOD | 360 | <LOD | 26.4 | 22.6 | 5.8 | 163.1 | 9.5 | 23.2 | 6.9 |
| 136-02 | <LOD | 60.15 | <LOD | 540 | <LOD | 30.45 | 26.1 | 6.9 | 117.2 | 10.5 | 28.5 | 8.6 |
| 136-03 | <LOD | 55.35 | <LOD | 435 | <LOD | 35.7 | 7.2 | 3.9 | 69.1 | 5.7 | <LOD | 7.2 |
| 136-04 | <LOD | 40.35 | <LOD | 360 | <LOD | 77.1 | 23.7 | 6.4 | 148.1 | 10.1 | 21.9 | 7.6 |
| 137-01 | <LOD | 36.75 | <LOD | 285 | <LOD | 36.3 | 18.1 | 5 | 182.7 | 8.7 | 27.5 | 6.2 |
| 137-02 | <LOD | 38.55 | <LOD | 435 | <LOD | 49.65 | 33.8 | 8.2 | 117.3 | 12.1 | 25.1 | 10 |
| 137-03 | <LOD | 35.7 | <LOD | 315 | <LOD | 37.95 | 23.6 | 6 | 177.1 | 10 | 28 | 7.2 |
| 137-04 | <LOD | 37.35 | <LOD | 315 | <LOD | 43.5 | 15.4 | 5.1 | 177.9 | 9.1 | 51.6 | 7.1 |
| 138-01 | <LOD | 36 | <LOD | 360 | <LOD | 44.55 | 11.5 | 4.8 | 86 | 7.3 | 12.4 | 6.3 |
| 138-02 | <LOD | 39.15 | <LOD | 360 | <LOD | 64.5 | 17.7 | 6 | 126.2 | 9.6 | 30.6 | 7.7 |
| 138-03 | <LOD | 33.6 | <LOD | 255 | <LOD | 42.45 | 8.1 | 4.4 | 147.1 | 7.7 | 28.3 | 5.7 |
| 138-04 | <LOD | 47.25 | <LOD | 390 | <LOD | 42.6 | 19.5 | 5.9 | 111.8 | 8.9 | <LOD | 10.35 |
| 139-01 | <LOD | 43.35 | <LOD | 330 | <LOD | 37.05 | 19.9 | 5.6 | 127.3 | 8.7 | 21 | 6.7 |
| 139-02 | <LOD | 49.65 | <LOD | 435 | <LOD | 43.95 | 14.2 | 5.1 | 72.2 | 7.3 | 11.6 | 6.3 |
| 139-03 | <LOD | 52.5 | <LOD | 420 | <LOD | 30.75 | 29 | 7 | 126.3 | 10.8 | 34.1 | 8.8 |
| 139-04 | <LOD | 34.35 | <LOD | 300 | <LOD | 31.35 | 15.8 | 4.8 | 111.1 | 7.4 | 13.3 | 5.6 |
| 140-01 | <LOD | 45.9 | <LOD | 420 | <LOD | 30.3 | 22.8 | 6.7 | 111 | 10.1 | 24.4 | 8.3 |
| 140-02 | <LOD | 48.15 | <LOD | 435 | <LOD | 38.25 | 29.2 | 7.4 | 119.4 | 11.1 | 33.9 | 9.2 |
| 140-03 | <LOD | 47.55 | <LOD | 390 | <LOD | 32.85 | 19.3 | 6 | 130.6 | 9.7 | 29 | 7.6 |
| 140-04 | <LOD | 34.35 | <LOD | 285 | <LOD | 30.75 | 8.6 | 4.3 | 124 | 7 | 22.1 | 5.4 |
| 141-01 | <LOD | 36.75 | <LOD | 285 | <LOD | 32.85 | 7.6 | 4.2 | 81.9 | 6.6 | 29.6 | 5.9 |
| 141-02 | <LOD | 34.65 | <LOD | 300 | <LOD | 30.15 | 14.3 | 5.1 | 207.4 | 9.4 | 44.3 | 6.7 |
| 141-03 | <LOD | 42.6 | <LOD | 345 | <LOD | 31.8 | 11.4 | 3.9 | 63 | 5.4 | <LOD | 6.9 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 141-04 | <LOD | 34.8 | <LOD | 285 | <LOD | 35.55 | 20.3 | 4.9 | 154.8 | 8.4 | 50 | 6.7 |
| 142-01 | <LOD | 35.4 | <LOD | 270 | <LOD | 37.35 | 16.7 | 5.1 | 171.5 | 8.7 | 32.7 | 6.3 |
| 142-02 | <LOD | 66.3 | 3000 | 400 | <LOD | 31.95 | 24.6 | 7.2 | 224.8 | 12.7 | 45 | 9.2 |
| 142-03 | <LOD | 47.1 | <LOD | 420 | <LOD | 30.9 | 32.3 | 8.1 | 157.4 | 13 | 37.7 | 10.1 |
| 142-04 | <LOD | 37.65 | <LOD | 330 | <LOD | 36.3 | 22 | 5.6 | 214.2 | 9.8 | 40.2 | 6.8 |
| 143-01 | <LOD | 40.95 | <LOD | 390 | <LOD | 43.65 | 23.2 | 6.6 | 169.8 | 10.9 | 37.5 | 8.3 |
| 143-02 | <LOD | 30.45 | <LOD | 255 | <LOD | 44.7 | 10.5 | 4 | 164.4 | 7 | 25.8 | 5 |
| 143-03 | <LOD | 39 | <LOD | 360 | <LOD | 36 | 47.8 | 10.5 | 84.2 | 13.7 | <LOD | 18.15 |
| 143-04 | <LOD | 37.95 | <LOD | 300 | <LOD | 36.6 | 11.3 | 4.6 | 127.2 | 7.4 | 17.6 | 5.6 |
| 144-01 | <LOD | 70.05 | 3249.6 | 440 | <LOD | 62.1 | 22.1 | 7.8 | 92.9 | 12.8 | 334.6 | 18.1 |
| 144-02 | <LOD | 47.25 | <LOD | 405 | <LOD | 43.65 | 17.7 | 6.6 | 80.9 | 9.9 | 33.1 | 9 |
| 144-03 | <LOD | 38.85 | <LOD | 345 | <LOD | 42.45 | 10.4 | 5.1 | 86.8 | 8.3 | 145.8 | 9.8 |
| 144-04 | <LOD | 46.2 | <LOD | 435 | <LOD | 47.4 | 9.6 | 5.3 | 67.7 | 8 | 40.9 | 7.9 |
| 145-01 | <LOD | 42 | <LOD | 345 | <LOD | 39.9 | 16.6 | 5.6 | 92.2 | 8.6 | 21.3 | 7.3 |
| 145-02 | <LOD | 34.05 | <LOD | 315 | <LOD | 32.4 | 18.8 | 6 | 147.5 | 9.8 | 50 | 8.2 |
| 145-03 | <LOD | 41.7 | <LOD | 375 | <LOD | 43.8 | 23.7 | 6 | 151.4 | 9.6 | 18.7 | 7.1 |
| 145-04 | <LOD | 32.25 | <LOD | 270 | <LOD | 31.2 | 8.3 | 4.2 | 151.5 | 7.4 | 28.4 | 5.5 |
| 146-01 | <LOD | 40.5 | <LOD | 360 | <LOD | 45.45 | 20.9 | 6.3 | 122.8 | 9.4 | 42.9 | 8.2 |
| 146-02 | <LOD | 38.1 | <LOD | 330 | <LOD | 37.5 | 12.7 | 4.8 | 100.7 | 7.5 | 35.3 | 6.5 |
| 146-03 | <LOD | 36.6 | <LOD | 315 | <LOD | 33.9 | 15.2 | 5 | 146.2 | 8.4 | 81.1 | 7.6 |
| 146-04 | <LOD | 28.65 | <LOD | 285 | <LOD | 30.9 | 8.9 | 4.3 | 110.9 | 7.2 | 50.6 | 6.3 |
| 147-01 | <LOD | 31.65 | <LOD | 270 | <LOD | 31.95 | 14.4 | 4.4 | 121.4 | 7.1 | 31.3 | 5.7 |
| 147-02 | <LOD | 28.2 | <LOD | 255 | <LOD | 30.9 | 15.8 | 4.5 | 119.9 | 7.2 | 35.6 | 5.9 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 147-03 | <LOD | 43.8 | <LOD | 345 | <LOD | 36.3 | 23.4 | 5.7 | 78.8 | 8 | 24 | 7.1 |
| 147-04 | <LOD | 43.8 | <LOD | 345 | <LOD | 36.3 | NA | | NA | | NA | |
| 148-01 | <LOD | 58.35 | 4249.6 | 380 | <LOD | 32.7 | 15.7 | 5.3 | 116.7 | 8.3 | 24.3 | 6.9 |
| 148-02 | <LOD | 39.15 | <LOD | 330 | <LOD | 61.05 | NA | | NA | | NA | |
| 148-03 | <LOD | 30.9 | <LOD | 225 | <LOD | 36.9 | <LOD | 5.4 | 148.5 | 6.3 | 34.2 | 4.8 |
| 148-04 | <LOD | 26.7 | <LOD | 255 | <LOD | 26.4 | 6.8 | 3.6 | 80.3 | 5.4 | 18.6 | 4.6 |
| 149-01 | <LOD | 47.1 | <LOD | 375 | <LOD | 30.15 | 23.6 | 6.5 | 70.4 | 8.9 | 42.9 | 8.9 |
| 149-02 | <LOD | 35.7 | <LOD | 315 | <LOD | 38.55 | 19.4 | 4.9 | 145.7 | 8.1 | 84.2 | 7.3 |
| 149-03 | <LOD | 43.35 | <LOD | 390 | <LOD | 38.85 | 23.5 | 6.9 | 25.1 | 9.1 | 95.2 | 11.3 |
| 149-04 | <LOD | 59.25 | <LOD | 585 | <LOD | 44.55 | 35.7 | 10.6 | 46 | 14.1 | 119.1 | 17.2 |
| 150-01 | <LOD | 33.3 | <LOD | 270 | <LOD | 33.9 | 9.5 | 4 | 136.9 | 6.7 | 27.5 | 5.2 |
| 150-02 | <LOD | 33.45 | 1100 | 210 | <LOD | 62.1 | 12.3 | 4.8 | 148.5 | 8.1 | 34.3 | 6.5 |
| 150-03 | <LOD | 58.2 | <LOD | 465 | <LOD | 43.65 | 25.6 | 6.4 | 104.9 | 9.4 | 26.1 | 7.9 |
| 150-04 | <LOD | 30 | <LOD | 285 | <LOD | 42.45 | 14.5 | 4.2 | 115.6 | 6.8 | 37.6 | 5.8 |
| 151-01 | <LOD | 57.15 | <LOD | 495 | <LOD | 47.4 | 23.6 | 6.5 | 102.4 | 9.6 | 31.7 | 8.3 |
| 151-02 | <LOD | 39 | <LOD | 330 | <LOD | 39.9 | 19.3 | 5.8 | 61.4 | 9.2 | 144.9 | 11.2 |
| 151-03 | <LOD | 31.95 | <LOD | 255 | <LOD | 32.4 | 19 | 4.2 | 129.8 | 6.6 | 33.2 | 5.3 |
| 151-04 | <LOD | 34.5 | <LOD | 285 | <LOD | 43.8 | 10.1 | 4.4 | 143 | 7.5 | 34.7 | 5.8 |
| 152-01 | <LOD | 38.25 | <LOD | 300 | <LOD | 31.2 | 25 | 5.4 | 150.3 | 8.5 | 29.1 | 6.4 |
| 152-02 | <LOD | 34.95 | <LOD | 300 | <LOD | 45.45 | 6.1 | 4 | 107.8 | 6.7 | 31 | 5.7 |
| 152-03 | <LOD | 32.55 | <LOD | 270 | <LOD | 37.5 | 12.3 | 4.1 | 109 | 6.5 | 35.8 | 5.4 |
| 152-04 | <LOD | 48.45 | <LOD | 375 | <LOD | 33.9 | 21.5 | 6 | 127.6 | 9.4 | 26.6 | 7.7 |
| 154-01 | <LOD | 37.35 | <LOD | 300 | <LOD | 30.9 | 15.1 | 4.6 | 116.1 | 7.4 | 67.7 | 6.8 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 154-02 | <LOD | 39.6 | <LOD | 360 | <LOD | 32.55 | 13.3 | 4.6 | 91.4 | 7.1 | 50.3 | 6.7 |
| 154-03 | <LOD | 40.65 | <LOD | 315 | <LOD | 43.95 | 8.7 | 4 | 110.1 | 6.5 | 62.2 | 6.1 |
| 154-04 | <LOD | 38.85 | <LOD | 300 | <LOD | 33.45 | 10.5 | 3.9 | 99.6 | 6.2 | 64 | 6 |
| 188-01 | <LOD | 46.8 | <LOD | 375 | <LOD | 26.4 | 14.4 | 3.9 | 68 | 5.6 | 12.6 | 4.8 |
| 188-02 | <LOD | 45.75 | <LOD | 405 | <LOD | 30.45 | 10.8 | 3.7 | 67 | 5.3 | <LOD | 6.6 |
| 188-03 | <LOD | 42.15 | <LOD | 360 | <LOD | 35.7 | 16.3 | 5 | 148.4 | 8.2 | 25.5 | 6.1 |
| 188-04 | <LOD | 63.75 | 2640 | 430 | <LOD | 77.1 | 20 | 6.1 | 133.2 | 9.6 | 19.6 | 7.4 |
| 189-01 | <LOD | 42.9 | <LOD | 390 | <LOD | 32.55 | 14.7 | 4.8 | 116.6 | 7.8 | 24.7 | 6.1 |
| 189-02 | <LOD | 40.8 | <LOD | 345 | <LOD | 30.15 | 13.4 | 4.4 | 157.4 | 7.5 | 24 | 5.4 |
| 189-03 | <LOD | 32.7 | <LOD | 285 | <LOD | 38.55 | NA | | NA | | NA | |
| 189-04 | <LOD | 37.2 | <LOD | 315 | <LOD | 38.85 | 12.9 | 4.3 | 138.4 | 7.2 | 23.4 | 5.3 |
| 190-01 | <LOD | 52.35 | 1649.6 | 320 | <LOD | 44.55 | 16.4 | 5 | 127.5 | 7.9 | 51.9 | 6.8 |
| 190-02 | <LOD | 39.15 | <LOD | 330 | <LOD | 64.5 | 19.3 | 6.1 | 134.3 | 10.1 | 58.2 | 8.8 |
| 190-03 | <LOD | 38.85 | <LOD | 315 | <LOD | 42.45 | 10.6 | 4.6 | 129.4 | 7.7 | 56 | 6.6 |
| 190-04 | <LOD | 42.15 | <LOD | 360 | <LOD | 42.6 | 19.9 | 5.2 | 121 | 8.4 | 61.3 | 7.4 |
| 191-01 | <LOD | 29.7 | <LOD | 270 | <LOD | 30.3 | 11.9 | 3.7 | 107.4 | 6 | 17 | 4.9 |
| 191-02 | <LOD | 34.35 | <LOD | 285 | <LOD | 38.25 | 6.6 | 3.5 | 125 | 5.9 | 16.7 | 4.3 |
| 191-03 | <LOD | 39.75 | <LOD | 330 | <LOD | 32.85 | 6.3 | 3.1 | 50 | 4.3 | <LOD | 5.55 |
| 191-04 | <LOD | 37.35 | 410 | 220 | <LOD | 30.75 | <LOD | 4.35 | 56.2 | 4.2 | <LOD | 5.25 |
| 192-01 | <LOD | 45.9 | <LOD | 375 | <LOD | 37.05 | 18.4 | 5 | 164.1 | 8.3 | 16.4 | 5.6 |
| 192-02 | <LOD | 41.4 | <LOD | 360 | <LOD | 43.95 | 21.7 | 4.7 | 187 | 8 | 17.7 | 5.2 |
| 192-03 | <LOD | 38.4 | <LOD | 345 | <LOD | 30.75 | 20.3 | 5.3 | 177.3 | 8.9 | 19.5 | 6 |
| 192-04 | <LOD | 37.95 | 527.6 | 220 | <LOD | 31.35 | 11.7 | 4.4 | 173.8 | 7.8 | 18.1 | 5.3 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193-01 | <LOD | 32.25 | <LOD | 285 | <LOD | 43.65 | 7.3 | 3.8 | 187.8 | 7 | 23.7 | 4.6 |
| 193-02 | <LOD | 33.9 | <LOD | 285 | <LOD | 44.7 | 9.4 | 3.4 | 133.5 | 5.7 | 14.2 | 4 |
| 193-03 | <LOD | 57.3 | 4560 | 410 | <LOD | 36 | 16.5 | 4.7 | 174.1 | 8 | 23.3 | 5.6 |
| 193-04 | <LOD | 58.35 | 3398.4 | 370 | <LOD | 36.6 | 12.1 | 4.3 | 159.7 | 7.2 | 18.8 | 5 |
| 194-01 | <LOD | 35.55 | <LOD | 285 | <LOD | 39 | 9.7 | 4 | 137.9 | 6.8 | 31 | 5.2 |
| 194-02 | <LOD | 41.55 | <LOD | 345 | <LOD | 34.95 | 9.2 | 4.3 | 113.3 | 6.9 | 28 | 5.6 |
| 194-03 | <LOD | 31.65 | <LOD | 285 | <LOD | 45.75 | 12.4 | 4.1 | 124.9 | 6.8 | 26.1 | 5.2 |
| 194-04 | <LOD | 39.45 | <LOD | 375 | <LOD | 37.8 | 15 | 5 | 121.6 | 8 | 23 | 6.2 |
| 195-01 | <LOD | 48.6 | <LOD | 420 | <LOD | 31.5 | 14.2 | 4.8 | 118.1 | 7.6 | 29.2 | 6.2 |
| 195-02 | <LOD | 40.5 | <LOD | 345 | <LOD | 33.9 | 17.8 | 5 | 148.2 | 8.4 | 40.3 | 6.5 |
| 195-03 | <LOD | 46.5 | <LOD | 375 | <LOD | 32.55 | 13.9 | 4.9 | 142.2 | 8 | 39.1 | 6.4 |
| 195-04 | <LOD | 50.55 | <LOD | 495 | <LOD | 35.25 | 17.5 | 5.6 | 131.1 | 9 | 34.2 | 7.2 |
| 196-01 | <LOD | 41.7 | <LOD | 315 | <LOD | 51.45 | 14 | 4.3 | 133.4 | 6.9 | 13.9 | 5 |
| 196-02 | <LOD | 42.6 | <LOD | 360 | <LOD | 32.1 | 21.5 | 5.1 | 217.6 | 9.2 | 47.2 | 6.4 |
| 196-03 | <LOD | 40.8 | <LOD | 360 | <LOD | 55.05 | 12.8 | 4.7 | 181.6 | 8.3 | 36.6 | 6 |
| 196-04 | <LOD | 31.35 | <LOD | 270 | <LOD | 37.35 | 9.6 | 3.8 | 165.1 | 6.6 | 29.4 | 4.7 |
| 197-01 | <LOD | 48.3 | <LOD | 435 | <LOD | 29.1 | 29.2 | 6.4 | 175.4 | 10.5 | 30 | 7.6 |
| 197-02 | <LOD | 46.05 | 1029.6 | 280 | <LOD | 30.75 | 14.9 | 5.1 | 197.5 | 9.1 | 34 | 6.4 |
| 197-03 | <LOD | 46.5 | 1160 | 270 | <LOD | 35.7 | 17.4 | 4.6 | 210.6 | 8.3 | 34.4 | 5.6 |
| 197-04 | <LOD | 45 | <LOD | 345 | <LOD | 32.55 | 14.3 | 4.8 | 203.2 | 8.7 | 31.2 | 5.9 |
| 198-01 | <LOD | 50.25 | 1100 | 340 | <LOD | 31.5 | 36.1 | 7.1 | 196.8 | 11.5 | 27.1 | 8 |
| 198-02 | <LOD | 43.35 | <LOD | 345 | <LOD | 33.9 | 20.7 | 5.5 | 225 | 9.8 | 32.1 | 6.4 |
| 198-03 | <LOD | 68.85 | <LOD | 675 | <LOD | 32.55 | 36.4 | 7.4 | 151.8 | 11.5 | 21.3 | 8.5 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 198-04 | <LOD | 40.65 | 651.6 | 250 | <LOD | 35.25 | 15.8 | 4.2 | 158.2 | 7.1 | 19.8 | 4.9 |
| 199-01 | <LOD | 38.7 | 724.8 | 230 | <LOD | 45.9 | 14.9 | 5.1 | 166.4 | 8.9 | 46.4 | 6.9 |
| 199-02 | <LOD | 39.3 | 527.2 | 240 | <LOD | 36.75 | 13.3 | 5.1 | 136.1 | 8.5 | 39.9 | 6.8 |
| 199-03 | <LOD | 44.4 | <LOD | 450 | <LOD | 59.25 | 26.9 | 6.6 | 140.3 | 10.4 | 39.5 | 8.4 |
| 199-04 | <LOD | 52.2 | 3388.8 | 340 | <LOD | 61.05 | 25.6 | 5.2 | 159.7 | 8.6 | 48.5 | 6.8 |
| 200-01 | <LOD | 40.5 | <LOD | 345 | <LOD | 36.15 | 15.5 | 5.4 | 150 | 8.9 | 35.4 | 7 |
| 200-02 | <LOD | 35.7 | <LOD | 315 | <LOD | 32.7 | 16.6 | 5 | 154.3 | 8.5 | 40.1 | 6.5 |
| 200-03 | <LOD | 41.85 | <LOD | 375 | <LOD | 32.7 | 20.3 | 5.1 | 195.5 | 8.8 | 36.3 | 6.4 |
| 200-04 | <LOD | 45.15 | <LOD | 375 | <LOD | 41.1 | 23.3 | 5.5 | 157.4 | 9 | 34.4 | 6.8 |
| 201-01 | <LOD | 39 | <LOD | 375 | <LOD | 31.95 | 15.3 | 4.6 | 143.8 | 7.6 | 24.1 | 5.7 |
| 201-02 | <LOD | 49.2 | <LOD | 435 | <LOD | 43.35 | 33.2 | 5.9 | 157.2 | 9.3 | 23.3 | 6.8 |
| 201-03 | <LOD | 34.05 | <LOD | 330 | <LOD | 32.7 | 19.2 | 4.5 | 139 | 7.3 | 23.7 | 5.5 |
| 201-04 | <LOD | 44.55 | <LOD | 375 | <LOD | 37.5 | 18.7 | 4.9 | 137.3 | 8 | 30 | 6.2 |
| 202-01 | <LOD | 34.95 | <LOD | 300 | <LOD | 44.7 | 20.2 | 5 | 170.5 | 8.5 | 32.5 | 6.1 |
| 202-02 | <LOD | 40.35 | <LOD | 330 | <LOD | 36 | 12.3 | 4.7 | 162.4 | 8.1 | 33.9 | 6 |
| 202-03 | <LOD | 45 | <LOD | 345 | <LOD | 36.6 | 14.5 | 5 | 156.6 | 8.5 | 29.1 | 6.3 |
| 202-04 | <LOD | 38.1 | <LOD | 315 | <LOD | 39 | 21.9 | 5.1 | 163.7 | 8.5 | 28.7 | 6.2 |
| 203-01 | <LOD | 47.55 | <LOD | 390 | <LOD | 34.95 | 23.3 | 6.5 | 154.9 | 10.3 | 19.8 | 7.6 |
| 203-01 | <LOD | 46.95 | <LOD | 375 | <LOD | 30.45 | 21.7 | 5.6 | 156.7 | 9.2 | 20.7 | 6.6 |
| 203-02 | <LOD | 44.25 | <LOD | 375 | <LOD | 45.75 | 22.4 | 6.2 | 165.2 | 10.1 | 23.1 | 7.3 |
| 203-02 | <LOD | 31.65 | <LOD | 270 | <LOD | 37.65 | 7.3 | 4.1 | 208.6 | 7.8 | 35.3 | 5.3 |
| 203-03 | <LOD | 36.75 | <LOD | 315 | <LOD | 37.8 | 13 | 4.8 | 198.6 | 8.7 | 37.1 | 6.1 |
| 203-03 | <LOD | 37.95 | <LOD | 315 | <LOD | 37.8 | 17.1 | 5.6 | 185.4 | 9.5 | 26.7 | 6.6 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203-04 | <LOD | 36.9 | <LOD | 330 | <LOD | 31.5 | 15.4 | 5.2 | 156.5 | 8.7 | 30.6 | 6.5 |
| 203-04 | <LOD | 37.05 | <LOD | 315 | <LOD | 49.05 | 20 | 5 | 196.2 | 8.7 | 27 | 5.9 |
| 204-01 | <LOD | 38.7 | <LOD | 330 | <LOD | 41.1 | 18.2 | 5.3 | 185.7 | 9.2 | 33.3 | 6.5 |
| 204-02 | <LOD | 46.8 | <LOD | 360 | <LOD | 29.7 | 15.7 | 5.2 | 187.5 | 9 | 31.6 | 6.4 |
| 204-03 | <LOD | 46.05 | <LOD | 375 | <LOD | 32.85 | 13.1 | 5 | 172.2 | 8.8 | 37.2 | 6.5 |
| 204-04 | <LOD | 51.15 | <LOD | 420 | <LOD | 34.5 | 33.5 | 6.2 | 159 | 9.6 | 22.3 | 7.1 |
| 205-01 | <LOD | 39.75 | <LOD | 330 | <LOD | 31.35 | 17 | 5.1 | 162.9 | 8.8 | 102.9 | 8 |
| 205-02 | <LOD | 41.7 | <LOD | 345 | <LOD | 35.1 | 9.9 | 4.3 | 89.3 | 6.7 | 56.6 | 6.4 |
| 205-03 | <LOD | 44.55 | 803.6 | 290 | <LOD | 41.7 | 16.6 | 5.7 | 132.2 | 9.4 | 109.8 | 9.3 |
| 205-04 | <LOD | 45.75 | <LOD | 330 | <LOD | 31.65 | 24.6 | 6.2 | 176.4 | 10.2 | 88.9 | 9 |
| 206-01 | <LOD | 45.15 | <LOD | 405 | <LOD | 51.45 | 12.8 | 4.6 | 164 | 8 | 28.2 | 5.8 |
| 206-02 | <LOD | 45.15 | <LOD | 435 | <LOD | 32.1 | 6.5 | 4 | 106.3 | 6.5 | 22.4 | 5.3 |
| 206-03 | <LOD | 87.6 | 7155.2 | 710 | <LOD | 55.05 | 21.9 | 6 | 162.9 | 10.1 | 36.3 | 7.7 |
| 206-04 | <LOD | 48.6 | <LOD | 390 | <LOD | 37.35 | 14.3 | 4.4 | 156.5 | 7.4 | 29 | 5.4 |
| 207-01 | <LOD | 48 | <LOD | 375 | <LOD | 39 | 19.3 | 4.9 | 136.4 | 7.8 | 26.6 | 6 |
| 207-02 | <LOD | 54.15 | 568.4 | 300 | <LOD | 34.95 | 25.7 | 6 | 115.5 | 9 | 28.1 | 7.4 |
| 207-03 | <LOD | 53.1 | 1540 | 350 | <LOD | 45.75 | 18.4 | 5.7 | 105.4 | 8.5 | 16.7 | 6.9 |
| 207-04 | <LOD | 45 | <LOD | 375 | <LOD | 37.8 | 15.6 | 4.9 | 105.6 | 7.5 | 17.2 | 6 |
| 208-01 | <LOD | 47.25 | 2689.6 | 310 | <LOD | 63.6 | 9.6 | 3.8 | 104.3 | 6 | 14.6 | 4.6 |
| 208-02 | <LOD | 41.55 | <LOD | 345 | <LOD | 62.1 | 7.3 | 2.5 | 9 | 2.7 | <LOD | 4.2 |
| 208-03 | <LOD | 87.9 | 9894.4 | 710 | <LOD | 43.65 | 14.9 | 5.1 | 102 | 8 | 14.7 | 6.8 |
| 208-04 | <LOD | 42.15 | 618 | 250 | <LOD | 42.45 | 12.5 | 4 | 100.3 | 6.1 | 14 | 4.8 |
| 209-01 | <LOD | 43.8 | <LOD | 360 | <LOD | 32.55 | 20.5 | 5.1 | 196.1 | 8.8 | 31.9 | 6.1 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 209-02 | <LOD | 61.8 | <LOD | 540 | <LOD | 30.15 | 23 | 6.6 | 180.4 | 11.1 | 30.1 | 8 |
| 209-03 | <LOD | 37.5 | <LOD | 360 | <LOD | 38.55 | 17.8 | 5.3 | 204.3 | 9.4 | 31.9 | 6.4 |
| 209-04 | <LOD | 50.4 | <LOD | 435 | <LOD | 38.85 | 20.7 | 6.3 | 206.6 | 11.1 | 37.2 | 7.8 |
| 210-01 | <LOD | 44.55 | <LOD | 420 | <LOD | 47.4 | 16.9 | 5.3 | 120.1 | 8.3 | 21.7 | 6.5 |
| 210-02 | <LOD | 48.6 | 716.8 | 250 | <LOD | 39.9 | 25 | 5.1 | 140 | 8 | 32.7 | 6.3 |
| 210-03 | <LOD | 37.05 | 409.6 | 200 | <LOD | 32.4 | 8.1 | 3.9 | 164.6 | 6.9 | 30.6 | 4.9 |
| 210-04 | <LOD | 44.85 | 916.8 | 280 | <LOD | 43.8 | 17.2 | 4.9 | 149.5 | 8.2 | 26.3 | 6.1 |
| 211-01 | <LOD | 47.85 | 1760 | 280 | <LOD | 31.2 | 16.3 | 4.7 | 147.8 | 7.9 | 30.5 | 5.9 |
| 211-02 | <LOD | 40.5 | <LOD | 360 | <LOD | 45.45 | 16.9 | 5.1 | 157.9 | 8.5 | 29.2 | 6.3 |
| 211-03 | <LOD | 44.25 | <LOD | 405 | <LOD | 37.5 | 15.4 | 4.9 | 147.2 | 8.2 | 28.6 | 6.1 |
| 211-04 | <LOD | 40.65 | 1049.6 | 260 | <LOD | 33.9 | 13.4 | 4.3 | 150.3 | 7.3 | 29.4 | 5.4 |
| 212-01 | <LOD | 42.9 | <LOD | 345 | <LOD | 30.9 | 18.6 | 4.7 | 171.5 | 7.8 | 24.6 | 5.5 |
| 212-02 | <LOD | 43.5 | 764.4 | 260 | <LOD | 32.55 | 16 | 4.9 | 180.2 | 8.4 | 24.3 | 5.8 |
| 212-03 | <LOD | 57.45 | 2200 | 320 | <LOD | 43.95 | 12 | 5 | 182.1 | 8.9 | 30.5 | 6.4 |
| 212-04 | <LOD | 46.2 | <LOD | 360 | <LOD | 33.45 | 16.5 | 4.7 | 150 | 7.7 | 21.9 | 5.5 |
| 213-01 | <LOD | 43.65 | 424.4 | 230 | <LOD | 30.45 | 10.9 | 4.1 | 188.4 | 7.3 | 29 | 5 |
| 213-02 | <LOD | 46.8 | <LOD | 375 | <LOD | 37.65 | 21.5 | 5 | 209.4 | 8.8 | 31.4 | 5.9 |
| 213-03 | <LOD | 40.65 | <LOD | 300 | <LOD | 37.8 | 14.6 | 4.2 | 201.1 | 7.6 | 30.7 | 5.1 |
| 213-04 | <LOD | 47.55 | <LOD | 360 | <LOD | 49.05 | 15.9 | 4.6 | 221.6 | 8.4 | 29.8 | 5.4 |
| 214-01 | <LOD | 41.1 | <LOD | 345 | <LOD | 32.85 | 6.8 | 4 | 164.3 | 7.2 | 22.8 | 5 |
| 214-02 | <LOD | 40.35 | <LOD | 345 | <LOD | 30.15 | 17 | 4.7 | 148.6 | 7.7 | 22.8 | 5.6 |
| 214-03 | <LOD | 41.1 | <LOD | 375 | <LOD | 31.8 | 19.4 | 4.7 | 160.1 | 7.9 | 18.4 | 5.4 |
| 214-04 | <LOD | 78.75 | 1220 | 450 | <LOD | 35.55 | 23.9 | 6.7 | 125.3 | 10.4 | 22.1 | 8.1 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 215-01 | <LOD | 55.2 | 1939.2 | 340 | <LOD | 37.35 | 23.3 | 5.1 | 150.7 | 8.2 | 30.5 | 6.2 |
| 215-02 | <LOD | 36.3 | <LOD | 330 | <LOD | 31.95 | 9 | 4.2 | 150.8 | 7.3 | 27.6 | 5.4 |
| 215-03 | <LOD | 36.3 | <LOD | 330 | <LOD | 30.9 | 15.2 | 4.7 | 132.5 | 7.4 | 14.9 | 5.4 |
| 215-04 | <LOD | 47.1 | <LOD | 435 | <LOD | 36.3 | 18.8 | 5.5 | 144.2 | 8.8 | 26.4 | 6.7 |
| 216-01 | <LOD | 47.85 | 408.2 | 270 | <LOD | 36.3 | 18.5 | 4.8 | 124 | 7.4 | 20.9 | 5.8 |
| 216-02 | <LOD | 61.5 | <LOD | 450 | <LOD | 49.65 | 17.5 | 4.6 | 109.4 | 7.2 | 19.8 | 5.7 |
| 216-03 | <LOD | 37.5 | <LOD | 345 | <LOD | 37.95 | 16.5 | 4.5 | 127.4 | 7.3 | 23.2 | 5.6 |
| 216-04 | <LOD | 56.85 | 949.6 | 310 | <LOD | 43.5 | 15.1 | 4.3 | 99.5 | 6.7 | 22 | 5.5 |
| 217-01 | <LOD | 46.5 | <LOD | 375 | <LOD | 35.25 | 17.7 | 5 | 192 | 8.7 | 36 | 6.2 |
| 217-02 | <LOD | 40.2 | <LOD | 375 | <LOD | 32.7 | 17.7 | 5.3 | 174 | 9.1 | 36.4 | 6.7 |
| 217-03 | <LOD | 56.25 | <LOD | 480 | <LOD | 61.05 | 13.4 | 4.5 | 107.6 | 7 | 24.3 | 5.6 |
| 217-04 | <LOD | 41.7 | <LOD | 345 | <LOD | 36.9 | 12.2 | 4.2 | 156.2 | 7.1 | 29 | 5.2 |
| 254-01 | <LOD | 32.25 | <LOD | 315 | <LOD | 41.4 | 11.4 | 4.8 | 188 | 8.5 | 23.5 | 5.8 |
| 254-02 | <LOD | 136.2 | 12096 | 1200 | <LOD | 58.05 | 34.8 | 10.9 | 216.4 | 18.3 | 22.2 | 14.3 |
| 254-03 | <LOD | 34.2 | <LOD | 345 | <LOD | 41.4 | 16 | 5.1 | 177.3 | 8.8 | 25.3 | 6.2 |
| 254-04 | <LOD | 53.1 | <LOD | 525 | <LOD | 44.1 | 25.9 | 8.3 | 152.2 | 12.9 | 17.2 | 9.8 |
| 255-01 | <LOD | 55.95 | 1109.6 | 310 | <LOD | 42.9 | 24.5 | 6.6 | 193.6 | 11.6 | 26.6 | 8.7 |
| 255-02 | <LOD | 41.55 | <LOD | 360 | <LOD | 51.3 | 16.1 | 5.3 | 163 | 9.1 | 25.9 | 6.6 |
| 255-03 | <LOD | 78.3 | 2520 | 500 | <LOD | 46.5 | 39.3 | 8.8 | 161.4 | 13.6 | 23.5 | 10.4 |
| 255-04 | <LOD | 46.65 | <LOD | 405 | <LOD | 37.05 | 21 | 5.7 | 136.8 | 9 | 14.1 | 6.6 |
| 256-01 | <LOD | 37.65 | <LOD | 345 | <LOD | 37.65 | 14.7 | 5.1 | 196.2 | 9 | 20.5 | 6 |
| 256-02 | <LOD | 60.15 | 1469.6 | 400 | <LOD | 34.05 | 31.2 | 7.7 | 146 | 12 | 21.9 | 9.5 |
| 256-03 | <LOD | 68.25 | 2699.2 | 430 | <LOD | 34.2 | 17.9 | 7.3 | 208.4 | 12.9 | 30.7 | 9.3 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 256-04 | <LOD | 40.95 | <LOD | 330 | <LOD | 35.7 | 19.5 | 5.3 | 187.9 | 9.2 | 32.2 | 6.5 |
| 257-01 | <LOD | 36.3 | <LOD | 315 | <LOD | 29.7 | 14.6 | 5.1 | 163.7 | 8.6 | 28.4 | 6.3 |
| 257-02 | <LOD | 42.75 | <LOD | 345 | <LOD | 48.75 | 16.5 | 5.5 | 149.9 | 9.1 | 15.6 | 6.6 |
| 257-03 | <LOD | 41.4 | <LOD | 315 | <LOD | 37.35 | 19.8 | 5.4 | 171.5 | 9.1 | 28.2 | 6.6 |
| 257-04 | <LOD | 52.95 | <LOD | 435 | <LOD | 36.3 | 19.6 | 6.7 | 158.9 | 11 | 28.6 | 8.4 |
| 258-01 | <LOD | 41.25 | <LOD | 375 | <LOD | 31.35 | 28.7 | 6.6 | 140.6 | 10.3 | 19.8 | 7.8 |
| 258-02 | <LOD | 41.55 | <LOD | 345 | <LOD | 35.1 | 21.7 | 7.1 | 161 | 11.8 | 40.1 | 9.2 |
| 258-03 | <LOD | 39.75 | <LOD | 330 | <LOD | 41.7 | 15.4 | 5.2 | 167.6 | 8.9 | 33.2 | 6.5 |
| 258-04 | <LOD | 42.75 | <LOD | 330 | <LOD | 31.65 | 17 | 5.6 | 164.5 | 9.5 | 22.8 | 6.8 |
| 259-01 | <LOD | 41.7 | <LOD | 405 | <LOD | 29.25 | 15.6 | 5.8 | 155.1 | 9.7 | 20 | 7.1 |
| 259-02 | <LOD | 44.1 | <LOD | 405 | <LOD | 62.55 | 32.3 | 7.1 | 141.4 | 10.8 | 25.7 | 8.4 |
| 259-03 | <LOD | 39.45 | <LOD | 315 | <LOD | 45.3 | 17.7 | 5.1 | 200.1 | 9.1 | 37.1 | 6.3 |
| 259-04 | <LOD | 35.25 | <LOD | 300 | <LOD | 37.95 | 21.9 | 5.8 | 217 | 10.1 | 25.4 | 6.6 |
| 260-01 | <LOD | 46.95 | <LOD | 375 | <LOD | 31.5 | 21.3 | 6.6 | 185.1 | 10.9 | 14.5 | 7.4 |
| 260-02 | <LOD | 88.05 | <LOD | 780 | <LOD | 33.9 | 51.2 | 11.8 | 135.5 | 17.3 | 35.7 | 14.3 |
| 260-03 | <LOD | 33.3 | <LOD | 285 | <LOD | 32.55 | 15.1 | 4.8 | 183.9 | 8.3 | 27.6 | 5.7 |
| 260-04 | <LOD | 46.5 | <LOD | 405 | <LOD | 35.25 | 28.5 | 6.3 | 161.8 | 10.1 | 22.3 | 7.3 |
| 261-01 | <LOD | 29.55 | <LOD | 285 | <LOD | 39 | 12.1 | 4.8 | 181.2 | 8.4 | 26.1 | 5.8 |
| 261-02 | <LOD | 33.75 | <LOD | 285 | <LOD | 34.95 | 18.9 | 4.7 | 199.5 | 8.2 | 29.4 | 5.5 |
| 261-03 | <LOD | 31.95 | <LOD | 255 | <LOD | 45.75 | 10.8 | 4.2 | 173.8 | 7.4 | 25.9 | 5.1 |
| 261-04 | <LOD | 36.75 | <LOD | 315 | <LOD | 37.8 | 15.4 | 5.3 | 157.7 | 8.9 | 26.3 | 6.6 |
| 262-01 | <LOD | 36.3 | <LOD | 315 | <LOD | 51.45 | 11 | 4.4 | 204.8 | 8.1 | 28.7 | 5.4 |
| 262-02 | <LOD | 38.25 | <LOD | 345 | <LOD | 32.1 | 17.6 | 5.5 | 203.5 | 9.7 | 26.8 | 6.5 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 262-03 | <LOD | 43.05 | <LOD | 375 | <LOD | 55.05 | 16.8 | 5.6 | 164.3 | 9.5 | 24.4 | 6.8 |
| 262-04 | <LOD | 37.95 | <LOD | 360 | <LOD | 37.35 | 23.8 | 6.3 | 150.3 | 10 | 24.6 | 7.5 |
| 263-01 | <LOD | 33.9 | <LOD | 330 | <LOD | 29.1 | 13.6 | 5.1 | 173.5 | 8.7 | 25.4 | 6.1 |
| 263-02 | <LOD | 54.45 | 2188.8 | 360 | <LOD | 30.75 | 22.8 | 6.8 | 189.7 | 11.5 | 21 | 8.3 |
| 263-03 | <LOD | 48.45 | <LOD | 405 | <LOD | 35.7 | 21.1 | 6.4 | 165.2 | 10.3 | 23.2 | 7.6 |
| 263-04 | <LOD | 56.55 | <LOD | 450 | <LOD | 32.55 | 27 | 7.1 | 145 | 11.3 | 28.3 | 8.6 |
| 264-01 | <LOD | 34.35 | <LOD | 300 | <LOD | 31.95 | 11.2 | 4.6 | 166.9 | 7.9 | 22.8 | 5.5 |
| 264-02 | <LOD | 46.2 | <LOD | 435 | <LOD | 43.35 | 24.6 | 7 | 162.4 | 11.4 | 29.4 | 8.6 |
| 264-03 | <LOD | 72.75 | 5417.6 | 560 | <LOD | 32.7 | 33.2 | 7.4 | 140.9 | 11.2 | 24.5 | 8.9 |
| 264-04 | <LOD | 54.15 | 540.4 | 290 | <LOD | 37.5 | 25.1 | 6.6 | 180.8 | 10.7 | 21.6 | 7.5 |
| 265-01 | <LOD | 38.55 | <LOD | 315 | <LOD | 62.1 | 21.6 | 5.6 | 210.8 | 9.8 | 53.7 | 7.3 |
| 265-02 | <LOD | 51.3 | <LOD | 405 | <LOD | 43.65 | 24.4 | 6.4 | 143.5 | 10.3 | 35.4 | 8.2 |
| 265-03 | <LOD | 44.1 | <LOD | 405 | <LOD | 42.45 | 20.1 | 6.3 | 173.3 | 10.7 | 59.9 | 8.6 |
| 266-01 | <LOD | 66.15 | <LOD | 540 | <LOD | 41.1 | 38.7 | 10.9 | 145.7 | 16.5 | 33.8 | 13.4 |
| 266-02 | <LOD | 47.7 | <LOD | 420 | <LOD | 29.7 | 29.7 | 7.7 | 151 | 12.3 | 42.6 | 9.9 |
| 266-03 | <LOD | 33.45 | <LOD | 285 | <LOD | 32.85 | 10.2 | 4.3 | 172.4 | 7.6 | 22.7 | 5.2 |
| 266-04 | <LOD | 81.45 | <LOD | 735 | <LOD | 34.5 | 43 | 12 | 90.9 | 17.1 | 55.8 | 16.3 |
| 268-01 | <LOD | 42.75 | <LOD | 360 | <LOD | 36.15 | 10.4 | 4.1 | 77.8 | 5.9 | 8.5 | 4.8 |
| 268-02 | <LOD | 55.05 | 1969.6 | 350 | <LOD | 32.7 | 32.1 | 8.5 | 174.2 | 13.8 | 24.6 | 10.7 |
| 268-03 | <LOD | 80.25 | <LOD | 615 | <LOD | 32.7 | 39.6 | 8.3 | 86.2 | 11.6 | 42 | 10.6 |
| 268-04 | <LOD | 45.9 | <LOD | 390 | <LOD | 41.1 | 18 | 5.4 | 162.7 | 9.1 | 29.9 | 6.7 |
| 370-01 | <LOD | 55.95 | 4009.6 | 380 | <LOD | 63.6 | 19.4 | 6 | 167.2 | 10.1 | 51.7 | 8.3 |
| 370-02 | <LOD | 60.6 | 2520 | 370 | <LOD | 53.7 | 27.3 | 6.6 | 197.9 | 11.2 | 11.8 | 7.4 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cd | +/- 3SD | Ag | +/- 3SD | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **370-03** | <LOD | 52.05 | <LOD | 435 | <LOD | 43.2 | 14.3 | 6.4 | 101.9 | 10 | 54.5 | 9.3 |
| **370-04** | <LOD | 45.3 | 902.4 | 250 | <LOD | 58.05 | 24.7 | 5.4 | 182.7 | 9.1 | 45.4 | 6.8 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| 001-01 | 39.8 | 8.5 | 395 | 30 | <LOD | 12 | <LOD | 37.5 | <LOD | 14.1 | 264.2 | 40.9 |
| 001-02 | 37.5 | 11.7 | 501.6 | 43.5 | <LOD | 18 | <LOD | 52.2 | <LOD | 19.35 | 235.4 | 56.3 |
| 001-03 | 33.8 | 8.8 | 2049.6 | 66.4 | <LOD | 13.95 | <LOD | 76.65 | <LOD | 20.85 | 522 | 58.5 |
| 001-04 | 42.5 | 7.4 | 681.6 | 33.6 | <LOD | 10.5 | <LOD | 40.05 | <LOD | 12.6 | 292.4 | 36.6 |
| 002-01 | 28.7 | 7.9 | 66.6 | 18.1 | <LOD | 11.25 | <LOD | 22.35 | <LOD | 11.55 | 105.5 | 34.1 |
| 002-02 | 39.8 | 8.9 | 34.5 | 17.6 | <LOD | 12.3 | <LOD | 22.65 | <LOD | 12.9 | 113.1 | 45.3 |
| 002-03 | 37.3 | 13.3 | 47.3 | 27.5 | <LOD | 19.8 | <LOD | 35.55 | <LOD | 21.9 | <LOD | 82.05 |
| 002-04 | 32.9 | 6.4 | 46.6 | 13.6 | <LOD | 8.85 | <LOD | 17.25 | <LOD | 9.15 | 114.6 | 27.1 |
| 003-01 | 25.5 | 7.3 | 728.8 | 36 | <LOD | 10.8 | <LOD | 43.95 | <LOD | 14.25 | 606 | 47.7 |
| 003-02 | 32.1 | 6.2 | 162.1 | 17.7 | <LOD | 8.85 | <LOD | 22.2 | <LOD | 9.75 | 165 | 28.2 |
| 003-03 | 22.6 | 8.9 | 1160 | 52.7 | <LOD | 14.4 | <LOD | 63.15 | <LOD | 19.05 | 1500 | 81.3 |
| 003-04 | 17.3 | 9.7 | 613.6 | 43.9 | <LOD | 16.35 | <LOD | 52.2 | <LOD | 17.7 | 380.4 | 56.4 |
| 004-01 | 36.6 | 7.7 | 1069.6 | 43.9 | <LOD | 11.7 | <LOD | 51.6 | <LOD | 15 | 1069.6 | 59 |
| 004-02 | 35.9 | 7.5 | 393.2 | 27.3 | <LOD | 10.5 | <LOD | 33.75 | <LOD | 12.6 | 402.2 | 39.8 |
| 004-03 | 33.3 | 7.2 | 1249.6 | 44.6 | <LOD | 11.55 | <LOD | 53.1 | <LOD | 15.75 | 1800 | 70.9 |
| 004-04 | <LOD | 12.45 | 149.6 | 25.5 | <LOD | 14.1 | <LOD | 31.65 | <LOD | 15.3 | 135.7 | 43.3 |
| 005-01 | 30.1 | 9.2 | 764.8 | 44.1 | <LOD | 13.95 | <LOD | 52.95 | <LOD | 18.45 | 253.8 | 46.5 |
| 005-02 | 28.2 | 7.7 | 1460 | 50.5 | <LOD | 12.3 | <LOD | 59.85 | <LOD | 17.4 | 1369.6 | 67.7 |
| 005-03 | 27.4 | 5.9 | 517.6 | 26.4 | <LOD | 8.55 | <LOD | 32.55 | <LOD | 10.2 | 461.2 | 35.7 |
| 005-04 | 23.2 | 7.7 | 546.4 | 34.3 | <LOD | 11.85 | <LOD | 42.6 | <LOD | 15.15 | 676.8 | 53.5 |
| 006-01 | 47.5 | 9.1 | 242.2 | 26 | <LOD | 12 | <LOD | 32.4 | <LOD | 13.8 | 254.6 | 54.5 |
| 006-02 | 45.8 | 7.9 | 80.6 | 17.2 | <LOD | 10.05 | <LOD | 21.75 | <LOD | 11.1 | 72.3 | 35.6 |

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## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 006-03 | 42.2 | 9.3 | 71.8 | 20 | <LOD | 12.6 | <LOD | 25.05 | <LOD | 13.2 | 89.3 | 37.8 |
| 006-04 | 45.8 | 8 | 96.2 | 18.1 | <LOD | 10.65 | <LOD | 22.8 | <LOD | 11.4 | 89 | 30.8 |
| 007-01 | 37.2 | 6.5 | 75.1 | 14.9 | <LOD | 9.15 | <LOD | 18.3 | <LOD | 9.6 | 107.7 | 26.5 |
| 007-02 | 36.6 | 6.6 | 36.1 | 13.3 | <LOD | 8.7 | 20.2 | 11.7 | <LOD | 9.6 | 103.8 | 27 |
| 007-03 | 45.6 | 8.3 | 74 | 17.6 | <LOD | 10.35 | <LOD | 22.05 | <LOD | 12 | 82.9 | 30.7 |
| 007-04 | 40.8 | 7.2 | 100.3 | 16.9 | <LOD | 9.6 | <LOD | 21.6 | <LOD | 11.1 | 120.7 | 29.2 |
| 008-01 | 65.2 | 9.1 | 27.3 | 15.4 | <LOD | 10.65 | 20.3 | 13.5 | <LOD | 11.7 | 144.1 | 33.3 |
| 008-02 | 69.6 | 11.1 | <LOD | 27.45 | <LOD | 13.05 | <LOD | 23.85 | <LOD | 14.25 | <LOD | 59.7 |
| 008-03 | 69.6 | 9.2 | <LOD | 22.05 | <LOD | 10.65 | <LOD | 19.35 | <LOD | 11.4 | 66.2 | 30.5 |
| 008-04 | 68.1 | 8.5 | <LOD | 19.95 | <LOD | 10.05 | <LOD | 17.55 | <LOD | 10.8 | 51.4 | 26.5 |
| 023-01 | 28.9 | 10.8 | 636.8 | 48.4 | <LOD | 17.1 | <LOD | 58.95 | <LOD | 21 | 322.4 | 65.9 |
| 023-02 | 54.1 | 9.2 | 175.1 | 23.1 | <LOD | 11.25 | <LOD | 28.95 | <LOD | 12.75 | 128 | 38.8 |
| 023-03 | 35.8 | 8 | 674.4 | 37.6 | <LOD | 11.7 | <LOD | 45.75 | <LOD | 15 | 181.4 | 38.5 |
| 023-04 | 37 | 7.6 | 744.8 | 36.6 | <LOD | 11.25 | <LOD | 43.8 | <LOD | 13.65 | 277.8 | 39.7 |
| 024-01 | 39.5 | 7.3 | <LOD | 19.35 | <LOD | 9.9 | <LOD | 16.65 | <LOD | 10.05 | 79.3 | 35.5 |
| 024-02 | 39.9 | 8 | <LOD | 21.15 | <LOD | 10.35 | 26.5 | 12.9 | <LOD | 11.55 | 63.3 | 33.4 |
| 024-03 | 28.5 | 5 | <LOD | 13.8 | <LOD | 6.75 | <LOD | 11.85 | <LOD | 7.65 | 696 | 42.1 |
| 024-04 | 46.8 | 11.3 | <LOD | 30.3 | <LOD | 15.15 | <LOD | 26.55 | <LOD | 16.5 | 726.8 | 79.6 |
| 034-01 | 57.6 | 8.6 | 51.6 | 16.6 | <LOD | 10.95 | 23.1 | 14.6 | <LOD | 11.7 | 168.3 | 45.4 |
| 034-02 | 26.9 | 7.7 | 67.2 | 17.9 | <LOD | 11.85 | <LOD | 23.25 | <LOD | 12.6 | 117.5 | 36.7 |
| 034-03 | 71 | 8 | 43.9 | 14 | <LOD | 9.15 | <LOD | 17.7 | <LOD | 9.6 | 152.7 | 30.7 |
| 034-04 | 45.2 | 9 | 105.3 | 20.9 | <LOD | 12.45 | <LOD | 26.25 | <LOD | 12.15 | 161.3 | 41.5 |
| 035-01 | 31.8 | 7.7 | 278.2 | 25.4 | <LOD | 11.1 | 41.6 | 21.8 | <LOD | 13.2 | 484 | 66.8 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 035-02 | 39.9 | 6.5 | 282.8 | 21.4 | <LOD | 9.15 | <LOD | 26.7 | <LOD | 10.35 | 429.2 | 37.1 |
| 035-03 | 41.1 | 6.5 | 197.6 | 18.6 | <LOD | 8.85 | <LOD | 23.55 | <LOD | 10.05 | 396 | 36.1 |
| 035-04 | NA | | NA | | NA | | NA | | NA | | NA | |
| 037-01 | 29.7 | 6.5 | 200.3 | 20 | <LOD | 9.75 | 28.8 | 17.1 | <LOD | 11.1 | 318.4 | 37.1 |
| 037-02 | 37.6 | 6.6 | 504 | 27.6 | <LOD | 9.45 | <LOD | 34.2 | <LOD | 12.3 | 884.8 | 49.8 |
| 037-03 | 31.3 | 6.2 | 391.4 | 24.5 | <LOD | 9 | <LOD | 30.15 | <LOD | 11.1 | 839.2 | 47.8 |
| 037-04 | 27.3 | 7 | 314.2 | 25.5 | <LOD | 10.5 | <LOD | 32.25 | <LOD | 12.9 | 509.2 | 47.7 |
| 038-01 | 87.3 | 8.6 | 58.7 | 14.9 | <LOD | 8.7 | 25.8 | 13.1 | <LOD | 10.35 | 160.7 | 29.7 |
| 038-02 | 69.1 | 10.4 | <LOD | 24.3 | <LOD | 11.25 | 27.1 | 14.5 | <LOD | 12.75 | 95.8 | 38.8 |
| 038-03 | 57.9 | 8.1 | 73.1 | 16.6 | <LOD | 9.45 | <LOD | 21.3 | <LOD | 10.5 | 264.4 | 34.9 |
| 038-04 | 71.7 | 10.1 | <LOD | 24.15 | <LOD | 10.95 | <LOD | 20.85 | <LOD | 12.6 | <LOD | 51.3 |
| 068-01 | <LOD | 23.7 | <LOD | 72.3 | <LOD | 27.9 | 96.9 | 40 | <LOD | 39.6 | 11699.2 | 380 |
| 068-02 | 38.1 | 8.7 | <LOD | 27.75 | <LOD | 11.55 | <LOD | 23.7 | <LOD | 14.4 | 2209.6 | 89.5 |
| 068-03 | 48.7 | 13.6 | <LOD | 42.9 | <LOD | 18 | 50 | 24.9 | <LOD | 21.75 | 2228.8 | 120 |
| 068-04 | <LOD | 21.75 | <LOD | 66.3 | <LOD | 25.2 | 93.3 | 38 | <LOD | 34.05 | 9516.8 | 310 |
| 086-01 | 46 | 10.3 | <LOD | 28.8 | <LOD | 13.95 | <LOD | 24.75 | <LOD | 15.3 | 89.5 | 52.3 |
| 086-02 | 35.2 | 7.2 | 29.5 | 14.2 | <LOD | 9.75 | <LOD | 18.15 | <LOD | 10.8 | 123.8 | 33.6 |
| 086-03 | 37.9 | 8 | <LOD | 22.8 | <LOD | 11.55 | <LOD | 19.95 | <LOD | 11.7 | 86.3 | 34.4 |
| 086-04 | 37.7 | 8.9 | <LOD | 23.1 | <LOD | 12.15 | 29.5 | 14.2 | <LOD | 13.05 | 87.5 | 52.2 |
| 087-01 | <LOD | 8.55 | 1249.6 | 45.8 | <LOD | 10.8 | 81.9 | 37 | <LOD | 15.3 | 1300 | 63.6 |
| 087-02 | <LOD | 19.8 | 2739.2 | 110 | <LOD | 26.85 | 324 | 87.9 | <LOD | 40.35 | 4627.2 | 190 |
| 087-03 | 24.5 | 9.1 | 2179.2 | 72 | <LOD | 15.75 | 156.2 | 56.8 | <LOD | 24 | 2680 | 100 |
| 087-04 | <LOD | 15.6 | 2059.2 | 84.4 | <LOD | 19.2 | 121.5 | 66.2 | <LOD | 30.6 | 3360 | 150 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 088-01 | 34.3 | 8.6 | <LOD | 25.35 | <LOD | 11.55 | <LOD | 21.6 | <LOD | 12.75 | <LOD | 61.35 |
| 088-02 | 42.1 | 7.6 | 74.3 | 16.6 | <LOD | 9.6 | 23.7 | 14.4 | <LOD | 10.8 | 141.8 | 31.8 |
| 088-03 | 60 | 8.7 | <LOD | 21.9 | <LOD | 10.95 | <LOD | 18.9 | <LOD | 11.1 | 87.7 | 32.3 |
| 088-04 | 34.9 | 7.7 | 112.2 | 19.2 | <LOD | 10.35 | 33.8 | 16.9 | <LOD | 12.45 | 68.2 | 31.9 |
| 089-01 | 36.8 | 9.4 | <LOD | 26.85 | <LOD | 13.2 | <LOD | 22.35 | <LOD | 14.4 | 96.7 | 39.8 |
| 089-02 | 42.2 | 9.3 | 42.7 | 18.6 | <LOD | 12.15 | <LOD | 24 | <LOD | 14.25 | 67.5 | 43.2 |
| 089-03 | 45.6 | 8.9 | <LOD | 24.3 | <LOD | 11.1 | <LOD | 21 | <LOD | 12.45 | <LOD | 46.95 |
| 089-04 | 36.4 | 7.6 | 45 | 15.8 | <LOD | 10.05 | <LOD | 20.55 | <LOD | 11.25 | <LOD | 55.65 |
| 090-01 | 27.5 | 10.1 | <LOD | 28.95 | <LOD | 14.25 | 29.6 | 17.2 | <LOD | 15.9 | 104.5 | 46 |
| 090-02 | <LOD | 20.85 | 57.7 | 29.8 | <LOD | 19.65 | <LOD | 37.35 | <LOD | 21.3 | 124.1 | 63.8 |
| 090-03 | 32.7 | 7.3 | 522.8 | 30.1 | <LOD | 10.2 | 53.1 | 25.2 | <LOD | 13.2 | 995.2 | 55 |
| 090-04 | <LOD | 14.55 | 183.2 | 28.2 | <LOD | 15.6 | <LOD | 35.85 | <LOD | 16.35 | 488 | 58.2 |
| 091-01 | <LOD | 16.95 | 232.4 | 34.1 | <LOD | 16.8 | 44.5 | 29.3 | <LOD | 19.05 | 298.8 | 92.2 |
| 091-02 | 12.9 | 8 | 93.3 | 20.3 | <LOD | 12.3 | <LOD | 26.1 | <LOD | 13.5 | 143 | 37.5 |
| 091-03 | <LOD | 12.3 | 245.2 | 28.5 | <LOD | 13.5 | 38.5 | 24.3 | <LOD | 15.9 | 394 | 52.7 |
| 091-04 | <LOD | 16.95 | 230 | 34.8 | <LOD | 16.8 | <LOD | 44.4 | <LOD | 19.8 | 469.2 | 70.5 |
| 092-01 | 30.4 | 8.3 | 262.8 | 27 | <LOD | 11.85 | <LOD | 34.35 | <LOD | 15.3 | 527.6 | 51.4 |
| 092-02 | <LOD | 16.95 | 2360 | 96.8 | <LOD | 22.35 | 201.6 | 75.8 | <LOD | 32.7 | 2988.8 | 140 |
| 092-03 | <LOD | 13.5 | 251 | 30.5 | <LOD | 14.25 | 44.6 | 26 | <LOD | 16.65 | 267.6 | 50.7 |
| 092-04 | <LOD | 14.55 | 512 | 41.1 | <LOD | 15.45 | 61.7 | 34.5 | <LOD | 19.5 | 875.2 | 74.5 |
| 093-01 | 43.8 | 8.4 | <LOD | 20.7 | <LOD | 10.65 | 32.8 | 12.9 | <LOD | 11.85 | <LOD | 50.25 |
| 093-02 | 38.7 | 8.4 | 49.7 | 17.5 | <LOD | 11.1 | 35.5 | 15.8 | <LOD | 12.6 | 186.8 | 40.5 |
| 093-03 | 37.1 | 8.7 | <LOD | 24.3 | <LOD | 11.55 | 22.1 | 14.3 | <LOD | 13.2 | 160.8 | 41.1 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 093-04 | 32.3 | 8.8 | <LOD | 25.05 | <LOD | 12 | 25 | 14.9 | <LOD | 13.8 | 85.9 | 40 |
| 094-01 | 51 | 8.4 | 30.4 | 15.2 | <LOD | 10.05 | 21.4 | 13.4 | <LOD | 10.95 | 150.3 | 36.2 |
| 094-02 | 40.3 | 10 | <LOD | 27.9 | <LOD | 13.65 | 30 | 16.6 | <LOD | 13.95 | 112.7 | 45 |
| 094-03 | 41.3 | 8.9 | 278.8 | 27.6 | <LOD | 11.85 | <LOD | 33.3 | <LOD | 13.35 | 229.4 | 43.8 |
| 094-04 | 41.7 | 8.7 | 98.7 | 19.9 | <LOD | 11.25 | <LOD | 25.2 | <LOD | 12.6 | 103.3 | 39.2 |
| 095-01 | 82.8 | 14.3 | 63.8 | 26.7 | <LOD | 18.15 | <LOD | 33.75 | <LOD | 19.5 | 144.9 | 66.5 |
| 095-02 | 92.2 | 10.2 | 30.4 | 16.2 | <LOD | 11.1 | <LOD | 20.85 | <LOD | 11.55 | 124.8 | 37.3 |
| 095-03 | 93.6 | 14.7 | <LOD | 35.4 | <LOD | 16.8 | <LOD | 29.4 | <LOD | 18 | <LOD | 108.15 |
| 095-04 | 93.3 | 9.5 | 23.6 | 14.6 | <LOD | 10.2 | <LOD | 18.75 | <LOD | 10.65 | 131.5 | 33.2 |
| 096-01 | 66.6 | 11 | 47.3 | 20.2 | <LOD | 13.05 | 44 | 18.4 | <LOD | 15.3 | 174.3 | 46.8 |
| 096-02 | 70.8 | 8.5 | 77.4 | 16.3 | <LOD | 9.45 | <LOD | 21 | <LOD | 11.1 | 127 | 32.1 |
| 096-03 | 53.9 | 9 | 53 | 17.2 | <LOD | 10.8 | 29.9 | 15.3 | <LOD | 12 | 161.4 | 36.6 |
| 096-04 | 86.1 | 9.2 | 40 | 15 | <LOD | 9.3 | 21.3 | 13.1 | <LOD | 10.65 | 130.2 | 33.7 |
| 097-01 | 99.1 | 11.4 | <LOD | 26.1 | <LOD | 11.4 | 27.1 | 15.4 | <LOD | 13.5 | 272.4 | 45.5 |
| 097-02 | 35.6 | 6.9 | <LOD | 16.95 | <LOD | 9.15 | 19.8 | 10.3 | <LOD | 9.9 | <LOD | 40.65 |
| 097-03 | 77.1 | 14.4 | <LOD | 33.3 | <LOD | 17.25 | 30 | 19.9 | <LOD | 19.8 | 153.1 | 57.6 |
| 097-04 | 103.1 | 10 | 55.1 | 16.5 | <LOD | 9.9 | 25.9 | 14.3 | <LOD | 11.1 | 200.1 | 35.3 |
| 098-01 | 92.9 | 10.3 | <LOD | 21.6 | <LOD | 10.65 | 21.1 | 12.7 | <LOD | 11.25 | 90.8 | 32.7 |
| 098-02 | 100.8 | 11 | <LOD | 22.8 | <LOD | 10.8 | 27.9 | 13.8 | <LOD | 12.6 | <LOD | 63.75 |
| 098-03 | 100 | 11.8 | <LOD | 24 | <LOD | 11.25 | 32.9 | 14.8 | <LOD | 14.1 | <LOD | 80.1 |
| 098-04 | 88.2 | 12.6 | <LOD | 26.7 | <LOD | 13.2 | 48.7 | 17 | <LOD | 15.75 | 102.7 | 48.1 |
| 099-01 | 79.5 | 10.5 | 26.3 | 17.1 | <LOD | 11.1 | <LOD | 22.2 | <LOD | 12.9 | 169.1 | 41.2 |
| 099-02 | 85.2 | 10.7 | <LOD | 24.6 | <LOD | 11.55 | 25.1 | 14.6 | <LOD | 13.35 | 88.8 | 38.4 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 099-03 | 74.6 | 10.8 | <LOD | 24.9 | <LOD | 11.85 | 26.3 | 14.8 | <LOD | 13.65 | 81.8 | 39 |
| 099-04 | 86.3 | 10.1 | <LOD | 23.1 | <LOD | 10.5 | 27.4 | 13.8 | <LOD | 12.15 | 106.1 | 33.9 |
| 100-01 | 76.1 | 9.1 | 33.1 | 15.4 | <LOD | 10.05 | <LOD | 19.65 | <LOD | 11.1 | 171.3 | 39.5 |
| 100-02 | 55.9 | 9.4 | 49.3 | 18.1 | <LOD | 12.15 | <LOD | 23.55 | <LOD | 12.6 | 83.3 | 37.3 |
| 100-03 | 51 | 7.8 | 98 | 17.3 | <LOD | 9.45 | <LOD | 22.05 | <LOD | 10.8 | 269 | 36.9 |
| 100-04 | 40.5 | 11.2 | 84.5 | 25.1 | <LOD | 16.05 | <LOD | 31.8 | <LOD | 18 | 146.2 | 58.5 |
| 101-01 | 41.8 | 12.4 | 47.8 | 25.5 | <LOD | 17.4 | <LOD | 31.95 | <LOD | 20.25 | 126.5 | 56.5 |
| 101-02 | 48.8 | 9.4 | 101.1 | 21.1 | <LOD | 12.3 | <LOD | 27.3 | <LOD | 13.65 | 146.9 | 42.5 |
| 101-03 | 45.4 | 12.6 | <LOD | 36.15 | <LOD | 17.1 | <LOD | 31.65 | <LOD | 20.25 | 88.2 | 56.3 |
| 101-04 | 53.5 | 8.8 | 73.6 | 18 | <LOD | 10.5 | 30.5 | 15.8 | <LOD | 11.7 | 148.9 | 37.1 |
| 102-01 | 49.6 | 22.4 | <LOD | 67.35 | <LOD | 31.2 | <LOD | 56.4 | <LOD | 34.5 | <LOD | 180 |
| 102-02 | 60 | 9.9 | 147.5 | 23.3 | <LOD | 12.6 | <LOD | 28.95 | <LOD | 13.8 | 217.8 | 41.3 |
| 102-03 | 51.2 | 9.3 | 192.5 | 24.6 | <LOD | 12.15 | <LOD | 30.9 | <LOD | 13.8 | 213 | 44.7 |
| 102-04 | 56.9 | 11.4 | 58.3 | 22.6 | <LOD | 14.1 | <LOD | 28.95 | <LOD | 16.2 | 124.2 | 53.1 |
| 103-01 | 72.8 | 11.6 | 100.7 | 24.2 | <LOD | 14.55 | <LOD | 30.6 | <LOD | 15.75 | 359.2 | 86.3 |
| 103-02 | 68.9 | 13.7 | <LOD | 36.75 | <LOD | 18.75 | <LOD | 30.45 | <LOD | 18.75 | <LOD | 79.2 |
| 103-03 | 70.2 | 13.9 | <LOD | 34.35 | <LOD | 17.25 | <LOD | 30.6 | <LOD | 20.1 | <LOD | 125.25 |
| 103-04 | 62.9 | 15.2 | 77.8 | 31 | <LOD | 20.25 | <LOD | 38.1 | <LOD | 21.75 | 118.9 | 75.2 |
| 104-01 | 70.1 | 12.7 | 71 | 24.6 | <LOD | 16.2 | <LOD | 32.4 | <LOD | 17.7 | 217 | 60.8 |
| 104-02 | 57.7 | 9.4 | 100.7 | 20.5 | <LOD | 12.45 | <LOD | 25.5 | <LOD | 12.75 | 69.8 | 38.8 |
| 104-03 | 56.4 | 12.1 | 388.2 | 37.9 | <LOD | 15.75 | <LOD | 47.25 | <LOD | 19.8 | 216.2 | 60.4 |
| 104-04 | 59.3 | 13.8 | 510.8 | 46.3 | <LOD | 19.2 | <LOD | 55.65 | <LOD | 22.8 | 323.4 | 86.4 |
| 105-01 | 25.9 | 6.4 | <LOD | 18 | <LOD | 9.6 | <LOD | 15.15 | <LOD | 9.15 | <LOD | 38.25 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 105-02 | 33.4 | 8.8 | 28.8 | 17.6 | <LOD | 12.9 | <LOD | 22.35 | <LOD | 13.5 | <LOD | 54.6 |
| 105-03 | 68.7 | 9.7 | <LOD | 23.4 | <LOD | 11.25 | <LOD | 20.25 | <LOD | 12.45 | <LOD | 50.85 |
| 105-04 | 59.1 | 8.5 | 21.8 | 14.5 | <LOD | 10.05 | <LOD | 18.75 | <LOD | 11.55 | 53 | 29.9 |
| 106-01 | 39.1 | 9.5 | 292.8 | 29.3 | <LOD | 12.9 | <LOD | 36.6 | <LOD | 15.45 | 391.6 | 50.3 |
| 106-02 | 49.1 | 9.2 | 445.2 | 32.6 | <LOD | 12.3 | <LOD | 39.6 | <LOD | 15.3 | 607.2 | 62.5 |
| 106-03 | 38.9 | 7.4 | 957.6 | 40 | <LOD | 10.95 | <LOD | 46.8 | <LOD | 13.95 | 908 | 54 |
| 106-04 | 39.3 | 7.4 | 641.6 | 33 | <LOD | 10.5 | <LOD | 39.75 | <LOD | 13.2 | 540.4 | 45 |
| 107-01 | 34.7 | 6.5 | 720 | 32.4 | <LOD | 9.6 | <LOD | 39.45 | <LOD | 12.75 | 968.8 | 51.9 |
| 107-02 | 56.6 | 7.5 | 812.4 | 34.4 | <LOD | 9.9 | <LOD | 41.4 | <LOD | 12.9 | 1169.6 | 55.7 |
| 107-03 | 54.6 | 9 | 555.6 | 34.5 | <LOD | 12 | <LOD | 42.45 | <LOD | 14.4 | 926.4 | 61.6 |
| 107-04 | 20.2 | 6.3 | 955.2 | 39 | <LOD | 10.5 | <LOD | 46.5 | <LOD | 14.7 | 1708.8 | 70.4 |
| 108-01 | 64.9 | 8 | 29.3 | 13.5 | <LOD | 9.3 | 18.5 | 11.8 | <LOD | 9.75 | 96.8 | 29.1 |
| 108-02 | 65.8 | 10.3 | 73.5 | 20.4 | <LOD | 12.3 | <LOD | 25.65 | <LOD | 14.1 | 272.2 | 67.8 |
| 108-03 | 60.9 | 8.9 | 37.5 | 15.9 | <LOD | 10.65 | <LOD | 20.1 | <LOD | 11.55 | 191 | 39.1 |
| 108-04 | 50.4 | 6.6 | 37 | 12 | <LOD | 8.1 | <LOD | 15.15 | <LOD | 8.7 | 264 | 31.6 |
| 110-01 | <LOD | 16.8 | 105.7 | 30 | <LOD | 17.85 | <LOD | 37.05 | <LOD | 20.55 | 499.6 | 74.7 |
| 110-02 | 26.7 | 10.2 | 328 | 35 | <LOD | 15.45 | <LOD | 43.5 | <LOD | 18.9 | 2049.6 | 100 |
| 110-03 | 16.7 | 11.1 | 37.4 | 24.2 | <LOD | 16.8 | <LOD | 31.35 | <LOD | 18.75 | 240.2 | 60.3 |
| 110-04 | <LOD | 14.85 | 79.7 | 25.8 | <LOD | 15.45 | <LOD | 33.45 | <LOD | 17.4 | 837.6 | 91.8 |
| 111-01 | <LOD | 12.75 | 483.6 | 37.6 | <LOD | 13.2 | 76.4 | 31.6 | <LOD | 18.6 | 3347.2 | 120 |
| 111-02 | <LOD | 8.7 | 327 | 26.6 | <LOD | 10.35 | 35.8 | 22.4 | <LOD | 13.95 | 1420 | 69 |
| 111-03 | 13.1 | 6.3 | 321.8 | 25.6 | <LOD | 10.65 | 45.8 | 21.7 | <LOD | 13.5 | 2560 | 85.5 |
| 111-04 | 15.7 | 7.2 | 324.2 | 27.6 | <LOD | 11.7 | 59.8 | 23.6 | <LOD | 14.7 | 3040 | 100 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 112-01 | <LOD | 10.8 | 203.5 | 26.9 | <LOD | 12.15 | <LOD | 33.6 | <LOD | 15.3 | 735.2 | 66 |
| 112-02 | <LOD | 16.95 | 572 | 48.1 | <LOD | 17.55 | 74.1 | 40.4 | <LOD | 23.1 | 764 | 81.4 |
| 112-03 | <LOD | 11.25 | 294.8 | 31.7 | <LOD | 12.75 | <LOD | 39.75 | <LOD | 16.35 | 743.6 | 69.7 |
| 112-04 | <LOD | 11.25 | 794.8 | 42.6 | <LOD | 12.75 | <LOD | 51.75 | <LOD | 17.1 | 968 | 69 |
| 113-01 | 26.6 | 9.7 | <LOD | 28.8 | <LOD | 13.35 | 25.7 | 17 | <LOD | 15.9 | 261 | 54.4 |
| 113-02 | <LOD | 7.2 | 56.9 | 13.6 | <LOD | 8.55 | <LOD | 17.7 | <LOD | 9.6 | 343.8 | 36.2 |
| 113-03 | <LOD | 9 | 103.2 | 18.4 | <LOD | 9.6 | 27.2 | 15.9 | <LOD | 11.4 | 459.6 | 45.9 |
| 113-04 | 18.3 | 9.6 | <LOD | 30.45 | <LOD | 14.25 | 34.5 | 18.4 | <LOD | 16.2 | 381.4 | 75.1 |
| 114-01 | 33.4 | 6.6 | <LOD | 17.55 | <LOD | 8.85 | <LOD | 15.15 | <LOD | 9.45 | 61.4 | 34.5 |
| 114-02 | 25.7 | 7.9 | <LOD | 22.8 | <LOD | 11.55 | 25.6 | 13.8 | <LOD | 12.6 | 199.5 | 40.4 |
| 114-03 | 23 | 8.5 | <LOD | 26.85 | <LOD | 12.15 | <LOD | 23.55 | <LOD | 15.75 | 2329.6 | 100 |
| 114-04 | 37.7 | 8 | <LOD | 21.15 | <LOD | 10.5 | <LOD | 18.6 | <LOD | 11.4 | 204.1 | 37 |
| 115-01 | 26.3 | 6.7 | <LOD | 19.65 | <LOD | 9.3 | <LOD | 16.8 | <LOD | 10.65 | 54.3 | 27 |
| 115-02 | 38.9 | 8.5 | <LOD | 23.4 | <LOD | 11.55 | <LOD | 20.4 | <LOD | 12.15 | 154.2 | 36.3 |
| 115-03 | 38.9 | 8.8 | 50.7 | 18.6 | <LOD | 12.3 | 29 | 16.8 | <LOD | 20.55 | 12198.4 | 230 |
| 115-04 | 35.6 | 9 | 29.6 | 17.9 | <LOD | 12.45 | <LOD | 22.35 | <LOD | 13.8 | 166 | 46 |
| 116-01 | 32.1 | 8.8 | <LOD | 25.5 | <LOD | 12.15 | <LOD | 21.75 | <LOD | 14.25 | <LOD | 54.6 |
| 116-02 | 24.7 | 7.9 | <LOD | 22.95 | <LOD | 12.15 | <LOD | 19.8 | <LOD | 12.3 | <LOD | 52.2 |
| 116-03 | 35.1 | 8.1 | <LOD | 22.5 | <LOD | 12 | <LOD | 19.5 | <LOD | 11.85 | 62.4 | 37.1 |
| 116-04 | 62.3 | 8 | <LOD | 19.05 | <LOD | 9 | 23.7 | 11.4 | <LOD | 9.9 | 68.7 | 29.2 |
| 117-01 | 26.5 | 11.2 | <LOD | 31.65 | <LOD | 16.8 | <LOD | 28.05 | <LOD | 17.55 | 89.4 | 53.4 |
| 117-02 | 46.2 | 9.2 | <LOD | 24.9 | <LOD | 12.75 | 23.1 | 14.7 | <LOD | 12.9 | 87.1 | 40.4 |
| 117-03 | 34.5 | 9.7 | <LOD | 28.2 | <LOD | 13.5 | <LOD | 24.75 | <LOD | 14.55 | <LOD | 83.1 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117-04 | 28 | 7.3 | 43.4 | 15.6 | <LOD | 10.5 | <LOD | 19.95 | <LOD | 11.55 | <LOD | 48.15 |
| 118-01 | <LOD | 37.5 | <LOD | 76.95 | <LOD | 40.05 | <LOD | 63.6 | <LOD | 42 | <LOD | 315 |
| 118-02 | 36.7 | 10.5 | <LOD | 30.9 | <LOD | 14.4 | <LOD | 27.45 | <LOD | 16.2 | <LOD | 99.45 |
| 118-03 | 44.8 | 12.8 | <LOD | 36.9 | <LOD | 18.15 | <LOD | 30.45 | <LOD | 19.05 | <LOD | 92.7 |
| 118-04 | 43.2 | 8.6 | 35.3 | 16.7 | <LOD | 11.4 | <LOD | 21.45 | <LOD | 12.75 | 81.1 | 44.4 |
| 119-01 | 45.9 | 9.6 | <LOD | 26.4 | <LOD | 13.2 | <LOD | 22.5 | <LOD | 14.55 | <LOD | 59.1 |
| 119-02 | 40.9 | 8.4 | <LOD | 22.35 | <LOD | 11.25 | <LOD | 19.8 | <LOD | 12.15 | <LOD | 51.6 |
| 119-03 | 44 | 9.3 | <LOD | 25.65 | <LOD | 12.6 | <LOD | 21.45 | <LOD | 13.5 | <LOD | 60.75 |
| 119-04 | 29.9 | 10.7 | <LOD | 32.55 | <LOD | 16.2 | <LOD | 27.15 | <LOD | 16.95 | <LOD | 73.05 |
| 120-01 | 22.5 | 6 | 1169.6 | 40.5 | <LOD | 10.5 | <LOD | 48.75 | <LOD | 14.4 | 935.2 | 51.2 |
| 120-02 | 65.1 | 9.4 | 265.4 | 25.9 | <LOD | 11.55 | 66 | 22.8 | <LOD | 14.25 | 351.8 | 47.5 |
| 120-03 | 39.9 | 7.5 | 142.1 | 19.2 | <LOD | 10.05 | 28 | 16.5 | <LOD | 10.8 | 197.9 | 36.6 |
| 120-04 | 55 | 7 | 150.3 | 17 | <LOD | 8.1 | <LOD | 21.3 | <LOD | 9.6 | 219.8 | 31.6 |
| 121-01 | 42.6 | 7.3 | 549.2 | 30.3 | <LOD | 10.2 | <LOD | 36.6 | <LOD | 12.6 | 525.6 | 45 |
| 121-02 | 42.7 | 7.2 | 1309.6 | 44.1 | <LOD | 11.1 | <LOD | 52.65 | <LOD | 14.7 | 841.6 | 50.3 |
| 121-03 | 35.8 | 5.9 | 684.8 | 28.9 | <LOD | 8.55 | <LOD | 34.8 | <LOD | 11.25 | 698.8 | 42.5 |
| 121-04 | 33.1 | 8.3 | 782.8 | 40.5 | <LOD | 12.3 | <LOD | 49.05 | <LOD | 16.05 | 736 | 67.7 |
| 122-01 | 44.6 | 7.9 | 414.8 | 28.8 | <LOD | 11.1 | <LOD | 34.05 | <LOD | 12.3 | 233 | 36.2 |
| 122-02 | 54.4 | 8 | 652.4 | 33.3 | <LOD | 10.8 | <LOD | 40.8 | <LOD | 13.05 | 540.4 | 44.3 |
| 122-03 | 38.2 | 8.7 | 38.3 | 17.6 | <LOD | 11.85 | <LOD | 22.65 | <LOD | 12.15 | <LOD | 50.7 |
| 122-04 | 42.8 | 6.5 | 52.3 | 13.4 | <LOD | 8.85 | <LOD | 16.65 | <LOD | 8.85 | 122.9 | 26.5 |
| 123-01 | 54.8 | 7.1 | 137.2 | 16.9 | <LOD | 8.85 | <LOD | 21.45 | <LOD | 9.75 | 127 | 28 |
| 123-02 | 71.1 | 10 | 175.6 | 23.6 | <LOD | 12.15 | <LOD | 29.25 | <LOD | 13.65 | 400.6 | 47.8 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123-03 | 53.1 | 7.7 | 148.4 | 18.8 | <LOD | 9.45 | <LOD | 23.4 | <LOD | 10.35 | 137.6 | 31.6 |
| 123-04 | 46.5 | 6.9 | 391.4 | 24.7 | <LOD | 9.15 | <LOD | 30 | <LOD | 10.8 | 318.4 | 34.5 |
| 124-01 | NA | | NA | | NA | | NA | | NA | | NA | |
| 124-02 | 25.5 | 6 | 407 | 25.2 | <LOD | 9.3 | <LOD | 30.75 | <LOD | 11.4 | 996 | 52.1 |
| 124-03 | 28.6 | 5.8 | 360.8 | 22.8 | <LOD | 8.7 | 30 | 19.1 | <LOD | 10.5 | 680.4 | 42.9 |
| 124-04 | 25.2 | 6.8 | 1460 | 48.9 | <LOD | 11.55 | <LOD | 58.2 | <LOD | 16.35 | 1880 | 73.8 |
| 125-01 | 63.5 | 7 | 28.3 | 11.5 | <LOD | 7.95 | <LOD | 15 | <LOD | 8.4 | 60.8 | 22.8 |
| 125-02 | 60.5 | 6.8 | 19 | 10.9 | <LOD | 7.65 | 14.5 | 9.6 | <LOD | 8.55 | 63.4 | 22.8 |
| 125-03 | 68.4 | 8 | <LOD | 18.9 | <LOD | 9.15 | <LOD | 16.35 | <LOD | 9.75 | 53.2 | 30.2 |
| 125-04 | 54 | 7 | 30.4 | 12.3 | <LOD | 8.7 | <LOD | 16.2 | <LOD | 9 | 76.9 | 26.8 |
| 126-01 | 46.7 | 9.1 | 285.8 | 26.9 | <LOD | 12.45 | 38.4 | 22.8 | <LOD | 13.95 | 399 | 45.3 |
| 126-02 | 50.2 | 8.3 | 141.9 | 19.9 | <LOD | 10.5 | <LOD | 25.2 | <LOD | 11.7 | 251 | 36.9 |
| 126-03 | 39.7 | 5.7 | 37.4 | 11.1 | <LOD | 7.5 | 18.2 | 9.9 | <LOD | 8.25 | 96.2 | 21.8 |
| 126-04 | 34.3 | 7.9 | 89.5 | 18.7 | <LOD | 11.4 | <LOD | 24 | <LOD | 12.45 | 131.4 | 33.9 |
| 127-01 | 22.6 | 6.4 | 1329.6 | 44.6 | <LOD | 10.95 | <LOD | 52.8 | <LOD | 14.85 | 1429.6 | 63.7 |
| 127-02 | 22.9 | 5.9 | 1569.6 | 45.2 | <LOD | 10.2 | <LOD | 53.1 | <LOD | 14.4 | 1449.6 | 58.4 |
| 127-03 | 25.5 | 6.8 | 907.2 | 38.8 | <LOD | 11.1 | <LOD | 46.35 | <LOD | 14.55 | 1819.2 | 73.1 |
| 127-04 | 34.2 | 7.9 | 642 | 35.1 | <LOD | 11.25 | <LOD | 43.2 | <LOD | 15 | 1140 | 65.9 |
| 128-01 | 47.1 | 7.3 | 74.8 | 15.6 | <LOD | 9.6 | <LOD | 20.1 | <LOD | 10.35 | 225 | 34.7 |
| 128-02 | 31.8 | 6.4 | 201.5 | 19.4 | <LOD | 9 | <LOD | 24.15 | <LOD | 10.35 | 296.6 | 35 |
| 128-03 | 29 | 6 | 641.6 | 29.8 | <LOD | 8.85 | <LOD | 36 | <LOD | 11.7 | 1060 | 52.2 |
| 128-04 | 23.7 | 7.9 | 892.8 | 43.9 | <LOD | 13.05 | <LOD | 52.8 | <LOD | 17.4 | 1429.6 | 79.7 |
| 129-01 | 36.1 | 6.6 | 1380 | 43.4 | <LOD | 10.2 | <LOD | 50.55 | <LOD | 14.25 | 1049.6 | 52.6 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 129-02 | 14.7 | 6.1 | 972 | 39.2 | <LOD | 10.65 | <LOD | 46.8 | <LOD | 14.25 | 1739.2 | 73.1 |
| 129-03 | 31.8 | 6.4 | 544.8 | 28.5 | <LOD | 9.45 | <LOD | 34.5 | <LOD | 12 | 1209.6 | 56.3 |
| 129-04 | 49.3 | 9.1 | 1880 | 60.9 | <LOD | 13.65 | <LOD | 70.95 | <LOD | 20.55 | 4147.2 | 120 |
| 130-01 | 25.9 | 5.9 | 672 | 30.4 | <LOD | 9.45 | 47.2 | 25.1 | <LOD | 12.9 | 2120 | 69.7 |
| 130-02 | 58.4 | 9.4 | 106.5 | 20.5 | <LOD | 12 | <LOD | 26.25 | <LOD | 13.5 | 296 | 44.5 |
| 130-03 | 28.4 | 6 | 643.6 | 29.8 | <LOD | 9.3 | <LOD | 36.15 | <LOD | 11.55 | 1180 | 53.8 |
| 130-04 | 24.4 | 6 | 453.2 | 26.1 | <LOD | 9.45 | <LOD | 32.4 | <LOD | 11.7 | 1140 | 53.7 |
| 131-01 | 52.9 | 12.5 | 61.5 | 25.4 | <LOD | 16.8 | <LOD | 32.4 | <LOD | 18.9 | 106.4 | 59.4 |
| 131-02 | 77.8 | 8.7 | 106.4 | 17.6 | <LOD | 9.9 | <LOD | 22.2 | <LOD | 11.25 | 147.4 | 33 |
| 131-03 | 54.6 | 10.3 | <LOD | 26.7 | <LOD | 13.35 | 25.2 | 15.9 | <LOD | 15.15 | <LOD | 63.6 |
| 131-04 | 53.1 | 7.7 | <LOD | 20.25 | <LOD | 10.5 | <LOD | 16.8 | <LOD | 10.2 | <LOD | 45.9 |
| 132-01 | 40.4 | 6.8 | 523.6 | 27.9 | <LOD | 9.75 | <LOD | 34.2 | <LOD | 12 | 1040 | 53.9 |
| 132-02 | 58.6 | 6.7 | 212.4 | 18.1 | <LOD | 7.95 | <LOD | 22.65 | <LOD | 9.3 | 390 | 34.1 |
| 132-03 | 34.9 | 6.5 | 497.2 | 27.4 | <LOD | 9 | <LOD | 33.3 | <LOD | 11.55 | 1140 | 54.8 |
| 132-04 | 37.1 | 6.4 | 478.4 | 26.3 | <LOD | 9.15 | <LOD | 32.4 | <LOD | 10.95 | 972.8 | 50.3 |
| 133-01 | 53.4 | 5.8 | 112.8 | 13.2 | <LOD | 7.2 | 19.6 | 11.3 | <LOD | 8.1 | 132 | 23.9 |
| 133-02 | 53.1 | 6.8 | 160.2 | 17.2 | <LOD | 8.55 | <LOD | 21.6 | <LOD | 9.75 | 142 | 27.9 |
| 133-03 | 39.9 | 6.1 | 574.4 | 27.1 | <LOD | 8.55 | <LOD | 33.3 | <LOD | 10.95 | 512 | 37 |
| 133-04 | 48 | 6.8 | 225.4 | 19.6 | <LOD | 8.7 | <LOD | 24.15 | <LOD | 9.9 | 215.4 | 30.4 |
| 134-01 | 31.8 | 6.8 | 444 | 27.8 | <LOD | 10.05 | <LOD | 33.75 | <LOD | 12 | 660.4 | 54.4 |
| 134-02 | 39.4 | 6.7 | 448.4 | 26.4 | <LOD | 9.15 | <LOD | 32.55 | <LOD | 11.4 | 656.4 | 46.1 |
| 134-03 | 36 | 6.7 | 140.9 | 18 | <LOD | 9.15 | <LOD | 23.1 | <LOD | 10.65 | 286.2 | 40.1 |
| 134-04 | 25.7 | 6.1 | 500 | 27.7 | <LOD | 9.45 | <LOD | 34.35 | <LOD | 12.15 | 1080 | 57.2 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 136-01 | 45.2 | 8.8 | 158.6 | 22.5 | <LOD | 12.15 | <LOD | 27.6 | <LOD | 13.2 | 346.2 | 45.3 |
| 136-02 | 71.3 | 12 | 38.6 | 21.2 | <LOD | 15 | <LOD | 27.9 | <LOD | 15.9 | 76.5 | 44.7 |
| 136-03 | 17.9 | 5.5 | 171.1 | 18 | <LOD | 8.4 | <LOD | 21.75 | <LOD | 9.6 | 131.1 | 29.3 |
| 136-04 | 40.9 | 9.5 | 167.1 | 25 | <LOD | 12.9 | <LOD | 30.6 | <LOD | 14.7 | 435.2 | 54.2 |
| 137-01 | 46.8 | 7.6 | 330.2 | 25 | <LOD | 10.35 | <LOD | 31.2 | <LOD | 12.15 | 248 | 40.9 |
| 137-02 | 49 | 13 | 140.5 | 30.7 | <LOD | 17.85 | <LOD | 39.75 | <LOD | 21.3 | 108 | 53.8 |
| 137-03 | 63 | 9.6 | 152.5 | 22.5 | <LOD | 11.7 | <LOD | 27.9 | <LOD | 12.6 | 123.4 | 36.4 |
| 137-04 | 51.5 | 8.1 | 640.4 | 33.8 | <LOD | 11.4 | <LOD | 40.95 | <LOD | 12.9 | 353.8 | 39.9 |
| 138-01 | 24.2 | 7.1 | 647.2 | 35.1 | <LOD | 10.95 | <LOD | 42.15 | <LOD | 13.95 | 1220 | 63.4 |
| 138-02 | 82.2 | 11.2 | <LOD | 24.9 | <LOD | 12 | <LOD | 22.05 | <LOD | 14.85 | 67.7 | 36.6 |
| 138-03 | 53.7 | 7.3 | 61 | 14.4 | <LOD | 8.85 | <LOD | 18.3 | <LOD | 9.75 | 68.9 | 25.4 |
| 138-04 | 32.8 | 8.7 | 96.9 | 21.1 | <LOD | 12.3 | <LOD | 26.55 | <LOD | 13.8 | 188.6 | 42.3 |
| 139-01 | 46.7 | 8.7 | 40.6 | 16.8 | <LOD | 11.55 | <LOD | 21.3 | <LOD | 11.85 | <LOD | 45.6 |
| 139-02 | 30 | 7.8 | 47.7 | 16.5 | <LOD | 10.65 | <LOD | 21 | <LOD | 12.15 | 49.5 | 31.6 |
| 139-03 | 61.3 | 11.5 | <LOD | 30.6 | <LOD | 15 | <LOD | 25.8 | <LOD | 15.15 | 88 | 43.6 |
| 139-04 | 36.6 | 7.1 | 34.2 | 14.1 | <LOD | 9.75 | <LOD | 17.55 | <LOD | 9.75 | <LOD | 38.55 |
| 140-01 | 47.1 | 10.7 | 60.9 | 21.6 | <LOD | 13.65 | <LOD | 26.55 | <LOD | 15.3 | <LOD | 59.7 |
| 140-02 | 52.7 | 11.8 | 80.3 | 24.5 | <LOD | 15.6 | <LOD | 29.7 | <LOD | 17.55 | 200 | 49.7 |
| 140-03 | 49.8 | 9.6 | <LOD | 25.65 | <LOD | 13.05 | <LOD | 21.75 | <LOD | 13.05 | 63.2 | 37.4 |
| 140-04 | 47.1 | 6.9 | <LOD | 18 | <LOD | 8.4 | <LOD | 15.6 | <LOD | 8.85 | 41.3 | 24.5 |
| 141-01 | 21.2 | 5.9 | 371.6 | 24.7 | <LOD | 9.15 | 42.8 | 20.8 | <LOD | 11.25 | 593.2 | 43.3 |
| 141-02 | 76.1 | 8.8 | 65.9 | 16.2 | <LOD | 9.75 | <LOD | 20.7 | <LOD | 11.4 | 128.9 | 30.7 |
| 141-03 | 20.5 | 5.5 | 352.6 | 22.8 | <LOD | 8.4 | <LOD | 27.75 | <LOD | 10.2 | 399.4 | 34.7 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 141-04 | 39.6 | 7.1 | 288.2 | 23.4 | <LOD | 9.75 | <LOD | 28.8 | <LOD | 11.25 | 516.8 | 41.4 |
| 142-01 | 61.7 | 8.3 | <LOD | 20.55 | <LOD | 9.75 | <LOD | 17.25 | <LOD | 10.35 | 84.9 | 28.4 |
| 142-02 | 75.5 | 12 | <LOD | 28.05 | <LOD | 13.95 | 30.3 | 16.9 | <LOD | 15.75 | <LOD | 79.95 |
| 142-03 | 56.1 | 12.7 | 45.9 | 24.2 | <LOD | 16.2 | 33.8 | 21.5 | <LOD | 19.5 | 91.6 | 47.3 |
| 142-04 | 69 | 9 | <LOD | 20.85 | <LOD | 10.2 | 25.8 | 12.6 | <LOD | 11.25 | 59.4 | 29.3 |
| 143-01 | 56 | 10.5 | 67.2 | 21.2 | <LOD | 13.35 | <LOD | 26.85 | <LOD | 14.85 | 122.1 | 41.9 |
| 143-02 | 59.2 | 6.6 | 29.9 | 11.5 | <LOD | 7.8 | <LOD | 14.85 | <LOD | 8.55 | 76.9 | 22.4 |
| 143-03 | 51.6 | 16.9 | 50.4 | 33 | <LOD | 23.4 | <LOD | 41.7 | <LOD | 24.9 | <LOD | 107.1 |
| 143-04 | 45.5 | 7.3 | 80.1 | 15.9 | <LOD | 9.75 | 22.5 | 13.8 | <LOD | 10.05 | 204.8 | 32.2 |
| 144-01 | <LOD | 17.85 | 332.8 | 38.7 | <LOD | 17.85 | <LOD | 47.1 | <LOD | 21.9 | 521.6 | 75.2 |
| 144-02 | 32.9 | 10.4 | 259.8 | 32 | <LOD | 15.3 | <LOD | 38.85 | <LOD | 16.65 | 202.5 | 53.7 |
| 144-03 | 27.9 | 8 | 538 | 34 | <LOD | 12.45 | 43.7 | 28.2 | <LOD | 14.55 | 622.8 | 51.9 |
| 144-04 | 24.2 | 8.3 | 678.8 | 39.9 | <LOD | 13.35 | <LOD | 48.75 | <LOD | 16.8 | 448 | 50.5 |
| 145-01 | 32.1 | 8.5 | 525.6 | 35.4 | <LOD | 12.75 | <LOD | 43.5 | <LOD | 15.15 | 452 | 50.4 |
| 145-02 | 66.3 | 10.4 | 109.4 | 21.9 | <LOD | 12.75 | <LOD | 27.45 | <LOD | 14.25 | 156.2 | 40.3 |
| 145-03 | 46.6 | 9.2 | 316.6 | 29.1 | <LOD | 12.45 | <LOD | 35.55 | <LOD | 13.5 | 312.2 | 45.4 |
| 145-04 | 48.4 | 6.7 | 249.4 | 20.2 | <LOD | 8.85 | <LOD | 24.3 | <LOD | 10.05 | 219.6 | 29 |
| 146-01 | 42.6 | 9.8 | 128 | 23.4 | <LOD | 12.15 | <LOD | 30 | <LOD | 14.85 | 142.5 | 43.7 |
| 146-02 | 45 | 7.8 | 89.3 | 17.4 | <LOD | 10.2 | <LOD | 21.9 | <LOD | 10.8 | 83.3 | 29.2 |
| 146-03 | 55.3 | 8.1 | 199.8 | 21.3 | <LOD | 9.45 | <LOD | 26.1 | <LOD | 11.1 | 141.2 | 32.6 |
| 146-04 | 45.1 | 7.1 | 95.1 | 16.1 | <LOD | 9.45 | <LOD | 20.4 | <LOD | 9.75 | 85.5 | 26.9 |
| 147-01 | 50.8 | 7.1 | 100.7 | 16 | <LOD | 9 | <LOD | 20.25 | <LOD | 9.6 | 107.7 | 26.5 |
| 147-02 | 56.1 | 7.4 | 226.6 | 20.5 | <LOD | 9.3 | <LOD | 24.75 | <LOD | 9.9 | 169.5 | 29 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 147-03 | 47.8 | 9.1 | 194.1 | 24.3 | <LOD | 11.7 | <LOD | 29.25 | <LOD | 12.9 | 93.8 | 36.1 |
| 147-04 | NA | | NA | | NA | | NA | | NA | | NA | |
| 148-01 | 24.9 | 7.6 | 130.2 | 20.7 | <LOD | 10.65 | <LOD | 25.5 | <LOD | 12.9 | <LOD | 77.55 |
| 148-02 | NA | | NA | | NA | | NA | | NA | | NA | |
| 148-03 | 55.4 | 6.1 | 151.8 | 14.9 | <LOD | 7.5 | <LOD | 18.3 | <LOD | 8.1 | 138.8 | 22.3 |
| 148-04 | 24.6 | 5.1 | 49.4 | 11.8 | <LOD | 7.65 | 15.4 | 10.2 | <LOD | 7.65 | 42.5 | 20 |
| 149-01 | 17.9 | 9.2 | 359.6 | 34.6 | <LOD | 14.85 | <LOD | 42 | <LOD | 17.55 | 969.6 | 73 |
| 149-02 | 34 | 7 | 158.4 | 19.2 | <LOD | 9.6 | <LOD | 23.7 | <LOD | 11.7 | 256.4 | 34.4 |
| 149-03 | 15.4 | 10.1 | 341 | 36.6 | <LOD | 16.8 | <LOD | 45.6 | <LOD | 19.35 | 187.2 | 51.1 |
| 149-04 | <LOD | 25.05 | 747.2 | 69.3 | <LOD | 26.7 | <LOD | 83.25 | <LOD | 32.85 | 271 | 86.5 |
| 150-01 | 29.9 | 5.8 | 443.2 | 24.2 | <LOD | 8.55 | <LOD | 29.85 | <LOD | 10.35 | 290.6 | 31.1 |
| 150-02 | 41.5 | 7.4 | 418.8 | 27.3 | <LOD | 10.35 | <LOD | 33.45 | <LOD | 11.7 | 386.2 | 52.4 |
| 150-03 | 29 | 9.1 | 136.2 | 24.2 | <LOD | 13.05 | <LOD | 30.3 | <LOD | 14.85 | 171.8 | 43.7 |
| 150-04 | 34.7 | 6.3 | 638.8 | 29.7 | <LOD | 9.45 | <LOD | 35.4 | <LOD | 11.7 | 488.4 | 37.7 |
| 151-01 | 32.2 | 9.7 | 56.9 | 21 | <LOD | 14.25 | <LOD | 25.95 | <LOD | 15.3 | 66.2 | 41.1 |
| 151-02 | 28.3 | 9.2 | 1200 | 53.4 | <LOD | 15 | <LOD | 64.5 | <LOD | 20.25 | 2640 | 100 |
| 151-03 | 28.1 | 5.7 | 170.8 | 17.3 | <LOD | 8.25 | 25.2 | 14.7 | <LOD | 9.3 | 183.1 | 27.1 |
| 151-04 | 33.6 | 6.4 | 288.8 | 22.1 | <LOD | 9.45 | <LOD | 27.45 | <LOD | 10.2 | 275.2 | 32.8 |
| 152-01 | 39 | 7.7 | 98.3 | 18.2 | <LOD | 10.95 | <LOD | 23.1 | <LOD | 10.8 | 101 | 30.6 |
| 152-02 | 25.3 | 5.9 | 603.2 | 29.1 | <LOD | 9.15 | <LOD | 34.95 | <LOD | 11.55 | 408 | 35.5 |
| 152-03 | 30.4 | 5.8 | 158.9 | 16.8 | <LOD | 8.1 | <LOD | 21.3 | <LOD | 9.45 | 172.1 | 26.9 |
| 152-04 | 17.4 | 8.1 | 326.4 | 30.8 | <LOD | 12.75 | <LOD | 38.25 | <LOD | 14.4 | 201.6 | 42.8 |
| 154-01 | 36.8 | 6.9 | 106.8 | 16.6 | <LOD | 9.15 | <LOD | 21 | <LOD | 9.6 | 94.9 | 26.8 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 154-02 | 30.1 | 6.9 | 674.8 | 33.6 | <LOD | 10.35 | <LOD | 40.5 | <LOD | 13.2 | 394 | 39.7 |
| 154-03 | 33.7 | 6.2 | 212.6 | 19 | <LOD | 8.55 | 25.3 | 16.1 | <LOD | 10.05 | 195.9 | 29 |
| 154-04 | 36.9 | 6.1 | 322 | 21.2 | <LOD | 8.4 | <LOD | 26.25 | <LOD | 9.75 | 152 | 26 |
| 188-01 | 36.8 | 6 | 26.3 | 11.4 | <LOD | 7.95 | 23.1 | 10.3 | <LOD | 8.55 | 48 | 21.8 |
| 188-02 | 24.3 | 5.2 | 49.2 | 11.9 | <LOD | 7.35 | <LOD | 15.45 | <LOD | 8.25 | 79.1 | 22 |
| 188-03 | 74.8 | 8.8 | 22.4 | 13.6 | <LOD | 9.45 | <LOD | 17.7 | <LOD | 11.25 | <LOD | 49.35 |
| 188-04 | 65.9 | 10.6 | <LOD | 26.1 | <LOD | 12.6 | <LOD | 22.5 | <LOD | 13.65 | <LOD | 67.8 |
| 189-01 | 42.1 | 7.4 | <LOD | 18.75 | <LOD | 9.3 | 17.2 | 11.2 | <LOD | 10.35 | 62.6 | 29 |
| 189-02 | 60.2 | 7.2 | <LOD | 17.4 | <LOD | 8.1 | <LOD | 15 | <LOD | 8.55 | 64.7 | 25.2 |
| 189-03 | NA | | NA | | NA | | NA | | NA | | NA | |
| 189-04 | 53.1 | 7 | <LOD | 16.65 | <LOD | 8.1 | <LOD | 14.4 | <LOD | 9.15 | 47.2 | 24.5 |
| 190-01 | 44.6 | 7.8 | <LOD | 19.2 | <LOD | 10.05 | 24.7 | 11.6 | <LOD | 10.2 | 59.6 | 32.7 |
| 190-02 | 50 | 10 | <LOD | 25.95 | <LOD | 12.3 | <LOD | 22.65 | <LOD | 13.5 | <LOD | 85.65 |
| 190-03 | 55.6 | 7.7 | <LOD | 18.15 | <LOD | 8.85 | 19.9 | 10.9 | <LOD | 9.9 | 66.7 | 26.6 |
| 190-04 | 58.2 | 8.7 | <LOD | 21.3 | <LOD | 10.35 | 21.7 | 12.7 | <LOD | 11.4 | 85.5 | 31.2 |
| 191-01 | 56.6 | 6.5 | <LOD | 15.75 | <LOD | 7.65 | 14.3 | 9.3 | <LOD | 7.95 | <LOD | 55.2 |
| 191-02 | 62.6 | 6.2 | <LOD | 14.4 | <LOD | 7.05 | <LOD | 12.15 | <LOD | 7.05 | 53.8 | 19.2 |
| 191-03 | 34.4 | 5 | <LOD | 13.35 | <LOD | 6.45 | <LOD | 11.4 | <LOD | 6.3 | <LOD | 25.35 |
| 191-04 | 34.1 | 4.8 | 17 | 8.6 | <LOD | 6 | <LOD | 10.95 | <LOD | 6.6 | 33.7 | 17.9 |
| 192-01 | 48.4 | 7.5 | <LOD | 18.45 | <LOD | 9 | <LOD | 16.35 | <LOD | 10.2 | 63.1 | 26.2 |
| 192-02 | 52.6 | 7.1 | <LOD | 17.25 | <LOD | 8.85 | <LOD | 15 | <LOD | 9.3 | <LOD | 34.95 |
| 192-03 | 54.5 | 8.2 | 27.4 | 14.3 | <LOD | 10.35 | <LOD | 17.85 | <LOD | 10.65 | <LOD | 39.15 |
| 192-04 | 53.9 | 7.1 | <LOD | 17.1 | <LOD | 8.55 | <LOD | 14.7 | <LOD | 9 | <LOD | 46.35 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193-01 | 53.7 | 6.1 | <LOD | 14.25 | <LOD | 7.5 | <LOD | 12.3 | <LOD | 7.5 | 66.4 | 20.8 |
| 193-02 | 48 | 5.4 | <LOD | 12.9 | <LOD | 6.45 | <LOD | 11.25 | <LOD | 6.9 | 35.3 | 17.5 |
| 193-03 | 51.3 | 7.4 | <LOD | 18 | <LOD | 9 | <LOD | 15.6 | <LOD | 9.9 | <LOD | 45.45 |
| 193-04 | 51.1 | 6.8 | <LOD | 16.05 | <LOD | 8.4 | 19.7 | 9.7 | <LOD | 8.85 | 43.5 | 24.5 |
| 194-01 | 61.7 | 7 | <LOD | 16.2 | <LOD | 7.8 | <LOD | 13.8 | <LOD | 8.1 | 64 | 22.6 |
| 194-02 | 59.2 | 7.5 | 18.9 | 12 | <LOD | 8.25 | <LOD | 15.45 | <LOD | 8.85 | 57.7 | 25 |
| 194-03 | 51 | 6.7 | <LOD | 16.05 | <LOD | 8.25 | <LOD | 13.8 | <LOD | 8.55 | 46 | 22.2 |
| 194-04 | 52.9 | 8.2 | <LOD | 20.25 | <LOD | 10.2 | <LOD | 17.4 | <LOD | 10.35 | 98.2 | 30.3 |
| 195-01 | 62.1 | 8.4 | <LOD | 19.5 | <LOD | 9.6 | 19.6 | 11.6 | <LOD | 10.65 | 72 | 30.3 |
| 195-02 | 77.2 | 9 | <LOD | 20.7 | <LOD | 9.75 | <LOD | 17.85 | <LOD | 10.35 | 94 | 28.6 |
| 195-03 | 73.4 | 8.8 | <LOD | 19.8 | <LOD | 9.9 | <LOD | 17.1 | <LOD | 10.35 | 87.7 | 29.6 |
| 195-04 | 78.4 | 10.3 | <LOD | 23.4 | <LOD | 11.1 | <LOD | 20.1 | <LOD | 12.15 | 64.2 | 32.8 |
| 196-01 | 44 | 6.6 | <LOD | 16.8 | <LOD | 8.4 | <LOD | 14.55 | <LOD | 8.85 | <LOD | 33.3 |
| 196-02 | 81.4 | 8.7 | 27.3 | 13.6 | <LOD | 9.15 | <LOD | 17.1 | <LOD | 10.2 | 67.9 | 26.9 |
| 196-03 | 62.5 | 7.7 | 22.4 | 12.8 | <LOD | 9 | 20.5 | 11.4 | <LOD | 9.75 | 84.6 | 26.4 |
| 196-04 | 50.9 | 6 | 17.5 | 10.1 | <LOD | 7.35 | <LOD | 12.9 | <LOD | 7.8 | 52.1 | 19.6 |
| 197-01 | 55.8 | 9.8 | <LOD | 26.1 | <LOD | 12.6 | <LOD | 22.35 | <LOD | 13.2 | <LOD | 53.55 |
| 197-02 | 58.6 | 8.2 | <LOD | 21 | <LOD | 10.2 | <LOD | 17.85 | <LOD | 10.5 | 72 | 35.9 |
| 197-03 | 61.9 | 7.3 | <LOD | 17.85 | <LOD | 8.7 | 18.3 | 10.6 | <LOD | 9.3 | 79.9 | 27.4 |
| 197-04 | 52.4 | 7.4 | 27.4 | 13.1 | <LOD | 9 | <LOD | 16.5 | <LOD | 9.6 | 75.9 | 27 |
| 198-01 | 54.5 | 10.5 | <LOD | 24.15 | <LOD | 12 | <LOD | 21.6 | <LOD | 13.5 | <LOD | 67.95 |
| 198-02 | 55.4 | 8.2 | <LOD | 19.05 | <LOD | 9.9 | <LOD | 16.95 | <LOD | 10.95 | <LOD | 41.55 |
| 198-03 | 39.3 | 10.5 | <LOD | 28.2 | <LOD | 13.8 | <LOD | 24.45 | <LOD | 15.75 | <LOD | 71.85 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 198-04 | 46.6 | 6.3 | <LOD | 15.75 | <LOD | 7.65 | <LOD | 13.8 | <LOD | 8.25 | 46.6 | 24.4 |
| 199-01 | 82.4 | 9.3 | <LOD | 20.85 | <LOD | 10.35 | <LOD | 18.15 | <LOD | 11.4 | 44.3 | 28.6 |
| 199-02 | 78.6 | 9.3 | <LOD | 20.7 | <LOD | 10.5 | <LOD | 18.15 | <LOD | 11.1 | 68.7 | 30.4 |
| 199-03 | 83.2 | 11.7 | <LOD | 27.3 | <LOD | 13.05 | <LOD | 23.4 | <LOD | 14.1 | <LOD | 54.9 |
| 199-04 | 110.9 | 9.9 | <LOD | 19.5 | <LOD | 9.9 | 23.9 | 11.7 | <LOD | 10.5 | 45.6 | 28.1 |
| 200-01 | 69.4 | 9.4 | <LOD | 22.35 | <LOD | 10.8 | <LOD | 19.65 | <LOD | 11.25 | 81.2 | 36.3 |
| 200-02 | 77.9 | 8.9 | <LOD | 20.7 | <LOD | 9.45 | <LOD | 17.4 | <LOD | 10.35 | 71.4 | 29.1 |
| 200-03 | 84.5 | 9 | <LOD | 21.3 | <LOD | 9.9 | <LOD | 17.85 | <LOD | 10.5 | 66 | 38.8 |
| 200-04 | 68.7 | 9.1 | <LOD | 22.05 | <LOD | 10.8 | <LOD | 18.6 | <LOD | 11.25 | 45.2 | 29.4 |
| 201-01 | 50.4 | 7.3 | 30.3 | 13.3 | <LOD | 9.45 | <LOD | 17.55 | <LOD | 10.2 | 45.5 | 25.8 |
| 201-02 | 56 | 8.9 | 41.9 | 16.7 | <LOD | 11.25 | <LOD | 20.25 | <LOD | 11.55 | 92.1 | 34.2 |
| 201-03 | 43.3 | 6.8 | 42.2 | 13.2 | <LOD | 8.55 | <LOD | 16.05 | <LOD | 9.45 | 59 | 24.9 |
| 201-04 | 54 | 7.8 | 38.2 | 14.4 | <LOD | 9.6 | <LOD | 17.55 | <LOD | 9.9 | 80.6 | 30.3 |
| 202-01 | 56.4 | 7.9 | 40.8 | 14.4 | <LOD | 9.6 | <LOD | 18.15 | <LOD | 10.2 | 64.4 | 28.3 |
| 202-02 | 59.9 | 7.8 | 28.8 | 13.3 | <LOD | 8.55 | <LOD | 16.95 | <LOD | 9.9 | 58.1 | 26.9 |
| 202-03 | 61.4 | 8.4 | 21.5 | 13.9 | <LOD | 9.45 | <LOD | 17.25 | <LOD | 10.5 | 75.9 | 30 |
| 202-04 | 67.3 | 8.5 | 57.1 | 15.4 | <LOD | 10.05 | <LOD | 19.95 | <LOD | 10.05 | 57.6 | 28.5 |
| 203-01 | 59.7 | 10.7 | <LOD | 26.7 | <LOD | 13.8 | <LOD | 22.65 | <LOD | 14.1 | <LOD | 56.4 |
| 203-01 | 55.5 | 8.9 | <LOD | 22.2 | <LOD | 11.1 | <LOD | 18.9 | <LOD | 11.25 | 49.5 | 31.3 |
| 203-02 | 52 | 9.6 | <LOD | 25.95 | <LOD | 12.15 | <LOD | 22.2 | <LOD | 13.8 | 62.4 | 35.6 |
| 203-02 | 68.1 | 7 | <LOD | 15.9 | <LOD | 7.65 | 21.9 | 9.6 | <LOD | 8.7 | 45.1 | 21.3 |
| 203-03 | 66.2 | 8 | <LOD | 19.35 | <LOD | 9.3 | 21.9 | 11.5 | <LOD | 10.05 | 60.9 | 28.5 |
| 203-03 | 72.5 | 9.5 | <LOD | 22.2 | <LOD | 10.5 | <LOD | 18.6 | <LOD | 11.1 | <LOD | 44.25 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203-04 | 58.6 | 8.5 | 30.4 | 14.9 | <LOD | 10.05 | <LOD | 19.2 | <LOD | 10.5 | 64.3 | 30.8 |
| 203-04 | 63.2 | 8 | <LOD | 19.35 | <LOD | 9.45 | <LOD | 16.8 | <LOD | 10.35 | <LOD | 38.7 |
| 204-01 | 72.1 | 9 | 23.5 | 14.6 | <LOD | 10.05 | <LOD | 18.9 | <LOD | 10.95 | 57.3 | 29.1 |
| 204-02 | 72.8 | 8.9 | 29.9 | 15 | <LOD | 10.5 | <LOD | 19.2 | <LOD | 11.4 | 67.8 | 31.2 |
| 204-03 | 65.1 | 8.6 | 31.8 | 14.8 | <LOD | 10.05 | <LOD | 18.9 | <LOD | 10.8 | 103 | 31.9 |
| 204-04 | 68 | 10.1 | 44.5 | 18.2 | <LOD | 12.75 | 25.8 | 16 | <LOD | 13.2 | 83.3 | 40.2 |
| 205-01 | 34.7 | 7.4 | 32.6 | 14.9 | <LOD | 10.35 | <LOD | 18.9 | <LOD | 11.1 | 123.3 | 33.9 |
| 205-02 | 37.5 | 6.8 | 34.1 | 13.4 | <LOD | 9 | <LOD | 17.55 | <LOD | 9.9 | 109.1 | 29.1 |
| 205-03 | 36 | 8.7 | <LOD | 25.05 | <LOD | 12.15 | <LOD | 21.75 | <LOD | 12.9 | 167.2 | 41.3 |
| 205-04 | 41.4 | 9.1 | 55.9 | 18.9 | <LOD | 12.3 | <LOD | 23.55 | <LOD | 12.6 | 93.2 | 40.5 |
| 206-01 | 59.4 | 7.6 | 30.8 | 13.2 | <LOD | 8.55 | 22.9 | 11.7 | <LOD | 9.15 | 70.4 | 27.6 |
| 206-02 | 57.4 | 7.2 | 32.1 | 12.4 | <LOD | 7.8 | <LOD | 16.2 | <LOD | 8.85 | 85.4 | 25.8 |
| 206-03 | 50.5 | 9.4 | 26.2 | 17 | <LOD | 11.55 | 24.4 | 15.1 | <LOD | 13.65 | 67.1 | 43.3 |
| 206-04 | 56.2 | 7.1 | <LOD | 17.4 | <LOD | 8.4 | 17.9 | 10.4 | <LOD | 9.3 | 62.4 | 24.2 |
| 207-01 | 48 | 7.6 | <LOD | 18.75 | <LOD | 9 | <LOD | 16.65 | <LOD | 10.65 | 44.3 | 28.2 |
| 207-02 | 33.1 | 8.6 | <LOD | 22.8 | <LOD | 10.95 | <LOD | 19.95 | <LOD | 12.3 | <LOD | 63.6 |
| 207-03 | 34.2 | 8.6 | <LOD | 23.55 | <LOD | 11.4 | <LOD | 20.55 | <LOD | 12.75 | <LOD | 61.35 |
| 207-04 | 36.4 | 7.4 | <LOD | 19.2 | <LOD | 10.05 | <LOD | 16.95 | <LOD | 10.5 | <LOD | 54 |
| 208-01 | 50.2 | 6.3 | <LOD | 15.15 | <LOD | 7.05 | 14.5 | 9 | <LOD | 8.1 | 37.7 | 22.4 |
| 208-02 | 6.4 | 3 | <LOD | 9.3 | <LOD | 4.8 | <LOD | 8.25 | <LOD | 5.4 | 27.3 | 13.7 |
| 208-03 | 52.6 | 8.8 | <LOD | 22.35 | <LOD | 11.25 | <LOD | 19.35 | <LOD | 11.85 | <LOD | 98.7 |
| 208-04 | 49.3 | 6.6 | <LOD | 16.2 | <LOD | 7.8 | <LOD | 13.8 | <LOD | 7.8 | 42.5 | 21.1 |
| 209-01 | 65.4 | 8.3 | 45.5 | 14.6 | <LOD | 9.15 | <LOD | 18.45 | <LOD | 10.5 | 74.8 | 29.1 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 209-02 | 55.3 | 10.4 | 37.5 | 19.2 | <LOD | 13.2 | <LOD | 24 | <LOD | 13.5 | 72.4 | 42.2 |
| 209-03 | 65.9 | 8.6 | <LOD | 21.15 | <LOD | 9.9 | 23.3 | 12.6 | <LOD | 10.5 | 79.7 | 30.3 |
| 209-04 | 70.5 | 10.4 | 27.8 | 17.5 | <LOD | 12.45 | 25.1 | 15.5 | <LOD | 13.35 | <LOD | 56.7 |
| 210-01 | 49.5 | 8.6 | <LOD | 21.45 | <LOD | 10.05 | <LOD | 18 | <LOD | 11.85 | 56.7 | 29.5 |
| 210-02 | 67.1 | 8.5 | <LOD | 19.65 | <LOD | 9.6 | 19.3 | 11.6 | <LOD | 10.2 | 46.5 | 28.6 |
| 210-03 | 61.6 | 6.5 | <LOD | 14.7 | <LOD | 7.35 | 21.8 | 9 | <LOD | 7.8 | 36.1 | 19.3 |
| 210-04 | 66.8 | 8.5 | <LOD | 19.5 | <LOD | 9.75 | <LOD | 16.8 | <LOD | 10.05 | <LOD | 40.5 |
| 211-01 | 59.5 | 7.8 | <LOD | 17.1 | <LOD | 8.85 | <LOD | 15 | <LOD | 8.85 | <LOD | 44.25 |
| 211-02 | 66.6 | 8.7 | <LOD | 20.1 | <LOD | 9.75 | <LOD | 17.4 | <LOD | 10.35 | <LOD | 40.35 |
| 211-03 | 57.9 | 8 | <LOD | 19.8 | <LOD | 9.75 | <LOD | 16.8 | <LOD | 9.6 | 51.3 | 25.4 |
| 211-04 | 71.8 | 7.6 | 17.6 | 11.6 | <LOD | 8.4 | <LOD | 15 | <LOD | 9.15 | 64.6 | 22.7 |
| 212-01 | 53.3 | 7.2 | <LOD | 18.15 | <LOD | 8.7 | <LOD | 15.45 | <LOD | 9 | 44.4 | 23.9 |
| 212-02 | 45.4 | 7.3 | <LOD | 18.75 | <LOD | 9.15 | <LOD | 16.35 | <LOD | 9.15 | <LOD | 43.95 |
| 212-03 | 62.2 | 8.4 | <LOD | 19.65 | <LOD | 9.45 | <LOD | 16.95 | <LOD | 10.65 | <LOD | 64.2 |
| 212-04 | 41.5 | 7 | <LOD | 18 | <LOD | 8.85 | <LOD | 15.75 | <LOD | 9.3 | 56.5 | 24.9 |
| 213-01 | 49.6 | 6.3 | 17.8 | 10.6 | <LOD | 7.65 | <LOD | 13.65 | <LOD | 8.25 | 51.5 | 21.5 |
| 213-02 | 50.7 | 7.4 | 22.7 | 12.9 | <LOD | 9 | <LOD | 16.8 | <LOD | 9.45 | 64.1 | 25.9 |
| 213-03 | 48.8 | 6.3 | <LOD | 15.15 | <LOD | 7.5 | 13.7 | 9 | <LOD | 8.1 | 56.8 | 21.5 |
| 213-04 | 50.2 | 6.8 | <LOD | 16.8 | <LOD | 8.1 | <LOD | 14.85 | <LOD | 8.7 | 55.5 | 23.6 |
| 214-01 | 46.3 | 6.3 | <LOD | 15.9 | <LOD | 7.35 | <LOD | 13.8 | <LOD | 7.8 | 49.4 | 22 |
| 214-02 | 44.7 | 7 | <LOD | 17.85 | <LOD | 9.15 | <LOD | 15.6 | <LOD | 10.05 | 44.4 | 24.6 |
| 214-03 | 44 | 7 | <LOD | 17.55 | <LOD | 8.55 | 18.1 | 10.5 | <LOD | 9.6 | <LOD | 35.7 |
| 214-04 | 38.1 | 10.1 | <LOD | 27.45 | <LOD | 13.8 | <LOD | 24.15 | <LOD | 15 | <LOD | 61.05 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 215-01 | 53.5 | 7.9 | 21.4 | 13.5 | <LOD | 8.85 | <LOD | 17.1 | <LOD | 9.9 | 76.2 | 34.3 |
| 215-02 | 60.5 | 7.2 | <LOD | 16.95 | <LOD | 8.7 | <LOD | 14.7 | <LOD | 8.55 | 90.8 | 25.2 |
| 215-03 | 51.4 | 7.5 | 25.2 | 13 | <LOD | 8.55 | <LOD | 16.05 | <LOD | 9.75 | 71.3 | 25.3 |
| 215-04 | 52 | 8.7 | <LOD | 21.75 | <LOD | 11.1 | <LOD | 18.6 | <LOD | 11.4 | 78.9 | 32.8 |
| 216-01 | 64.5 | 8.3 | <LOD | 19.65 | <LOD | 9.9 | <LOD | 17.25 | <LOD | 10.35 | 67.6 | 27.5 |
| 216-02 | 61.5 | 8 | 26.1 | 13.5 | <LOD | 9.6 | <LOD | 17.55 | <LOD | 10.05 | 69.6 | 26.4 |
| 216-03 | 70.1 | 8 | <LOD | 18.45 | <LOD | 8.7 | 26.6 | 11.2 | <LOD | 9.45 | 63.6 | 26.1 |
| 216-04 | 50.1 | 7.2 | 19.6 | 12.2 | <LOD | 8.55 | 21.2 | 11 | <LOD | 9.3 | 81.9 | 28.6 |
| 217-01 | 72.9 | 8.6 | <LOD | 18.9 | <LOD | 9 | <LOD | 16.65 | <LOD | 10.2 | 46.8 | 27.2 |
| 217-02 | 83.9 | 9.6 | <LOD | 21.45 | <LOD | 10.65 | <LOD | 18.15 | <LOD | 10.8 | <LOD | 41.1 |
| 217-03 | 56.6 | 7.7 | <LOD | 17.1 | <LOD | 8.85 | <LOD | 14.7 | <LOD | 9.75 | 49.7 | 25.1 |
| 217-04 | 70.4 | 7.3 | <LOD | 15.9 | <LOD | 7.5 | 14.2 | 9.3 | <LOD | 8.7 | 60.1 | 21.7 |
| 254-01 | 45 | 7.3 | 37 | 13.8 | <LOD | 9 | <LOD | 17.85 | <LOD | 9.9 | <LOD | 40.05 |
| 254-02 | 72 | 18.9 | <LOD | 51.45 | <LOD | 24.75 | <LOD | 43.05 | <LOD | 26.85 | <LOD | 225 |
| 254-03 | 50.5 | 7.8 | 58.3 | 15.8 | <LOD | 9.75 | <LOD | 19.95 | <LOD | 10.5 | 46 | 30.6 |
| 254-04 | 36.8 | 12.6 | <LOD | 36.15 | <LOD | 18.6 | <LOD | 31.35 | <LOD | 19.2 | <LOD | 82.8 |
| 255-01 | 58.8 | 10.8 | <LOD | 30.15 | <LOD | 14.1 | <LOD | 25.65 | <LOD | 15.75 | <LOD | 117.9 |
| 255-02 | 54 | 8.5 | <LOD | 21.3 | <LOD | 11.1 | <LOD | 18.9 | <LOD | 10.8 | 62.8 | 32.5 |
| 255-03 | 54.3 | 13.7 | 70.3 | 28.2 | <LOD | 17.85 | <LOD | 33.75 | <LOD | 19.8 | <LOD | 95.55 |
| 255-04 | 52 | 9 | 25.3 | 16.3 | <LOD | 12 | <LOD | 20.7 | <LOD | 11.85 | 56.8 | 33.7 |
| 256-01 | 71.3 | 8.8 | 59.4 | 16.2 | <LOD | 10.5 | <LOD | 20.7 | <LOD | 11.1 | 55.8 | 30 |
| 256-02 | 66.2 | 13 | <LOD | 33.6 | <LOD | 16.65 | <LOD | 28.2 | <LOD | 16.8 | <LOD | 113.25 |
| 256-03 | 78.4 | 12.9 | <LOD | 33.6 | <LOD | 16.2 | <LOD | 29.1 | <LOD | 16.65 | <LOD | 95.4 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 256-04 | 69.5 | 8.7 | 46.3 | 15.6 | <LOD | 9.75 | <LOD | 19.35 | <LOD | 10.8 | <LOD | 45.15 |
| 257-01 | 62.6 | 8.5 | <LOD | 21.3 | <LOD | 10.2 | <LOD | 18 | <LOD | 11.1 | 53.9 | 30.4 |
| 257-02 | 57 | 9.1 | <LOD | 23.7 | <LOD | 11.4 | <LOD | 20.4 | <LOD | 12.6 | 54.8 | 34.8 |
| 257-03 | 57.3 | 8.7 | 31.4 | 15.6 | <LOD | 10.95 | <LOD | 19.2 | <LOD | 12.3 | 59.3 | 31.7 |
| 257-04 | 61.7 | 11.3 | <LOD | 27.3 | <LOD | 14.1 | 25.8 | 16.3 | <LOD | 15.15 | <LOD | 61.5 |
| 258-01 | 48.5 | 10.2 | <LOD | 26.85 | <LOD | 12.9 | <LOD | 23.25 | <LOD | 14.85 | <LOD | 68.85 |
| 258-02 | 49 | 11.2 | <LOD | 30.3 | <LOD | 15.45 | <LOD | 25.05 | <LOD | 15.45 | <LOD | 64.35 |
| 258-03 | 56.3 | 8.3 | <LOD | 20.4 | <LOD | 9.6 | <LOD | 17.85 | <LOD | 10.65 | 55.9 | 30.6 |
| 258-04 | 62.5 | 9.2 | <LOD | 22.5 | <LOD | 10.95 | <LOD | 19.65 | <LOD | 11.7 | 66.4 | 33 |
| 259-01 | 55.2 | 9.6 | <LOD | 23.7 | <LOD | 12.45 | 22.1 | 14.2 | <LOD | 13.05 | 59.7 | 39 |
| 259-02 | 40.5 | 10.4 | <LOD | 26.25 | <LOD | 13.5 | 25.1 | 15.7 | <LOD | 14.7 | <LOD | 68.4 |
| 259-03 | 63.4 | 8.2 | <LOD | 18.6 | <LOD | 9.75 | <LOD | 16.5 | <LOD | 10.2 | 56.9 | 29.9 |
| 259-04 | 49.6 | 8.6 | <LOD | 22.5 | <LOD | 10.95 | <LOD | 18.3 | <LOD | 10.95 | 55.4 | 33.5 |
| 260-01 | 34.9 | 9.5 | <LOD | 25.65 | <LOD | 13.05 | <LOD | 21.75 | <LOD | 13.95 | <LOD | 61.5 |
| 260-02 | 36.4 | 17.6 | <LOD | 45 | <LOD | 23.7 | 42.8 | 26.8 | <LOD | 26.4 | <LOD | 115.2 |
| 260-03 | 49.8 | 7.2 | <LOD | 17.7 | <LOD | 9 | 16.7 | 10.4 | <LOD | 9.15 | 37.1 | 24.1 |
| 260-04 | 46.2 | 9.4 | <LOD | 23.25 | <LOD | 12.15 | <LOD | 20.55 | <LOD | 13.8 | <LOD | 55.65 |
| 261-01 | 50.5 | 7.4 | <LOD | 18.6 | <LOD | 8.55 | <LOD | 15.9 | <LOD | 9.75 | 52 | 25.8 |
| 261-02 | 55.3 | 7.1 | <LOD | 17.4 | <LOD | 7.8 | <LOD | 14.55 | <LOD | 9.15 | 46.2 | 23.3 |
| 261-03 | 55 | 6.7 | <LOD | 15.75 | <LOD | 7.65 | <LOD | 13.35 | <LOD | 8.7 | 59.4 | 22.2 |
| 261-04 | 49.3 | 8.3 | <LOD | 20.4 | <LOD | 9.75 | 24.2 | 12.4 | <LOD | 12 | 63.6 | 31.8 |
| 262-01 | 49.7 | 6.8 | <LOD | 16.2 | <LOD | 7.8 | 16.3 | 9.7 | <LOD | 9 | 43.9 | 23.7 |
| 262-02 | 48 | 8.3 | <LOD | 20.1 | <LOD | 9.45 | 21.3 | 12.2 | <LOD | 12 | <LOD | 45.9 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 262-03 | 32.7 | 8 | <LOD | 21 | <LOD | 10.8 | 19.8 | 12.5 | <LOD | 11.55 | 53.4 | 33.9 |
| 262-04 | 31.3 | 8.8 | <LOD | 22.65 | <LOD | 11.1 | 26.5 | 13.8 | <LOD | 13.5 | <LOD | 57 |
| 263-01 | 39.9 | 7.4 | <LOD | 18.45 | <LOD | 9.3 | 19.3 | 11.1 | <LOD | 10.2 | <LOD | 45 |
| 263-02 | 37.9 | 10 | <LOD | 26.85 | <LOD | 13.2 | <LOD | 22.95 | <LOD | 13.8 | <LOD | 100.95 |
| 263-03 | 42 | 9.6 | <LOD | 24.6 | <LOD | 12.3 | <LOD | 21.75 | <LOD | 13.8 | <LOD | 59.4 |
| 263-04 | 35.5 | 10.3 | <LOD | 25.2 | <LOD | 13.95 | 36.6 | 15.9 | <LOD | 15.9 | <LOD | 66.9 |
| 264-01 | 36.2 | 6.7 | <LOD | 17.1 | <LOD | 8.85 | 18.2 | 10.3 | <LOD | 9.75 | 52.6 | 26 |
| 264-02 | 35.7 | 10.1 | <LOD | 27.6 | <LOD | 13.5 | 30.6 | 16.9 | <LOD | 16.35 | <LOD | 70.95 |
| 264-03 | 32.2 | 10.6 | <LOD | 29.25 | <LOD | 14.4 | 26.5 | 17.5 | <LOD | 16.65 | <LOD | 91.05 |
| 264-04 | 13.8 | 8.1 | <LOD | 24.15 | <LOD | 12.45 | <LOD | 21.45 | <LOD | 12.9 | <LOD | 59.55 |
| 265-01 | 79.8 | 9.6 | <LOD | 22.8 | <LOD | 11.25 | 26.1 | 13.5 | <LOD | 11.55 | 87.4 | 33.5 |
| 265-02 | 50.1 | 10.1 | <LOD | 26.4 | <LOD | 12.3 | <LOD | 22.65 | <LOD | 14.55 | <LOD | 63.15 |
| 265-03 | 57.9 | 10.1 | <LOD | 25.8 | <LOD | 12.15 | <LOD | 21.9 | <LOD | 13.35 | <LOD | 58.5 |
| 266-01 | 30.3 | 16.1 | <LOD | 45.9 | <LOD | 24.3 | <LOD | 39.3 | <LOD | 26.55 | <LOD | 115.5 |
| 266-02 | 48.9 | 12 | <LOD | 31.65 | <LOD | 16.05 | <LOD | 27.3 | <LOD | 17.55 | <LOD | 83.25 |
| 266-03 | 46.9 | 6.6 | <LOD | 16.5 | <LOD | 8.1 | <LOD | 14.55 | <LOD | 9 | 44.1 | 23.6 |
| 266-04 | 33.3 | 18.8 | <LOD | 54.9 | <LOD | 28.65 | <LOD | 46.35 | <LOD | 32.1 | <LOD | 144.9 |
| 268-01 | 20.4 | 5.6 | <LOD | 15.6 | <LOD | 8.25 | <LOD | 13.35 | <LOD | 8.55 | <LOD | 38.25 |
| 268-02 | 38.8 | 12.8 | <LOD | 37.05 | <LOD | 18.3 | <LOD | 31.65 | <LOD | 19.95 | <LOD | 143.25 |
| 268-03 | <LOD | 16.5 | <LOD | 33.9 | <LOD | 16.2 | <LOD | 30 | <LOD | 19.95 | <LOD | 87.75 |
| 268-04 | 46.8 | 8.2 | <LOD | 20.85 | <LOD | 10.5 | <LOD | 18.3 | <LOD | 11.4 | 66.4 | 33.6 |
| 370-01 | 48.1 | 9.4 | <LOD | 26.7 | <LOD | 12.15 | <LOD | 23.1 | <LOD | 13.35 | <LOD | 78 |
| 370-02 | 40.6 | 9.4 | <LOD | 26.25 | <LOD | 13.35 | <LOD | 23.1 | <LOD | 14.55 | 71.1 | 46.1 |

J-88

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Rb | +/- 3SD | Pb | +/- 3SD | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **370-03** | 38.2 | 10.3 | 60.7 | 22.2 | 16.5 | 10.5 | <LOD | 27.9 | <LOD | 16.35 | 89.4 | 47.1 |
| **370-04** | 63.2 | 8.5 | <LOD | 21.6 | <LOD | 10.2 | 20.7 | 12.7 | <LOD | 10.95 | 91.6 | 32.2 |

J-89

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| 001-01 | <LOD | 97.05 | <LOD | 315 | <LOD | 180 | 12595.2 | 410 | 496.8 | 270 | <LOD |
| 001-02 | <LOD | 142.95 | <LOD | 465 | <LOD | 225 | 11897.6 | 520 | <LOD | 540 | <LOD |
| 001-03 | 1520 | 110 | <LOD | 360 | <LOD | 225 | 18790.4 | 530 | <LOD | 480 | <LOD |
| 001-04 | 90.3 | 55.1 | <LOD | 255 | <LOD | 150 | 11795.2 | 360 | <LOD | 345 | <LOD |
| 002-01 | <LOD | 86.7 | <LOD | 285 | <LOD | 150 | 9017.6 | 360 | <LOD | 360 | <LOD |
| 002-02 | <LOD | 144.3 | 4499.2 | 320 | <LOD | 195 | 10796.8 | 410 | <LOD | 405 | <LOD |
| 002-03 | <LOD | 165 | <LOD | 510 | <LOD | 225 | 8416 | 490 | <LOD | 495 | <LOD |
| 002-04 | <LOD | 66.15 | <LOD | 225 | <LOD | 137.7 | 9868.8 | 310 | <LOD | 300 | <LOD |
| 003-01 | <LOD | 93.15 | <LOD | 300 | <LOD | 180 | 13491.2 | 400 | 534 | 260 | <LOD |
| 003-02 | 70.8 | 43.6 | <LOD | 210 | <LOD | 120.15 | 7539.2 | 270 | <LOD | 270 | <LOD |
| 003-03 | <LOD | 136.8 | <LOD | 390 | <LOD | 210 | 15193.6 | 500 | 818.8 | 330 | <LOD |
| 003-04 | <LOD | 128.55 | <LOD | 405 | <LOD | 225 | 12998.4 | 510 | 705.6 | 350 | <LOD |
| 004-01 | <LOD | 90.3 | <LOD | 255 | <LOD | 150 | 10796.8 | 360 | <LOD | 345 | <LOD |
| 004-02 | <LOD | 78 | <LOD | 240 | <LOD | 150 | 10496 | 350 | 375.8 | 230 | <LOD |
| 004-03 | 301.8 | 73.4 | <LOD | 285 | <LOD | 180 | 16294.4 | 420 | <LOD | 390 | <LOD |
| 004-04 | <LOD | 112.35 | <LOD | 360 | <LOD | 165 | 7264 | 370 | <LOD | 375 | <LOD |
| 005-01 | <LOD | 110.4 | <LOD | 360 | <LOD | 195 | 11795.2 | 440 | <LOD | 435 | <LOD |
| 005-02 | <LOD | 123.6 | 2099.2 | 250 | <LOD | 225 | 23193.6 | 540 | 647.2 | 330 | <LOD |
| 005-03 | <LOD | 67.65 | <LOD | 210 | <LOD | 130.2 | 10400 | 300 | <LOD | 285 | <LOD |
| 005-04 | <LOD | 102.6 | <LOD | 300 | <LOD | 210 | 16499.2 | 480 | <LOD | 435 | <LOD |
| 006-01 | <LOD | 180 | 11699.2 | 410 | <LOD | 210 | 13798.4 | 450 | <LOD | 435 | <LOD |
| 006-02 | <LOD | 112.8 | 3769.6 | 260 | <LOD | 180 | 13299.2 | 400 | <LOD | 390 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 006-03 | <LOD | 103.05 | <LOD | 345 | <LOD | 180 | 10694.4 | 410 | 455.6 | 280 | <LOD |
| 006-04 | <LOD | 80.7 | <LOD | 270 | <LOD | 165 | 11897.6 | 380 | 404 | 250 | <LOD |
| 007-01 | <LOD | 65.1 | <LOD | 210 | 155.8 | 96 | 10899.2 | 320 | 424.8 | 210 | <LOD |
| 007-02 | <LOD | 67.5 | <LOD | 240 | <LOD | 145.35 | 10899.2 | 330 | 349.6 | 210 | <LOD |
| 007-03 | <LOD | 77.4 | <LOD | 255 | <LOD | 165 | 11296 | 380 | 543.2 | 260 | <LOD |
| 007-04 | <LOD | 72.15 | <LOD | 240 | <LOD | 150 | 10796.8 | 340 | <LOD | 330 | <LOD |
| 008-01 | <LOD | 79.95 | <LOD | 270 | 198.8 | 120 | 14297.6 | 430 | 554 | 280 | <LOD |
| 008-02 | <LOD | 119.1 | <LOD | 405 | 227.8 | 150 | 15795.2 | 530 | 571.6 | 340 | <LOD |
| 008-03 | <LOD | 81 | <LOD | 285 | 180.5 | 120 | 13593.6 | 420 | <LOD | 390 | <LOD |
| 008-04 | <LOD | 68.4 | <LOD | 255 | 204.7 | 120 | 15590.4 | 420 | 532.8 | 270 | <LOD |
| 023-01 | 652.8 | 130 | <LOD | 645 | 777.2 | 460 | 157900.8 | 2499.2 | 2139.2 | 980 | <LOD |
| 023-02 | <LOD | 109.95 | <LOD | 360 | 264.4 | 140 | 16691.2 | 490 | 608.4 | 310 | <LOD |
| 023-03 | <LOD | 95.55 | <LOD | 375 | 635.6 | 280 | 85657.6 | 1300 | <LOD | 870 | <LOD |
| 023-04 | <LOD | 97.5 | <LOD | 330 | <LOD | 285 | 39782.4 | 730 | 696.8 | 400 | <LOD |
| 024-01 | <LOD | 115.35 | 3798.4 | 250 | <LOD | 165 | 10598.4 | 350 | <LOD | 345 | <LOD |
| 024-02 | <LOD | 98.25 | <LOD | 330 | <LOD | 180 | 11494.4 | 390 | <LOD | 375 | <LOD |
| 024-03 | 1349.6 | 71.6 | <LOD | 195 | <LOD | 111.15 | 8576 | 250 | 386.6 | 170 | <LOD |
| 024-04 | 1760 | 150 | <LOD | 495 | <LOD | 240 | 14899.2 | 560 | 896 | 380 | <LOD |
| 034-01 | <LOD | 148.65 | 8454.4 | 340 | <LOD | 195 | 14988.8 | 430 | 615.6 | 290 | 759.6 |
| 034-02 | <LOD | 102.15 | <LOD | 330 | <LOD | 138.3 | 5817.6 | 290 | <LOD | 315 | <LOD |
| 034-03 | <LOD | 81.9 | <LOD | 270 | 271.6 | 120 | 16000 | 400 | 529.2 | 250 | <LOD |
| 034-04 | 252.2 | 77.5 | <LOD | 360 | <LOD | 180 | 10899.2 | 410 | <LOD | 390 | <LOD |
| 035-01 | <LOD | 225 | 26982.4 | 560 | <LOD | 210 | 11795.2 | 390 | <LOD | 390 | 440.8 |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 035-02 | <LOD | 78 | <LOD | 240 | <LOD | 140.4 | 10694.4 | 310 | <LOD | 300 | <LOD |
| 035-03 | <LOD | 80.4 | 302.4 | 170 | 149.3 | 96.9 | 11795.2 | 330 | <LOD | 315 | <LOD |
| 035-04 | NA | | NA | | NA | | NA | | NA | | NA |
| 037-01 | <LOD | 89.4 | 554.4 | 190 | <LOD | 150 | 10899.2 | 330 | 389.8 | 220 | <LOD |
| 037-02 | 158.1 | 63.1 | 460 | 180 | <LOD | 165 | 15193.6 | 380 | 378.8 | 240 | <LOD |
| 037-03 | 91.9 | 59.7 | 265.6 | 170 | <LOD | 150 | 12396.8 | 340 | 386.8 | 220 | <LOD |
| 037-04 | 114.5 | 75.5 | 2049.6 | 240 | <LOD | 165 | 11897.6 | 380 | 402 | 250 | <LOD |
| 038-01 | <LOD | 72.3 | <LOD | 255 | 234 | 140 | 23488 | 490 | <LOD | 435 | <LOD |
| 038-02 | <LOD | 109.2 | <LOD | 390 | <LOD | 240 | 19788.8 | 560 | <LOD | 495 | <LOD |
| 038-03 | <LOD | 74.85 | <LOD | 270 | <LOD | 210 | 22400 | 510 | 456.8 | 300 | <LOD |
| 038-04 | <LOD | 97.95 | <LOD | 330 | <LOD | 225 | 18892.8 | 530 | <LOD | 480 | <LOD |
| 068-01 | <LOD | 435 | <LOD | 1260 | 2668.8 | 949.6 | 348979.2 | 7398.4 | <LOD | 3000 | <LOD |
| 068-02 | <LOD | 141 | 516.4 | 280 | 578 | 240 | 52992 | 969.6 | 832 | 500 | <LOD |
| 068-03 | <LOD | 225 | 1939.2 | 480 | 821.6 | 380 | 74598.4 | 1699.2 | 1708.8 | 790 | <LOD |
| 068-04 | <LOD | 525 | 48076.8 | 1400 | 1800 | 730 | 239820.8 | 4697.6 | 2800 | 1500 | <LOD |
| 086-01 | <LOD | 180 | 6419.2 | 400 | <LOD | 225 | 12896 | 490 | <LOD | 480 | <LOD |
| 086-02 | <LOD | 96.3 | 1089.6 | 210 | <LOD | 165 | 12198.4 | 370 | 526.4 | 250 | <LOD |
| 086-03 | <LOD | 98.85 | <LOD | 330 | <LOD | 180 | 12499.2 | 400 | 480.4 | 260 | <LOD |
| 086-04 | <LOD | 180 | 11200 | 430 | <LOD | 225 | 15590.4 | 500 | 482.4 | 320 | 460.8 |
| 087-01 | 121.7 | 72 | <LOD | 300 | <LOD | 180 | 15692.8 | 430 | 694.4 | 280 | <LOD |
| 087-02 | <LOD | 285 | <LOD | 990 | 2520 | 829.6 | 369868.8 | 6400 | 4409.6 | 1699.2 | <LOD |
| 087-03 | 287.4 | 110 | <LOD | 450 | 379.2 | 250 | 55296 | 1100 | 1979.2 | 560 | <LOD |
| 087-04 | 495.6 | 160 | 2868.8 | 450 | <LOD | 435 | 46592 | 1200 | 1009.6 | 610 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 088-01 | <LOD | 133.5 | 2859.2 | 300 | <LOD | 210 | 13593.6 | 460 | <LOD | 450 | <LOD |
| 088-02 | <LOD | 78.75 | <LOD | 270 | <LOD | 180 | 16089.6 | 440 | 610.8 | 280 | <LOD |
| 088-03 | <LOD | 88.5 | <LOD | 315 | <LOD | 195 | 17600 | 480 | 760 | 300 | <LOD |
| 088-04 | <LOD | 89.25 | <LOD | 300 | <LOD | 180 | 12896 | 410 | 431.2 | 260 | <LOD |
| 089-01 | <LOD | 106.95 | <LOD | 360 | <LOD | 195 | 10995.2 | 440 | <LOD | 435 | <LOD |
| 089-02 | <LOD | 138.3 | 2689.6 | 310 | <LOD | 210 | 12096 | 440 | <LOD | 420 | <LOD |
| 089-03 | <LOD | 83.25 | <LOD | 285 | <LOD | 195 | 15398.4 | 480 | 508.8 | 300 | <LOD |
| 089-04 | <LOD | 124.2 | 4857.6 | 280 | <LOD | 195 | 13798.4 | 410 | 485.6 | 270 | <LOD |
| 090-01 | <LOD | 130.95 | <LOD | 450 | <LOD | 255 | 17792 | 600 | 1069.6 | 390 | <LOD |
| 090-02 | <LOD | 180 | <LOD | 600 | <LOD | 300 | 14899.2 | 680 | 2019.2 | 510 | <LOD |
| 090-03 | <LOD | 94.2 | <LOD | 270 | <LOD | 195 | 18393.6 | 460 | 1300 | 300 | <LOD |
| 090-04 | <LOD | 123.45 | <LOD | 390 | <LOD | 225 | 14796.8 | 540 | 1939.2 | 400 | <LOD |
| 091-01 | <LOD | 330 | 30284.8 | 840 | <LOD | 330 | 17894.4 | 660 | 1708.8 | 470 | 896.8 |
| 091-02 | <LOD | 96 | <LOD | 330 | <LOD | 195 | 14988.8 | 470 | 2099.2 | 350 | <LOD |
| 091-03 | <LOD | 124.35 | <LOD | 390 | <LOD | 210 | 13696 | 490 | 1329.6 | 350 | <LOD |
| 091-04 | <LOD | 165 | <LOD | 555 | <LOD | 270 | 14092.8 | 600 | 1748.8 | 440 | <LOD |
| 092-01 | <LOD | 103.5 | <LOD | 330 | <LOD | 195 | 13491.2 | 450 | 735.6 | 300 | <LOD |
| 092-02 | <LOD | 225 | <LOD | 630 | <LOD | 510 | 63385.6 | 1500 | 2840 | 780 | <LOD |
| 092-03 | <LOD | 125.85 | <LOD | 435 | <LOD | 270 | 22988.8 | 670 | 1340 | 420 | <LOD |
| 092-04 | <LOD | 150 | <LOD | 480 | <LOD | 300 | 27187.2 | 770 | 2640 | 510 | <LOD |
| 093-01 | <LOD | 101.55 | <LOD | 360 | <LOD | 210 | 18790.4 | 510 | 614 | 320 | <LOD |
| 093-02 | <LOD | 109.65 | <LOD | 360 | <LOD | 195 | 14899.2 | 460 | <LOD | 435 | <LOD |
| 093-03 | <LOD | 112.8 | <LOD | 375 | <LOD | 210 | 16089.6 | 500 | 487.2 | 310 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 093-04 | <LOD | 116.7 | <LOD | 405 | <LOD | 210 | 15296 | 500 | 602 | 320 | <LOD |
| 094-01 | <LOD | 99.45 | 472 | 220 | 266.4 | 120 | 12096 | 390 | 760.8 | 270 | <LOD |
| 094-02 | <LOD | 130.65 | <LOD | 420 | <LOD | 210 | 11699.2 | 460 | 546.4 | 310 | <LOD |
| 094-03 | <LOD | 115.05 | <LOD | 375 | <LOD | 210 | 15091.2 | 480 | <LOD | 450 | <LOD |
| 094-04 | <LOD | 117.3 | 827.2 | 250 | 198 | 120 | 11398.4 | 410 | <LOD | 390 | <LOD |
| 095-01 | <LOD | 210 | 7008 | 500 | <LOD | 315 | 20697.6 | 720 | <LOD | 660 | <LOD |
| 095-02 | <LOD | 108.75 | 1649.6 | 250 | 266 | 150 | 19699.2 | 510 | 506.8 | 310 | <LOD |
| 095-03 | <LOD | 270 | 16691.2 | 630 | <LOD | 315 | 17190.4 | 640 | <LOD | 615 | <LOD |
| 095-04 | <LOD | 91.65 | 716 | 210 | 233.6 | 130 | 18496 | 460 | <LOD | 420 | <LOD |
| 096-01 | <LOD | 130.05 | <LOD | 435 | <LOD | 240 | 17497.6 | 560 | <LOD | 510 | <LOD |
| 096-02 | <LOD | 88.5 | 503.2 | 200 | <LOD | 180 | 16396.8 | 420 | <LOD | 390 | <LOD |
| 096-03 | <LOD | 92.85 | <LOD | 315 | <LOD | 195 | 13593.6 | 430 | 653.2 | 280 | <LOD |
| 096-04 | <LOD | 96.15 | 907.2 | 220 | 208.6 | 130 | 17497.6 | 450 | <LOD | 405 | <LOD |
| 097-01 | <LOD | 115.8 | 433.6 | 270 | <LOD | 240 | 21094.4 | 570 | <LOD | 510 | <LOD |
| 097-02 | <LOD | 81 | <LOD | 270 | <LOD | 165 | 11897.6 | 360 | <LOD | 330 | <LOD |
| 097-03 | <LOD | 165 | <LOD | 540 | <LOD | 270 | 16691.2 | 650 | <LOD | 615 | <LOD |
| 097-04 | <LOD | 88.35 | <LOD | 300 | <LOD | 225 | 25088 | 550 | 494.4 | 320 | <LOD |
| 098-01 | <LOD | 87.15 | <LOD | 300 | <LOD | 225 | 22400 | 550 | 962.4 | 340 | <LOD |
| 098-02 | <LOD | 147 | 6547.2 | 340 | <LOD | 255 | 23296 | 580 | <LOD | 510 | <LOD |
| 098-03 | <LOD | 195 | 13696 | 470 | <LOD | 270 | 23488 | 620 | <LOD | 570 | 493.2 |
| 098-04 | <LOD | 145.8 | 1209.6 | 330 | <LOD | 270 | 21299.2 | 650 | <LOD | 570 | <LOD |
| 099-01 | <LOD | 112.8 | <LOD | 375 | <LOD | 240 | 20288 | 550 | 609.2 | 340 | <LOD |
| 099-02 | <LOD | 112.2 | 658.4 | 260 | <LOD | 240 | 21990.4 | 580 | 793.2 | 350 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 099-03 | <LOD | 111.15 | <LOD | 390 | <LOD | 240 | 20800 | 580 | <LOD | 525 | <LOD |
| 099-04 | <LOD | 90 | <LOD | 330 | 322.6 | 150 | 19788.8 | 520 | 640 | 320 | <LOD |
| 100-01 | <LOD | 118.95 | 3689.6 | 270 | 288.2 | 140 | 19891.2 | 490 | <LOD | 450 | <LOD |
| 100-02 | <LOD | 108.6 | <LOD | 375 | <LOD | 210 | 14988.8 | 470 | <LOD | 450 | <LOD |
| 100-03 | <LOD | 89.4 | 482.4 | 200 | <LOD | 180 | 16294.4 | 430 | 604.4 | 270 | <LOD |
| 100-04 | <LOD | 180 | 5238.4 | 420 | <LOD | 255 | 13491.2 | 540 | <LOD | 540 | <LOD |
| 101-01 | <LOD | 165 | <LOD | 540 | <LOD | 255 | 13196.8 | 580 | 680.4 | 390 | <LOD |
| 101-02 | <LOD | 123.3 | 1460 | 280 | <LOD | 225 | 16089.6 | 500 | 650 | 320 | <LOD |
| 101-03 | <LOD | 165 | <LOD | 570 | <LOD | 255 | 13696 | 590 | <LOD | 555 | <LOD |
| 101-04 | <LOD | 101.55 | <LOD | 345 | <LOD | 210 | 16793.6 | 470 | 531.6 | 300 | <LOD |
| 102-01 | <LOD | 390 | 6848 | 900 | <LOD | 480 | 19097.6 | 1100 | <LOD | 1020 | <LOD |
| 102-02 | <LOD | 98.1 | <LOD | 330 | <LOD | 225 | 19289.6 | 550 | 643.2 | 340 | <LOD |
| 102-03 | <LOD | 124.65 | 1939.2 | 280 | <LOD | 225 | 17996.8 | 520 | <LOD | 465 | <LOD |
| 102-04 | <LOD | 165 | 3699.2 | 380 | 287.8 | 180 | 18892.8 | 620 | <LOD | 555 | <LOD |
| 103-01 | <LOD | 315 | 38988.8 | 829.6 | <LOD | 330 | 23795.2 | 670 | <LOD | 615 | <LOD |
| 103-02 | <LOD | 165 | <LOD | 570 | <LOD | 270 | 15590.4 | 620 | <LOD | 600 | <LOD |
| 103-03 | <LOD | 315 | 28185.6 | 829.6 | <LOD | 345 | 20595.2 | 720 | <LOD | 675 | <LOD |
| 103-04 | <LOD | 255 | 6259.2 | 560 | <LOD | 345 | 19596.8 | 770 | <LOD | 705 | <LOD |
| 104-01 | <LOD | 180 | 4707.2 | 420 | 296.4 | 180 | 15296 | 580 | <LOD | 540 | <LOD |
| 104-02 | <LOD | 120.75 | 2529.6 | 280 | <LOD | 210 | 16998.4 | 490 | <LOD | 450 | <LOD |
| 104-03 | <LOD | 180 | 3558.4 | 400 | <LOD | 285 | 18995.2 | 640 | <LOD | 570 | <LOD |
| 104-04 | <LOD | 285 | 18291.2 | 690 | <LOD | 345 | 22796.8 | 770 | <LOD | 705 | <LOD |
| 105-01 | <LOD | 78.45 | <LOD | 255 | <LOD | 115.65 | 5289.6 | 240 | <LOD | 270 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 105-02 | <LOD | 109.2 | <LOD | 360 | <LOD | 165 | 7475.2 | 350 | 455.6 | 250 | <LOD |
| 105-03 | <LOD | 100.5 | <LOD | 345 | <LOD | 210 | 16691.2 | 490 | 527.6 | 310 | <LOD |
| 105-04 | <LOD | 85.05 | <LOD | 285 | <LOD | 180 | 13888 | 410 | <LOD | 390 | <LOD |
| 106-01 | <LOD | 115.95 | <LOD | 375 | <LOD | 225 | 16998.4 | 530 | 1280 | 360 | <LOD |
| 106-02 | <LOD | 165 | 8704 | 380 | <LOD | 210 | 12595.2 | 430 | <LOD | 420 | <LOD |
| 106-03 | <LOD | 98.1 | 481.6 | 220 | <LOD | 165 | 13388.8 | 390 | 538.4 | 250 | <LOD |
| 106-04 | <LOD | 94.5 | <LOD | 300 | <LOD | 165 | 11596.8 | 360 | 630.4 | 240 | <LOD |
| 107-01 | <LOD | 98.4 | 1329.6 | 200 | <LOD | 180 | 18688 | 430 | <LOD | 390 | <LOD |
| 107-02 | 152.7 | 64.8 | <LOD | 285 | 257.8 | 130 | 21888 | 470 | 545.6 | 280 | <LOD |
| 107-03 | <LOD | 122.25 | 836 | 250 | <LOD | 210 | 18291.2 | 500 | <LOD | 465 | <LOD |
| 107-04 | 214.8 | 80.5 | 1380 | 220 | 214.4 | 120 | 16192 | 420 | <LOD | 390 | <LOD |
| 108-01 | <LOD | 80.4 | <LOD | 270 | <LOD | 165 | 14694.4 | 390 | <LOD | 360 | <LOD |
| 108-02 | <LOD | 240 | 23897.6 | 590 | <LOD | 255 | 17996.8 | 530 | 770.4 | 350 | 502 |
| 108-03 | <LOD | 107.85 | 1480 | 240 | <LOD | 195 | 13990.4 | 420 | <LOD | 405 | <LOD |
| 108-04 | <LOD | 77.25 | 986.4 | 170 | 136.1 | 90.6 | 10297.6 | 300 | 394.4 | 200 | <LOD |
| 110-01 | <LOD | 180 | <LOD | 600 | <LOD | 330 | 20889.6 | 760 | 2009.6 | 520 | <LOD |
| 110-02 | 238.8 | 120 | <LOD | 495 | <LOD | 330 | 30976 | 829.6 | 1409.6 | 490 | <LOD |
| 110-03 | <LOD | 165 | 981.6 | 380 | 390.4 | 210 | 23795.2 | 750 | 2068.8 | 500 | <LOD |
| 110-04 | <LOD | 270 | 22092.8 | 670 | <LOD | 390 | 39091.2 | 949.6 | 2649.6 | 580 | 714.8 |
| 111-01 | 1020 | 140 | 971.2 | 340 | 480.4 | 290 | 72192 | 1300 | 1929.6 | 640 | <LOD |
| 111-02 | 136.5 | 82.5 | 1069.6 | 240 | <LOD | 240 | 26675.2 | 590 | 1129.6 | 360 | <LOD |
| 111-03 | 418.4 | 88.1 | <LOD | 330 | <LOD | 255 | 34099.2 | 650 | 1708.8 | 390 | <LOD |
| 111-04 | 780 | 110 | 1240 | 270 | 331.4 | 190 | 37580.8 | 740 | 2049.6 | 440 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112-01 | 156.4 | 100 | 1760 | 310 | <LOD | 255 | 21388.8 | 620 | <LOD | 555 | <LOD |
| 112-02 | <LOD | 180 | <LOD | 585 | <LOD | 375 | 32486.4 | 949.6 | 1240 | 550 | <LOD |
| 112-03 | <LOD | 180 | 5529.6 | 400 | 421.6 | 260 | 53299.2 | 1100 | <LOD | 825 | <LOD |
| 112-04 | <LOD | 165 | 5859.2 | 370 | <LOD | 405 | 68556.8 | 1200 | 1120 | 570 | <LOD |
| 113-01 | <LOD | 150 | 1580 | 330 | <LOD | 240 | 15193.6 | 540 | 540.8 | 350 | <LOD |
| 113-02 | <LOD | 86.55 | 1220 | 180 | <LOD | 133.65 | 9440 | 300 | <LOD | 300 | <LOD |
| 113-03 | <LOD | 101.85 | <LOD | 315 | 185.7 | 120 | 12896 | 410 | 530.4 | 270 | <LOD |
| 113-04 | <LOD | 240 | 17600 | 580 | <LOD | 285 | 17894.4 | 600 | 808.8 | 400 | 1369.6 |
| 114-01 | <LOD | 116.25 | 5958.4 | 270 | <LOD | 143.4 | 8128 | 290 | <LOD | 300 | <LOD |
| 114-02 | <LOD | 101.1 | <LOD | 330 | <LOD | 165 | 9196.8 | 370 | <LOD | 375 | <LOD |
| 114-03 | <LOD | 147.15 | <LOD | 375 | <LOD | 195 | 10099.2 | 420 | <LOD | 420 | <LOD |
| 114-04 | <LOD | 87.6 | <LOD | 285 | <LOD | 165 | 9817.6 | 360 | <LOD | 360 | <LOD |
| 115-01 | <LOD | 70.65 | <LOD | 240 | <LOD | 147.45 | 10297.6 | 340 | <LOD | 330 | <LOD |
| 115-02 | <LOD | 88.05 | <LOD | 300 | <LOD | 165 | 9644.8 | 370 | 405.2 | 250 | <LOD |
| 115-03 | <LOD | 225 | <LOD | 405 | <LOD | 210 | 15398.4 | 480 | 1800 | 350 | <LOD |
| 115-04 | <LOD | 134.1 | 2000 | 300 | <LOD | 180 | 10297.6 | 410 | <LOD | 405 | <LOD |
| 116-01 | <LOD | 111 | <LOD | 375 | <LOD | 180 | 9228.8 | 380 | <LOD | 390 | <LOD |
| 116-02 | <LOD | 103.8 | <LOD | 345 | <LOD | 165 | 9708.8 | 380 | <LOD | 390 | <LOD |
| 116-03 | <LOD | 115.5 | 1589.6 | 260 | <LOD | 195 | 13491.2 | 430 | 502 | 280 | <LOD |
| 116-04 | <LOD | 84.45 | <LOD | 285 | <LOD | 195 | 21094.4 | 480 | 667.2 | 290 | <LOD |
| 117-01 | <LOD | 165 | 592 | 360 | <LOD | 240 | 10995.2 | 510 | 1920 | 410 | <LOD |
| 117-02 | <LOD | 123.45 | 1969.6 | 280 | <LOD | 195 | 12096 | 430 | 668.4 | 290 | <LOD |
| 117-03 | <LOD | 210 | 14694.4 | 490 | <LOD | 240 | 15296 | 510 | 2969.6 | 410 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 117-04 | <LOD | 100.8 | 1509.6 | 230 | <LOD | 180 | 12998.4 | 390 | 1988.8 | 300 | <LOD |
| 118-01 | <LOD | 855 | 82585.6 | 3000 | <LOD | 660 | 13990.4 | 1000 | 4908.8 | 980 | <LOD |
| 118-02 | <LOD | 255 | 20492.8 | 620 | <LOD | 255 | 13990.4 | 520 | 1240 | 370 | <LOD |
| 118-03 | <LOD | 210 | 4028.8 | 450 | <LOD | 270 | 12000 | 550 | 928.8 | 390 | <LOD |
| 118-04 | <LOD | 150 | 8467.2 | 350 | <LOD | 195 | 13491.2 | 430 | 1100 | 300 | <LOD |
| 119-01 | <LOD | 127.65 | 1788.8 | 290 | <LOD | 210 | 14592 | 480 | 1029.6 | 330 | <LOD |
| 119-02 | <LOD | 104.85 | 1260 | 250 | <LOD | 195 | 15590.4 | 460 | 983.2 | 310 | <LOD |
| 119-03 | <LOD | 133.5 | 2388.8 | 300 | 213.6 | 130 | 11897.6 | 430 | 861.6 | 300 | <LOD |
| 119-04 | <LOD | 150 | 1640 | 360 | <LOD | 180 | 6585.6 | 380 | 2129.6 | 360 | <LOD |
| 120-01 | <LOD | 96.45 | 1149.6 | 190 | <LOD | 150 | 12595.2 | 350 | 549.6 | 230 | <LOD |
| 120-02 | 151.6 | 83.9 | 2419.2 | 270 | <LOD | 225 | 20390.4 | 530 | 943.2 | 340 | <LOD |
| 120-03 | <LOD | 99.75 | 1080 | 220 | <LOD | 180 | 13094.4 | 390 | 564.4 | 250 | <LOD |
| 120-04 | <LOD | 81.75 | 992.8 | 180 | 160.1 | 100 | 13696 | 350 | 486.4 | 230 | <LOD |
| 121-01 | 122.7 | 68.5 | 1309.6 | 220 | <LOD | 180 | 16691.2 | 430 | <LOD | 390 | <LOD |
| 121-02 | <LOD | 95.4 | 361.6 | 190 | 212 | 130 | 19494.4 | 450 | 726 | 280 | <LOD |
| 121-03 | 136.7 | 59.8 | 1720 | 180 | 248.2 | 110 | 15398.4 | 360 | 606 | 230 | <LOD |
| 121-04 | <LOD | 195 | 14489.6 | 440 | <LOD | 240 | 18995.2 | 520 | 591.6 | 340 | 1400 |
| 122-01 | <LOD | 82.2 | <LOD | 270 | <LOD | 180 | 14092.8 | 410 | 453.2 | 270 | <LOD |
| 122-02 | <LOD | 88.35 | <LOD | 285 | 186.4 | 120 | 15488 | 420 | 711.2 | 270 | <LOD |
| 122-03 | <LOD | 95.1 | <LOD | 330 | <LOD | 180 | 11897.6 | 420 | 420 | 280 | <LOD |
| 122-04 | <LOD | 67.05 | <LOD | 225 | <LOD | 142.65 | 11596.8 | 330 | 404.2 | 210 | <LOD |
| 123-01 | <LOD | 74.4 | <LOD | 240 | <LOD | 165 | 15091.2 | 370 | 482 | 240 | <LOD |
| 123-02 | 249 | 74 | <LOD | 330 | <LOD | 225 | 18995.2 | 530 | 742.8 | 330 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 123-03 | <LOD | 84.75 | <LOD | 270 | 198.2 | 110 | 13888 | 390 | 762 | 260 | <LOD |
| 123-04 | 118.6 | 50.9 | <LOD | 225 | 238 | 110 | 13593.6 | 360 | 650.8 | 240 | <LOD |
| 124-01 | NA | | NA | | NA | | NA | | NA | | NA |
| 124-02 | 171.5 | 63.4 | <LOD | 255 | <LOD | 142.05 | 10496 | 320 | 517.6 | 210 | <LOD |
| 124-03 | 131.2 | 57.7 | 354.2 | 170 | <LOD | 141.15 | 11296 | 310 | 364.6 | 210 | <LOD |
| 124-04 | <LOD | 114 | <LOD | 315 | <LOD | 180 | 16294.4 | 430 | 762 | 280 | <LOD |
| 125-01 | <LOD | 61.05 | <LOD | 210 | <LOD | 125.85 | 9836.8 | 290 | 948.8 | 210 | <LOD |
| 125-02 | <LOD | 61.8 | <LOD | 210 | <LOD | 130.35 | 10496 | 290 | 765.6 | 210 | <LOD |
| 125-03 | <LOD | 96.6 | 2988.8 | 220 | <LOD | 150 | 11097.6 | 330 | 833.6 | 230 | <LOD |
| 125-04 | <LOD | 77.7 | 1100 | 180 | <LOD | 139.95 | 10400 | 310 | 910.4 | 220 | <LOD |
| 126-01 | <LOD | 97.65 | <LOD | 315 | <LOD | 195 | 14592 | 450 | 991.2 | 300 | <LOD |
| 126-02 | <LOD | 83.1 | <LOD | 270 | <LOD | 165 | 11795.2 | 380 | 467.2 | 250 | <LOD |
| 126-03 | <LOD | 51.75 | <LOD | 165 | <LOD | 94.05 | 5360 | 200 | <LOD | 210 | <LOD |
| 126-04 | <LOD | 82.95 | <LOD | 270 | <LOD | 146.4 | 7737.6 | 320 | <LOD | 345 | <LOD |
| 127-01 | 144 | 77.4 | 2169.6 | 220 | 185.1 | 120 | 16089.6 | 410 | 440.8 | 260 | <LOD |
| 127-02 | 119.2 | 64.3 | 279 | 180 | <LOD | 195 | 23795.2 | 470 | 691.6 | 280 | <LOD |
| 127-03 | 219.8 | 81.2 | 1020 | 220 | <LOD | 210 | 23296 | 520 | 772 | 320 | <LOD |
| 127-04 | 163.8 | 93 | 4240 | 290 | <LOD | 210 | 17600 | 470 | 728.8 | 300 | <LOD |
| 128-01 | <LOD | 89.55 | 732 | 200 | <LOD | 150 | 11494.4 | 350 | <LOD | 345 | <LOD |
| 128-02 | <LOD | 82.65 | 327.8 | 180 | <LOD | 139.5 | 10195.2 | 310 | <LOD | 315 | <LOD |
| 128-03 | 128.6 | 64.7 | 1300 | 190 | <LOD | 165 | 16896 | 400 | 542 | 250 | <LOD |
| 128-04 | <LOD | 180 | 7897.6 | 370 | <LOD | 240 | 19993.6 | 550 | 884.8 | 350 | 912.8 |
| 129-01 | 168.9 | 64 | 604.4 | 180 | <LOD | 150 | 13696 | 360 | 346 | 230 | <LOD |

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## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 129-02 | <LOD | 145.05 | 7225.6 | 300 | 223 | 140 | 21798.4 | 490 | 897.6 | 310 | <LOD |
| 129-03 | 128.7 | 66.3 | 822.4 | 190 | <LOD | 165 | 15795.2 | 390 | 550.8 | 250 | <LOD |
| 129-04 | <LOD | 150 | <LOD | 390 | 613.2 | 210 | 43392 | 829.6 | 1140 | 450 | <LOD |
| 130-01 | <LOD | 104.55 | 962.4 | 190 | <LOD | 180 | 20492.8 | 440 | 847.2 | 270 | <LOD |
| 130-02 | <LOD | 112.65 | 1100 | 260 | <LOD | 225 | 18995.2 | 520 | 1540 | 350 | <LOD |
| 130-03 | <LOD | 92.1 | 549.6 | 170 | <LOD | 165 | 16793.6 | 390 | 490.4 | 250 | <LOD |
| 130-04 | <LOD | 90.75 | <LOD | 255 | 187.4 | 110 | 13798.4 | 360 | 611.6 | 240 | <LOD |
| 131-01 | <LOD | 195 | 3129.6 | 420 | <LOD | 285 | 16896 | 630 | 855.2 | 420 | <LOD |
| 131-02 | <LOD | 89.55 | 772 | 210 | <LOD | 195 | 18393.6 | 450 | 560 | 280 | <LOD |
| 131-03 | <LOD | 130.35 | 897.6 | 290 | <LOD | 255 | 20697.6 | 600 | <LOD | 555 | <LOD |
| 131-04 | <LOD | 98.25 | 2348.8 | 240 | <LOD | 225 | 25792 | 550 | 814.8 | 330 | <LOD |
| 132-01 | 144.2 | 73.1 | 3160 | 220 | <LOD | 180 | 19494.4 | 440 | 1100 | 280 | <LOD |
| 132-02 | 119.1 | 50.8 | 260.8 | 160 | <LOD | 150 | 16000 | 360 | 782 | 240 | <LOD |
| 132-03 | 96.9 | 62.9 | <LOD | 270 | <LOD | 165 | 14489.6 | 380 | 617.2 | 240 | <LOD |
| 132-04 | <LOD | 93.6 | 1200 | 190 | <LOD | 165 | 16896 | 400 | 714 | 250 | <LOD |
| 133-01 | <LOD | 64.5 | 640.8 | 140 | <LOD | 121.65 | 12000 | 280 | 742.8 | 190 | <LOD |
| 133-02 | <LOD | 73.5 | 365.2 | 170 | 196.1 | 100 | 12595.2 | 340 | 690.4 | 220 | <LOD |
| 133-03 | <LOD | 73.2 | <LOD | 225 | <LOD | 148.65 | 13888 | 340 | 675.2 | 230 | <LOD |
| 133-04 | <LOD | 72 | <LOD | 240 | <LOD | 145.65 | 12000 | 330 | 553.6 | 220 | <LOD |
| 134-01 | <LOD | 145.5 | 10297.6 | 330 | <LOD | 180 | 14489.6 | 400 | 796 | 270 | <LOD |
| 134-02 | <LOD | 100.95 | 2748.8 | 220 | 182.2 | 120 | 16192 | 400 | 654.8 | 260 | <LOD |
| 134-03 | <LOD | 114.9 | 5529.6 | 260 | <LOD | 180 | 16691.2 | 410 | 692 | 260 | <LOD |
| 134-04 | <LOD | 122.55 | 5929.6 | 260 | <LOD | 165 | 15193.6 | 390 | 810.8 | 260 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 136-01 | <LOD | 105 | <LOD | 330 | <LOD | 180 | 12499.2 | 420 | <LOD | 405 | <LOD |
| 136-02 | <LOD | 129.45 | <LOD | 450 | <LOD | 225 | 13388.8 | 510 | <LOD | 495 | <LOD |
| 136-03 | <LOD | 79.8 | 540.4 | 170 | <LOD | 120.6 | 7027.2 | 260 | <LOD | 255 | <LOD |
| 136-04 | <LOD | 129.3 | <LOD | 405 | <LOD | 210 | 14297.6 | 490 | <LOD | 465 | <LOD |
| 137-01 | <LOD | 119.25 | 5228.8 | 270 | 224.4 | 130 | 17088 | 440 | 1149.6 | 290 | <LOD |
| 137-02 | <LOD | 148.2 | <LOD | 495 | <LOD | 255 | 13094.4 | 580 | <LOD | 570 | <LOD |
| 137-03 | <LOD | 94.05 | <LOD | 315 | <LOD | 195 | 14988.8 | 470 | 459.2 | 300 | <LOD |
| 137-04 | <LOD | 86.55 | <LOD | 285 | <LOD | 180 | 16089.6 | 440 | 452 | 270 | <LOD |
| 138-01 | <LOD | 102 | <LOD | 285 | 282.6 | 150 | 20800 | 520 | 558.4 | 310 | <LOD |
| 138-02 | <LOD | 99.75 | <LOD | 345 | <LOD | 225 | 16396.8 | 520 | <LOD | 480 | <LOD |
| 138-03 | <LOD | 66.45 | <LOD | 240 | <LOD | 150 | 12998.4 | 360 | <LOD | 330 | <LOD |
| 138-04 | <LOD | 107.7 | <LOD | 345 | <LOD | 195 | 10899.2 | 420 | <LOD | 405 | <LOD |
| 139-01 | <LOD | 82.8 | <LOD | 285 | <LOD | 180 | 11200 | 400 | 487.6 | 260 | <LOD |
| 139-02 | <LOD | 87.9 | <LOD | 285 | <LOD | 142.95 | 7040 | 320 | <LOD | 330 | <LOD |
| 139-03 | <LOD | 122.4 | <LOD | 420 | <LOD | 225 | 12800 | 500 | 601.6 | 330 | <LOD |
| 139-04 | <LOD | 70.5 | <LOD | 240 | <LOD | 139.35 | 8748.8 | 320 | 322 | 210 | <LOD |
| 140-01 | <LOD | 117.75 | <LOD | 405 | <LOD | 195 | 9894.4 | 440 | <LOD | 435 | <LOD |
| 140-02 | <LOD | 119.1 | <LOD | 390 | <LOD | 210 | 9875.2 | 460 | <LOD | 450 | <LOD |
| 140-03 | <LOD | 107.85 | <LOD | 375 | <LOD | 180 | 11200 | 420 | <LOD | 405 | <LOD |
| 140-04 | <LOD | 69.15 | <LOD | 240 | <LOD | 148.35 | 11699.2 | 340 | 365.2 | 220 | <LOD |
| 141-01 | <LOD | 86.7 | <LOD | 270 | <LOD | 150 | 12294.4 | 350 | 428.4 | 230 | <LOD |
| 141-02 | <LOD | 76.2 | <LOD | 270 | <LOD | 195 | 17689.6 | 450 | <LOD | 405 | <LOD |
| 141-03 | <LOD | 66.75 | <LOD | 195 | <LOD | 118.2 | 7948.8 | 270 | <LOD | 255 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 141-04 | <LOD | 75.15 | <LOD | 240 | <LOD | 165 | 14092.8 | 390 | 526.4 | 250 | <LOD |
| 142-01 | <LOD | 71.4 | <LOD | 240 | <LOD | 180 | 13990.4 | 400 | 601.6 | 260 | <LOD |
| 142-02 | <LOD | 180 | 6656 | 420 | <LOD | 270 | 19788.8 | 620 | 596 | 380 | <LOD |
| 142-03 | <LOD | 122.1 | <LOD | 420 | <LOD | 255 | 13491.2 | 570 | <LOD | 555 | <LOD |
| 142-04 | <LOD | 78 | <LOD | 270 | 242 | 130 | 15590.4 | 440 | 549.6 | 280 | <LOD |
| 143-01 | <LOD | 111.6 | <LOD | 375 | <LOD | 225 | 15488 | 520 | <LOD | 495 | <LOD |
| 143-02 | <LOD | 57.75 | <LOD | 195 | 197.7 | 94.2 | 12896 | 320 | 360.2 | 200 | <LOD |
| 143-03 | <LOD | 210 | <LOD | 660 | <LOD | 285 | 9996.8 | 610 | <LOD | 645 | <LOD |
| 143-04 | <LOD | 75.15 | <LOD | 240 | <LOD | 150 | 11296 | 350 | 361.8 | 230 | <LOD |
| 144-01 | <LOD | 195 | 2188.8 | 420 | <LOD | 240 | 10496 | 510 | 1699.2 | 410 | <LOD |
| 144-02 | <LOD | 150 | 636.4 | 330 | <LOD | 210 | 8928 | 430 | 533.2 | 310 | <LOD |
| 144-03 | <LOD | 102.6 | <LOD | 330 | <LOD | 195 | 14400 | 440 | 966.4 | 300 | <LOD |
| 144-04 | <LOD | 108.9 | <LOD | 345 | <LOD | 180 | 10496 | 400 | 760 | 280 | <LOD |
| 145-01 | 329 | 74.9 | <LOD | 315 | <LOD | 180 | 12294.4 | 430 | 554.4 | 290 | <LOD |
| 145-02 | <LOD | 102.6 | <LOD | 345 | <LOD | 210 | 15488 | 500 | <LOD | 465 | <LOD |
| 145-03 | <LOD | 105.75 | <LOD | 345 | <LOD | 210 | 14195.2 | 470 | <LOD | 450 | 771.2 |
| 145-04 | <LOD | 61.8 | <LOD | 210 | 164.6 | 96.9 | 12096 | 330 | 568 | 220 | <LOD |
| 146-01 | <LOD | 119.7 | <LOD | 390 | <LOD | 195 | 11596.8 | 450 | 660.8 | 310 | <LOD |
| 146-02 | <LOD | 74.7 | <LOD | 255 | <LOD | 165 | 12499.2 | 390 | 511.6 | 250 | <LOD |
| 146-03 | <LOD | 85.65 | <LOD | 285 | <LOD | 195 | 16896 | 440 | 710 | 280 | <LOD |
| 146-04 | <LOD | 70.05 | <LOD | 240 | <LOD | 165 | 13094.4 | 370 | 803.6 | 250 | <LOD |
| 147-01 | <LOD | 65.25 | <LOD | 225 | 199.2 | 100 | 12697.6 | 350 | 416.4 | 230 | <LOD |
| 147-02 | <LOD | 66.3 | <LOD | 225 | <LOD | 165 | 16000 | 400 | <LOD | 375 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 147-03 | <LOD | 97.65 | <LOD | 330 | <LOD | 165 | 9324.8 | 370 | <LOD | 375 | 463.6 |
| 147-04 | NA | | NA | | NA | | NA | | NA | | NA |
| 148-01 | <LOD | 195 | 16000 | 450 | <LOD | 195 | 10899.2 | 390 | <LOD | 390 | <LOD |
| 148-02 | NA | | NA | | NA | | NA | | NA | | NA |
| 148-03 | 53.5 | 33.3 | <LOD | 165 | 170 | 87.2 | 12896 | 300 | <LOD | 285 | <LOD |
| 148-04 | <LOD | 52.35 | <LOD | 180 | <LOD | 116.1 | 9088 | 260 | <LOD | 255 | <LOD |
| 149-01 | <LOD | 130.35 | <LOD | 360 | <LOD | 210 | 10899.2 | 460 | <LOD | 465 | <LOD |
| 149-02 | <LOD | 77.4 | <LOD | 255 | <LOD | 165 | 12998.4 | 380 | <LOD | 360 | <LOD |
| 149-03 | <LOD | 127.65 | <LOD | 420 | <LOD | 210 | 9228.8 | 450 | 488.4 | 320 | <LOD |
| 149-04 | <LOD | 225 | <LOD | 735 | <LOD | 300 | 9728 | 640 | 883.2 | 480 | <LOD |
| 150-01 | <LOD | 69.15 | <LOD | 225 | <LOD | 141.9 | 12896 | 330 | 326.8 | 210 | <LOD |
| 150-02 | <LOD | 165 | 15488 | 390 | <LOD | 195 | 13696 | 390 | 504 | 260 | <LOD |
| 150-03 | <LOD | 110.7 | <LOD | 375 | <LOD | 195 | 12000 | 460 | <LOD | 435 | <LOD |
| 150-04 | <LOD | 72.15 | <LOD | 225 | <LOD | 147.15 | 12896 | 340 | <LOD | 330 | <LOD |
| 151-01 | <LOD | 116.85 | <LOD | 375 | <LOD | 180 | 9177.6 | 410 | <LOD | 420 | <LOD |
| 151-02 | <LOD | 148.35 | <LOD | 405 | 374.8 | 190 | 28800 | 710 | 1929.6 | 440 | <LOD |
| 151-03 | <LOD | 59.85 | <LOD | 195 | <LOD | 149.55 | 14400 | 350 | <LOD | 330 | <LOD |
| 151-04 | <LOD | 71.4 | <LOD | 240 | <LOD | 150 | 14195.2 | 370 | <LOD | 345 | <LOD |
| 152-01 | <LOD | 76.35 | <LOD | 255 | <LOD | 165 | 11296 | 370 | <LOD | 360 | <LOD |
| 152-02 | <LOD | 69.3 | <LOD | 225 | <LOD | 165 | 16396.8 | 390 | 477.6 | 240 | <LOD |
| 152-03 | <LOD | 61.5 | <LOD | 195 | <LOD | 134.4 | 11398.4 | 310 | <LOD | 300 | <LOD |
| 152-04 | <LOD | 104.4 | <LOD | 360 | <LOD | 285 | 28876.8 | 710 | <LOD | 600 | <LOD |
| 154-01 | <LOD | 66 | <LOD | 210 | <LOD | 139.65 | 10195.2 | 320 | <LOD | 315 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 154-02 | <LOD | 83.55 | <LOD | 255 | <LOD | 150 | 12595.2 | 370 | <LOD | 345 | <LOD |
| 154-03 | <LOD | 67.8 | <LOD | 225 | <LOD | 165 | 18099.2 | 400 | 393.6 | 250 | <LOD |
| 154-04 | <LOD | 61.05 | <LOD | 195 | <LOD | 129.45 | 10995.2 | 300 | <LOD | 285 | <LOD |
| 188-01 | <LOD | 57 | <LOD | 195 | <LOD | 118.35 | 8364.8 | 270 | <LOD | 270 | <LOD |
| 188-02 | <LOD | 54.3 | <LOD | 180 | <LOD | 119.4 | 8774.4 | 270 | <LOD | 255 | <LOD |
| 188-03 | <LOD | 109.95 | 3369.6 | 250 | <LOD | 128.25 | 5747.2 | 260 | <LOD | 270 | <LOD |
| 188-04 | <LOD | 150 | 4857.6 | 340 | <LOD | 165 | 6147.2 | 320 | <LOD | 345 | <LOD |
| 189-01 | <LOD | 82.35 | <LOD | 285 | 164.3 | 99.6 | 8960 | 320 | 1080 | 240 | <LOD |
| 189-02 | <LOD | 70.65 | <LOD | 240 | 161.9 | 99.8 | 12294.4 | 340 | 1320 | 240 | <LOD |
| 189-03 | NA | | NA | | NA | | NA | | NA | | NA |
| 189-04 | <LOD | 69.3 | <LOD | 240 | <LOD | 136.35 | 9804.8 | 300 | 802.4 | 220 | <LOD |
| 190-01 | <LOD | 101.1 | 1309.6 | 220 | <LOD | 165 | 10694.4 | 360 | 397.2 | 240 | <LOD |
| 190-02 | <LOD | 210 | 16396.8 | 520 | <LOD | 240 | 12396.8 | 460 | <LOD | 465 | <LOD |
| 190-03 | <LOD | 70.65 | <LOD | 240 | <LOD | 148.05 | 10297.6 | 330 | 437.2 | 220 | <LOD |
| 190-04 | <LOD | 82.5 | <LOD | 285 | <LOD | 165 | 10496 | 360 | <LOD | 345 | <LOD |
| 191-01 | <LOD | 138.45 | 16396.8 | 330 | 218.4 | 110 | 14400 | 330 | <LOD | 315 | 504.4 |
| 191-02 | <LOD | 49.35 | <LOD | 180 | 147 | 83.1 | 11596.8 | 280 | <LOD | 255 | <LOD |
| 191-03 | <LOD | 44.85 | <LOD | 150 | 131.6 | 73 | 8800 | 240 | <LOD | 225 | <LOD |
| 191-04 | <LOD | 51.75 | 242.8 | 120 | 103.5 | 67.5 | 7904 | 220 | <LOD | 210 | <LOD |
| 192-01 | <LOD | 66.3 | <LOD | 225 | <LOD | 126.6 | 7155.2 | 280 | 506 | 200 | <LOD |
| 192-02 | <LOD | 65.25 | <LOD | 225 | 134.7 | 86.9 | 8646.4 | 290 | 461.2 | 200 | <LOD |
| 192-03 | <LOD | 70.5 | <LOD | 240 | <LOD | 139.95 | 7884.8 | 310 | 467.2 | 220 | <LOD |
| 192-04 | <LOD | 106.2 | 5600 | 250 | <LOD | 139.05 | 8755.2 | 290 | 582.8 | 200 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 193-01 | <LOD | 54.6 | <LOD | 180 | <LOD | 122.1 | 10496 | 280 | <LOD | 270 | <LOD |
| 193-02 | <LOD | 47.55 | <LOD | 165 | <LOD | 97.2 | 7276.8 | 220 | 401.6 | 150 | <LOD |
| 193-03 | <LOD | 97.95 | 2800 | 220 | <LOD | 150 | 10297.6 | 330 | 466.8 | 220 | <LOD |
| 193-04 | <LOD | 72 | 375.6 | 160 | <LOD | 130.5 | 9356.8 | 290 | 307.2 | 190 | <LOD |
| 194-01 | <LOD | 58.8 | <LOD | 210 | 190 | 89.6 | 10400 | 300 | 714 | 210 | <LOD |
| 194-02 | <LOD | 67.65 | <LOD | 225 | <LOD | 139.5 | 10099.2 | 320 | 671.6 | 220 | <LOD |
| 194-03 | <LOD | 57.9 | <LOD | 210 | <LOD | 129.45 | 9766.4 | 300 | 722.4 | 210 | <LOD |
| 194-04 | <LOD | 76.5 | <LOD | 255 | <LOD | 150 | 10400 | 360 | 739.6 | 250 | <LOD |
| 195-01 | <LOD | 87 | <LOD | 285 | <LOD | 165 | 12697.6 | 390 | 1080 | 270 | <LOD |
| 195-02 | <LOD | 69.3 | <LOD | 240 | <LOD | 180 | 13990.4 | 400 | 529.6 | 260 | <LOD |
| 195-03 | <LOD | 77.55 | <LOD | 270 | <LOD | 180 | 14899.2 | 420 | 1040 | 280 | <LOD |
| 195-04 | <LOD | 87.3 | <LOD | 300 | 237.2 | 140 | 14796.8 | 470 | 909.6 | 310 | <LOD |
| 196-01 | <LOD | 60.3 | <LOD | 195 | <LOD | 123.6 | 8256 | 280 | 336 | 190 | <LOD |
| 196-02 | <LOD | 71.7 | <LOD | 255 | <LOD | 165 | 14988.8 | 400 | <LOD | 360 | <LOD |
| 196-03 | <LOD | 67.5 | <LOD | 240 | <LOD | 165 | 13196.8 | 370 | 599.6 | 240 | <LOD |
| 196-04 | <LOD | 50.55 | <LOD | 180 | 198.6 | 84.3 | 10995.2 | 280 | 422.4 | 180 | <LOD |
| 197-01 | <LOD | 101.7 | <LOD | 345 | <LOD | 195 | 12198.4 | 440 | 774.4 | 300 | <LOD |
| 197-02 | <LOD | 117.15 | 4819.2 | 270 | <LOD | 180 | 12896 | 380 | 1069.6 | 270 | <LOD |
| 197-03 | <LOD | 79.5 | 1040 | 180 | <LOD | 150 | 13094.4 | 350 | 958.4 | 240 | <LOD |
| 197-04 | <LOD | 72.3 | <LOD | 240 | <LOD | 150 | 11494.4 | 340 | 903.2 | 240 | <LOD |
| 198-01 | <LOD | 150 | 3808 | 350 | <LOD | 210 | 10195.2 | 430 | <LOD | 435 | <LOD |
| 198-02 | <LOD | 80.7 | <LOD | 285 | <LOD | 165 | 11097.6 | 360 | <LOD | 345 | <LOD |
| 198-03 | <LOD | 150 | 1200 | 340 | <LOD | 210 | 9945.6 | 450 | 516.4 | 310 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 198-04 | <LOD | 74.4 | 1129.6 | 170 | <LOD | 124.95 | 9164.8 | 280 | 434 | 190 | <LOD |
| 199-01 | <LOD | 79.2 | <LOD | 285 | <LOD | 195 | 18995.2 | 480 | <LOD | 435 | <LOD |
| 199-02 | <LOD | 83.25 | <LOD | 300 | <LOD | 195 | 16499.2 | 450 | <LOD | 420 | <LOD |
| 199-03 | <LOD | 98.4 | <LOD | 360 | 282.6 | 170 | 19097.6 | 580 | <LOD | 540 | <LOD |
| 199-04 | <LOD | 80.1 | <LOD | 300 | 212.4 | 140 | 21388.8 | 490 | <LOD | 435 | <LOD |
| 200-01 | <LOD | 110.1 | 1460 | 250 | <LOD | 180 | 12896 | 410 | 858.4 | 280 | <LOD |
| 200-02 | <LOD | 80.1 | <LOD | 285 | <LOD | 180 | 14988.8 | 410 | 677.2 | 270 | <LOD |
| 200-03 | <LOD | 133.95 | 7968 | 310 | 204.5 | 130 | 18496 | 450 | 929.6 | 290 | 791.2 |
| 200-04 | <LOD | 79.65 | <LOD | 285 | <LOD | 180 | 13798.4 | 420 | 923.2 | 280 | <LOD |
| 201-01 | <LOD | 71.7 | <LOD | 240 | <LOD | 142.35 | 10297.6 | 320 | 896.8 | 230 | <LOD |
| 201-02 | <LOD | 93.15 | <LOD | 315 | <LOD | 180 | 12800 | 420 | 1080 | 290 | <LOD |
| 201-03 | <LOD | 66.75 | <LOD | 225 | <LOD | 138.9 | 10899.2 | 330 | 1049.6 | 230 | <LOD |
| 201-04 | <LOD | 86.55 | 349.2 | 200 | <LOD | 165 | 12697.6 | 380 | 2459.2 | 310 | <LOD |
| 202-01 | <LOD | 78.75 | <LOD | 270 | <LOD | 148.65 | 10899.2 | 350 | 554 | 230 | <LOD |
| 202-02 | <LOD | 75.45 | <LOD | 255 | <LOD | 165 | 13299.2 | 370 | 379.8 | 240 | <LOD |
| 202-03 | <LOD | 82.5 | <LOD | 285 | <LOD | 165 | 10899.2 | 360 | <LOD | 345 | <LOD |
| 202-04 | <LOD | 80.4 | <LOD | 270 | <LOD | 150 | 10400 | 340 | <LOD | 330 | <LOD |
| 203-01 | <LOD | 104.25 | <LOD | 345 | <LOD | 210 | 12396.8 | 470 | 593.6 | 310 | <LOD |
| 203-01 | <LOD | 86.85 | <LOD | 300 | <LOD | 180 | 12000 | 410 | <LOD | 390 | <LOD |
| 203-02 | <LOD | 97.65 | <LOD | 330 | <LOD | 195 | 12198.4 | 440 | <LOD | 420 | <LOD |
| 203-02 | <LOD | 56.55 | <LOD | 210 | 259 | 110 | 16588.8 | 370 | <LOD | 330 | <LOD |
| 203-03 | <LOD | 84.15 | 694.8 | 200 | 189.4 | 120 | 15296 | 400 | 692.4 | 260 | <LOD |
| 203-03 | <LOD | 79.05 | <LOD | 270 | <LOD | 180 | 13798.4 | 430 | <LOD | 405 | <LOD |

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## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 203-04 | <LOD | 87.15 | <LOD | 300 | <LOD | 180 | 13593.6 | 410 | 619.2 | 270 | <LOD |
| 203-04 | <LOD | 70.8 | <LOD | 240 | <LOD | 180 | 15193.6 | 410 | <LOD | 375 | <LOD |
| 204-01 | <LOD | 78.9 | <LOD | 270 | 181.2 | 120 | 14694.4 | 420 | 611.6 | 270 | <LOD |
| 204-02 | <LOD | 89.25 | <LOD | 300 | <LOD | 180 | 15193.6 | 420 | 604.4 | 270 | <LOD |
| 204-03 | <LOD | 88.5 | <LOD | 300 | 225.4 | 120 | 14400 | 410 | 647.2 | 270 | <LOD |
| 204-04 | <LOD | 123.45 | 951.2 | 270 | <LOD | 210 | 13798.4 | 460 | 721.6 | 300 | <LOD |
| 205-01 | <LOD | 96.15 | 1149.6 | 220 | <LOD | 180 | 14796.8 | 410 | 948.8 | 280 | <LOD |
| 205-02 | <LOD | 79.2 | <LOD | 270 | <LOD | 165 | 12396.8 | 360 | 1249.6 | 260 | <LOD |
| 205-03 | <LOD | 115.05 | 616 | 260 | <LOD | 210 | 15296 | 480 | 1360 | 330 | <LOD |
| 205-04 | <LOD | 122.1 | 1480 | 270 | <LOD | 225 | 16691.2 | 500 | 975.2 | 330 | <LOD |
| 206-01 | <LOD | 78.45 | <LOD | 270 | <LOD | 165 | 14297.6 | 390 | 2699.2 | 300 | <LOD |
| 206-02 | <LOD | 68.1 | <LOD | 225 | <LOD | 145.5 | 11596.8 | 340 | 3398.4 | 300 | <LOD |
| 206-03 | <LOD | 142.8 | 4739.2 | 330 | <LOD | 210 | 13299.2 | 450 | 1380 | 330 | <LOD |
| 206-04 | <LOD | 64.8 | <LOD | 225 | <LOD | 149.25 | 12800 | 350 | 1788.8 | 260 | <LOD |
| 207-01 | <LOD | 82.35 | <LOD | 270 | <LOD | 141.45 | 8857.6 | 310 | 402.4 | 220 | <LOD |
| 207-02 | <LOD | 142.65 | 4457.6 | 330 | <LOD | 180 | 8096 | 360 | <LOD | 375 | <LOD |
| 207-03 | <LOD | 135.6 | 3398.4 | 300 | <LOD | 180 | 7846.4 | 350 | 570 | 260 | <LOD |
| 207-04 | <LOD | 125.7 | 5648 | 290 | <LOD | 150 | 8326.4 | 320 | 415.2 | 230 | 454 |
| 208-01 | <LOD | 66 | 225.4 | 150 | 117 | 77.1 | 7475.2 | 250 | 566.4 | 180 | <LOD |
| 208-02 | <LOD | 36.3 | <LOD | 117.15 | <LOD | 52.35 | 1920 | 110 | 349.2 | 93.5 | <LOD |
| 208-03 | <LOD | 255 | 35993.6 | 680 | <LOD | 210 | 8729.6 | 350 | 630.4 | 260 | <LOD |
| 208-04 | <LOD | 53.25 | <LOD | 180 | 154.6 | 78.8 | 7385.6 | 260 | 444.8 | 180 | <LOD |
| 209-01 | <LOD | 81 | <LOD | 270 | 219.8 | 110 | 11494.4 | 360 | <LOD | 345 | <LOD |

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## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 209-02 | <LOD | 126.45 | <LOD | 420 | <LOD | 195 | 10899.2 | 440 | <LOD | 420 | <LOD |
| 209-03 | <LOD | 83.1 | <LOD | 285 | <LOD | 180 | 12896 | 390 | 430.8 | 250 | <LOD |
| 209-04 | <LOD | 117.75 | 513.2 | 270 | <LOD | 195 | 12697.6 | 450 | <LOD | 420 | <LOD |
| 210-01 | <LOD | 74.4 | <LOD | 255 | <LOD | 165 | 11494.4 | 400 | 467.6 | 260 | <LOD |
| 210-02 | <LOD | 82.8 | <LOD | 285 | 194.3 | 120 | 15897.6 | 430 | <LOD | 390 | <LOD |
| 210-03 | <LOD | 49.05 | <LOD | 180 | <LOD | 136.2 | 13196.8 | 320 | 456.4 | 200 | <LOD |
| 210-04 | <LOD | 79.35 | <LOD | 270 | 218 | 120 | 14592 | 410 | <LOD | 390 | <LOD |
| 211-01 | <LOD | 94.95 | 2369.6 | 220 | <LOD | 165 | 12198.4 | 360 | 799.2 | 250 | <LOD |
| 211-02 | <LOD | 72.75 | <LOD | 240 | <LOD | 165 | 11897.6 | 380 | 869.6 | 260 | <LOD |
| 211-03 | <LOD | 62.85 | <LOD | 225 | <LOD | 148.65 | 10496 | 340 | 838.4 | 240 | <LOD |
| 211-04 | <LOD | 55.5 | <LOD | 195 | <LOD | 137.85 | 11200 | 320 | 996.8 | 220 | <LOD |
| 212-01 | <LOD | 63.15 | <LOD | 225 | <LOD | 138.45 | 9996.8 | 310 | 626.8 | 220 | <LOD |
| 212-02 | <LOD | 90.9 | 1100 | 200 | <LOD | 150 | 11398.4 | 350 | 604.8 | 240 | <LOD |
| 212-03 | <LOD | 150 | 12697.6 | 370 | <LOD | 180 | 11897.6 | 370 | 794 | 260 | <LOD |
| 212-04 | <LOD | 62.85 | <LOD | 210 | <LOD | 133.95 | 9004.8 | 310 | 696 | 220 | <LOD |
| 213-01 | <LOD | 56.7 | <LOD | 195 | <LOD | 118.2 | 9068.8 | 270 | 890.4 | 200 | <LOD |
| 213-02 | <LOD | 66.9 | <LOD | 240 | <LOD | 144.45 | 10496 | 330 | 659.2 | 230 | <LOD |
| 213-03 | <LOD | 56.4 | <LOD | 195 | <LOD | 120.75 | 9056 | 270 | 668.8 | 190 | <LOD |
| 213-04 | <LOD | 63.3 | <LOD | 210 | <LOD | 128.4 | 8998.4 | 290 | 786 | 210 | <LOD |
| 214-01 | <LOD | 59.7 | <LOD | 210 | <LOD | 125.85 | 9939.2 | 290 | 1320 | 220 | <LOD |
| 214-02 | <LOD | 64.95 | <LOD | 225 | <LOD | 141.15 | 10099.2 | 320 | 856.8 | 230 | <LOD |
| 214-03 | <LOD | 65.4 | <LOD | 225 | <LOD | 137.55 | 9548.8 | 310 | 743.2 | 220 | <LOD |
| 214-04 | <LOD | 120.75 | <LOD | 405 | <LOD | 180 | 8089.6 | 400 | 1120 | 310 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 215-01 | <LOD | 109.35 | 3587.2 | 250 | <LOD | 165 | 10995.2 | 360 | 1209.6 | 260 | <LOD |
| 215-02 | <LOD | 64.8 | <LOD | 225 | <LOD | 141.3 | 11097.6 | 320 | 1260 | 240 | <LOD |
| 215-03 | <LOD | 58.95 | <LOD | 195 | <LOD | 135.75 | 9177.6 | 320 | 1029.6 | 240 | <LOD |
| 215-04 | <LOD | 89.55 | <LOD | 285 | <LOD | 180 | 10899.2 | 390 | 1269.6 | 290 | <LOD |
| 216-01 | <LOD | 72.3 | <LOD | 240 | <LOD | 150 | 10995.2 | 360 | 2499.2 | 300 | <LOD |
| 216-02 | <LOD | 66.75 | <LOD | 240 | <LOD | 165 | 13696 | 390 | 3000 | 320 | <LOD |
| 216-03 | <LOD | 70.8 | <LOD | 255 | <LOD | 165 | 14297.6 | 390 | 2360 | 290 | <LOD |
| 216-04 | <LOD | 83.55 | 627.6 | 180 | <LOD | 145.05 | 10099.2 | 320 | 2548.8 | 280 | <LOD |
| 217-01 | <LOD | 75.45 | <LOD | 255 | <LOD | 150 | 11897.6 | 360 | 415.2 | 240 | <LOD |
| 217-02 | <LOD | 72.6 | <LOD | 255 | <LOD | 165 | 12396.8 | 390 | 422.8 | 260 | <LOD |
| 217-03 | <LOD | 66.75 | <LOD | 225 | <LOD | 136.8 | 8908.8 | 310 | 331.4 | 200 | <LOD |
| 217-04 | <LOD | 52.8 | <LOD | 180 | <LOD | 132.6 | 11097.6 | 310 | 474 | 200 | <LOD |
| 254-01 | <LOD | 79.65 | <LOD | 270 | 153 | 100 | 11296 | 350 | 488.4 | 230 | <LOD |
| 254-02 | <LOD | 585 | 74086.4 | 1899.2 | <LOD | 525 | 21798.4 | 940 | <LOD | 945 | 2219.2 |
| 254-03 | <LOD | 93 | 1149.6 | 220 | <LOD | 180 | 15897.6 | 430 | 684 | 270 | <LOD |
| 254-04 | <LOD | 165 | <LOD | 585 | <LOD | 285 | 14092.8 | 610 | <LOD | 585 | <LOD |
| 255-01 | <LOD | 300 | 39987.2 | 829.6 | <LOD | 315 | 21593.6 | 630 | 1089.6 | 410 | 964 |
| 255-02 | <LOD | 95.4 | 352.4 | 220 | <LOD | 165 | 11596.8 | 390 | 420.8 | 250 | <LOD |
| 255-03 | <LOD | 225 | 4969.6 | 490 | <LOD | 300 | 17600 | 700 | <LOD | 660 | <LOD |
| 255-04 | <LOD | 95.7 | <LOD | 330 | <LOD | 180 | 12198.4 | 420 | 696.4 | 280 | <LOD |
| 256-01 | <LOD | 86.85 | <LOD | 300 | <LOD | 180 | 15296 | 420 | 648 | 270 | <LOD |
| 256-02 | <LOD | 285 | 21491.2 | 700 | <LOD | 285 | 13094.4 | 550 | 890.4 | 390 | <LOD |
| 256-03 | <LOD | 240 | 14796.8 | 560 | <LOD | 300 | 19699.2 | 650 | <LOD | 600 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 256-04 | <LOD | 89.55 | <LOD | 315 | 268.8 | 130 | 17190.4 | 450 | 643.6 | 290 | <LOD |
| 257-01 | <LOD | 88.95 | <LOD | 315 | <LOD | 180 | 14195.2 | 410 | 660 | 270 | <LOD |
| 257-02 | <LOD | 104.25 | <LOD | 360 | <LOD | 195 | 13888 | 440 | 456 | 290 | <LOD |
| 257-03 | <LOD | 90.45 | <LOD | 315 | <LOD | 180 | 14092.8 | 420 | 532.4 | 270 | <LOD |
| 257-04 | <LOD | 123.15 | <LOD | 435 | <LOD | 240 | 15296 | 540 | 622.8 | 350 | <LOD |
| 258-01 | <LOD | 150 | 3268.8 | 340 | <LOD | 210 | 11897.6 | 460 | 490.4 | 310 | <LOD |
| 258-02 | <LOD | 134.85 | <LOD | 465 | <LOD | 225 | 13491.2 | 520 | <LOD | 495 | <LOD |
| 258-03 | <LOD | 89.1 | <LOD | 315 | <LOD | 180 | 13094.4 | 400 | 577.2 | 260 | <LOD |
| 258-04 | <LOD | 92.1 | <LOD | 315 | <LOD | 195 | 14092.8 | 440 | <LOD | 420 | <LOD |
| 259-01 | <LOD | 121.35 | 1169.6 | 270 | <LOD | 195 | 11795.2 | 420 | <LOD | 420 | <LOD |
| 259-02 | <LOD | 141.45 | 588 | 320 | <LOD | 210 | 11596.8 | 480 | <LOD | 465 | <LOD |
| 259-03 | 96.1 | 59.9 | 370 | 200 | <LOD | 165 | 12896 | 380 | <LOD | 360 | <LOD |
| 259-04 | <LOD | 99.6 | <LOD | 330 | <LOD | 165 | 9849.6 | 360 | 534 | 250 | <LOD |
| 260-01 | <LOD | 131.25 | 722.4 | 290 | <LOD | 195 | 10400 | 430 | <LOD | 435 | <LOD |
| 260-02 | <LOD | 210 | <LOD | 735 | <LOD | 315 | 10694.4 | 680 | <LOD | 675 | <LOD |
| 260-03 | <LOD | 64.35 | <LOD | 210 | <LOD | 150 | 12998.4 | 360 | <LOD | 345 | <LOD |
| 260-04 | <LOD | 109.95 | <LOD | 375 | <LOD | 195 | 12000 | 440 | 517.6 | 290 | <LOD |
| 261-01 | <LOD | 69.15 | <LOD | 240 | <LOD | 149.25 | 10995.2 | 340 | <LOD | 315 | <LOD |
| 261-02 | <LOD | 61.05 | <LOD | 210 | <LOD | 143.85 | 12198.4 | 340 | <LOD | 315 | <LOD |
| 261-03 | <LOD | 57.3 | <LOD | 195 | <LOD | 133.05 | 10796.8 | 300 | 343.2 | 200 | <LOD |
| 261-04 | <LOD | 90.9 | <LOD | 315 | <LOD | 195 | 15590.4 | 450 | <LOD | 420 | <LOD |
| 262-01 | <LOD | 66.6 | <LOD | 225 | 190.6 | 94 | 10796.8 | 310 | 432.8 | 210 | <LOD |
| 262-02 | <LOD | 87.75 | <LOD | 300 | <LOD | 180 | 12697.6 | 410 | <LOD | 390 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 262-03 | <LOD | 99.75 | <LOD | 330 | <LOD | 180 | 11494.4 | 400 | <LOD | 390 | <LOD |
| 262-04 | <LOD | 115.35 | <LOD | 390 | <LOD | 210 | 13196.8 | 470 | <LOD | 435 | <LOD |
| 263-01 | <LOD | 91.2 | 649.6 | 210 | 175.8 | 110 | 10899.2 | 360 | <LOD | 345 | <LOD |
| 263-02 | <LOD | 255 | 22988.8 | 630 | <LOD | 255 | 12896 | 490 | <LOD | 495 | <LOD |
| 263-03 | <LOD | 123.9 | <LOD | 405 | <LOD | 195 | 12595.2 | 460 | <LOD | 450 | <LOD |
| 263-04 | <LOD | 132.75 | <LOD | 450 | 238.8 | 140 | 9804.8 | 440 | <LOD | 435 | <LOD |
| 264-01 | <LOD | 72.6 | <LOD | 240 | <LOD | 146.85 | 10796.8 | 330 | 319.2 | 210 | <LOD |
| 264-02 | <LOD | 150 | 2600 | 350 | <LOD | 210 | 10496 | 450 | 561.2 | 310 | <LOD |
| 264-03 | <LOD | 210 | 11200 | 510 | <LOD | 240 | 11699.2 | 500 | <LOD | 510 | 612.4 |
| 264-04 | <LOD | 122.1 | <LOD | 390 | 232.4 | 120 | 6956.8 | 350 | <LOD | 360 | <LOD |
| 265-01 | <LOD | 94.8 | <LOD | 330 | <LOD | 210 | 17395.2 | 470 | 940 | 310 | <LOD |
| 265-02 | <LOD | 136.35 | 1809.6 | 310 | <LOD | 225 | 15193.6 | 510 | 500.4 | 330 | <LOD |
| 265-03 | <LOD | 120.6 | <LOD | 405 | <LOD | 210 | 13491.2 | 470 | 830.4 | 320 | <LOD |
| 266-01 | <LOD | 255 | <LOD | 840 | <LOD | 300 | 9785.6 | 620 | <LOD | 630 | <LOD |
| 266-02 | <LOD | 180 | 3068.8 | 400 | <LOD | 240 | 12998.4 | 540 | <LOD | 555 | <LOD |
| 266-03 | <LOD | 66.75 | <LOD | 240 | <LOD | 143.55 | 11795.2 | 320 | 373.8 | 210 | <LOD |
| 266-04 | <LOD | 330 | 5427.2 | 760 | <LOD | 360 | 9875.2 | 700 | 1000 | 530 | <LOD |
| 268-01 | <LOD | 82.2 | 756.8 | 170 | <LOD | 106.35 | 4617.6 | 220 | 523.2 | 170 | <LOD |
| 268-02 | <LOD | 375 | 38784 | 1000 | <LOD | 330 | 11795.2 | 560 | <LOD | 600 | <LOD |
| 268-03 | <LOD | 180 | 1029.6 | 410 | 252.6 | 160 | 8588.8 | 480 | 686.4 | 350 | <LOD |
| 268-04 | <LOD | 100.95 | 729.2 | 230 | <LOD | 165 | 11398.4 | 380 | 390 | 250 | <LOD |
| 370-01 | <LOD | 195 | 14592 | 470 | <LOD | 255 | 18291.2 | 540 | 632 | 340 | <LOD |
| 370-02 | <LOD | 149.55 | 4480 | 350 | <LOD | 255 | 19097.6 | 570 | 1689.6 | 390 | <LOD |

## LOAD LINE 1 IN-SITU X-RAY FLUORESCENCE DATA FOR METALS

| Station # | Cu | +/- 3SD | Ni | +/- 3SD | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **370-03** | <LOD | 143.55 | 597.6 | 310 | <LOD | 210 | 10694.4 | 450 | <LOD | 450 | <LOD |
| **370-04** | <LOD | 91.8 | 520.8 | 210 | <LOD | 195 | 16396.8 | 440 | 484.8 | 280 | <LOD |

# 4. EX-SITU ANALYSIS DATA

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## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Station | Sample ID | Result Type | Date Collected | Field Sample Type | Media Description | La | +/- 3SD | Ba | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|
| LL1-001 | LL10800 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 40.5 | 461.2 | 69.7 |
| LL1-001 | LL10801 | REG | 9/19/00 | Grab | Subsurface soil | 57.8 | 37.1 | 490.8 | 78.3 |
| LL1-002 | LL10803 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 37.05 | 330.6 | 58.6 |
| LL1-002 | LL10804 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 44.25 | 279.2 | 65.6 |
| LL1-003 | LL10805 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 32.7 | 408.6 | 61.6 |
| LL1-004 | LL10808 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 31.5 | 475.6 | 64.4 |
| LL1-004 | LL10808 | DUP | 9/13/00 | Grab | Surface Soil | <LOD | 50.25 | 424 | 74.5 |
| LL1-004 | LL10809 | REG | 9/19/00 | Grab | Subsurface soil | 58.4 | 38.5 | 516 | 82.4 |
| LL1-005 | LL10810 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 42.3 | 1788.8 | 150 |
| LL1-006 | LL10813 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 37.2 | 366.8 | 58.8 |
| LL1-006 | LL10814 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 52.95 | 536.4 | 82.1 |
| LL1-007 | LL10815 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 31.65 | 297.2 | 53.2 |
| LL1-007 | LL10815 | DUP | 9/12/00 | Grab | Surface Soil | 41.9 | 16.1 | 322.2 | 35.8 |
| LL1-007 | LL10816 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 50.4 | 358.6 | 77 |
| LL1-008 | LL10817 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 33.9 | 488.8 | 66.6 |
| LL1-008 | LL10818 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 40.95 | 429.6 | 68.7 |
| LL1-008 | LL11113 | REG | 9/19/00 | Field Duplicate | Subsurface soil | <LOD | 47.1 | 427.6 | 69.7 |
| LL1-009 | LL10829 | REG | 9/14/00 | Grab | Surface Soil | <LOD | 38.4 | 538 | 91.6 |
| LL1-009 | LL10829 | DUP | 9/14/00 | Grab | Surface Soil | <LOD | 27.3 | 508.8 | 58.2 |
| LL1-010 | LL10832 | REG | 9/14/00 | Grab | Surface Soil | 35.3 | 23.2 | 376.2 | 56.2 |
| LL1-010 | LL10832 | DUP | 9/14/00 | Grab | Surface Soil | 43.6 | 16.9 | 346.6 | 38.2 |
| LL1-011 | LL10837 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 28.65 | 277.2 | 57.1 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD | Cd | +/- 3SD | Ag | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10800 | <LOD | 60.3 | <LOD | 65.25 | <LOD | 46.8 | <LOD | 147.75 | <LOD | 52.65 | <LOD | 360 |
| LL10801 | <LOD | 61.2 | <LOD | 61.35 | <LOD | 47.85 | <LOD | 140.4 | 54.1 | 33.9 | <LOD | 180 |
| LL10803 | <LOD | 47.25 | <LOD | 62.55 | <LOD | 50.4 | 354 | 110 | <LOD | 43.95 | <LOD | 330 |
| LL10804 | <LOD | 65.85 | <LOD | 68.4 | <LOD | 55.65 | <LOD | 150 | <LOD | 43.8 | <LOD | 195 |
| LL10805 | <LOD | 50.7 | <LOD | 58.65 | <LOD | 45.6 | <LOD | 136.35 | <LOD | 48 | <LOD | 315 |
| LL10808 | <LOD | 48.15 | <LOD | 60 | <LOD | 46.2 | 268.4 | 95.7 | <LOD | 41.55 | <LOD | 300 |
| LL10808 | <LOD | 59.25 | <LOD | 72.15 | <LOD | 50.4 | <LOD | 138.9 | <LOD | 43.8 | <LOD | 195 |
| LL10809 | <LOD | 58.2 | <LOD | 71.55 | <LOD | 50.25 | <LOD | 145.95 | <LOD | 34.8 | <LOD | 180 |
| LL10810 | <LOD | 89.85 | <LOD | 74.55 | <LOD | 65.1 | 492.4 | 120 | <LOD | 52.8 | <LOD | 390 |
| LL10813 | <LOD | 50.25 | <LOD | 59.85 | <LOD | 45.45 | <LOD | 132.15 | <LOD | 45.75 | <LOD | 315 |
| LL10814 | <LOD | 57.3 | <LOD | 66.45 | <LOD | 55.35 | <LOD | 138 | <LOD | 41.85 | <LOD | 180 |
| LL10815 | <LOD | 51 | <LOD | 59.85 | <LOD | 45.9 | <LOD | 130.95 | <LOD | 42.45 | <LOD | 315 |
| LL10815 | <LOD | 32.7 | <LOD | 44.4 | <LOD | 34.35 | <LOD | 80.1 | <LOD | 26.25 | <LOD | 129.9 |
| LL10816 | <LOD | 63.6 | <LOD | 76.95 | <LOD | 63.3 | <LOD | 165 | <LOD | 46.2 | <LOD | 210 |
| LL10817 | <LOD | 51.45 | <LOD | 60.6 | <LOD | 45.6 | <LOD | 134.4 | <LOD | 36.9 | <LOD | 315 |
| LL10818 | <LOD | 55.05 | <LOD | 64.95 | <LOD | 46.8 | <LOD | 134.55 | <LOD | 32.85 | <LOD | 165 |
| LL11113 | <LOD | 55.5 | <LOD | 71.7 | <LOD | 43.35 | <LOD | 140.1 | <LOD | 35.55 | <LOD | 180 |
| LL10829 | <LOD | 67.35 | <LOD | 73.05 | <LOD | 63.3 | 616.4 | 140 | <LOD | 59.55 | <LOD | 450 |
| LL10829 | <LOD | 44.85 | <LOD | 56.4 | <LOD | 46.65 | 134.1 | 75.1 | <LOD | 35.25 | <LOD | 165 |
| LL10832 | <LOD | 49.95 | <LOD | 59.7 | <LOD | 45.15 | <LOD | 132.45 | <LOD | 39.75 | <LOD | 315 |
| LL10832 | <LOD | 34.8 | <LOD | 44.1 | <LOD | 35.55 | <LOD | 82.8 | <LOD | 25.8 | <LOD | 135.75 |
| LL10837 | <LOD | 53.4 | <LOD | 68.25 | <LOD | 55.8 | <LOD | 148.2 | <LOD | 51.6 | <LOD | 345 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD | Rb | +/- 3SD | Pb | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10800 | <LOD | 39.15 | 9.3 | 5.3 | 324.8 | 11.2 | 111.7 | 8.3 | 70.9 | 8.6 | 792 | 35.8 |
| LL10801 | <LOD | 34.05 | 11.6 | 6.8 | 405.6 | 15 | 143.9 | 10.7 | 72.8 | 9.8 | 818.8 | 41.9 |
| LL10803 | <LOD | 39.15 | 14.8 | 5.8 | 478 | 12.8 | 68.8 | 7.2 | 79.1 | 8.6 | 222.4 | 21.6 |
| LL10804 | <LOD | 41.55 | 19.4 | 7.1 | 538 | 15.7 | 75.6 | 8.4 | 78.3 | 9.4 | 247.4 | 23.5 |
| LL10805 | <LOD | 35.55 | 10.7 | 5.6 | 522 | 12.8 | 61 | 6.7 | 77.3 | 8.2 | 813.2 | 33.9 |
| LL10808 | <LOD | 60.6 | 13.5 | 5.2 | 364.8 | 10.9 | 73.2 | 6.9 | 92.4 | 8.7 | 72.5 | 15.4 |
| LL10808 | <LOD | 33.15 | 10.2 | 6.1 | 327.8 | 12.6 | 77.8 | 8.3 | 117.7 | 10.9 | 38.6 | 13.3 |
| LL10809 | <LOD | 35.55 | 12.3 | 6.1 | 342.2 | 12.8 | 72.4 | 8.1 | 122.3 | 11 | 39 | 13.1 |
| LL10810 | <LOD | 46.8 | 14 | 6 | 352.2 | 13.2 | 281.4 | 12.5 | 66.5 | 9.9 | 2809.6 | 71.7 |
| LL10813 | <LOD | 34.35 | 18.8 | 6.5 | 666.4 | 15.4 | 70.6 | 7.4 | 92.6 | 9.3 | 98.8 | 18.3 |
| LL10814 | <LOD | 33.6 | 15.7 | 7.4 | 518.8 | 16.6 | 119.3 | 10.1 | 91 | 10.7 | 411.6 | 30.9 |
| LL10815 | <LOD | 35.55 | 17.8 | 5.7 | 457.6 | 12.3 | 68.5 | 7 | 81 | 8.5 | 160.7 | 19.1 |
| LL10815 | <LOD | 23.4 | <LOD | 9 | 495.6 | 9.2 | 51.3 | 4.7 | 83.4 | 6.5 | 164.5 | 15.7 |
| LL10816 | <LOD | 43.65 | 22.1 | 8.6 | 722.4 | 20.2 | 109.1 | 10.4 | 66.1 | 9.8 | 346.2 | 29.7 |
| LL10817 | <LOD | 35.25 | 12 | 4.9 | 275.4 | 9.8 | 72.2 | 6.9 | 120.8 | 9.6 | <LOD | 18 |
| LL10818 | <LOD | 27.6 | 11.5 | 5.8 | 259.4 | 11.5 | 67.1 | 8 | 158.3 | 12.3 | <LOD | 16.8 |
| LL11113 | <LOD | 33.75 | 12.7 | 5.7 | 292 | 11.5 | 63.2 | 7.6 | 160 | 11.9 | 18.1 | 11.3 |
| LL10829 | <LOD | 36.45 | 28.2 | 8.8 | <LOD | 30 | 204.7 | 23.4 | 55 | 18 | 14489.6 | 310 |
| LL10829 | <LOD | 31.8 | 13.7 | 8.1 | 36.3 | 9.6 | 92.2 | 14.4 | <LOD | 21.3 | 14694.4 | 230 |
| LL10832 | <LOD | 37.2 | 12.6 | 5.9 | 492.4 | 13.3 | 81.4 | 7.7 | 98.4 | 9.4 | 496.8 | 29.2 |
| LL10832 | <LOD | 24.15 | <LOD | 9.45 | 484.4 | 9.3 | 48.3 | 5 | 93.9 | 7 | 518.4 | 24.1 |
| LL10837 | <LOD | 38.7 | 11 | 6 | 410 | 13.3 | 101.6 | 9 | 62.1 | 9 | 1589.6 | 52.8 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD | Cu | +/- 3SD | Ni | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10800 | <LOD | 10.2 | <LOD | 43.5 | <LOD | 13.65 | 936 | 53.8 | 225 | 66.9 | <LOD | 300 |
| LL10801 | <LOD | 10.5 | <LOD | 41.55 | <LOD | 15.6 | 867.2 | 61.8 | 208.4 | 69.8 | <LOD | 142.35 |
| LL10803 | <LOD | 9.3 | <LOD | 27 | <LOD | 11.25 | 410 | 39.2 | <LOD | 81.3 | <LOD | 285 |
| LL10804 | <LOD | 9.6 | <LOD | 25.05 | <LOD | 13.2 | 344.2 | 41.7 | <LOD | 77.7 | <LOD | 127.35 |
| LL10805 | <LOD | 9.75 | <LOD | 40.8 | <LOD | 12.15 | 522 | 39.6 | <LOD | 74.1 | <LOD | 255 |
| LL10808 | <LOD | 8.55 | 21.6 | 13.2 | <LOD | 9.75 | 98.3 | 27 | <LOD | 67.8 | <LOD | 255 |
| LL10808 | <LOD | 9 | <LOD | 15.15 | <LOD | 11.4 | 93.5 | 30.3 | <LOD | 69.45 | <LOD | 119.1 |
| LL10809 | <LOD | 8.4 | <LOD | 15.45 | <LOD | 11.1 | 84 | 30 | <LOD | 70.5 | <LOD | 123.75 |
| LL10810 | <LOD | 14.1 | <LOD | 82.05 | <LOD | 21.75 | 3259.2 | 99.5 | 179.4 | 89.4 | <LOD | 360 |
| LL10813 | <LOD | 10.5 | <LOD | 23.4 | <LOD | 11.25 | 149.7 | 32.2 | <LOD | 79.95 | <LOD | 300 |
| LL10814 | <LOD | 10.5 | 39.9 | 21.8 | <LOD | 15.6 | 580.4 | 53.2 | <LOD | 93.15 | <LOD | 146.1 |
| LL10815 | <LOD | 9.15 | <LOD | 24 | <LOD | 10.65 | 264.6 | 35.5 | 131.6 | 59 | <LOD | 300 |
| LL10815 | ND | ND | <LOD | 22.05 | <LOD | 10.2 | 277.2 | 30.4 | 90.2 | 43.8 | <LOD | 117.45 |
| LL10816 | <LOD | 10.8 | <LOD | 30.45 | <LOD | 15.6 | 1209.6 | 79.6 | 1549.6 | 120 | <LOD | 195 |
| LL10817 | <LOD | 8.25 | 24.5 | 10.7 | <LOD | 9.15 | 100.7 | 26.5 | <LOD | 65.4 | <LOD | 255 |
| LL10818 | <LOD | 8.55 | 14.4 | 9.3 | <LOD | 11.1 | 86.6 | 29.3 | <LOD | 65.25 | <LOD | 122.4 |
| LL11113 | <LOD | 8.4 | <LOD | 13.35 | <LOD | 10.5 | 76.1 | 27.9 | <LOD | 64.05 | <LOD | 118.05 |
| LL10829 | <LOD | 37.95 | 316.6 | 180 | <LOD | 63.75 | 8646.4 | 260 | 1109.6 | 230 | 2179.2 | 720 |
| LL10829 | ND | ND | 451.6 | 160 | <LOD | 79.35 | 8908.8 | 230 | 947.2 | 220 | <LOD | 555 |
| LL10832 | <LOD | 9.9 | <LOD | 35.7 | <LOD | 12 | 464.8 | 43.4 | <LOD | 100.8 | 1849.6 | 230 |
| LL10832 | ND | ND | <LOD | 33.75 | <LOD | 13.65 | 445.6 | 36.2 | 77.5 | 47.5 | <LOD | 127.5 |
| LL10837 | <LOD | 12.6 | <LOD | 61.5 | <LOD | 17.4 | 2120 | 79.8 | 132.6 | 77.6 | <LOD | 345 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|
| LL10800 | 273.8 | 160 | 30694.4 | 600 | 1589.6 | 360 | <LOD | 330 |
| LL10801 | <LOD | 390 | 28492.8 | 700 | 1360 | 430 | <LOD | 285 |
| LL10803 | <LOD | 225 | 30080 | 580 | 890.4 | 340 | <LOD | 315 |
| LL10804 | <LOD | 375 | 27776 | 650 | 604.8 | 380 | <LOD | 240 |
| LL10805 | <LOD | 195 | 22297.6 | 470 | 499.2 | 280 | <LOD | 270 |
| LL10808 | <LOD | 195 | 23398.4 | 490 | <LOD | 420 | <LOD | 270 |
| LL10808 | <LOD | 345 | 24396.8 | 600 | <LOD | 525 | <LOD | 240 |
| LL10809 | <LOD | 345 | 24499.2 | 600 | <LOD | 540 | <LOD | 240 |
| LL10810 | 363.2 | 220 | 56473.6 | 929.6 | 1449.6 | 490 | <LOD | 435 |
| LL10813 | 276.2 | 170 | 36377.6 | 660 | 947.2 | 370 | <LOD | 345 |
| LL10814 | <LOD | 420 | 32588.8 | 760 | 1409.6 | 460 | <LOD | 300 |
| LL10815 | <LOD | 210 | 27187.2 | 540 | 971.2 | 320 | <LOD | 300 |
| LL10815 | <LOD | 315 | 26188.8 | 530 | 2649.6 | 460 | <LOD | 375 |
| LL10816 | <LOD | 495 | 41395.2 | 909.6 | 1029.6 | 510 | <LOD | 330 |
| LL10817 | <LOD | 210 | 25996.8 | 520 | 1389.6 | 320 | <LOD | 300 |
| LL10818 | <LOD | 345 | 24192 | 590 | <LOD | 510 | <LOD | 225 |
| LL11113 | <LOD | 315 | 22988.8 | 550 | <LOD | 480 | <LOD | 210 |
| LL10829 | 1369.6 | 780 | 343859.19 | 5798.4 | 3939.2 | 1600 | <LOD | 1320 |
| LL10829 | 3600 | 1200 | 353894.41 | 4800 | 25497.6 | 2499.2 | <LOD | 1800 |
| LL10832 | <LOD | 240 | 33280 | 620 | 768.4 | 350 | <LOD | 345 |
| LL10832 | 415.2 | 240 | 32486.4 | 610 | 3468.8 | 530 | <LOD | 420 |
| LL10837 | 356 | 200 | 45388.8 | 800 | <LOD | 630 | <LOD | 390 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Station | Sample ID | Result Type | Date Collected | Field Sample Type | Media Description | La | +/- 3SD | Ba | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|
| LL1-011 | LL11115 | REG | 9/19/00 | Field Duplicate | Subsurface soil | <LOD | 49.05 | 360.8 | 73 |
| LL1-011 | LL10838 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 51 | 398 | 75.7 |
| LL1-013 | LL10834 | REG | 9/15/00 | Grab | Surface Soil | <LOD | 39.6 | 334.4 | 62.8 |
| LL1-013 | LL10834 | DUP | 9/15/00 | Grab | Surface Soil | 31.6 | 17 | 348.2 | 41.8 |
| LL1-015 | LL10835 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 46.2 | 376.8 | 76.5 |
| LL1-014 | LL10839 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 34.2 | 320.8 | 57.2 |
| LL1-014 | LL10839 | DUP | 9/12/00 | Grab | Surface Soil | <LOD | 36.6 | 361 | 62.2 |
| LL1-014 | LL10840 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 40.2 | 363 | 65.8 |
| LL1-015 | LL10841 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 30.6 | 379.4 | 58.6 |
| LL1-016 | LL10857 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 30 | 464.4 | 63.4 |
| LL1-016 | LL10858 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 50.1 | 384.6 | 67 |
| LL1-023 | LL10788 | REG | 9/15/00 | Grab | Surface Soil | <LOD | 32.25 | 454 | 64.9 |
| LL1-023 | LL10788 | DUP | 9/15/00 | Grab | Surface Soil | 29.3 | 15.8 | 429.2 | 42.9 |
| LL1-023 | LL10789 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 44.25 | 425.2 | 79.9 |
| LL1-023 | LL10789 | DUP | 9/19/00 | Grab | Subsurface soil | <LOD | 55.2 | 436.4 | 84 |
| LL1-024 | LL10981 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 45.75 | 364.6 | 70.3 |
| LL1-024 | LL11112 | REG | 9/26/00 | Field Duplicate | Surface Soil | 58.6 | 38.4 | 487.2 | 79.5 |
| LL1-027 | LL10882 | REG | 9/17/00 | Grab | Surface Soil | <LOD | 46.2 | 357.6 | 69.8 |
| LL1-029 | LL10865 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 43.05 | 259 | 75.8 |
| LL1-034 | LL10766 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 54.75 | 370.2 | 72.6 |
| LL1-035 | LL10769 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 52.95 | 375 | 78.3 |
| LL1-037 | LL10771 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 50.4 | 341.4 | 73.1 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD | Cd | +/- 3SD | Ag | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL11115 | <LOD | 61.05 | <LOD | 68.7 | <LOD | 56.7 | <LOD | 165 | <LOD | 41.85 | <LOD | 195 |
| LL10838 | <LOD | 51.3 | <LOD | 70.5 | <LOD | 58.2 | <LOD | 150 | <LOD | 37.05 | <LOD | 195 |
| LL10834 | <LOD | 56.7 | <LOD | 63 | <LOD | 54 | 213.4 | 110 | <LOD | 47.4 | <LOD | 360 |
| LL10834 | <LOD | 37.05 | <LOD | 50.85 | <LOD | 33.9 | <LOD | 89.55 | <LOD | 32.25 | <LOD | 148.2 |
| LL10835 | <LOD | 52.35 | <LOD | 76.95 | <LOD | 62.55 | <LOD | 165 | <LOD | 43.2 | <LOD | 195 |
| LL10839 | <LOD | 46.65 | <LOD | 61.2 | <LOD | 50.55 | 195.7 | 100 | <LOD | 46.65 | <LOD | 330 |
| LL10839 | <LOD | 51.15 | <LOD | 67.05 | <LOD | 51.9 | <LOD | 148.65 | <LOD | 47.1 | <LOD | 360 |
| LL10840 | <LOD | 60.3 | <LOD | 65.85 | <LOD | 49.8 | <LOD | 139.2 | <LOD | 38.4 | <LOD | 165 |
| LL10841 | <LOD | 47.1 | <LOD | 65.55 | <LOD | 50.85 | 185.1 | 94.5 | <LOD | 39.6 | <LOD | 315 |
| LL10857 | <LOD | 47.4 | <LOD | 58.65 | <LOD | 44.4 | <LOD | 130.65 | <LOD | 40.5 | <LOD | 300 |
| LL10858 | <LOD | 58.5 | <LOD | 66.75 | <LOD | 49.95 | <LOD | 140.55 | <LOD | 31.5 | <LOD | 180 |
| LL10788 | <LOD | 48.45 | <LOD | 66.6 | <LOD | 46.35 | 170.9 | 96.2 | <LOD | 45.45 | <LOD | 315 |
| LL10788 | <LOD | 36 | <LOD | 49.05 | <LOD | 38.4 | 159.3 | 59.8 | <LOD | 26.4 | <LOD | 139.35 |
| LL10789 | <LOD | 61.05 | <LOD | 69.15 | <LOD | 60.75 | <LOD | 149.25 | <LOD | 39.15 | <LOD | 195 |
| LL10789 | <LOD | 53.55 | <LOD | 67.05 | <LOD | 56.7 | <LOD | 165 | <LOD | 46.95 | <LOD | 210 |
| LL10981 | <LOD | 57.9 | <LOD | 70.65 | <LOD | 43.95 | <LOD | 144 | <LOD | 38.7 | <LOD | 195 |
| LL11112 | <LOD | 57.6 | <LOD | 66.45 | <LOD | 51.6 | <LOD | 148.95 | <LOD | 38.25 | <LOD | 180 |
| LL10882 | <LOD | 52.35 | <LOD | 72.9 | <LOD | 52.05 | <LOD | 147.3 | <LOD | 43.05 | <LOD | 195 |
| LL10865 | <LOD | 61.35 | <LOD | 80.55 | <LOD | 78.75 | <LOD | 165 | <LOD | 63.45 | <LOD | 225 |
| LL10766 | <LOD | 53.55 | <LOD | 69.6 | <LOD | 51.6 | <LOD | 144.75 | <LOD | 37.65 | <LOD | 180 |
| LL10769 | <LOD | 60.9 | <LOD | 75.6 | <LOD | 59.4 | <LOD | 150 | <LOD | 48.9 | <LOD | 195 |
| LL10771 | <LOD | 59.55 | <LOD | 78 | <LOD | 53.1 | <LOD | 150 | <LOD | 49.5 | <LOD | 195 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD | Rb | +/- 3SD | Pb | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL11115 | <LOD | 34.2 | <LOD | 11.25 | 446 | 16.6 | 87.7 | 10.3 | 106.4 | 12 | 900 | 46.9 |
| LL10838 | <LOD | 33 | 30.8 | 9.4 | 822.4 | 22.4 | 103 | 10.8 | 75.7 | 10.6 | 596.8 | 39 |
| LL10834 | <LOD | 37.95 | <LOD | 8.4 | 378 | 12.1 | 112.6 | 8.4 | 58.9 | 8.4 | 348.8 | 26.2 |
| LL10834 | <LOD | 28.2 | <LOD | 8.55 | 367.8 | 8.2 | 93.3 | 5.8 | 57.7 | 6.1 | 328 | 19.9 |
| LL10835 | <LOD | 36.3 | 20.1 | 8.6 | 760.8 | 20.4 | 79.2 | 9.5 | 99.9 | 11.2 | 217.6 | 24.5 |
| LL10839 | <LOD | 33.9 | 10.2 | 5.2 | 337 | 10.7 | 56.6 | 6.7 | 83.2 | 8.6 | 300.2 | 23.3 |
| LL10839 | <LOD | 39.45 | 8.4 | 5.3 | 384.2 | 11.4 | 60.7 | 6.8 | 91.4 | 8.8 | 293.8 | 23 |
| LL10840 | <LOD | 31.2 | 12.9 | 6.4 | 432 | 13.9 | 67.4 | 7.9 | 93.1 | 9.7 | 40.4 | 13.2 |
| LL10841 | <LOD | 38.1 | 15.8 | 7.5 | 868.8 | 19.1 | 99.8 | 9 | 74.8 | 9.6 | 627.6 | 35.6 |
| LL10857 | <LOD | 34.95 | 7.9 | 4.7 | 339.6 | 9.9 | 61.6 | 6.1 | 85.7 | 7.9 | <LOD | 16.65 |
| LL10858 | <LOD | 32.4 | <LOD | 9.15 | 351.2 | 13.2 | 69.7 | 8.2 | 109.5 | 10.6 | 26.4 | 12.7 |
| LL10788 | <LOD | 37.95 | 9.5 | 5.2 | 372.8 | 11 | 66.9 | 6.8 | 104.2 | 9.1 | 119.4 | 17.4 |
| LL10788 | <LOD | 28.65 | <LOD | 8.1 | 354.8 | 7.7 | 51.1 | 4.7 | 109.2 | 7.1 | 147.1 | 15.6 |
| LL10789 | <LOD | 37.2 | 9.7 | 6.2 | 308.4 | 12.7 | 71 | 8.4 | 116.4 | 11.2 | 22.9 | 12.8 |
| LL10789 | <LOD | 36.9 | <LOD | 8.7 | 293 | 12.1 | 68.6 | 8.1 | 116.3 | 10.9 | 31 | 12.9 |
| LL10981 | <LOD | 36.45 | <LOD | 9.3 | 352.6 | 13.3 | 83.4 | 8.6 | 97.7 | 10.3 | 39.4 | 13.6 |
| LL11112 | <LOD | 38.1 | <LOD | 8.1 | 252.6 | 11 | 88.5 | 8.2 | 87.3 | 9.3 | 63.3 | 14.1 |
| LL10882 | <LOD | 33.9 | 20.5 | 6.9 | 448.8 | 14.5 | 58 | 7.9 | 102.8 | 10.4 | 135 | 18.8 |
| LL10865 | <LOD | 40.8 | <LOD | 8.85 | <LOD | 19.5 | 124 | 15.1 | 29.8 | 9.9 | 5939.2 | 140 |
| LL10766 | <LOD | 30.6 | 10.3 | 6.4 | 396.4 | 13.9 | 64.9 | 8.2 | 112.8 | 10.9 | 108.6 | 17.5 |
| LL10769 | <LOD | 30.75 | 12.6 | 6.2 | 326.4 | 12.8 | 63.6 | 8.1 | 113.2 | 10.9 | 199.2 | 21.6 |
| LL10771 | <LOD | 39.45 | 17.2 | 6.9 | 434 | 14.8 | 73.1 | 8.6 | 89.3 | 10.1 | 178.3 | 21.2 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD | Cu | +/- 3SD | Ni | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL11115 | <LOD | 12.75 | <LOD | 46.95 | <LOD | 17.7 | 1489.6 | 82 | <LOD | 118.95 | <LOD | 180 |
| LL10838 | <LOD | 12.15 | 43.2 | 26.9 | <LOD | 17.4 | 1169.6 | 74.6 | <LOD | 113.85 | <LOD | 180 |
| LL10834 | <LOD | 10.2 | <LOD | 31.35 | <LOD | 11.85 | 336.6 | 41 | <LOD | 100.95 | 1180 | 230 |
| LL10834 | ND | ND | <LOD | 28.05 | <LOD | 12.9 | 359.6 | 33.6 | <LOD | 66.9 | <LOD | 122.85 |
| LL10835 | <LOD | 10.95 | <LOD | 26.4 | <LOD | 13.95 | 334 | 45.4 | <LOD | 86.7 | <LOD | 165 |
| LL10839 | <LOD | 9.75 | <LOD | 28.35 | <LOD | 11.1 | 167.1 | 31 | <LOD | 76.65 | <LOD | 270 |
| LL10839 | <LOD | 9.3 | <LOD | 28.35 | <LOD | 10.95 | 182.8 | 32 | <LOD | 80.25 | <LOD | 285 |
| LL10840 | <LOD | 9.15 | <LOD | 15.45 | <LOD | 11.55 | 95 | 30.1 | <LOD | 67.8 | <LOD | 113.55 |
| LL10841 | <LOD | 11.7 | <LOD | 43.05 | <LOD | 14.7 | 327.4 | 42.9 | <LOD | 99 | <LOD | 375 |
| LL10857 | <LOD | 8.25 | <LOD | 13.95 | <LOD | 8.55 | 60.7 | 23.1 | <LOD | 59.85 | <LOD | 225 |
| LL10858 | <LOD | 9.15 | <LOD | 15.15 | <LOD | 11.4 | 62.7 | 29.1 | <LOD | 67.95 | <LOD | 123.6 |
| LL10788 | <LOD | 9.3 | <LOD | 21.75 | <LOD | 10.05 | 118.8 | 27.9 | <LOD | 68.7 | <LOD | 255 |
| LL10788 | ND | ND | <LOD | 20.7 | <LOD | 9.75 | 126.2 | 24 | <LOD | 54 | <LOD | 114.45 |
| LL10789 | <LOD | 9.3 | <LOD | 15.45 | <LOD | 12.15 | 105.2 | 32.1 | <LOD | 72.6 | <LOD | 139.05 |
| LL10789 | <LOD | 8.85 | 21.2 | 10.6 | <LOD | 11.4 | 114.1 | 31.6 | <LOD | 69.6 | <LOD | 129.45 |
| LL10981 | <LOD | 9 | <LOD | 15.45 | <LOD | 12 | 791.2 | 59.5 | 823.2 | 84.5 | <LOD | 144.45 |
| LL11112 | <LOD | 8.4 | 19.5 | 11 | <LOD | 11.55 | 1209.6 | 72.2 | 2548.8 | 120 | <LOD | 165 |
| LL10882 | <LOD | 9.15 | 26.6 | 14.1 | <LOD | 12.45 | 390.2 | 43.2 | <LOD | 77.85 | <LOD | 132.15 |
| LL10865 | <LOD | 20.85 | 226.4 | 83.2 | <LOD | 35.7 | 5728 | 180 | 1089.6 | 160 | <LOD | 345 |
| LL10766 | <LOD | 9.15 | <LOD | 19.05 | <LOD | 11.85 | 224.6 | 37.4 | <LOD | 78 | <LOD | 130.65 |
| LL10769 | <LOD | 9 | <LOD | 22.5 | <LOD | 12 | 240.8 | 38 | <LOD | 78.75 | <LOD | 129.45 |
| LL10771 | <LOD | 9.3 | 36.3 | 15.9 | <LOD | 12.9 | 306.2 | 41.6 | <LOD | 82.95 | <LOD | 140.25 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|
| LL11115 | <LOD | 555 | 50278.4 | 1000 | 1040 | 570 | <LOD | 345 |
| LL10838 | <LOD | 570 | 54067.2 | 1100 | <LOD | 870 | <LOD | 360 |
| LL10834 | <LOD | 225 | 27494.4 | 570 | 1529.6 | 360 | <LOD | 345 |
| LL10834 | <LOD | 330 | 27878.4 | 570 | 3328 | 500 | <LOD | 420 |
| LL10835 | <LOD | 510 | 46796.8 | 969.6 | <LOD | 765 | <LOD | 315 |
| LL10839 | <LOD | 210 | 25894.4 | 520 | 797.2 | 310 | <LOD | 285 |
| LL10839 | <LOD | 210 | 26496 | 530 | 566.8 | 310 | <LOD | 300 |
| LL10840 | <LOD | 315 | 20096 | 530 | <LOD | 495 | <LOD | 225 |
| LL10841 | 347 | 220 | 53964.8 | 909.6 | 921.6 | 470 | <LOD | 420 |
| LL10857 | 191.6 | 110 | 16998.4 | 380 | <LOD | 345 | <LOD | 240 |
| LL10858 | <LOD | 360 | 25292.8 | 620 | <LOD | 540 | <LOD | 240 |
| LL10788 | <LOD | 210 | 28185.6 | 540 | 745.2 | 310 | <LOD | 300 |
| LL10788 | <LOD | 330 | 27878.4 | 540 | 2560 | 470 | <LOD | 375 |
| LL10789 | <LOD | 405 | 31283.2 | 720 | <LOD | 615 | <LOD | 255 |
| LL10789 | <LOD | 390 | 30976 | 700 | <LOD | 600 | <LOD | 255 |
| LL10981 | <LOD | 375 | 29184 | 680 | <LOD | 585 | <LOD | 255 |
| LL11112 | 380.6 | 250 | 30182.4 | 660 | 2040 | 420 | <LOD | 270 |
| LL10882 | <LOD | 375 | 29286.4 | 680 | 692 | 400 | <LOD | 255 |
| LL10865 | <LOD | 1110 | 179916.8 | 2800 | <LOD | 1650 | 1449.6 | 440 |
| LL10766 | <LOD | 375 | 28492.8 | 670 | 915.2 | 400 | <LOD | 255 |
| LL10769 | <LOD | 375 | 27187.2 | 650 | <LOD | 570 | <LOD | 240 |
| LL10771 | <LOD | 405 | 32281.6 | 730 | 762.8 | 420 | <LOD | 270 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Station | Sample ID | Result Type | Date Collected | Field Sample Type | Media Description | La | +/- 3SD | Ba | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|
| LL1-038 | LL10735 | REG | 9/20/00 | Grab | Surface Soil | <LOD | 46.05 | 441.2 | 72.1 |
| LL1-039 | LL10975 | REG | 9/29/00 | Grab | Surface Soil | <LOD | 48.45 | 323.8 | 73.9 |
| LL1-046 | LL11048 | REG | 9/17/00 | Grab | Sediment | <LOD | 49.05 | 463.2 | 82.2 |
| LL1-047 | LL11270 | REG | 9/26/00 | Grab | Sediment | <LOD | 43.5 | 434 | 74.9 |
| LL1-048 | LL11050 | REG | 9/17/00 | Grab | Sediment | <LOD | 49.65 | 333 | 65.6 |
| LL1-048 | LL11135 | REG | 9/17/00 | Field Duplicate | Sediment | <LOD | 49.5 | 368.2 | 71.7 |
| LL1-049 | LL11051 | REG | 9/16/00 | Grab | Sediment | 30.4 | 16.8 | 315.2 | 40.5 |
| LL1-050 | LL11052 | REG | 9/16/00 | Grab | Sediment | <LOD | 48 | 290.8 | 63.2 |
| LL1-050 | LL11052 | DUP | 9/16/00 | Grab | Sediment | <LOD | 42 | 348.6 | 66.8 |
| LL1-050 | LL11134 | REG | 9/16/00 | Field Duplicate | Sediment | <LOD | 18.75 | 332.8 | 38 |
| LL1-051 | LL11053 | REG | 9/16/00 | Grab | Sediment | <LOD | 46.2 | 418 | 66.8 |
| LL1-060 | LL11055 | REG | 9/15/00 | Grab | Sediment | 22.9 | 14.6 | 379.6 | 40.2 |
| LL1-068 | LL10748 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 46.5 | 438 | 73.3 |
| LL1-068 | LL10749 | REG | 9/29/00 | Grab | Subsurface soil | <LOD | 55.65 | 526.8 | 87.9 |
| LL1-070 | LL11054 | REG | 9/17/00 | Grab | Sediment | <LOD | 51 | 408.2 | 70.6 |
| LL1-077 | LL11015 | REG | 9/15/00 | Grab | Sediment | 26 | 14.9 | 342.8 | 37.9 |
| LL1-077 | LL11015 | DUP | 9/15/00 | Grab | Sediment | 36.1 | 15.6 | 343.4 | 37.1 |
| LL1-086 | LL10722 | REG | 9/25/00 | Grab | Surface Soil | <LOD | 47.4 | 322 | 64 |
| LL1-087 | LL10723 | REG | 9/25/00 | Grab | Surface Soil | <LOD | 33.75 | 532.8 | 80.4 |
| LL1-087 | LL11216 | REG | 9/28/00 | Grab | Subsurface soil | <LOD | 45.45 | 438.8 | 83.3 |
| LL1-088 | LL10724 | REG | 9/25/00 | Grab | Surface Soil | 59.6 | 36.2 | 329.6 | 65 |
| LL1-088 | LL11117 | REG | 9/25/00 | Field Duplicate | Surface Soil | <LOD | 41.1 | 346.2 | 65.6 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD | Cd | +/- 3SD | Ag | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10735 | <LOD | 51.15 | <LOD | 67.95 | <LOD | 54.75 | <LOD | 141.6 | <LOD | 31.35 | <LOD | 180 |
| LL10975 | <LOD | 62.25 | <LOD | 73.2 | <LOD | 61.35 | <LOD | 165 | <LOD | 41.55 | <LOD | 195 |
| LL11048 | <LOD | 67.35 | <LOD | 75.75 | <LOD | 47.7 | <LOD | 165 | <LOD | 39.3 | <LOD | 195 |
| LL11270 | <LOD | 55.05 | <LOD | 73.65 | <LOD | 45.9 | <LOD | 141.9 | <LOD | 38.25 | <LOD | 180 |
| LL11050 | <LOD | 55.5 | <LOD | 63.6 | <LOD | 48.9 | <LOD | 140.7 | <LOD | 31.65 | <LOD | 180 |
| LL11135 | <LOD | 55.05 | <LOD | 68.25 | <LOD | 57.3 | <LOD | 145.5 | <LOD | 39.75 | <LOD | 180 |
| LL11051 | <LOD | 82.5 | <LOD | 54.45 | 3520 | 150 | <LOD | 100.8 | <LOD | 37.8 | <LOD | 148.05 |
| LL11052 | <LOD | 54 | <LOD | 61.2 | <LOD | 53.1 | <LOD | 145.65 | <LOD | 38.55 | <LOD | 180 |
| LL11052 | <LOD | 56.4 | <LOD | 68.1 | <LOD | 54.9 | <LOD | 135 | <LOD | 38.4 | <LOD | 165 |
| LL11134 | <LOD | 33.6 | <LOD | 48.15 | <LOD | 38.4 | 115 | 57.8 | <LOD | 28.2 | <LOD | 136.05 |
| LL11053 | <LOD | 55.2 | <LOD | 58.8 | <LOD | 53.1 | <LOD | 129 | <LOD | 34.2 | <LOD | 165 |
| LL11055 | <LOD | 35.55 | <LOD | 45.75 | <LOD | 32.55 | <LOD | 80.1 | <LOD | 27.15 | <LOD | 134.7 |
| LL10748 | <LOD | 59.1 | <LOD | 66.15 | <LOD | 49.95 | <LOD | 144.6 | <LOD | 38.25 | <LOD | 180 |
| LL10749 | <LOD | 69 | <LOD | 85.8 | <LOD | 62.1 | <LOD | 150 | <LOD | 37.05 | <LOD | 195 |
| LL11054 | <LOD | 56.7 | <LOD | 63 | <LOD | 52.2 | <LOD | 136.65 | <LOD | 37.65 | <LOD | 180 |
| LL11015 | <LOD | 36.9 | <LOD | 47.4 | <LOD | 32.25 | <LOD | 82.95 | <LOD | 25.5 | <LOD | 134.1 |
| LL11015 | <LOD | 32.1 | <LOD | 48.9 | <LOD | 31.35 | <LOD | 78.15 | <LOD | 26.1 | <LOD | 128.85 |
| LL10722 | <LOD | 54.9 | <LOD | 70.65 | <LOD | 53.1 | <LOD | 147 | <LOD | 31.8 | <LOD | 180 |
| LL10723 | <LOD | 55.8 | <LOD | 61.5 | <LOD | 52.05 | 166.7 | 100 | <LOD | 45.45 | <LOD | 180 |
| LL11216 | <LOD | 62.7 | <LOD | 74.55 | <LOD | 58.2 | <LOD | 165 | <LOD | 38.7 | <LOD | 195 |
| LL10724 | <LOD | 54.75 | <LOD | 70.5 | <LOD | 53.7 | <LOD | 145.05 | <LOD | 40.2 | <LOD | 180 |
| LL11117 | <LOD | 58.65 | <LOD | 61.2 | <LOD | 52.65 | <LOD | 137.4 | <LOD | 39.6 | <LOD | 180 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD | Rb | +/- 3SD | Pb | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10735 | <LOD | 33.3 | 14.6 | 6.4 | 306.6 | 13.1 | 74.2 | 8.8 | 133.3 | 12.1 | 80 | 16.7 |
| LL10975 | <LOD | 37.65 | 10.9 | 6.5 | 432.8 | 14.1 | 68.1 | 8 | 102.9 | 10.3 | 40.4 | 13.2 |
| LL11048 | <LOD | 36 | 10.5 | 5.6 | 247 | 11 | 67.3 | 7.7 | 122.9 | 10.8 | 33.3 | 12.5 |
| LL11270 | <LOD | 28.8 | <LOD | 9.75 | 405.4 | 14.1 | 71.3 | 8.4 | 95 | 10.2 | 36.5 | 13.8 |
| LL11050 | <LOD | 33.15 | 17.6 | 6.2 | 381.2 | 12.8 | 72.2 | 7.8 | 121.5 | 10.6 | 109.1 | 16.5 |
| LL11135 | <LOD | 38.55 | 20.8 | 6.4 | 432.4 | 13.5 | 74.8 | 7.9 | 117 | 10.5 | 106.3 | 16.6 |
| LL11051 | <LOD | 29.25 | <LOD | 7.2 | 199.6 | 6.2 | 62.6 | 5.6 | 89.3 | 7.1 | 2160 | 44.8 |
| LL11052 | <LOD | 37.8 | 13.8 | 5.5 | 215.2 | 10.5 | 62.8 | 7.8 | 86.5 | 9.3 | 90.7 | 16.1 |
| LL11052 | <LOD | 31.5 | 13.8 | 5.9 | 322.6 | 12.1 | 67.8 | 7.8 | 93.2 | 9.5 | 63.7 | 14.3 |
| LL11134 | <LOD | 27.75 | <LOD | 7.8 | 340.8 | 7.4 | 44.2 | 4.4 | 90.7 | 6.4 | 61.5 | 12.6 |
| LL11053 | <LOD | 34.5 | 14.1 | 6.1 | 359.2 | 12.6 | 67.1 | 7.7 | 90.4 | 9.5 | 27.4 | 12 |
| LL11055 | <LOD | 26.7 | 135.6 | 6.7 | 259.2 | 6.4 | 45.9 | 4.4 | 125 | 7.2 | 36.4 | 12.2 |
| LL10748 | <LOD | 30.75 | <LOD | 9.15 | 272.2 | 12.4 | 106.8 | 9.4 | 137.2 | 12.2 | 24.8 | 13.1 |
| LL10749 | <LOD | 36 | 11.9 | 6.3 | 316.8 | 12.8 | 72.8 | 8.4 | 134.4 | 11.9 | <LOD | 18.15 |
| LL11054 | <LOD | 36.15 | 19.3 | 6.4 | 386 | 13.2 | 76.4 | 8.1 | 99.7 | 10 | 90.8 | 16 |
| LL11015 | <LOD | 27.6 | 24 | 5.5 | 320.2 | 7.2 | 47.6 | 4.5 | 104.3 | 6.8 | 30.2 | 11.9 |
| LL11015 | <LOD | 25.5 | 18.6 | 5.5 | 344.6 | 7.4 | 42.5 | 4.4 | 111.9 | 7 | 19.7 | 11.6 |
| LL10722 | <LOD | 35.25 | 10.8 | 6.9 | 503.2 | 15.4 | 71 | 8.3 | 98.5 | 10.4 | 33.6 | 13.5 |
| LL10723 | <LOD | 38.4 | 17.7 | 7.2 | 392.4 | 15.4 | 100.2 | 10.4 | 94.9 | 11.3 | 1389.6 | 56.8 |
| LL11216 | <LOD | 29.7 | 15.6 | 7.1 | 453.6 | 15.4 | 58.4 | 8.5 | 84.5 | 10.1 | 443.6 | 31.7 |
| LL10724 | <LOD | 30.6 | 10.6 | 6.2 | 295.6 | 12.5 | 75.5 | 8.6 | 121 | 11.4 | 28.3 | 13.3 |
| LL11117 | <LOD | 32.85 | 11.5 | 6.1 | 263.4 | 12.4 | 75.9 | 8.8 | 118.6 | 11.3 | 41.2 | 14.1 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD | Cu | +/- 3SD | Ni | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10735 | <LOD | 9.6 | <LOD | 18.15 | <LOD | 12.75 | 128.7 | 33.6 | <LOD | 72.45 | <LOD | 138.6 |
| LL10975 | <LOD | 8.7 | <LOD | 14.7 | <LOD | 10.8 | 95.8 | 30.3 | <LOD | 67.2 | <LOD | 117.15 |
| LL11048 | <LOD | 8.4 | <LOD | 14.4 | <LOD | 11.55 | 202.2 | 33.9 | <LOD | 67.2 | <LOD | 114 |
| LL11270 | <LOD | 9.75 | <LOD | 16.5 | <LOD | 12.45 | 296.4 | 40.2 | <LOD | 77.1 | <LOD | 143.1 |
| LL11050 | <LOD | 8.55 | <LOD | 17.4 | <LOD | 11.55 | 313.4 | 37.9 | <LOD | 70.35 | <LOD | 119.55 |
| LL11135 | <LOD | 9.15 | <LOD | 17.85 | <LOD | 10.95 | 334 | 39 | <LOD | 72.45 | <LOD | 119.85 |
| LL11051 | ND | ND | <LOD | 60.75 | <LOD | 20.25 | 569.6 | 39.8 | 303.4 | 54.5 | <LOD | 130.35 |
| LL11052 | <LOD | 9.15 | 21 | 12.2 | <LOD | 12.15 | 1149.6 | 63.8 | 381 | 72.1 | <LOD | 150 |
| LL11052 | <LOD | 8.7 | 18.9 | 11 | <LOD | 10.8 | 868.8 | 56.3 | 293.4 | 66 | <LOD | 138.15 |
| LL11134 | ND | ND | <LOD | 17.1 | <LOD | 9.75 | 822.4 | 43 | 228.4 | 53.8 | <LOD | 122.1 |
| LL11053 | <LOD | 8.7 | <LOD | 13.95 | <LOD | 10.2 | 110.6 | 30.2 | <LOD | 67.95 | <LOD | 112.65 |
| LL11055 | ND | ND | 53 | 12 | <LOD | 9.45 | 113.4 | 22.4 | <LOD | 51.45 | <LOD | 104.55 |
| LL10748 | <LOD | 9.3 | 25.9 | 11.2 | <LOD | 12.75 | 251 | 39.2 | <LOD | 79.2 | <LOD | 133.8 |
| LL10749 | <LOD | 9.3 | 16.3 | 10 | <LOD | 11.85 | 99.9 | 31.4 | <LOD | 68.7 | <LOD | 125.7 |
| LL11054 | <LOD | 9 | <LOD | 17.85 | <LOD | 11.85 | 258.2 | 36.9 | <LOD | 73.05 | <LOD | 123.3 |
| LL11015 | ND | ND | <LOD | 15.75 | <LOD | 9.45 | 132.4 | 23.8 | <LOD | 53.85 | <LOD | 109.5 |
| LL11015 | ND | ND | <LOD | 15.3 | <LOD | 8.55 | 119.9 | 23.2 | <LOD | 53.25 | <LOD | 111 |
| LL10722 | <LOD | 9.3 | <LOD | 15.75 | <LOD | 12 | 143.3 | 34 | <LOD | 72.75 | <LOD | 133.65 |
| LL10723 | <LOD | 12.15 | <LOD | 55.5 | <LOD | 18.9 | 1920 | 90.3 | 209.2 | 86.1 | <LOD | 165 |
| LL11216 | <LOD | 10.35 | <LOD | 32.25 | <LOD | 14.25 | 548.8 | 51.5 | <LOD | 89.55 | <LOD | 145.65 |
| LL10724 | <LOD | 9.45 | 23.3 | 10.9 | <LOD | 11.1 | 128.5 | 33.3 | <LOD | 72.3 | <LOD | 139.95 |
| LL11117 | <LOD | 9 | <LOD | 16.5 | <LOD | 11.7 | 138 | 34 | <LOD | 75.3 | <LOD | 139.8 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|
| LL10735 | 492 | 280 | 30387.2 | 720 | 777.6 | 420 | <LOD | 270 |
| LL10975 | <LOD | 330 | 21696 | 570 | 675.2 | 350 | <LOD | 240 |
| LL11048 | <LOD | 330 | 21888 | 550 | 686.8 | 340 | <LOD | 225 |
| LL11270 | <LOD | 420 | 36889.6 | 780 | 1840 | 470 | <LOD | 300 |
| LL11050 | <LOD | 330 | 24396.8 | 580 | 1189.6 | 360 | <LOD | 240 |
| LL11135 | <LOD | 345 | 25190.4 | 590 | 956.8 | 360 | <LOD | 240 |
| LL11051 | 407.6 | 240 | 32998.4 | 600 | 2969.6 | 510 | <LOD | 420 |
| LL11052 | <LOD | 450 | 46182.4 | 860 | 1120 | 480 | <LOD | 300 |
| LL11052 | <LOD | 390 | 34380.8 | 710 | 696.8 | 410 | <LOD | 255 |
| LL11134 | <LOD | 330 | 29388.8 | 550 | 2028.8 | 460 | <LOD | 360 |
| LL11053 | <LOD | 315 | 19993.6 | 520 | 1389.6 | 350 | <LOD | 240 |
| LL11055 | <LOD | 285 | 22092.8 | 470 | 1899.2 | 410 | <LOD | 330 |
| LL10748 | <LOD | 390 | 28697.6 | 690 | 772 | 410 | <LOD | 270 |
| LL10749 | <LOD | 360 | 25689.6 | 640 | <LOD | 570 | <LOD | 240 |
| LL11054 | <LOD | 345 | 25689.6 | 610 | 976.8 | 370 | <LOD | 255 |
| LL11015 | 311.4 | 200 | 24396.8 | 500 | 2468.8 | 440 | <LOD | 345 |
| LL11015 | <LOD | 300 | 24896 | 500 | 1229.6 | 420 | <LOD | 330 |
| LL10722 | <LOD | 390 | 29286.4 | 680 | 1029.6 | 410 | <LOD | 270 |
| LL10723 | <LOD | 480 | 38784 | 869.6 | 1409.6 | 510 | <LOD | 330 |
| LL11216 | <LOD | 420 | 34099.2 | 780 | 1369.6 | 460 | <LOD | 315 |
| LL10724 | <LOD | 405 | 32998.4 | 740 | <LOD | 645 | <LOD | 270 |
| LL11117 | <LOD | 420 | 33484.8 | 750 | 754 | 430 | <LOD | 270 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Station | Sample ID | Result Type | Date Collected | Field Sample Type | Media Description | La | +/- 3SD | Ba | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|
| LL1-089 | LL10726 | REG | 9/25/00 | Grab | Surface Soil | <LOD | 44.1 | 366 | 65.3 |
| LL1-090 | LL10727 | REG | 9/25/00 | Grab | Surface Soil | <LOD | 60.15 | 496 | 85.8 |
| LL1-091 | LL10728 | REG | 9/25/00 | Grab | Surface Soil | <LOD | 43.2 | 407.2 | 77.3 |
| LL1-092 | LL10730 | REG | 9/25/00 | Grab | Surface Soil | <LOD | 45.15 | 386.8 | 68.5 |
| LL1-093 | LL10731 | REG | 9/25/00 | Grab | Surface Soil | <LOD | 51 | 393.8 | 72 |
| LL1-094 | LL10732 | REG | 9/25/00 | Grab | Surface Soil | <LOD | 45.15 | 416.8 | 71.8 |
| LL1-095 | LL10734 | REG | 9/25/00 | Grab | Surface Soil | <LOD | 44.25 | 450.4 | 76 |
| LL1-096 | LL10737 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 53.55 | 448.8 | 74.2 |
| LL1-097 | LL10738 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 45.9 | 542.8 | 86.2 |
| LL1-098 | LL10739 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 44.85 | 503.6 | 79.4 |
| LL1-099 | LL10740 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 50.55 | 410 | 73.4 |
| LL1-099 | LL11118 | REG | 9/26/00 | Field Duplicate | Surface Soil | <LOD | 52.65 | 435.2 | 78.8 |
| LL1-099 | LL11118 | DUP | 9/26/00 | Field Duplicate | Surface Soil | <LOD | 48.75 | 416.8 | 67.8 |
| LL1-099 | LL11230 | REG | 9/29/00 | Grab | Subsurface soil | <LOD | 55.2 | 387.2 | 76.3 |
| LL1-100 | LL10741 | REG | 9/20/00 | Grab | Surface Soil | <LOD | 47.4 | 374.6 | 70.1 |
| LL1-101 | LL10743 | REG | 9/20/00 | Grab | Surface Soil | <LOD | 45.3 | 436 | 70 |
| LL1-102 | LL10744 | REG | 9/19/00 | Grab | Surface Soil | 52.5 | 34 | 368.6 | 67 |
| LL1-103 | LL10745 | REG | 9/19/00 | Grab | Surface Soil | 59.6 | 35.9 | 419.2 | 70.8 |
| LL1-103 | LL10745 | DUP | 9/19/00 | Grab | Surface Soil | <LOD | 46.95 | 333.8 | 70.3 |
| LL1-104 | LL10747 | REG | 9/19/00 | Grab | Surface Soil | <LOD | 43.95 | 389.2 | 70.9 |
| LL1-105 | LL10750 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 51 | 380.4 | 73.3 |
| LL1-106 | LL10751 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 46.95 | 444 | 76 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD | Cd | +/- 3SD | Ag | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10726 | <LOD | 52.65 | <LOD | 64.2 | <LOD | 47.55 | <LOD | 138.45 | <LOD | 34.35 | <LOD | 165 |
| LL10727 | <LOD | 70.95 | <LOD | 75.15 | <LOD | 57.6 | <LOD | 150 | <LOD | 40.2 | <LOD | 195 |
| LL10728 | <LOD | 53.4 | <LOD | 78.45 | <LOD | 62.1 | <LOD | 150 | <LOD | 54.15 | <LOD | 195 |
| LL10730 | <LOD | 52.5 | <LOD | 63.3 | <LOD | 50.4 | <LOD | 141.3 | <LOD | 33.15 | <LOD | 180 |
| LL10731 | <LOD | 56.55 | <LOD | 69 | <LOD | 51.6 | <LOD | 141.45 | <LOD | 36.15 | <LOD | 180 |
| LL10732 | <LOD | 54.3 | <LOD | 66 | <LOD | 53.55 | <LOD | 136.8 | <LOD | 30.9 | <LOD | 180 |
| LL10734 | <LOD | 60 | <LOD | 60.45 | <LOD | 42 | <LOD | 143.25 | <LOD | 39.6 | <LOD | 180 |
| LL10737 | <LOD | 59.7 | <LOD | 74.1 | <LOD | 42.75 | <LOD | 142.35 | <LOD | 31.5 | <LOD | 180 |
| LL10738 | <LOD | 59.85 | <LOD | 73.2 | <LOD | 51.45 | <LOD | 150 | <LOD | 43.05 | <LOD | 195 |
| LL10739 | <LOD | 62.25 | <LOD | 64.2 | <LOD | 48.75 | <LOD | 142.5 | <LOD | 37.5 | <LOD | 180 |
| LL10740 | <LOD | 55.35 | <LOD | 66 | <LOD | 56.1 | <LOD | 138.75 | <LOD | 34.05 | <LOD | 180 |
| LL11118 | <LOD | 62.4 | <LOD | 74.85 | <LOD | 62.1 | <LOD | 144.6 | <LOD | 42.15 | <LOD | 195 |
| LL11118 | <LOD | 55.8 | <LOD | 66.45 | <LOD | 50.55 | <LOD | 133.05 | <LOD | 38.25 | <LOD | 165 |
| LL11230 | <LOD | 62.7 | <LOD | 78.6 | <LOD | 61.35 | <LOD | 165 | <LOD | 47.25 | <LOD | 195 |
| LL10741 | <LOD | 63 | <LOD | 70.5 | <LOD | 51.3 | <LOD | 144.6 | <LOD | 37.05 | <LOD | 180 |
| LL10743 | <LOD | 50.25 | <LOD | 63 | <LOD | 45.3 | <LOD | 133.2 | <LOD | 39.75 | <LOD | 165 |
| LL10744 | <LOD | 49.8 | <LOD | 70.2 | <LOD | 48.6 | <LOD | 137.7 | <LOD | 40.95 | <LOD | 180 |
| LL10745 | <LOD | 53.4 | <LOD | 65.1 | <LOD | 53.85 | <LOD | 134.85 | <LOD | 33.9 | <LOD | 165 |
| LL10745 | <LOD | 55.05 | <LOD | 79.2 | <LOD | 50.7 | <LOD | 149.1 | <LOD | 35.25 | <LOD | 195 |
| LL10747 | <LOD | 54.75 | <LOD | 65.25 | <LOD | 49.8 | <LOD | 139.65 | <LOD | 38.85 | <LOD | 180 |
| LL10750 | <LOD | 58.8 | <LOD | 62.25 | <LOD | 56.7 | <LOD | 148.95 | <LOD | 38.85 | <LOD | 195 |
| LL10751 | <LOD | 59.55 | <LOD | 69.15 | <LOD | 52.95 | <LOD | 141 | <LOD | 36.3 | <LOD | 180 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD | Rb | +/- 3SD | Pb | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10726 | <LOD | 37.5 | 11.5 | 6.1 | 274.4 | 12.3 | 66.9 | 8.5 | 126.6 | 11.6 | 44.1 | 14.4 |
| LL10727 | <LOD | 34.65 | <LOD | 8.4 | 221 | 11.4 | 90.6 | 8.9 | 155.7 | 12.5 | 34.1 | 13.5 |
| LL10728 | <LOD | 41.85 | <LOD | 9.15 | 155.3 | 12.4 | 286.4 | 15.1 | 42.6 | 9.8 | 693.6 | 43.7 |
| LL10730 | <LOD | 34.35 | 16.4 | 6.3 | 316.8 | 12.9 | 100.9 | 9.2 | 106.3 | 10.7 | 231 | 23.2 |
| LL10731 | <LOD | 35.4 | 10.8 | 6.1 | 345.2 | 12.8 | 62.4 | 8 | 103.6 | 10.3 | 35.6 | 13.1 |
| LL10732 | <LOD | 33.6 | 9.5 | 6 | 301.2 | 12.4 | 68.6 | 8.2 | 128.9 | 11.4 | 44 | 13.9 |
| LL10734 | <LOD | 34.65 | 10.4 | 6.1 | 287.8 | 12.4 | 72.5 | 8.4 | 112.7 | 11 | 33.9 | 13.3 |
| LL10737 | <LOD | 32.1 | 11.9 | 5.8 | 274 | 11.7 | 70.7 | 8 | 132.3 | 11.3 | 29.3 | 12.6 |
| LL10738 | <LOD | 40.05 | <LOD | 8.7 | 297.6 | 12 | 65.6 | 7.9 | 117.6 | 10.9 | 32.2 | 12.8 |
| LL10739 | <LOD | 36.15 | <LOD | 8.7 | 262.4 | 12.1 | 79.1 | 8.6 | 138.5 | 11.8 | 24.4 | 12.7 |
| LL10740 | <LOD | 35.25 | 11.1 | 6 | 284.4 | 12.3 | 85.5 | 8.6 | 119.1 | 11.1 | <LOD | 17.85 |
| LL11118 | <LOD | 36.3 | 10.1 | 6 | 283.4 | 12 | 59.4 | 7.9 | 119.7 | 11.1 | <LOD | 18.15 |
| LL11118 | <LOD | 33 | 9.6 | 6 | 296.2 | 12.3 | 71.9 | 8.3 | 123.1 | 11.2 | <LOD | 17.7 |
| LL11230 | <LOD | 35.25 | 16.4 | 6.2 | 282.6 | 12.3 | 68.5 | 8.3 | 131.1 | 11.7 | 21.2 | 12.6 |
| LL10741 | <LOD | 29.4 | 16.1 | 6.6 | 365.4 | 13.7 | 79.4 | 8.7 | 120 | 11.3 | 73.9 | 16.1 |
| LL10743 | <LOD | 30.9 | 11.5 | 6.3 | 331.2 | 13.2 | 84 | 8.8 | 114.2 | 11.2 | 81.6 | 16.4 |
| LL10744 | <LOD | 33.15 | 14.6 | 6.1 | 280 | 12 | 78.7 | 8.4 | 120.8 | 11.2 | 57.8 | 14.8 |
| LL10745 | <LOD | 34.95 | 15.3 | 6.5 | 319.8 | 13 | 77.7 | 8.7 | 126.5 | 11.8 | 57.4 | 15.3 |
| LL10745 | <LOD | 38.85 | <LOD | 9.15 | 319.6 | 12.9 | 79 | 8.6 | 112.7 | 10.9 | 60.2 | 14.9 |
| LL10747 | <LOD | 33.45 | 13.2 | 6.4 | 287.6 | 13.1 | 111.6 | 9.9 | 122.6 | 12 | 280.2 | 26.2 |
| LL10750 | <LOD | 34.8 | <LOD | 9.3 | 298.2 | 12.8 | 108 | 9.5 | 135.4 | 12.2 | 55 | 15.4 |
| LL10751 | <LOD | 37.65 | 9.7 | 5.9 | 269.6 | 12.1 | 89 | 8.8 | 131.7 | 11.6 | 112.9 | 17.9 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD | Cu | +/- 3SD | Ni | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10726 | <LOD | 9.45 | <LOD | 16.5 | <LOD | 12.45 | 99.7 | 32 | <LOD | 72.6 | <LOD | 144.3 |
| LL10727 | <LOD | 8.85 | 16.8 | 10.7 | <LOD | 11.55 | 138.8 | 33.3 | <LOD | 74.25 | <LOD | 146.1 |
| LL10728 | <LOD | 12.6 | <LOD | 44.1 | <LOD | 16.65 | 1060 | 74.7 | <LOD | 115.35 | <LOD | 165 |
| LL10730 | <LOD | 9.45 | <LOD | 24.45 | <LOD | 12.9 | 491.2 | 47.7 | <LOD | 87.6 | <LOD | 150 |
| LL10731 | <LOD | 8.4 | 16.7 | 10.5 | <LOD | 11.55 | 112.1 | 31.4 | <LOD | 69 | <LOD | 134.4 |
| LL10732 | <LOD | 9.3 | <LOD | 15.75 | <LOD | 10.95 | 108.1 | 31.1 | <LOD | 68.55 | <LOD | 130.35 |
| LL10734 | <LOD | 9 | <LOD | 15.45 | <LOD | 12.3 | 109.6 | 32.3 | <LOD | 73.5 | <LOD | 131.1 |
| LL10737 | <LOD | 8.85 | <LOD | 14.55 | <LOD | 11.55 | 84.1 | 29.5 | <LOD | 68.25 | <LOD | 126.45 |
| LL10738 | <LOD | 9 | <LOD | 14.55 | <LOD | 11.1 | 83 | 29.6 | <LOD | 68.4 | <LOD | 120.15 |
| LL10739 | <LOD | 9.3 | <LOD | 15.3 | <LOD | 11.85 | 100.7 | 31 | <LOD | 69.6 | <LOD | 129.3 |
| LL10740 | <LOD | 9.15 | <LOD | 14.25 | <LOD | 11.4 | 56.9 | 28.7 | <LOD | 68.7 | <LOD | 122.25 |
| LL11118 | <LOD | 9.15 | <LOD | 14.4 | <LOD | 11.55 | 74.1 | 29.7 | <LOD | 68.55 | <LOD | 123.9 |
| LL11118 | <LOD | 9.3 | 14.7 | 9.7 | <LOD | 11.4 | 85.2 | 30.1 | <LOD | 68.85 | <LOD | 126.9 |
| LL11230 | <LOD | 9.45 | <LOD | 14.7 | <LOD | 11.25 | 57.2 | 29.3 | <LOD | 70.5 | <LOD | 129.75 |
| LL10741 | <LOD | 9.6 | <LOD | 17.4 | <LOD | 11.4 | 185.7 | 35.9 | <LOD | 74.7 | <LOD | 138.3 |
| LL10743 | <LOD | 9.45 | <LOD | 17.85 | <LOD | 11.7 | 129.4 | 33.1 | <LOD | 70.95 | <LOD | 127.95 |
| LL10744 | <LOD | 9.3 | <LOD | 17.1 | <LOD | 11.4 | 98.4 | 31.3 | <LOD | 71.7 | <LOD | 130.35 |
| LL10745 | <LOD | 9.45 | <LOD | 17.7 | <LOD | 12.3 | 127.3 | 33.8 | <LOD | 73.35 | <LOD | 139.05 |
| LL10745 | <LOD | 8.85 | 24.5 | 11.8 | <LOD | 11.55 | 160.8 | 34.5 | <LOD | 75.15 | <LOD | 136.95 |
| LL10747 | <LOD | 9.75 | <LOD | 27.15 | <LOD | 13.65 | 213.2 | 38.9 | <LOD | 80.85 | <LOD | 140.55 |
| LL10750 | <LOD | 10.2 | <LOD | 17.55 | <LOD | 12.3 | 155.4 | 35.1 | <LOD | 75.3 | <LOD | 138.9 |
| LL10751 | <LOD | 9.6 | <LOD | 19.35 | <LOD | 11.85 | 252.2 | 38.3 | <LOD | 77.7 | <LOD | 132 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|
| LL10726 | <LOD | 435 | 34892.8 | 770 | <LOD | 645 | <LOD | 270 |
| LL10727 | 484 | 290 | 36480 | 770 | 727.6 | 440 | <LOD | 255 |
| LL10728 | <LOD | 420 | 26099.2 | 750 | 2560 | 510 | <LOD | 360 |
| LL10730 | <LOD | 450 | 41676.8 | 840 | 728.8 | 470 | <LOD | 300 |
| LL10731 | <LOD | 390 | 32384 | 710 | <LOD | 600 | <LOD | 270 |
| LL10732 | <LOD | 375 | 28492.8 | 660 | <LOD | 570 | <LOD | 255 |
| LL10734 | <LOD | 360 | 24896 | 630 | 834.4 | 380 | <LOD | 255 |
| LL10737 | <LOD | 345 | 25292.8 | 610 | <LOD | 525 | <LOD | 225 |
| LL10738 | <LOD | 330 | 22297.6 | 570 | <LOD | 495 | <LOD | 225 |
| LL10739 | <LOD | 390 | 29388.8 | 680 | <LOD | 585 | <LOD | 255 |
| LL10740 | <LOD | 360 | 24499.2 | 610 | 742 | 370 | <LOD | 240 |
| LL11118 | <LOD | 360 | 25792 | 630 | <LOD | 540 | <LOD | 225 |
| LL11118 | <LOD | 360 | 25894.4 | 630 | <LOD | 555 | <LOD | 240 |
| LL11230 | <LOD | 375 | 26496 | 650 | <LOD | 555 | <LOD | 240 |
| LL10741 | <LOD | 405 | 31385.6 | 720 | 1200 | 430 | <LOD | 270 |
| LL10743 | <LOD | 360 | 24896 | 630 | <LOD | 555 | <LOD | 255 |
| LL10744 | <LOD | 390 | 28800 | 670 | 638 | 390 | <LOD | 255 |
| LL10745 | <LOD | 405 | 32281.6 | 740 | <LOD | 615 | 281.4 | 180 |
| LL10745 | <LOD | 405 | 31385.6 | 710 | 629.2 | 410 | <LOD | 255 |
| LL10747 | <LOD | 420 | 31078.4 | 740 | 702.8 | 430 | <LOD | 270 |
| LL10750 | <LOD | 405 | 31283.2 | 730 | <LOD | 630 | <LOD | 270 |
| LL10751 | <LOD | 375 | 28595.2 | 670 | <LOD | 585 | <LOD | 255 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Station | Sample ID | Result Type | Date Collected | Field Sample Type | Media Description | La | +/- 3SD | Ba | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|
| LL1-107 | LL10752 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 48 | 500 | 79.9 |
| LL1-108 | LL10753 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 43.8 | 388.2 | 68.5 |
| LL1-108 | LL11120 | REG | 9/26/00 | Field Duplicate | Surface Soil | 88.3 | 43.8 | 444.4 | 78.9 |
| LL1-109 | LL10755 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 50.1 | 491.6 | 97.5 |
| LL1-109 | LL11235 | REG | 9/28/00 | Grab | Subsurface soil | <LOD | 61.65 | 414 | 110 |
| LL1-110 | LL10756 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 63.15 | 381.8 | 83.1 |
| LL1-110 | LL11234 | REG | 9/28/00 | Grab | Subsurface soil | <LOD | 60 | 358.8 | 76.9 |
| LL1-111 | LL10757 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 66.75 | 551.6 | 100 |
| LL1-112 | LL10758 | REG | 9/26/00 | Grab | Surface Soil | 67.7 | 42.6 | 365.2 | 77.8 |
| LL1-113 | LL10759 | REG | 9/26/00 | Grab | Surface Soil | 63.9 | 37.6 | 393.8 | 71.1 |
| LL1-114 | LL10760 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 46.8 | 392.4 | 69.6 |
| LL1-115 | LL10761 | REG | 9/26/00 | Grab | Surface Soil | 61 | 36 | 246 | 57.6 |
| LL1-116 | LL10762 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 49.05 | 309.6 | 70.3 |
| LL1-117 | LL10763 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 52.35 | 459.6 | 80.8 |
| LL1-118 | LL10764 | REG | 9/27/00 | Grab | Surface Soil | 119.1 | 59.8 | 783.6 | 120 |
| LL1-118 | LL11345 | REG | 10/3/00 | Grab | Subsurface soil | <LOD | 51.6 | 335.4 | 67.9 |
| LL1-119 | LL10765 | REG | 9/27/00 | Grab | Surface Soil | 133.4 | 53.7 | 438 | 81.9 |
| LL1-119 | LL11344 | REG | 10/3/00 | Grab | Subsurface soil | <LOD | 60.75 | 402.8 | 80.5 |
| LL1-120 | LL10773 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 56.1 | 412.8 | 82.6 |
| LL1-121 | LL11104 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 58.2 | 444.8 | 91.9 |
| LL1-122 | LL10774 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 57.75 | 446.8 | 82 |
| LL1-123 | LL10775 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 48.75 | 347 | 70 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD | Cd | +/- 3SD | Ag | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10752 | <LOD | 56.7 | <LOD | 64.5 | <LOD | 59.4 | <LOD | 150 | <LOD | 46.05 | <LOD | 180 |
| LL10753 | <LOD | 58.2 | <LOD | 62.25 | <LOD | 43.2 | <LOD | 141.15 | <LOD | 40.5 | <LOD | 180 |
| LL11120 | <LOD | 55.35 | <LOD | 70.95 | <LOD | 53.85 | <LOD | 150 | <LOD | 41.85 | <LOD | 195 |
| LL10755 | <LOD | 80.1 | <LOD | 79.65 | 205 | 73.5 | <LOD | 180 | <LOD | 64.95 | <LOD | 225 |
| LL11235 | <LOD | 82.65 | <LOD | 99.15 | <LOD | 86.25 | <LOD | 225 | <LOD | 85.2 | <LOD | 270 |
| LL10756 | <LOD | 70.8 | <LOD | 79.65 | <LOD | 65.4 | <LOD | 180 | <LOD | 42.9 | <LOD | 210 |
| LL11234 | <LOD | 59.85 | <LOD | 71.7 | <LOD | 44.4 | <LOD | 150 | <LOD | 41.1 | <LOD | 195 |
| LL10757 | <LOD | 67.8 | <LOD | 81.3 | <LOD | 66.45 | <LOD | 165 | <LOD | 59.55 | <LOD | 210 |
| LL10758 | <LOD | 62.85 | <LOD | 68.55 | <LOD | 55.35 | <LOD | 150 | <LOD | 49.35 | <LOD | 195 |
| LL10759 | <LOD | 49.65 | <LOD | 72.9 | <LOD | 52.2 | <LOD | 142.95 | <LOD | 35.7 | <LOD | 180 |
| LL10760 | <LOD | 54.6 | <LOD | 64.95 | <LOD | 49.8 | <LOD | 137.1 | <LOD | 36 | <LOD | 180 |
| LL10761 | <LOD | 53.85 | <LOD | 73.95 | <LOD | 53.4 | <LOD | 138.45 | <LOD | 31.05 | <LOD | 180 |
| LL10762 | <LOD | 56.85 | <LOD | 71.4 | <LOD | 55.35 | <LOD | 149.1 | <LOD | 37.65 | <LOD | 195 |
| LL10763 | <LOD | 56.7 | <LOD | 63 | <LOD | 53.1 | <LOD | 150 | <LOD | 42 | <LOD | 195 |
| LL10764 | <LOD | 81.3 | <LOD | 82.2 | <LOD | 62.1 | <LOD | 195 | <LOD | 47.1 | <LOD | 225 |
| LL11345 | <LOD | 49.5 | <LOD | 68.25 | <LOD | 52.65 | <LOD | 142.2 | <LOD | 40.35 | <LOD | 180 |
| LL10765 | <LOD | 64.65 | <LOD | 76.95 | <LOD | 52.8 | <LOD | 150 | <LOD | 46.8 | <LOD | 210 |
| LL11344 | <LOD | 70.95 | <LOD | 79.95 | <LOD | 61.5 | <LOD | 165 | <LOD | 43.8 | <LOD | 210 |
| LL10773 | <LOD | 56.7 | <LOD | 70.5 | <LOD | 54.15 | <LOD | 165 | <LOD | 40.35 | <LOD | 210 |
| LL11104 | <LOD | 73.65 | <LOD | 79.95 | <LOD | 66.6 | <LOD | 180 | <LOD | 50.4 | <LOD | 225 |
| LL10774 | <LOD | 67.05 | <LOD | 72 | <LOD | 49.5 | <LOD | 150 | <LOD | 36.45 | <LOD | 195 |
| LL10775 | <LOD | 58.95 | <LOD | 67.95 | <LOD | 55.05 | <LOD | 143.25 | <LOD | 45 | <LOD | 195 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD | Rb | +/- 3SD | Pb | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10752 | <LOD | 38.7 | 14.1 | 6.4 | 299.8 | 13.1 | 88 | 9.2 | 123.1 | 11.7 | 350 | 28.2 |
| LL10753 | <LOD | 31.65 | 9.2 | 6.1 | 323.8 | 12.8 | 74.5 | 8.4 | 140.2 | 11.8 | 32.5 | 13.1 |
| LL11120 | <LOD | 38.7 | 10.8 | 6.1 | 274.6 | 12.4 | 76.3 | 8.7 | 153.7 | 12.7 | 27.1 | 13.3 |
| LL10755 | <LOD | 39.3 | <LOD | 10.95 | 315.4 | 15.6 | 99.1 | 11.8 | 71.1 | 11.1 | 1800 | 70 |
| LL11235 | <LOD | 49.05 | 11.2 | 6.2 | 154.2 | 12.4 | 88.3 | 11.1 | 67.3 | 10.3 | 1380 | 59.2 |
| LL10756 | <LOD | 38.4 | 14.5 | 6.4 | 293.8 | 12.8 | 80.4 | 8.8 | 133.7 | 12.1 | 24.2 | 13.1 |
| LL11234 | <LOD | 41.7 | 11.8 | 6.4 | 221.2 | 12.7 | 179.9 | 11.9 | 117.6 | 12.4 | 133.7 | 20.8 |
| LL10757 | <LOD | 45.3 | <LOD | 10.05 | 112 | 12.8 | 277.6 | 16 | 35.9 | 9.9 | 555.6 | 41.9 |
| LL10758 | <LOD | 40.35 | <LOD | 9.3 | 146.7 | 11.9 | 249 | 13.8 | 43.9 | 9.4 | 399.2 | 32.9 |
| LL10759 | <LOD | 38.4 | 44.7 | 7.6 | 281.8 | 13.8 | 213.6 | 12.7 | 44.7 | 9.1 | 213.8 | 25 |
| LL10760 | <LOD | 33 | 17.1 | 6.1 | 377 | 12.7 | 60.9 | 7.5 | 106.1 | 9.9 | 45.9 | 12.9 |
| LL10761 | <LOD | 31.8 | 13.4 | 6.1 | 393.8 | 13 | 62.9 | 7.6 | 79.1 | 8.8 | 47 | 13.2 |
| LL10762 | <LOD | 37.5 | 10.7 | 5.3 | 250.6 | 10.4 | 71.5 | 7.4 | 108.7 | 9.8 | 85.1 | 14.8 |
| LL10763 | <LOD | 39.6 | <LOD | 10.35 | 301 | 14.3 | 215.6 | 12.8 | 63.8 | 10.2 | 48.8 | 16.2 |
| LL10764 | <LOD | 52.2 | <LOD | 10.35 | 260.8 | 14.2 | 278.6 | 14.5 | 70.7 | 11 | 48 | 16.7 |
| LL11345 | <LOD | 38.85 | 16.7 | 6.5 | 380.4 | 13.6 | 89.6 | 8.7 | 93.2 | 10 | 36.3 | 13.4 |
| LL10765 | <LOD | 40.05 | 14.9 | 7 | 284.8 | 14.1 | 191.6 | 12.4 | 58.4 | 9.9 | 39.4 | 15.9 |
| LL11344 | <LOD | 37.35 | 17 | 6.9 | 434.4 | 14.6 | 73.9 | 8.5 | 95.3 | 10.3 | 34.9 | 13.7 |
| LL10773 | <LOD | 41.1 | <LOD | 10.5 | 481.6 | 15.8 | 73.5 | 8.8 | 108 | 11 | 104.4 | 18 |
| LL11104 | <LOD | 46.65 | 22.6 | 7.3 | 524.4 | 16.1 | 75.7 | 8.8 | 92.2 | 10.1 | 466.8 | 31.3 |
| LL10774 | <LOD | 39.3 | 14 | 6.1 | 311 | 12.5 | 72 | 8.3 | 134.8 | 11.6 | 186.5 | 21.1 |
| LL10775 | <LOD | 31.2 | 14.8 | 7 | 532.4 | 15.8 | 61.8 | 8.1 | 103.2 | 10.4 | 244.8 | 23.4 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD | Cu | +/- 3SD | Ni | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10752 | <LOD | 9.45 | <LOD | 29.1 | <LOD | 13.65 | 604 | 52.9 | 154.8 | 63 | <LOD | 139.35 |
| LL10753 | <LOD | 8.85 | 16 | 10.4 | <LOD | 11.4 | 137.4 | 32.6 | <LOD | 70.5 | <LOD | 132.6 |
| LL11120 | <LOD | 9.45 | 17.6 | 10.7 | <LOD | 11.85 | 85.6 | 31.3 | <LOD | 72.15 | <LOD | 140.85 |
| LL10755 | <LOD | 14.4 | 109 | 46 | <LOD | 27.15 | 9414.4 | 230 | 430.8 | 160 | <LOD | 240 |
| LL11235 | <LOD | 13.65 | 63.9 | 38.9 | <LOD | 21.45 | 4508.8 | 150 | 1180 | 140 | <LOD | 255 |
| LL10756 | <LOD | 9.3 | <LOD | 15.3 | <LOD | 12.15 | 86.1 | 32.1 | <LOD | 75.9 | <LOD | 137.4 |
| LL11234 | <LOD | 10.5 | 23.5 | 15.4 | <LOD | 13.5 | 693.6 | 58.6 | <LOD | 99.75 | <LOD | 150 |
| LL10757 | <LOD | 14.4 | <LOD | 42.45 | <LOD | 21.15 | 5088 | 170 | 824 | 150 | <LOD | 210 |
| LL10758 | <LOD | 11.55 | <LOD | 33.45 | <LOD | 15.45 | 719.2 | 62 | <LOD | 106.8 | <LOD | 165 |
| LL10759 | <LOD | 10.95 | <LOD | 26.4 | <LOD | 16.05 | 2419.2 | 100 | <LOD | 130.95 | <LOD | 150 |
| LL10760 | <LOD | 7.95 | <LOD | 14.85 | <LOD | 10.65 | 375.6 | 39.8 | <LOD | 71.4 | <LOD | 119.25 |
| LL10761 | <LOD | 9 | <LOD | 15.45 | <LOD | 11.1 | 674.4 | 48.9 | <LOD | 78.3 | <LOD | 116.7 |
| LL10762 | <LOD | 8.55 | <LOD | 16.5 | <LOD | 10.2 | 350.8 | 37.8 | <LOD | 66.9 | <LOD | 111.3 |
| LL10763 | <LOD | 10.5 | <LOD | 18.6 | <LOD | 13.8 | 134 | 37.7 | <LOD | 82.2 | <LOD | 142.35 |
| LL10764 | <LOD | 11.1 | <LOD | 19.8 | <LOD | 14.4 | 137.9 | 39.5 | <LOD | 87.45 | <LOD | 142.2 |
| LL11345 | <LOD | 9.15 | <LOD | 15.75 | <LOD | 11.4 | 115.8 | 31.9 | <LOD | 70.5 | <LOD | 130.65 |
| LL10765 | <LOD | 11.7 | <LOD | 18.3 | <LOD | 13.05 | 88.1 | 35.6 | <LOD | 80.25 | <LOD | 130.65 |
| LL11344 | <LOD | 9.75 | 20.3 | 11.1 | <LOD | 11.85 | 76.5 | 30.9 | <LOD | 71.1 | <LOD | 132.6 |
| LL10773 | <LOD | 9.6 | 23.2 | 13.6 | <LOD | 12.15 | 254.4 | 40.8 | 159.9 | 59.2 | <LOD | 140.4 |
| LL11104 | <LOD | 10.35 | <LOD | 31.35 | <LOD | 13.65 | 765.6 | 55.9 | <LOD | 88.8 | <LOD | 133.65 |
| LL10774 | <LOD | 9.6 | <LOD | 21.9 | <LOD | 12.15 | 206.6 | 35.7 | <LOD | 70.95 | <LOD | 136.2 |
| LL10775 | <LOD | 9.6 | 29.5 | 16.8 | <LOD | 12.3 | 339.2 | 42 | 91.2 | 55.3 | <LOD | 131.55 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|
| LL10752 | <LOD | 420 | 31283.2 | 730 | <LOD | 630 | <LOD | 270 |
| LL10753 | <LOD | 375 | 29184 | 670 | <LOD | 570 | <LOD | 240 |
| LL11120 | <LOD | 405 | 30976 | 720 | <LOD | 600 | <LOD | 255 |
| LL10755 | <LOD | 720 | 78796.8 | 1500 | 1329.6 | 740 | <LOD | 450 |
| LL11235 | <LOD | 780 | 97280 | 1699.2 | <LOD | 1170 | 488.8 | 300 |
| LL10756 | <LOD | 405 | 29491.2 | 710 | 826.4 | 420 | <LOD | 255 |
| LL11234 | <LOD | 450 | 34688 | 820 | 1449.6 | 490 | <LOD | 330 |
| LL10757 | <LOD | 585 | 45491.2 | 1100 | 4080 | 690 | <LOD | 465 |
| LL10758 | <LOD | 495 | 40985.6 | 940 | 2040 | 560 | <LOD | 360 |
| LL10759 | <LOD | 420 | 27980.8 | 740 | 4368 | 540 | <LOD | 390 |
| LL10760 | <LOD | 330 | 25497.6 | 590 | <LOD | 525 | <LOD | 225 |
| LL10761 | <LOD | 330 | 24998.4 | 580 | <LOD | 510 | <LOD | 225 |
| LL10762 | <LOD | 315 | 24499.2 | 570 | 1729.6 | 370 | <LOD | 240 |
| LL10763 | <LOD | 390 | 24294.4 | 690 | 3318.4 | 500 | <LOD | 360 |
| LL10764 | <LOD | 390 | 21888 | 670 | 4857.6 | 540 | <LOD | 405 |
| LL11345 | <LOD | 375 | 29491.2 | 680 | 1060 | 410 | <LOD | 270 |
| LL10765 | <LOD | 330 | 16588.8 | 560 | 3459.2 | 460 | <LOD | 345 |
| LL11344 | <LOD | 390 | 29286.4 | 690 | 750.8 | 410 | <LOD | 270 |
| LL10773 | <LOD | 405 | 29696 | 710 | <LOD | 615 | <LOD | 270 |
| LL11104 | <LOD | 375 | 28083.2 | 670 | 1020 | 410 | <LOD | 270 |
| LL10774 | <LOD | 405 | 32000 | 710 | 621.2 | 410 | <LOD | 255 |
| LL10775 | <LOD | 360 | 26675.2 | 640 | 695.2 | 380 | <LOD | 255 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Station | Sample ID | Result Type | Date Collected | Field Sample Type | Media Description | La | +/- 3SD | Ba | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|
| LL1-124 | LL10776 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 50.7 | 393.6 | 71.9 |
| LL1-125 | LL10777 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 54.45 | 435.6 | 78.2 |
| LL1-125 | LL11122 | REG | 9/27/00 | Field Duplicate | Surface Soil | <LOD | 41.85 | 511.2 | 87.2 |
| LL1-126 | LL10779 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 68.55 | 465.2 | 92.3 |
| LL1-127 | LL10780 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 44.85 | 295.2 | 73.5 |
| LL1-128 | LL10781 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 47.25 | 288.2 | 68.8 |
| LL1-128 | LL10781 | DUP | 9/27/00 | Grab | Surface Soil | <LOD | 44.55 | 322.8 | 84.5 |
| LL1-129 | LL10782 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 37.5 | 304.8 | 53.7 |
| LL1-129 | LL11116 | REG | 9/27/00 | Field Duplicate | Surface Soil | <LOD | 53.25 | 241.4 | 62.9 |
| LL1-130 | LL11121 | REG | 9/27/00 | Field Duplicate | Surface Soil | <LOD | 50.55 | 318.8 | 75.3 |
| LL1-130 | LL10783 | REG | 9/27/00 | Grab | Surface Soil | <LOD | 52.65 | 309.6 | 78.6 |
| LL1-131 | LL10784 | DUP | 9/28/00 | Grab | Surface Soil | <LOD | 50.4 | 315 | 67.3 |
| LL1-131 | LL10784 | REG | 9/28/00 | Grab | Surface Soil | 54.7 | 36.1 | 205 | 57 |
| LL1-132 | LL10785 | REG | 9/28/00 | Grab | Surface Soil | <LOD | 53.55 | 575.2 | 96.7 |
| LL1-133 | LL10786 | REG | 9/28/00 | Grab | Surface Soil | <LOD | 50.1 | 454.4 | 78 |
| LL1-134 | LL10787 | REG | 9/28/00 | Grab | Surface Soil | <LOD | 58.2 | 371.2 | 81.6 |
| LL1-135 | LL10790 | REG | 9/26/00 | Grab | Surface Soil | <LOD | 53.7 | 376.8 | 75.6 |
| LL1-136 | LL10791 | REG | 9/15/00 | Grab | Surface Soil | <LOD | 37.5 | 454.8 | 66.5 |
| LL1-136 | LL10791 | DUP | 9/15/00 | Grab | Surface Soil | 39.4 | 16.8 | 428 | 42.9 |
| LL1-137 | LL10792 | REG | 9/15/00 | Grab | Surface Soil | <LOD | 32.4 | 492.4 | 65 |
| LL1-137 | LL10792 | DUP | 9/15/00 | Grab | Surface Soil | 26 | 15.1 | 440.4 | 42.8 |
| LL1-138 | LL10793 | REG | 9/16/00 | Grab | Surface Soil | <LOD | 43.8 | 388.6 | 66.8 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD | Cd | +/- 3SD | Ag | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10776 | <LOD | 49.95 | <LOD | 64.2 | <LOD | 49.65 | <LOD | 145.35 | <LOD | 48 | <LOD | 180 |
| LL10777 | <LOD | 60.6 | <LOD | 72.75 | <LOD | 48.6 | <LOD | 149.7 | <LOD | 37.05 | <LOD | 195 |
| LL11122 | <LOD | 67.95 | <LOD | 67.8 | <LOD | 49.35 | <LOD | 165 | <LOD | 39 | <LOD | 195 |
| LL10779 | <LOD | 68.1 | <LOD | 93.45 | <LOD | 59.85 | <LOD | 165 | <LOD | 45 | <LOD | 225 |
| LL10780 | <LOD | 61.65 | <LOD | 72.15 | <LOD | 74.4 | <LOD | 180 | <LOD | 57 | <LOD | 210 |
| LL10781 | <LOD | 54 | <LOD | 69.6 | <LOD | 57.6 | <LOD | 165 | <LOD | 48.3 | <LOD | 195 |
| LL10781 | <LOD | 75.3 | <LOD | 84.9 | <LOD | 71.55 | <LOD | 195 | <LOD | 62.55 | <LOD | 240 |
| LL10782 | <LOD | 48.75 | <LOD | 54.3 | <LOD | 48.6 | <LOD | 124.2 | <LOD | 37.35 | <LOD | 150 |
| LL11116 | <LOD | 57.6 | <LOD | 71.1 | <LOD | 58.2 | <LOD | 165 | <LOD | 36.9 | <LOD | 180 |
| LL11121 | <LOD | 62.85 | <LOD | 90.15 | <LOD | 66.6 | <LOD | 165 | <LOD | 53.7 | <LOD | 210 |
| LL10783 | <LOD | 60.3 | <LOD | 81.15 | <LOD | 66 | <LOD | 180 | <LOD | 60.9 | <LOD | 225 |
| LL10784 | <LOD | 53.85 | <LOD | 69.45 | <LOD | 50.55 | <LOD | 150 | <LOD | 35.25 | <LOD | 195 |
| LL10784 | <LOD | 50.85 | <LOD | 65.85 | <LOD | 51.75 | <LOD | 148.95 | <LOD | 39.15 | <LOD | 195 |
| LL10785 | <LOD | 69.9 | <LOD | 84.45 | <LOD | 56.55 | <LOD | 165 | <LOD | 45.6 | <LOD | 210 |
| LL10786 | <LOD | 59.7 | <LOD | 66.15 | <LOD | 49.65 | <LOD | 148.2 | <LOD | 37.2 | <LOD | 180 |
| LL10787 | <LOD | 57.45 | <LOD | 71.7 | <LOD | 61.8 | <LOD | 165 | <LOD | 58.2 | <LOD | 210 |
| LL10790 | <LOD | 57.6 | <LOD | 65.55 | <LOD | 52.05 | <LOD | 144.9 | <LOD | 38.85 | <LOD | 195 |
| LL10791 | <LOD | 55.65 | <LOD | 64.8 | <LOD | 54.6 | 265.8 | 100 | <LOD | 41.85 | <LOD | 330 |
| LL10791 | <LOD | 36.3 | <LOD | 47.55 | <LOD | 34.2 | 159.5 | 59.4 | <LOD | 30.45 | <LOD | 138.9 |
| LL10792 | <LOD | 45.45 | <LOD | 50.55 | <LOD | 43.65 | <LOD | 130.05 | <LOD | 39.75 | <LOD | 300 |
| LL10792 | <LOD | 37.95 | <LOD | 49.65 | <LOD | 34.2 | <LOD | 80.85 | <LOD | 23.85 | <LOD | 138.6 |
| LL10793 | <LOD | 54.75 | <LOD | 61.05 | <LOD | 50.25 | <LOD | 143.4 | <LOD | 32.7 | <LOD | 180 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD | Rb | +/- 3SD | Pb | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10776 | <LOD | 36.9 | 16.4 | 7.1 | 475.2 | 15.6 | 79.5 | 9.1 | 78.9 | 9.8 | 691.6 | 38.1 |
| LL10777 | <LOD | 41.55 | 17.2 | 6.1 | 356.6 | 12.6 | 71 | 7.8 | 108 | 10.1 | 23.1 | 11.7 |
| LL11122 | <LOD | 44.85 | 11.9 | 6 | 355.6 | 12.6 | 71.2 | 7.8 | 103.3 | 10 | 19.7 | 11.4 |
| LL10779 | <LOD | 41.7 | 20.9 | 7.2 | 397.4 | 15.1 | 146.7 | 10.8 | 114 | 11.9 | 226 | 24.3 |
| LL10780 | <LOD | 40.2 | 18.8 | 7.4 | 415.2 | 16.3 | 100.2 | 11 | 62.6 | 10 | 2440 | 77.1 |
| LL10781 | <LOD | 37.5 | 11.8 | 6.9 | 431.6 | 15.2 | 78.7 | 9.3 | 73.6 | 9.7 | 844.8 | 42.7 |
| LL10781 | <LOD | 44.4 | 19.1 | 7.9 | 704 | 18.7 | 83 | 9.2 | 61.6 | 8.9 | 720 | 38.8 |
| LL10782 | <LOD | 28.65 | 14.2 | 6.7 | 302.2 | 14 | 95 | 10.4 | 65.6 | 9.8 | 1920 | 66.2 |
| LL11116 | <LOD | 35.1 | 13.1 | 6.6 | 304.6 | 13.8 | 94.8 | 10.3 | 68.8 | 9.9 | 1948.8 | 66.2 |
| LL11121 | <LOD | 41.1 | 19.6 | 7 | 364.4 | 14.5 | 108.4 | 10.1 | 58.5 | 9.2 | 765.2 | 41.7 |
| LL10783 | <LOD | 37.35 | 16.3 | 7 | 336.8 | 14.6 | 115.7 | 10.6 | 64.3 | 9.7 | 882.4 | 45.4 |
| LL10784 | <LOD | 36 | 23.4 | 9.1 | 855.2 | 22.2 | 53.4 | 9.1 | 84.6 | 10.5 | 21.9 | 14.4 |
| LL10784 | <LOD | 35.55 | 29.1 | 8.9 | 868 | 21.4 | 46.4 | 8.5 | 84.9 | 10.1 | <LOD | 19.5 |
| LL10785 | <LOD | 42.75 | <LOD | 9 | 224.2 | 12.1 | 89.4 | 9.4 | 143.5 | 12.7 | 236.8 | 24.5 |
| LL10786 | <LOD | 31.5 | 15.6 | 5.5 | 336.6 | 11.2 | 67.1 | 7.1 | 112.6 | 9.5 | 128.8 | 16.2 |
| LL10787 | <LOD | 48.6 | <LOD | 10.05 | 438 | 14.6 | 53.5 | 8.1 | 89.5 | 10 | 364 | 28 |
| LL10790 | <LOD | 37.5 | 15.8 | 6.4 | 305.8 | 12.9 | 61.8 | 8.4 | 127.9 | 11.8 | 41 | 14.3 |
| LL10791 | <LOD | 41.7 | <LOD | 7.5 | 320.4 | 10.4 | 64.7 | 6.8 | 119.1 | 9.6 | 128.2 | 17.9 |
| LL10791 | <LOD | 26.85 | <LOD | 7.95 | 324.8 | 7.4 | 47.7 | 4.7 | 119.8 | 7.4 | 170.7 | 16.4 |
| LL10792 | <LOD | 37.05 | <LOD | 7.5 | 324 | 10.5 | 67.4 | 6.8 | 105.4 | 9.2 | 67.2 | 15.5 |
| LL10792 | <LOD | 28.05 | <LOD | 7.8 | 319.6 | 7.3 | 48.7 | 4.6 | 113.9 | 7.2 | 104 | 14.5 |
| LL10793 | <LOD | 32.7 | 16.1 | 6.3 | 332 | 12.9 | 63.8 | 8.2 | 113.3 | 10.9 | 97.2 | 17 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD | Cu | +/- 3SD | Ni | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10776 | <LOD | 10.2 | <LOD | 38.4 | <LOD | 15.3 | 1549.6 | 78.1 | 350 | 80.9 | <LOD | 149.25 |
| LL10777 | <LOD | 8.7 | <LOD | 13.35 | <LOD | 10.95 | 61.1 | 27.2 | <LOD | 63.3 | <LOD | 106.05 |
| LL11122 | <LOD | 8.4 | <LOD | 13.2 | <LOD | 10.05 | 53.1 | 26.8 | <LOD | 61.65 | <LOD | 105.15 |
| LL10779 | <LOD | 9.75 | <LOD | 25.35 | <LOD | 13.8 | 440 | 48.4 | <LOD | 85.95 | <LOD | 133.35 |
| LL10780 | <LOD | 13.95 | <LOD | 72.45 | <LOD | 22.5 | 3779.2 | 130 | 441.6 | 110 | <LOD | 195 |
| LL10781 | <LOD | 10.8 | 81 | 29.4 | <LOD | 16.2 | 1828.8 | 84.9 | 163.4 | 80.6 | <LOD | 165 |
| LL10781 | <LOD | 11.25 | <LOD | 39.15 | <LOD | 15.6 | 1449.6 | 74.6 | <LOD | 106.8 | <LOD | 150 |
| LL10782 | <LOD | 13.35 | 74 | 42.6 | <LOD | 21.15 | 3259.2 | 110 | <LOD | 143.7 | <LOD | 180 |
| LL11116 | <LOD | 13.05 | 82.2 | 42.7 | <LOD | 21.6 | 3628.8 | 120 | 232.2 | 100 | <LOD | 180 |
| LL11121 | <LOD | 11.7 | 59.5 | 28.5 | <LOD | 16.8 | 2049.6 | 91.3 | <LOD | 123.75 | <LOD | 165 |
| LL10783 | <LOD | 11.7 | 53 | 30.6 | <LOD | 17.25 | 2129.6 | 94.8 | 153.3 | 85.5 | <LOD | 165 |
| LL10784 | <LOD | 10.35 | <LOD | 16.8 | <LOD | 13.5 | 65.8 | 34.5 | <LOD | 82.5 | <LOD | 180 |
| LL10784 | <LOD | 10.2 | <LOD | 15 | <LOD | 11.85 | 60.9 | 32.8 | <LOD | 79.2 | <LOD | 165 |
| LL10785 | <LOD | 9.75 | <LOD | 26.1 | <LOD | 13.8 | 386.2 | 46 | <LOD | 89.1 | <LOD | 150 |
| LL10786 | <LOD | 7.95 | <LOD | 17.7 | <LOD | 10.5 | 152.9 | 29.4 | <LOD | 61.35 | <LOD | 110.85 |
| LL10787 | <LOD | 9 | <LOD | 29.25 | <LOD | 13.5 | 572.8 | 50.3 | <LOD | 85.05 | <LOD | 139.35 |
| LL10790 | <LOD | 9.45 | 19 | 11.4 | <LOD | 12.3 | 126.4 | 33.9 | <LOD | 75.9 | <LOD | 143.55 |
| LL10791 | <LOD | 9.3 | <LOD | 22.65 | <LOD | 10.35 | 144.2 | 32.1 | <LOD | 89.85 | 1828.8 | 220 |
| LL10791 | ND | ND | <LOD | 22.35 | <LOD | 10.5 | 147.6 | 25.1 | <LOD | 56.55 | <LOD | 117.6 |
| LL10792 | <LOD | 9 | 20.5 | 13.3 | <LOD | 10.05 | 137.8 | 28.2 | <LOD | 66.75 | <LOD | 255 |
| LL10792 | ND | ND | <LOD | 19.05 | <LOD | 10.05 | 154.5 | 25 | <LOD | 55.8 | <LOD | 115.35 |
| LL10793 | <LOD | 9 | <LOD | 19.2 | <LOD | 12.15 | 187.6 | 35.8 | <LOD | 76.65 | <LOD | 137.1 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|
| LL10776 | <LOD | 405 | 32691.2 | 740 | 1329.6 | 450 | <LOD | 300 |
| LL10777 | <LOD | 285 | 17088 | 470 | 627.2 | 300 | <LOD | 195 |
| LL11122 | <LOD | 285 | 17395.2 | 490 | 546.8 | 300 | <LOD | 210 |
| LL10779 | <LOD | 375 | 25088 | 660 | 2068.8 | 440 | <LOD | 300 |
| LL10780 | 722 | 370 | 51686.4 | 1000 | 1269.6 | 570 | <LOD | 360 |
| LL10781 | <LOD | 495 | 44185.6 | 909.6 | 1469.6 | 520 | <LOD | 330 |
| LL10781 | <LOD | 450 | 40780.8 | 849.6 | 1280 | 490 | <LOD | 315 |
| LL10782 | <LOD | 510 | 45696 | 949.6 | 1449.6 | 530 | <LOD | 345 |
| LL11116 | <LOD | 510 | 45977.6 | 940 | 1369.6 | 530 | <LOD | 330 |
| LL11121 | <LOD | 450 | 37094.4 | 829.6 | 1300 | 490 | <LOD | 315 |
| LL10783 | <LOD | 480 | 39398.4 | 880 | 1509.6 | 510 | <LOD | 330 |
| LL10784 | <LOD | 540 | 52992 | 1100 | <LOD | 855 | <LOD | 345 |
| LL10784 | <LOD | 510 | 49587.2 | 980 | 844.8 | 530 | <LOD | 330 |
| LL10785 | <LOD | 465 | 38988.8 | 849.6 | <LOD | 705 | <LOD | 300 |
| LL10786 | <LOD | 315 | 25088 | 550 | 960 | 340 | <LOD | 225 |
| LL10787 | <LOD | 405 | 32588.8 | 730 | 1260 | 440 | <LOD | 285 |
| LL10790 | <LOD | 420 | 33996.8 | 760 | <LOD | 645 | <LOD | 270 |
| LL10791 | <LOD | 225 | 27776 | 540 | 540.4 | 310 | <LOD | 300 |
| LL10791 | <LOD | 330 | 27776 | 550 | 2649.6 | 470 | <LOD | 375 |
| LL10792 | 249.6 | 140 | 27084.8 | 530 | 610.4 | 310 | <LOD | 300 |
| LL10792 | 397.4 | 210 | 26880 | 530 | 2680 | 460 | <LOD | 375 |
| LL10793 | <LOD | 405 | 32384 | 720 | 864.8 | 420 | <LOD | 270 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Station | Sample ID | Result Type | Date Collected | Field Sample Type | Media Description | La | +/- 3SD | Ba | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|
| LL1-139 | LL10794 | REG | 9/16/00 | Grab | Surface Soil | <LOD | 55.35 | 387.4 | 73.1 |
| LL1-140 | LL10795 | REG | 9/16/00 | Grab | Surface Soil | 53.5 | 33.6 | 344.6 | 63.2 |
| LL1-141 | LL10796 | REG | 9/15/00 | Grab | Surface Soil | <LOD | 37.05 | 565.2 | 74.1 |
| LL1-141 | LL10796 | DUP | 9/15/00 | Grab | Surface Soil | 25.3 | 15.7 | 563.6 | 49.4 |
| LL1-142 | LL10798 | REG | 9/15/00 | Grab | Surface Soil | <LOD | 30.3 | 447.2 | 61.8 |
| LL1-142 | LL10798 | DUP | 9/15/00 | Grab | Surface Soil | 30.9 | 15.4 | 388.8 | 39.7 |
| LL1-143 | LL10799 | REG | 9/16/00 | Grab | Surface Soil | <LOD | 43.5 | 373 | 64.7 |
| LL1-143 | LL11111 | REG | 9/16/00 | Field Duplicate | Surface Soil | 71.6 | 39.9 | 432 | 74.3 |
| LL1-144 | LL10819 | REG | 9/12/00 | Grab | Surface Soil | 70.9 | 30.8 | 524 | 70.6 |
| LL1-145 | LL10820 | REG | 9/12/00 | Grab | Surface Soil | 49.5 | 27.1 | 365.6 | 59.5 |
| LL1-145 | LL11229 | REG | 9/28/00 | Grab | Subsurface soil | <LOD | 56.85 | 348.2 | 72.8 |
| LL1-146 | LL10821 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 33.75 | 473.6 | 68.8 |
| LL1-146 | LL10821 | DUP | 9/12/00 | Grab | Surface Soil | 25.4 | 15.4 | 457.2 | 44.3 |
| LL1-147 | LL10822 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 37.95 | 466.8 | 69.3 |
| LL1-148 | LL10823 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 41.85 | 1880 | 140 |
| LL1-148 | LL10823 | DUP | 9/13/00 | Grab | Surface Soil | <LOD | 48.45 | 5168 | 280 |
| LL1-149 | LL10824 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 39.15 | 636.4 | 82.3 |
| LL1-149 | LL10824 | DUP | 9/13/00 | Grab | Surface Soil | <LOD | 22.8 | 585.2 | 50.3 |
| LL1-150 | LL10825 | REG | 9/14/00 | Grab | Surface Soil | <LOD | 33 | 373.2 | 61.5 |
| LL1-151 | LL10826 | REG | 9/14/00 | Grab | Surface Soil | <LOD | 34.65 | 297.8 | 56.5 |
| LL1-152 | LL10827 | REG | 9/14/00 | Grab | Surface Soil | <LOD | 30 | 649.6 | 79 |
| LL1-153 | LL10828 | REG | 9/14/00 | Grab | Surface Soil | <LOD | 64.05 | 14988.8 | 660 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD | Cd | +/- 3SD | Ag | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10794 | <LOD | 55.65 | <LOD | 76.05 | <LOD | 51.3 | <LOD | 165 | <LOD | 37.95 | <LOD | 195 |
| LL10795 | <LOD | 51.9 | <LOD | 61.35 | <LOD | 48.3 | <LOD | 131.4 | <LOD | 40.35 | <LOD | 180 |
| LL10796 | <LOD | 52.95 | <LOD | 65.1 | <LOD | 50.7 | <LOD | 138.6 | <LOD | 36.75 | <LOD | 315 |
| LL10796 | <LOD | 39.6 | <LOD | 47.4 | <LOD | 35.4 | 88.9 | 57.9 | <LOD | 29.25 | <LOD | 136.35 |
| LL10798 | <LOD | 51.9 | <LOD | 61.05 | <LOD | 47.1 | 253.8 | 94.8 | <LOD | 36.15 | <LOD | 300 |
| LL10798 | <LOD | 36.75 | <LOD | 43.5 | <LOD | 34.95 | <LOD | 79.5 | <LOD | 25.8 | <LOD | 132 |
| LL10799 | <LOD | 47.85 | <LOD | 62.25 | <LOD | 49.35 | <LOD | 138.3 | <LOD | 35.4 | <LOD | 165 |
| LL11111 | <LOD | 62.1 | <LOD | 64.95 | <LOD | 52.05 | <LOD | 143.7 | <LOD | 33.3 | <LOD | 180 |
| LL10819 | <LOD | 52.8 | <LOD | 65.85 | <LOD | 52.8 | <LOD | 141.9 | <LOD | 42.3 | <LOD | 330 |
| LL10820 | <LOD | 51.45 | <LOD | 63.75 | <LOD | 50.1 | <LOD | 143.85 | <LOD | 42.6 | <LOD | 330 |
| LL11229 | <LOD | 59.25 | <LOD | 74.7 | <LOD | 55.05 | <LOD | 165 | <LOD | 40.35 | <LOD | 195 |
| LL10821 | <LOD | 54.45 | <LOD | 63.3 | <LOD | 50.25 | 293.2 | 100 | <LOD | 47.1 | <LOD | 345 |
| LL10821 | <LOD | 36.3 | <LOD | 46.2 | <LOD | 39.75 | <LOD | 84.75 | <LOD | 28.2 | <LOD | 137.85 |
| LL10822 | <LOD | 53.25 | <LOD | 68.1 | <LOD | 49.65 | <LOD | 144 | <LOD | 47.1 | <LOD | 345 |
| LL10823 | <LOD | 76.2 | <LOD | 69.15 | <LOD | 48.45 | <LOD | 137.55 | <LOD | 46.05 | <LOD | 330 |
| LL10823 | <LOD | 122.55 | <LOD | 80.55 | <LOD | 60.75 | 226 | 110 | 85.6 | 40.8 | <LOD | 390 |
| LL10824 | <LOD | 59.25 | <LOD | 60.9 | 68.3 | 42.4 | 330.8 | 110 | <LOD | 47.1 | <LOD | 360 |
| LL10824 | <LOD | 40.2 | <LOD | 47.4 | <LOD | 35.1 | <LOD | 86.55 | <LOD | 30.9 | <LOD | 139.05 |
| LL10825 | <LOD | 51.6 | <LOD | 61.65 | <LOD | 49.65 | <LOD | 146.85 | <LOD | 44.85 | <LOD | 330 |
| LL10826 | <LOD | 46.95 | <LOD | 60.75 | <LOD | 52.05 | <LOD | 143.1 | <LOD | 47.1 | <LOD | 330 |
| LL10827 | <LOD | 55.5 | <LOD | 66.45 | <LOD | 46.95 | <LOD | 139.05 | <LOD | 40.95 | <LOD | 330 |
| LL10828 | <LOD | 195 | <LOD | 96.9 | <LOD | 80.4 | 629.6 | 120 | 286.2 | 61.4 | <LOD | 495 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD | Rb | +/- 3SD | Pb | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10794 | <LOD | 36.9 | 11.8 | 5.9 | 312.4 | 12.1 | 67.7 | 7.8 | 112.7 | 10.4 | 107.3 | 16.6 |
| LL10795 | <LOD | 35.1 | 15.7 | 6.2 | 362.8 | 12.9 | 64.3 | 7.8 | 115.3 | 10.6 | 48.8 | 13.5 |
| LL10796 | <LOD | 37.65 | 9.3 | 5.3 | 393 | 11.5 | 69.6 | 7 | 110.3 | 9.4 | 172.3 | 19.5 |
| LL10796 | <LOD | 28.05 | <LOD | 8.25 | 366.8 | 7.8 | 51.6 | 4.8 | 112.4 | 7.2 | 196.9 | 16.9 |
| LL10798 | <LOD | 37.65 | 11.2 | 5.1 | 329.4 | 10.6 | 66.6 | 6.8 | 100.9 | 9 | <LOD | 18.15 |
| LL10798 | <LOD | 26.1 | <LOD | 7.8 | 327.4 | 7.2 | 43.4 | 4.4 | 113.6 | 7 | 32.1 | 12 |
| LL10799 | <LOD | 35.7 | 14.3 | 6.4 | 349.6 | 13.3 | 70.8 | 8.4 | 114 | 10.9 | 59.5 | 15 |
| LL11111 | <LOD | 29.85 | 16.2 | 6.7 | 420.8 | 14.3 | 65.8 | 8.2 | 113.6 | 10.9 | 79.7 | 16.1 |
| LL10819 | <LOD | 37.95 | 9 | 5.2 | 210.4 | 10 | 222.4 | 10.5 | 64.7 | 9 | 326.2 | 25.9 |
| LL10820 | <LOD | 39.6 | 13.3 | 5.2 | 347.6 | 10.7 | 58.1 | 6.6 | 97.6 | 8.9 | 38.6 | 14.2 |
| LL11229 | <LOD | 33 | <LOD | 9 | 315.8 | 12.6 | 63.2 | 8.1 | 122.5 | 11.3 | 65.9 | 15.2 |
| LL10821 | <LOD | 35.1 | 9.5 | 5.3 | 322.4 | 11.1 | 114.6 | 8.2 | 82.9 | 8.9 | 609.6 | 31.5 |
| LL10821 | <LOD | 27 | <LOD | 7.95 | 296.2 | 7.3 | 94.2 | 5.8 | 81 | 6.7 | 619.2 | 25.4 |
| LL10822 | <LOD | 39.3 | <LOD | 8.4 | 412 | 12.2 | 97.1 | 8 | 79.7 | 8.9 | 759.2 | 35.1 |
| LL10823 | <LOD | 38.25 | <LOD | 9 | 504.8 | 16 | 1929.6 | 30.1 | 98.3 | 12.5 | 312.6 | 25.3 |
| LL10823 | <LOD | 42.15 | <LOD | 11.1 | 593.2 | 24 | 5888 | 76.1 | 115.3 | 19.7 | 792.8 | 42.4 |
| LL10824 | <LOD | 42.3 | <LOD | 9.3 | 413.2 | 14.3 | 332.6 | 13.6 | 57.2 | 9.9 | 2400 | 68 |
| LL10824 | <LOD | 26.4 | <LOD | 9.9 | 387.4 | 9.9 | 327.2 | 10.8 | 57.4 | 8.3 | 2400 | 54.5 |
| LL10825 | <LOD | 47.1 | 10.4 | 5.5 | 420 | 12 | 69.5 | 7.1 | 70.4 | 8.2 | 396.8 | 26.2 |
| LL10826 | <LOD | 34.2 | 15 | 6.6 | 583.6 | 15.3 | 84.1 | 8.3 | 59.6 | 8.7 | 289.8 | 25.9 |
| LL10827 | <LOD | 35.7 | 12.9 | 6.2 | 403 | 13.4 | 123.6 | 9.6 | 42.4 | 8.6 | 732.8 | 38.5 |
| LL10828 | <LOD | 34.2 | <LOD | 12 | 640 | 31.6 | 12396.8 | 150 | 119.1 | 26.7 | 598.4 | 40.4 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD | Cu | +/- 3SD | Ni | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10794 | <LOD | 8.7 | <LOD | 18 | <LOD | 10.65 | 156.5 | 32.4 | <LOD | 69.6 | <LOD | 120.3 |
| LL10795 | <LOD | 8.1 | <LOD | 15.6 | <LOD | 10.35 | 101.9 | 30.1 | <LOD | 66 | <LOD | 123.3 |
| LL10796 | <LOD | 9.6 | <LOD | 24 | <LOD | 10.2 | 329.6 | 36.2 | <LOD | 80.7 | <LOD | 285 |
| LL10796 | ND | ND | <LOD | 23.1 | <LOD | 10.8 | 316.2 | 30.4 | <LOD | 60 | <LOD | 115.5 |
| LL10798 | <LOD | 8.55 | <LOD | 15.75 | <LOD | 10.35 | 59.7 | 28.5 | <LOD | 85.2 | 1200 | 200 |
| LL10798 | ND | ND | <LOD | 15.15 | <LOD | 8.25 | 77.8 | 21.4 | <LOD | 51 | <LOD | 104.7 |
| LL10799 | <LOD | 9.6 | <LOD | 17.1 | <LOD | 11.25 | 168.6 | 34.4 | <LOD | 72.6 | <LOD | 130.8 |
| LL11111 | <LOD | 9.45 | <LOD | 18.3 | <LOD | 11.7 | 161.3 | 34.5 | <LOD | 73.8 | <LOD | 133.95 |
| LL10819 | <LOD | 10.8 | <LOD | 31.5 | <LOD | 12.6 | 343.4 | 41.2 | <LOD | 98.85 | 735.2 | 220 |
| LL10820 | <LOD | 9 | <LOD | 18.15 | <LOD | 9.9 | 75.2 | 27.9 | <LOD | 78.45 | <LOD | 285 |
| LL11229 | <LOD | 8.55 | <LOD | 17.4 | <LOD | 12.15 | 91.9 | 30.8 | <LOD | 69.45 | <LOD | 130.2 |
| LL10821 | <LOD | 10.05 | <LOD | 38.25 | <LOD | 12.45 | 438.4 | 40.4 | <LOD | 85.8 | <LOD | 300 |
| LL10821 | ND | ND | <LOD | 35.4 | <LOD | 13.65 | 455.6 | 35.6 | <LOD | 68.4 | <LOD | 118.05 |
| LL10822 | <LOD | 10.8 | <LOD | 42.3 | <LOD | 13.8 | 637.2 | 46.3 | <LOD | 90.3 | <LOD | 300 |
| LL10823 | <LOD | 10.5 | 36.3 | 21.1 | <LOD | 12.6 | 689.2 | 55.4 | 2209.6 | 100 | <LOD | 315 |
| LL10823 | <LOD | 14.4 | <LOD | 50.85 | <LOD | 18 | 1540 | 94.7 | 7116.8 | 200 | <LOD | 450 |
| LL10824 | <LOD | 13.8 | <LOD | 77.7 | <LOD | 20.85 | 2089.6 | 83.1 | 212.6 | 82.8 | <LOD | 345 |
| LL10824 | ND | ND | <LOD | 73.8 | <LOD | 25.8 | 2169.6 | 78 | 245 | 82.5 | <LOD | 165 |
| LL10825 | <LOD | 9.75 | <LOD | 32.55 | <LOD | 11.7 | 350.6 | 36.4 | <LOD | 73.95 | <LOD | 270 |
| LL10826 | <LOD | 10.65 | 34.5 | 21.7 | <LOD | 12.9 | 313.6 | 42.2 | 281.6 | 71.2 | <LOD | 360 |
| LL10827 | <LOD | 12 | 60.3 | 31.7 | <LOD | 15.75 | 393.4 | 47.2 | 393 | 77.3 | <LOD | 375 |
| LL10828 | <LOD | 15.3 | <LOD | 48 | 35.2 | 13.2 | 812 | 64.5 | 708 | 100 | 1360 | 310 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|
| LL10794 | <LOD | 330 | 23897.6 | 580 | <LOD | 510 | <LOD | 225 |
| LL10795 | <LOD | 345 | 25792 | 610 | 638 | 370 | <LOD | 240 |
| LL10796 | <LOD | 210 | 26291.2 | 530 | 745.2 | 310 | <LOD | 300 |
| LL10796 | <LOD | 315 | 26188.8 | 530 | 2379.2 | 460 | <LOD | 375 |
| LL10798 | <LOD | 195 | 22796.8 | 480 | 800 | 290 | <LOD | 285 |
| LL10798 | 313.4 | 190 | 22092.8 | 470 | 2169.6 | 420 | <LOD | 330 |
| LL10799 | <LOD | 375 | 28697.6 | 670 | 902.4 | 400 | <LOD | 255 |
| LL11111 | <LOD | 375 | 29388.8 | 680 | 622 | 400 | <LOD | 255 |
| LL10819 | <LOD | 210 | 21888 | 510 | 2329.6 | 350 | <LOD | 375 |
| LL10820 | <LOD | 210 | 24896 | 500 | 666.8 | 300 | <LOD | 285 |
| LL11229 | <LOD | 390 | 28697.6 | 680 | <LOD | 585 | <LOD | 240 |
| LL10821 | <LOD | 225 | 26188.8 | 540 | 1300 | 330 | <LOD | 315 |
| LL10821 | 345 | 210 | 25497.6 | 530 | 2899.2 | 470 | <LOD | 390 |
| LL10822 | <LOD | 225 | 28979.2 | 580 | 924 | 340 | <LOD | 330 |
| LL10823 | 334.6 | 160 | 31385.6 | 610 | 789.6 | 350 | <LOD | 330 |
| LL10823 | <LOD | 345 | 54272 | 960 | 883.2 | 500 | <LOD | 465 |
| LL10824 | 336.2 | 190 | 37094.4 | 740 | 1329.6 | 420 | <LOD | 390 |
| LL10824 | 503.2 | 290 | 37580.8 | 740 | 3280 | 620 | <LOD | 510 |
| LL10825 | <LOD | 225 | 29593.6 | 570 | 710.4 | 330 | <LOD | 300 |
| LL10826 | <LOD | 300 | 46182.4 | 810 | 699.2 | 430 | <LOD | 375 |
| LL10827 | <LOD | 345 | 57753.6 | 969.6 | 1589.6 | 510 | <LOD | 435 |
| LL10828 | <LOD | 285 | 34995.2 | 740 | 714 | 420 | <LOD | 465 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Station | Sample ID | Result Type | Date Collected | Field Sample Type | Media Description | La | +/- 3SD | Ba | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|
| LL1-154 | LL10843 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 36.6 | 374.2 | 65.9 |
| LL1-155 | LL10844 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 33.6 | 366.2 | 60.7 |
| LL1-156 | LL10845 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 39.45 | 408.6 | 66.4 |
| LL1-156 | LL11213 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 44.4 | 460 | 76.9 |
| LL1-157 | LL10846 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 36.6 | 272.8 | 55.9 |
| LL1-158 | LL10847 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 29.4 | 474.4 | 62.6 |
| LL1-159 | LL10849 | REG | 9/14/00 | Grab | Surface Soil | <LOD | 29.55 | 312.2 | 56.5 |
| LL1-159 | LL11214 | REG | 9/19/00 | Grab | Subsurface soil | 31.5 | 15.6 | 316.4 | 36.9 |
| LL1-159 | LL11214 | DUP | 9/19/00 | Grab | Subsurface soil | <LOD | 20.25 | 304.6 | 35.6 |
| LL1-159 | LL10849 | DUP | 9/14/00 | Grab | Surface Soil | <LOD | 50.85 | 396.4 | 71.7 |
| LL1-160 | LL10850 | REG | 9/14/00 | Grab | Surface Soil | <LOD | 29.25 | 342.4 | 56.6 |
| LL1-160 | LL10850 | DUP | 9/14/00 | Grab | Surface Soil | 31.6 | 15.9 | 320.2 | 37.7 |
| LL1-161 | LL10851 | REG | 9/14/00 | Grab | Surface Soil | <LOD | 35.25 | 999.2 | 96.3 |
| LL1-161 | LL10851 | DUP | 9/14/00 | Grab | Surface Soil | 32.1 | 17.3 | 908.8 | 63.6 |
| LL1-162 | LL10852 | REG | 9/14/00 | Grab | Surface Soil | 42.1 | 27.6 | 454.8 | 69.4 |
| LL1-162 | LL10852 | DUP | 9/14/00 | Grab | Surface Soil | 29.5 | 16.7 | 446 | 46.2 |
| LL1-163 | LL10853 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 32.1 | 349.2 | 55 |
| LL1-164 | LL10855 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 27 | 277 | 51 |
| LL1-164 | LL11215 | REG | 9/19/00 | Grab | Subsurface soil | <LOD | 47.85 | 189.8 | 57.8 |
| LL1-165 | LL10856 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 31.65 | 169.9 | 46.2 |
| LL1-166 | LL10859 | REG | 9/12/00 | Grab | Surface Soil | <LOD | 34.35 | 468 | 63.3 |
| LL1-167 | LL10861 | REG | 9/12/00 | Grab | Surface Soil | 44.9 | 26.5 | 314.4 | 56.3 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD | Cd | +/- 3SD | Ag | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10843 | <LOD | 56.25 | <LOD | 66.45 | <LOD | 55.05 | <LOD | 144.3 | <LOD | 44.7 | <LOD | 360 |
| LL10844 | <LOD | 50.85 | <LOD | 62.1 | <LOD | 51.3 | <LOD | 140.25 | <LOD | 37.95 | <LOD | 330 |
| LL10845 | <LOD | 57.9 | <LOD | 64.2 | <LOD | 57 | 343 | 110 | <LOD | 45.9 | <LOD | 345 |
| LL11213 | <LOD | 52.35 | <LOD | 66.15 | <LOD | 54.45 | <LOD | 145.65 | <LOD | 38.55 | <LOD | 180 |
| LL10846 | <LOD | 49.2 | <LOD | 66.75 | <LOD | 50.7 | <LOD | 147.75 | <LOD | 43.5 | <LOD | 330 |
| LL10847 | <LOD | 48.9 | <LOD | 59.25 | <LOD | 45.75 | <LOD | 129.9 | <LOD | 38.1 | <LOD | 300 |
| LL10849 | <LOD | 48.75 | <LOD | 61.8 | <LOD | 49.95 | <LOD | 146.85 | <LOD | 44.55 | <LOD | 330 |
| LL11214 | <LOD | 36.75 | <LOD | 47.1 | <LOD | 36.6 | <LOD | 81.3 | <LOD | 26.7 | <LOD | 138.15 |
| LL11214 | <LOD | 33.9 | <LOD | 46.2 | <LOD | 34.35 | <LOD | 83.25 | <LOD | 27.3 | <LOD | 135.75 |
| LL10849 | <LOD | 51.9 | <LOD | 70.5 | <LOD | 49.2 | <LOD | 150 | <LOD | 32.25 | <LOD | 180 |
| LL10850 | <LOD | 49.65 | <LOD | 65.55 | <LOD | 46.05 | 212.8 | 97.9 | <LOD | 38.7 | <LOD | 315 |
| LL10850 | <LOD | 34.35 | <LOD | 46.8 | <LOD | 34.95 | <LOD | 82.8 | <LOD | 24.45 | <LOD | 139.05 |
| LL10851 | <LOD | 59.55 | <LOD | 59.55 | <LOD | 50.7 | <LOD | 133.35 | <LOD | 45.75 | <LOD | 315 |
| LL10851 | <LOD | 44.1 | <LOD | 45.75 | <LOD | 34.5 | <LOD | 88.5 | 39.2 | 22.2 | <LOD | 140.7 |
| LL10852 | <LOD | 55.65 | <LOD | 63.15 | <LOD | 53.85 | 249 | 110 | <LOD | 48.45 | <LOD | 345 |
| LL10852 | <LOD | 37.5 | <LOD | 49.65 | <LOD | 42.15 | 169.1 | 63 | <LOD | 33.15 | <LOD | 144.3 |
| LL10853 | <LOD | 46.65 | <LOD | 56.55 | <LOD | 48.15 | <LOD | 125.1 | <LOD | 38.85 | <LOD | 300 |
| LL10855 | <LOD | 48.15 | <LOD | 62.25 | <LOD | 48.45 | <LOD | 129.6 | <LOD | 40.05 | <LOD | 315 |
| LL11215 | <LOD | 54.6 | <LOD | 76.5 | <LOD | 58.2 | <LOD | 149.55 | <LOD | 34.95 | <LOD | 210 |
| LL10856 | <LOD | 43.2 | <LOD | 67.95 | <LOD | 47.55 | 227.6 | 100 | <LOD | 44.25 | <LOD | 330 |
| LL10859 | <LOD | 56.1 | <LOD | 58.5 | <LOD | 45 | <LOD | 123.75 | <LOD | 37.5 | <LOD | 315 |
| LL10861 | <LOD | 48.75 | <LOD | 66.15 | <LOD | 49.95 | <LOD | 145.05 | <LOD | 40.5 | <LOD | 330 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD | Rb | +/- 3SD | Pb | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10843 | <LOD | 40.05 | <LOD | 8.25 | 234.8 | 11 | 170.1 | 10.4 | 65.7 | 9.6 | 1880 | 58.6 |
| LL10844 | <LOD | 36.45 | <LOD | 7.5 | 240.2 | 10 | 180 | 9.3 | 98.8 | 9.6 | 223 | 21.8 |
| LL10845 | <LOD | 38.85 | 9.5 | 5 | 265.2 | 10 | 89.6 | 7.5 | 95.7 | 9.1 | 259 | 22.5 |
| LL11213 | <LOD | 36.9 | 13.7 | 6 | 273.8 | 12 | 90.8 | 8.8 | 101.1 | 10.4 | 133.7 | 18.8 |
| LL10846 | <LOD | 39.6 | 13.9 | 5.9 | 396.6 | 12.6 | 70.5 | 8.1 | 72.3 | 9.1 | 1169.6 | 44.8 |
| LL10847 | <LOD | 32.7 | 20.3 | 6.2 | 490.4 | 13.7 | 97.2 | 8.7 | 74 | 9.1 | 2920 | 69 |
| LL10849 | <LOD | 34.35 | 15 | 5.4 | 483.2 | 11.9 | 37.9 | 5.9 | 49.1 | 6.9 | 146.3 | 17.5 |
| LL11214 | <LOD | 27.3 | <LOD | 8.55 | 482 | 8.7 | 30.3 | 4.1 | 59.9 | 5.4 | 164.9 | 14.6 |
| LL11214 | <LOD | 26.4 | <LOD | 8.55 | 451.6 | 8.4 | 29.4 | 4.1 | 60.9 | 5.5 | 134.2 | 13.9 |
| LL10849 | <LOD | 33.45 | 17.3 | 6.7 | 462.8 | 14.5 | 68.2 | 8 | 105.2 | 10.3 | 40 | 13.3 |
| LL10850 | <LOD | 42.75 | 19.6 | 5.9 | 554.4 | 13.5 | 62.8 | 7.1 | 82 | 8.5 | 794 | 34.4 |
| LL10850 | <LOD | 27.75 | <LOD | 9.6 | 593.6 | 10.2 | 43 | 4.9 | 82.7 | 6.7 | 832 | 28.7 |
| LL10851 | <LOD | 33.15 | 20.1 | 7.5 | 704 | 18 | 95.3 | 9.6 | 75.6 | 10.1 | 668.8 | 38.6 |
| LL10851 | <LOD | 26.7 | <LOD | 11.7 | 656 | 12.4 | 69.4 | 6.2 | 84.9 | 7.9 | 700 | 31 |
| LL10852 | <LOD | 35.25 | 12.8 | 6.2 | 347.4 | 13.2 | 93.4 | 9.7 | 61 | 9.7 | 2988.8 | 77 |
| LL10852 | <LOD | 28.2 | <LOD | 9.15 | 336.4 | 8.8 | 74 | 6.9 | 69.8 | 7.9 | 3019.2 | 60.5 |
| LL10853 | <LOD | 35.1 | <LOD | 6.45 | 186.9 | 8.1 | 55.5 | 6.3 | 64.9 | 7.6 | 208.8 | 19.7 |
| LL10855 | <LOD | 36.75 | 15.5 | 5.6 | 422.8 | 12.1 | 65.3 | 7.1 | 57.1 | 7.7 | 378.4 | 25.8 |
| LL11215 | <LOD | 39.6 | <LOD | 7.8 | 241.6 | 10 | 35.5 | 6.4 | 47.9 | 7.2 | 99.3 | 15.4 |
| LL10856 | <LOD | 38.4 | 7.4 | 4.3 | 205.2 | 7.9 | 31.8 | 5.4 | 42.9 | 6.4 | 370.4 | 22.9 |
| LL10859 | <LOD | 35.1 | 10.2 | 5 | 328.8 | 10.4 | 67.7 | 6.7 | 106.4 | 9.1 | <LOD | 18.9 |
| LL10861 | <LOD | 36.45 | 15.8 | 5.8 | 580.4 | 13.3 | 58.1 | 6.4 | 82.7 | 8.2 | 47.6 | 14 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD | Cu | +/- 3SD | Ni | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10843 | <LOD | 13.2 | <LOD | 67.35 | <LOD | 18.45 | 1220 | 63.6 | <LOD | 99.9 | <LOD | 300 |
| LL10844 | <LOD | 10.05 | <LOD | 27.15 | <LOD | 11.25 | 296.6 | 35.6 | <LOD | 76.2 | <LOD | 270 |
| LL10845 | <LOD | 9.75 | <LOD | 27.6 | <LOD | 11.4 | 255.4 | 33.2 | <LOD | 71.1 | <LOD | 270 |
| LL11213 | <LOD | 9.3 | 23.1 | 13.9 | <LOD | 11.85 | 207 | 36 | <LOD | 71.7 | <LOD | 131.55 |
| LL10846 | <LOD | 11.7 | <LOD | 52.5 | <LOD | 15.6 | 1280 | 62.7 | 128.3 | 67.7 | <LOD | 315 |
| LL10847 | <LOD | 12.75 | <LOD | 77.1 | <LOD | 19.2 | 445.2 | 41.7 | <LOD | 80.85 | <LOD | 285 |
| LL10849 | <LOD | 8.4 | <LOD | 22.05 | <LOD | 9.9 | 129.5 | 29.3 | <LOD | 78.45 | 497.2 | 180 |
| LL11214 | ND | ND | <LOD | 20.1 | <LOD | 9.6 | 136.9 | 23.9 | <LOD | 53.7 | <LOD | 102.45 |
| LL11214 | ND | ND | <LOD | 19.8 | <LOD | 9.75 | 130.6 | 23.5 | <LOD | 52.65 | <LOD | 103.8 |
| LL10849 | <LOD | 9 | <LOD | 15.75 | <LOD | 11.7 | 114.9 | 31.2 | <LOD | 67.8 | <LOD | 119.25 |
| LL10850 | <LOD | 9.9 | <LOD | 41.85 | <LOD | 12.45 | 725.6 | 46.4 | <LOD | 86.1 | <LOD | 285 |
| LL10850 | ND | ND | <LOD | 40.2 | <LOD | 15.15 | 751.2 | 43 | 85.4 | 51.3 | <LOD | 125.25 |
| LL10851 | <LOD | 12.3 | 49 | 31.5 | <LOD | 15.6 | 594.8 | 52.3 | <LOD | 104.4 | <LOD | 405 |
| LL10851 | ND | ND | <LOD | 43.95 | <LOD | 16.95 | 629.6 | 47.9 | <LOD | 94.8 | <LOD | 210 |
| LL10852 | <LOD | 15.3 | <LOD | 86.85 | <LOD | 22.95 | 1739.2 | 78.3 | 233.2 | 88.9 | <LOD | 405 |
| LL10852 | ND | ND | <LOD | 80.1 | 30.9 | 18.4 | 1739.2 | 69.7 | 219.6 | 76.8 | <LOD | 165 |
| LL10853 | <LOD | 9 | <LOD | 24.9 | <LOD | 10.65 | 297.8 | 34.4 | <LOD | 81 | 463.2 | 180 |
| LL10855 | <LOD | 10.05 | <LOD | 32.1 | <LOD | 11.4 | 346.6 | 38.8 | <LOD | 93.15 | 1340 | 220 |
| LL11215 | <LOD | 7.8 | <LOD | 16.95 | <LOD | 10.65 | 112.7 | 28.9 | <LOD | 62.7 | <LOD | 98.7 |
| LL10856 | <LOD | 8.55 | <LOD | 28.05 | <LOD | 9.6 | 242.8 | 31.2 | <LOD | 75.9 | 472 | 170 |
| LL10859 | <LOD | 8.55 | <LOD | 16.05 | <LOD | 9.45 | 48.6 | 26.1 | <LOD | 74.7 | 330.4 | 190 |
| LL10861 | <LOD | 8.25 | <LOD | 17.55 | <LOD | 9.15 | 78.1 | 26.4 | <LOD | 69.9 | <LOD | 255 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Co | +/- 3SD | Fe | +/- 3SD | Mn | +/- 3SD | Cr | +/- 3SD |
|---|---|---|---|---|---|---|---|---|
| LL10843 | <LOD | 240 | 26880 | 600 | 1320 | 370 | <LOD | 360 |
| LL10844 | <LOD | 210 | 24294.4 | 520 | 1449.6 | 330 | <LOD | 315 |
| LL10845 | <LOD | 225 | 28979.2 | 560 | 928.8 | 330 | <LOD | 315 |
| LL11213 | <LOD | 375 | 29388.8 | 680 | 943.2 | 410 | <LOD | 270 |
| LL10846 | <LOD | 315 | 53094.4 | 869.6 | 1080 | 460 | <LOD | 420 |
| LL10847 | <LOD | 225 | 25996.8 | 540 | 530.8 | 320 | <LOD | 315 |
| LL10849 | <LOD | 195 | 22796.8 | 470 | 655.2 | 280 | <LOD | 270 |
| LL11214 | <LOD | 285 | 22400 | 470 | 2299.2 | 420 | <LOD | 330 |
| LL11214 | <LOD | 270 | 21094.4 | 460 | 2360 | 410 | <LOD | 330 |
| LL10849 | <LOD | 345 | 24192 | 590 | <LOD | 525 | <LOD | 240 |
| LL10850 | <LOD | 225 | 32076.8 | 590 | 1149.6 | 340 | <LOD | 330 |
| LL10850 | <LOD | 345 | 32000 | 590 | 3478.4 | 520 | <LOD | 420 |
| LL10851 | 540.4 | 280 | 80691.2 | 1200 | 1609.6 | 600 | <LOD | 495 |
| LL10851 | <LOD | 630 | 81868.8 | 1200 | 7385.6 | 920 | <LOD | 690 |
| LL10852 | 411.6 | 220 | 50585.6 | 900 | 1589.6 | 490 | <LOD | 450 |
| LL10852 | <LOD | 480 | 50483.2 | 860 | 5427.2 | 720 | <LOD | 570 |
| LL10853 | 206.4 | 130 | 22796.8 | 470 | 731.2 | 280 | <LOD | 270 |
| LL10855 | 266 | 160 | 31385.6 | 590 | 816.4 | 340 | <LOD | 315 |
| LL11215 | <LOD | 255 | 14694.4 | 430 | <LOD | 405 | <LOD | 195 |
| LL10856 | 185.8 | 110 | 17497.6 | 390 | <LOD | 345 | <LOD | 240 |
| LL10859 | <LOD | 195 | 23398.4 | 480 | 926.4 | 290 | <LOD | 285 |
| LL10861 | <LOD | 195 | 22195.2 | 470 | 846.4 | 290 | <LOD | 285 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Station | Sample ID | Result Type | Date Collected | Field Sample Type | Media Description | La | +/- 3SD | Ba | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|
| LL1-168 | LL10862 | REG | 9/13/00 | Grab | Surface Soil | <LOD | 31.2 | 452.8 | 61.5 |
| LL1-168 | LL10862 | DUP | 9/13/00 | Grab | Surface Soil | <LOD | 37.35 | 461.6 | 65.7 |
| LL1-169 | LL10869 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 46.5 | 391.8 | 69.3 |
| LL1-170 | LL10870 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 48 | 306.2 | 62.3 |
| LL1-171 | LL10872 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 44.7 | 284.8 | 60 |
| LL1-171 | LL11114 | REG | 9/18/00 | Field Duplicate | Surface Soil | <LOD | 35.55 | 241.6 | 46.1 |
| LL1-172 | LL10873 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 41.7 | 289.8 | 63 |
| LL1-173 | LL10874 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 45.15 | 301 | 62 |
| LL1-174 | LL10876 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 50.85 | 303 | 65.9 |
| LL1-175 | LL10877 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 42 | 258.2 | 58.5 |
| LL1-176 | LL10878 | REG | 9/18/00 | Grab | Surface Soil | 58.2 | 34.4 | 292 | 59.4 |
| LL1-177 | LL10880 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 34.8 | 199.6 | 49.4 |
| LL1-178 | LL10881 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 43.8 | 225.8 | 56.4 |
| LL1-179 | LL10884 | REG | 9/17/00 | Grab | Surface Soil | <LOD | 21.45 | 377 | 40.2 |
| LL1-180 | LL10885 | REG | 9/17/00 | Grab | Surface Soil | 23.4 | 14.6 | 319.4 | 36.8 |
| LL1-181 | LL10886 | REG | 9/17/00 | Grab | Surface Soil | <LOD | 41.4 | 361 | 66.9 |
| LL1-182 | LL10888 | REG | 9/17/00 | Grab | Surface Soil | 59 | 33.4 | 362.2 | 62.1 |
| LL1-182 | LL10888 | DUP | 9/17/00 | Grab | Surface Soil | <LOD | 21.45 | 359.6 | 39.6 |
| LL1-183 | LL10889 | REG | 9/17/00 | Grab | Surface Soil | <LOD | 42.6 | 334 | 60.5 |
| LL1-184 | LL10890 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 46.2 | 670.4 | 92.5 |
| LL1-185 | LL10891 | REG | 9/18/00 | Grab | Surface Soil | <LOD | 51.9 | 635.6 | 88.8 |
| LL1-186 | LL10893 | REG | 9/17/00 | Grab | Surface Soil | <LOD | 22.2 | 328 | 38.8 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Cs | +/- 3SD | Te | +/- 3SD | Sb | +/- 3SD | Sn | +/- 3SD | Cd | +/- 3SD | Ag | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10862 | <LOD | 52.8 | <LOD | 57.15 | <LOD | 42.9 | <LOD | 129.6 | <LOD | 34.5 | <LOD | 300 |
| LL10862 | <LOD | 55.2 | <LOD | 62.85 | <LOD | 46.2 | 263.4 | 98.6 | <LOD | 39.9 | <LOD | 315 |
| LL10869 | <LOD | 50.7 | <LOD | 60.9 | <LOD | 49.05 | <LOD | 138.45 | <LOD | 37.65 | <LOD | 180 |
| LL10870 | <LOD | 51.3 | <LOD | 67.95 | <LOD | 49.2 | <LOD | 142.5 | <LOD | 34.65 | <LOD | 180 |
| LL10872 | <LOD | 52.5 | <LOD | 61.65 | <LOD | 46.95 | <LOD | 141.45 | <LOD | 37.65 | <LOD | 180 |
| LL11114 | <LOD | 38.55 | <LOD | 52.8 | <LOD | 33.15 | <LOD | 114.15 | <LOD | 31.35 | <LOD | 141.9 |
| LL10873 | <LOD | 57.6 | <LOD | 65.7 | <LOD | 56.85 | <LOD | 149.55 | <LOD | 37.2 | <LOD | 180 |
| LL10874 | <LOD | 52.35 | <LOD | 63.6 | <LOD | 51.45 | <LOD | 139.5 | <LOD | 36.75 | <LOD | 180 |
| LL10876 | <LOD | 51.3 | <LOD | 68.55 | <LOD | 54.15 | <LOD | 147.45 | <LOD | 35.7 | <LOD | 195 |
| LL10877 | <LOD | 54.9 | <LOD | 66.45 | <LOD | 49.95 | <LOD | 148.2 | <LOD | 37.65 | <LOD | 180 |
| LL10878 | <LOD | 54.6 | <LOD | 66.45 | <LOD | 52.05 | <LOD | 138.75 | <LOD | 32.1 | <LOD | 165 |
| LL10880 | <LOD | 45.3 | <LOD | 64.2 | <LOD | 46.5 | <LOD | 135.45 | <LOD | 35.1 | <LOD | 165 |
| LL10881 | <LOD | 57.9 | <LOD | 66 | <LOD | 54 | <LOD | 149.25 | <LOD | 39 | <LOD | 180 |
| LL10884 | <LOD | 32.85 | <LOD | 45.3 | <LOD | 35.1 | <LOD | 83.25 | <LOD | 26.1 | <LOD | 135.6 |
| LL10885 | <LOD | 33.75 | <LOD | 46.65 | <LOD | 36.9 | 105.1 | 56.9 | <LOD | 27.75 | <LOD | 135.6 |
| LL10886 | <LOD | 52.8 | <LOD | 63.6 | <LOD | 50.7 | <LOD | 141.6 | <LOD | 39 | <LOD | 180 |
| LL10888 | <LOD | 50.7 | <LOD | 61.8 | <LOD | 43.35 | <LOD | 128.25 | <LOD | 36.6 | <LOD | 165 |
| LL10888 | <LOD | 34.2 | <LOD | 47.1 | <LOD | 37.35 | 91.5 | 57.6 | <LOD | 27 | <LOD | 138.75 |
| LL10889 | <LOD | 45.3 | <LOD | 60.45 | <LOD | 47.1 | <LOD | 123.6 | <LOD | 34.8 | <LOD | 165 |
| LL10890 | <LOD | 94.65 | <LOD | 74.4 | 1300 | 140 | <LOD | 150 | <LOD | 53.1 | <LOD | 180 |
| LL10891 | <LOD | 80.7 | <LOD | 60.6 | 720.8 | 98.3 | <LOD | 150 | <LOD | 41.55 | <LOD | 180 |
| LL10893 | <LOD | 33.3 | <LOD | 50.1 | <LOD | 37.05 | 140.5 | 60.4 | <LOD | 27.3 | <LOD | 141.6 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Pd | +/- 3SD | Mo | +/- 3SD | Zr | +/- 3SD | Sr | +/- 3SD | Rb | +/- 3SD | Pb | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10862 | <LOD | 31.5 | <LOD | 7.35 | 328.6 | 10.2 | 63.6 | 6.5 | 98.1 | 8.7 | <LOD | 18.3 |
| LL10862 | <LOD | 36 | 7.5 | 4.8 | 337 | 10 | 61 | 6.2 | 99.4 | 8.4 | <LOD | 17.85 |
| LL10869 | <LOD | 30.6 | 10.7 | 6.9 | 528.8 | 15.8 | 59.7 | 8.1 | 81.9 | 9.5 | 213.2 | 22.1 |
| LL10870 | <LOD | 39.9 | 13.6 | 7 | 560.4 | 15.9 | 37.1 | 7.3 | 67.5 | 8.6 | 54.5 | 14.3 |
| LL10872 | <LOD | 37.8 | 18.7 | 7.3 | 560.4 | 16.1 | 51.4 | 7.8 | 67.3 | 8.9 | 187.2 | 21.3 |
| LL11114 | <LOD | 28.2 | 12.5 | 7 | 506 | 15.6 | 63.3 | 8.3 | 64.5 | 8.8 | 234.2 | 23.3 |
| LL10873 | <LOD | 36.9 | 22.2 | 7.5 | 626.4 | 17 | 49.5 | 7.8 | 71.2 | 9 | 169.1 | 20.3 |
| LL10874 | <LOD | 31.65 | 16.4 | 7 | 528.8 | 15.5 | 56.5 | 7.9 | 82.9 | 9.4 | 196.6 | 21.3 |
| LL10876 | <LOD | 37.95 | 13.4 | 6.4 | 440.8 | 13.9 | 41 | 7.2 | 63.9 | 8.3 | 267.2 | 23.4 |
| LL10877 | <LOD | 32.1 | 34.7 | 9.1 | 1089.6 | 22.6 | 40.2 | 7.6 | 62.9 | 8.5 | 157.9 | 19.8 |
| LL10878 | <LOD | 30 | <LOD | 9.9 | 475.6 | 14.7 | 48.8 | 7.6 | 84.8 | 9.5 | 143.3 | 18.9 |
| LL10880 | <LOD | 31.05 | 17 | 6.8 | 515.2 | 15.2 | 49.4 | 7.7 | 64.8 | 8.4 | 482 | 30.5 |
| LL10881 | <LOD | 36.3 | 15.2 | 6.6 | 425.6 | 14.2 | 46.7 | 7.8 | 74.5 | 9.1 | 333.6 | 26.6 |
| LL10884 | <LOD | 25.05 | <LOD | 7.65 | 239.4 | 6.7 | 136.6 | 6.4 | 79 | 6.7 | 139.4 | 15.2 |
| LL10885 | <LOD | 27.15 | <LOD | 8.7 | 424 | 8.6 | 37.3 | 4.5 | 101.3 | 7 | 75.9 | 13.9 |
| LL10886 | <LOD | 34.95 | 11.7 | 6.2 | 334.8 | 12.9 | 70.9 | 8.3 | 101.9 | 10.3 | 186.2 | 20.9 |
| LL10888 | <LOD | 29.7 | 9.9 | 5.9 | 315 | 12.2 | 65.4 | 7.8 | 104.8 | 10.2 | 69 | 14.8 |
| LL10888 | <LOD | 24.15 | <LOD | 7.8 | 309.6 | 7.1 | 45.9 | 4.5 | 103.9 | 6.9 | 71.3 | 13.2 |
| LL10889 | <LOD | 35.25 | 13 | 6.3 | 353.2 | 13.3 | 68.9 | 8.2 | 83.4 | 9.6 | 55.9 | 14.7 |
| LL10890 | <LOD | 30.9 | <LOD | 9.75 | 298 | 14 | 86.6 | 10.4 | 79.5 | 10.6 | 2308.8 | 73.4 |
| LL10891 | <LOD | 34.2 | <LOD | 10.95 | 473.2 | 16.5 | 96 | 10.3 | 97.4 | 11.4 | 1629.6 | 61.2 |
| LL10893 | <LOD | 26.85 | <LOD | 7.65 | 293.4 | 7.1 | 73.1 | 5.1 | 95.5 | 6.8 | 195.1 | 16.6 |



<LOD - below level of detection

## LOAD LINE 1 EX-SITU X-RAY FLUORESCENCE ANALYSIS DATA FOR METALS

| Sample ID | Se | +/- 3SD | As | +/- 3SD | Hg | +/- 3SD | Zn | +/- 3SD | Cu | +/- 3SD | Ni | +/- 3SD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL10862 | <LOD | 9 | 23.7 | 11 | <LOD | 9.6 | 93.4 | 26 | <LOD | 65.1 | <LOD | 240 |
| LL10862 | <LOD | 8.55 | <LOD | 15.45 | <LOD | 9 | 67.4 | 23.7 | <LOD | 59.85 | <LOD | 240 |
| LL10869 | <LOD | 9.3 | 24.9 | 15.9 | <LOD | 12.3 | 434.8 | 44.9 | <LOD | 81.15 | <LOD | 129.75 |
| LL10870 | <LOD | 9 | <LOD | 16.35 | <LOD | 11.4 | 155 | 33.7 | <LOD | 71.4 | <LOD | 128.1 |
| LL10872 | <LOD | 9.75 | <LOD | 22.8 | <LOD | 12.75 | 248 | 38.7 | <LOD | 78 | <LOD | 127.65 |
| LL11114 | <LOD | 9.15 | <LOD | 24.3 | <LOD | 13.35 | 318 | 41.5 | <LOD | 78 | <LOD | 136.2 |
| LL10873 | <LOD | 9 | 24 | 14.9 | <LOD | 12.75 | 234.2 | 37.6 | <LOD | 73.8 | <LOD | 132.3 |
| LL10874 | <LOD | 9.3 | <LOD | 22.2 | <LOD | 11.85 | 330 | 40.8 | <LOD | 77.25 | <LOD | 123.6 |
| LL10876 | <LOD | 8.85 | <LOD | 24.75 | <LOD | 12.45 | 319.4 | 39.4 | <LOD | 74.1 | <LOD | 123.3 |
| LL10877 | <LOD | 9.45 | <LOD | 21 | <LOD | 11.25 | 230.4 | 37.6 | <LOD | 73.2 | <LOD | 131.4 |
| LL10878 | <LOD | 8.7 | <LOD | 20.55 | <LOD | 12.15 | 186.7 | 34.8 | <LOD | 70.35 | <LOD | 127.2 |
| LL10880 | <LOD | 9.6 | <LOD | 31.35 | <LOD | 13.2 | 462 | 44.8 | <LOD | 79.95 | <LOD | 130.2 |
| LL10881 | <LOD | 9.6 | 33.5 | 18.8 | <LOD | 13.2 | 476.4 | 46.4 | <LOD | 84 | <LOD | 138.45 |
| LL10884 | ND | ND | <LOD | 21.75 | <LOD | 10.65 | 204.8 | 27.6 | <LOD | 59.7 | <LOD | 111.15 |
| LL10885 | ND | ND | <LOD | 19.2 | <LOD | 9.75 | 143 | 25.7 | <LOD | 58.05 | <LOD | 129.6 |
| LL10886 | <LOD | 9.3 | 31.6 | 15.4 | <LOD | 12 | 321.6 | 40.3 | <LOD | 75.15 | <LOD | 131.85 |
| LL10888 | <LOD | 8.4 | <LOD | 16.65 | <LOD | 11.1 | 118.1 | 31.1 | <LOD | 68.85 | <LOD | 126.75 |
| LL10888 | ND | ND | <LOD | 18 | <LOD | 9.45 | 113.6 | 23.4 | <LOD | 54.6 | <LOD | 112.95 |
| LL10889 | <LOD | 9.75 | <LOD | 16.8 | <LOD | 12.3 | 164.5 | 34.1 | <LOD | 71.85 | <LOD | 122.1 |
| LL10890 | <LOD | 12.6 | <LOD | 68.85 | <LOD | 21.15 | 1320 | 75.7 | <LOD | 112.5 | <LOD | 165 |
| LL10891 | <LOD | 13.05 | <LOD | 59.55 | <LOD | 19.65 | 1100 | 70.3 | 137.9 | 73.8 | <LOD | 165 |
| LL10893 | ND | ND | <LOD | 22.65 | <LOD | 10.2 | 187.5 | 26.5 | <LOD | 57.9 | <LOD | 115.8 |



<LOD - below level of detection