

5.4 Site-Wide Native Soil

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5.4 Site-Wide Native Soil

The following sections describe soil quality monitoring results at the Silver Bow Plant site (Site). Section 5.4.1.1 contains details and results of the 2006 native soil quality investigation activities at the Site. Section 5.4.1.2 contains the details and results of the 2012 native soil quality investigation activities at the site. Section 5.4.2 describes results of the X-ray diffraction studies that were conducted in 2006, 2009 and 2010.

RFI activities were conducted to address the data gaps identified in the Current Conditions/Release Assessment Report (Barr, 2006a) (CCRA), approved by EPA on April 26, 2006. RFI activities are described in the RFI Groundwater Monitoring Work Plan (Barr, 2006b) (Groundwater Work Plan), the Final Phase I RCRA Facility Investigation Work Plan Corrective Action Order on Consent (Barr, 2009) (Work Plan) and the October 2012 RCRA Facility Investigation Work Plan (Barr, 2012) (Phase 2 Work Plan). RFI activities described in this section of the report include: soil sampling completed during monitoring well installation and surface soil sampling in the Natural and Undeveloped Areas. Monitoring well installation is described in greater detail in Section 5.3.1 above.

5.4.1 Native Soil Quality Investigation

At the request of EPA, Rhodia developed a separate work plan to expedite the installation of groundwater monitoring wells in 2006 and continue the evaluation of groundwater quality at the Silver Bow Plant. The RFI Groundwater Work Plan was submitted to EPA and approved on August 11, 2006. The Groundwater Work Plan was incorporated into the Final Phase 1 RFI Work Plan, which was approved by EPA on November 2, 2009. The Groundwater Work Plan documents the methods and procedures Rhodia used in conducting the groundwater investigation, and in sampling and analyzing soil collected during installation of new groundwater wells.

Soil borings completed as monitoring wells were located using a GPS as described in Section 5.3.1. The borings were advanced using 4.25-inch inside diameter hollow stem augers. Soil samples were collected continuously to a depth of twenty feet below ground surface (bgs). From twenty feet bgs to the design depth of boring, one split spoon sample was collected every five feet. Standard penetration tests and split-barrel sampling of soils was performed according to ASTM D-1586 Standard Methods for Penetration Test and Split-Barrel Sampling of Soils with the following exception: 3-inch diameter split-barrel samplers were used in the upper portion of the borings. The 3-inch diameter split-barrel sampler was used to collect sufficient soil volume needed for laboratory analysis of multiple parameters. The EPA was notified of this change prior to any soil sampling

activities, as documented in a September 11, 2006 e-mail from Karma Hughes of Barr to Sara Sparks of the EPA.

Analytical soil samples were collected from the surface (0- to 1-foot interval) and the subsurface (8- to 10-foot interval) of the native soil column at twenty-one boreholes. Only one borehole was sampled for the soil quality program where a nested well was installed. The soil samples were analyzed for site-specific parameters, metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and radionuclides. Selected locations were also analyzed for polychlorinated biphenyl (PCB) analysis. VOCs were not analyzed in the 0- to 1-foot interval since any such constituents would have volatilized. Fill material such as slag, if encountered, was described and classified as appropriate but not sampled. Analytical samples were collected in accordance with the standard operating procedures (SOPs) for Soil Sample Collection provided in the Field Sampling Plan which is included as Appendix D of the Draft Phase 1 RCRA Facility Investigation Work Plan (2006c). Field screening of the soils consisted of inspecting the samples for oily appearance, obvious staining, unusual color or strong odor. None of these characteristics were identified during screening; therefore, no additional analytical soil samples were collected.

Samples were collected from the Natural and Undeveloped Areas in October 2012 as described in the October 2012 RFI Work Plan (Barr, 2012). The samples were collected in the area between the Tailing Basin perimeter samples and the existing Natural Area samples to address a data gap identified in the Baseline Ecological Risk Assessment Work Plan (Exponent, 2012a). Eight additional surface soil samples were collected from the Natural Area. Three surface-soil samples were collected at each of the following areas: the South Undeveloped Area, the East Undeveloped Area, and the Northeast Undeveloped Area to characterize the surface soils for risk assessment purposes. The soil samples were collected from 0-12" depth (Figure 5.4-1).

5.4.1.1 2006 Native Soil Quality Investigation Results

Analytical soil samples were collected from the 0- to 1-foot interval (shallow) and the 8- to 10-foot interval (deep) of native soil at twenty-one boreholes (*see* Figure 5.4-1) in 2006. Native shallow and deep soil samples were analyzed for general parameters, metals, SVOCs and radionuclides.

Subsurface samples were also analyzed for VOCs. PCBs were analyzed at selected locations in accordance with the Work Plan. The native soil sample nomenclature from the 2006 samples reflects the depth below ground surface. For example, the 0- to 1-foot interval of native soil was encountered at a depth of 32- to 33-feet below ground surface (bgs) in the well bore for MW-06-21. Therefore, the sample name as shown in the summary tables for shallow samples is presented as MW-06-21, 32-33

ft. The deep sample of native soil from the same well bore is shown as MW-06-21, 40-42 ft. The soil quality data for the native surface shallow samples and subsurface deep samples are summarized in Tables 5.4.1-1 through 5.4.1-11, and the sample locations are shown on Figure 5.4-1.

The soil sample data from site-wide native soil samples were compared to the soil background/reference area concentrations where applicable. Concentrations above the 95% upper confidence limit of the mean background/reference area concentrations are highlighted on the constituent delineation figures presented in this section (Figures 5.4-2 through 5.4-15). Where a 95% upper limit could not be calculated, the maximum detected concentration or the maximum detection limit was selected.

Constituent concentrations are described in this report as above background/reference area concentrations if the mean and maximum concentrations of the SWMU data exceed both of the mean and maximum background/reference area values. All data will be retained for evaluation in the human health and ecological risk assessments. The definitive background comparison will be conducted in the risk assessment using a statistical approach consistent with EPA guidance (U.S. EPA, 2002).

5.4.1.1.1 2006 General Parameters

General parameters for the native soil samples include fluoride, total phosphorus, and elemental phosphorus. The analytical results for the shallow and deep native soil samples are summarized in Tables 5.4.1-1 and 5.4.1-2, respectively. The sample locations are shown on Figure 5.4-1. The distribution of these general parameter constituents and their respective sample intervals are shown on Figures 5.4-2 and 5.4-3.

Fluoride concentrations ranged between 210 mg/kg to 3,500 mg/kg with an average concentration of 1,100 mg/kg in the shallow 0-1 foot interval samples and ranged between 230 mg/kg and 1,800 mg/kg with an average concentration of 900 mg/kg in the deep native soil samples. Fluoride concentrations were above background in the shallow and deep native soil samples. The highest concentration was found in the 32-33 feet interval (0-1 foot native soil) at MW-06-21 which is located within the tailing basin. The monitoring well log indicates that the upper 32 feet of the boring consists of tailings. The native soil samples collected from well bores at MW-06-9 and MW-06-21 were collected from beneath tailings in Solid Waste Management Unit (SWMU) 1 (Tailing Basin and Water Recirculation System). The fluoride concentrations for the 2006 soil samples cannot be compared to the background fluoride concentrations from the 2010 background soil quality

investigation because different extraction methods were used by the different laboratories that conducted the analytical work.

Phosphorus is a plant nutrient and is present in native soils across the United States. For Silver Bow County, the average phosphorus concentration in native soil is on the order of 880 mg/kg (USGS, 2004). Higher concentrations of total phosphorus are generally found in the shallow samples from boreholes near the former production area. However, the highest concentration was reported in the 0-1 foot native soil sample at MW-06-21 (i.e., under the tailing basin). The total phosphorus concentration in the 8-10 foot native soil samples was consistent with the Silver Bow County average concentration. Total phosphorus concentrations generally decrease with depth.

Elemental phosphorus was only detected in soil samples from one location (i.e., MW-06-21). The concentrations in the shallow and deep native soil intervals were 0.000184 J mg/kg and 0.000136 J mg/kg, respectively (“J” data qualifier indicates the value is the approximate concentration of the analyte in the sample). Some of the tailings above the native soil at this location smoked when brought to the surface. This indicates that elemental phosphorus was present in the tailings. Elemental phosphorus was not detected in the other soil samples.

5.4.1.1.2 2006 General Parameters Delineation

Fluoride concentrations in the native soil samples collected from monitoring well boreholes installed beneath the tailing basin are above the background/reference area concentrations. Native soil samples collected from other well bores around the Plant were also above the background/reference area concentrations. Fluoride concentrations appear to have higher concentrations around the Plant process areas (e.g. SWMUs) and the tailing basin. Fluoride concentrations are generally similar between the shallow and deep native soil sample intervals.

Elemental phosphorus was detected in two of forty-five samples of native soil collected from the 2006 monitoring well boreholes. Both samples were from the monitoring well MW-06-21 which was installed below SWMU 1 (Tailing Basin and Water Recirculation System). Based on the data, the trace concentrations of elemental phosphorus are limited to the native soil below the tailing basin at MW-06-21. Native soil below the tailing basin at MW-06-9 did not contain elemental phosphorus.

5.4.1.1.3 2006 Metals

The shallow and deep native soil sample analysis for metals parameters are summarized in Tables 5.4.1-3 and 5.4.1-4. For ease of discussion and for data presentation of figures, metals constituents have been broken down into the groupings that follow.

5.4.1.1.3.1 2006 Metals - Group A

The metals included in Group A are arsenic, cadmium, chromium and copper. The distribution of these metal constituents in the shallow and deep native soil samples is shown on Figures 5.4-4 and 5.4-5, respectively.

These metals are naturally present in native soils across the United States. The arsenic and copper concentrations are consistent with background/reference area soil concentrations. The cadmium and chromium concentrations are also consistent with the background area concentrations with the exception of the elevated concentrations for the 0-1 foot native soil interval at MW-06-21, which is located in the tailing basin. The cadmium and chromium concentrations in the deeper native soil intervals are consistent with background concentrations.

The 0-1 foot native soil sample from MW-06-21 contains cadmium and chromium concentrations above the maximum cadmium and chromium concentrations reported in the background samples. The cadmium and chromium concentrations are 10.1 J mg/kg and 74 J mg/kg, respectively. Cadmium was not detected and chromium was reported at 4 J mg/kg in the deeper interval at MW-06-21 indicating the cadmium and chromium concentrations decrease with depth.

5.4.1.1.3.2 2006 Metals - Group B

The metals included in Group B are iron, manganese, nickel and lead. The distribution of these metal constituents in the native shallow and deep soil samples are shown on Figures 5.4-6 and 5.4-7, respectively.

These metals are naturally present in native soils across the United States. The iron, lead, manganese and nickel concentrations for the shallow and deep native soil samples are consistent with the background/reference area concentrations.

5.4.1.1.3.3 2006 Metals - Group C

The metals included in Group C are selenium, silver, uranium, vanadium and zinc. The distribution of these metal constituents in the shallow and deep native soil samples are shown on Figures 5.4-8 and 5.4-9, respectively.

These metals are naturally present in native soils across the United States. The selenium, silver and zinc concentrations in the shallow and deep native soil samples are consistent with background/reference area soil concentrations.

Uranium was present at concentrations above the background/reference area concentrations for the shallow and deep native soil samples. The uranium concentrations appear to be slightly higher in the deep native soil samples but generally have a random horizontal distribution.

Vanadium concentrations are generally consistent with background/reference area concentrations. One deep native soil sample collected north of the tailing basin (MW-06-21) was above the mean and maximum background/reference concentration and an order of magnitude higher than the other native soil samples. The data does not indicate any distinct horizontal or vertical trends in the native soil.

5.4.1.1.3.4 2006 Metals - Group D

The metals included in Group D are barium, beryllium, cobalt, mercury and thallium. The distribution of these metal constituents in the shallow and deep native soil samples are shown on Figures 5.4-10 and 5.4-11, respectively.

These metals are naturally present in native soils across the United States. The beryllium, cobalt, mercury and thallium concentrations in the shallow and deep native soil samples are consistent with the background/reference levels.

Barium concentrations in the shallow native soil are consistent with the background/reference area soil concentrations. The deep native soil data set contains concentrations above the maximum background concentrations. The barium concentrations in the deep native soil are somewhat higher than the shallow native soil, but this trend is not indicative of a release for the Silver Bow Plant.

5.4.1.1.3.5 2006 Metals - Group E

The metals included in Group E are antimony, calcium, magnesium, potassium and sodium. The distribution of these metal constituents in the shallow and deep native soil samples is shown on Figures 5.4-12 and 5.4-13, respectively. These metals are naturally present in native soils across the United States. Calcium, magnesium, potassium, and sodium are not hazardous constituents but were analyzed to fully characterize the native soils.

The shallow native soil samples are above the background concentrations for calcium. Calcium concentrations in the deep native soil are consistent with the background/reference area soil concentrations. Based on the data, calcium concentrations appear to decrease with depth.

Magnesium concentrations in the shallow native soil are consistent with the background/reference area soil concentrations. The deep native soil samples are above the background concentrations for magnesium. Based on the data, magnesium concentrations appear to increase with depth.

Potassium concentrations in the shallow and deep native soil are above the background/reference area soil concentrations. The data do not indicate any distinct horizontal or vertical trends in the native soil.

Potassium and sodium constituents were present in the shallow and deep native soil samples at concentrations that were consistent with the background/reference area soil samples.

As noted in Table 5.4.1-3 and 5.4.1-4, all laboratory reported antimony results were rejected based on sample quality assurance and quality control review.

5.4.1.1.4 2006 Metals Delineation

The following metals were identified in the shallow native soil samples to have a mean and maximum concentration above that of the background soil samples: cadmium, calcium, chromium, potassium, sodium and uranium. The reported cadmium and chromium concentrations from the shallow native soil sample collected below the Tailing Basin causes the mean value of the shallow native soil data set to exceed the cadmium and chromium background mean concentration. It is likely the tailings have impacted the shallow native soil below the tailing basin at MW-06-21.

The following metals concentrations were identified in the deep native soil samples as above background based on comparison to the background/reference area values: barium, magnesium, potassium, sodium, uranium and vanadium. In general, barium, magnesium and sodium concentrations appear to increase with depth in the native soil. Concentrations of the remaining constituents from the list above generally decrease or remain very similar with depth in the soil below the Tailing Basin.

Arsenic, copper, and zinc concentrations are generally higher in the shallow samples than in the deep interval of native soil. The trend is more evident for the samples collected from borings closer to the Streamside Tailings Operable Unit (SSTOU) and may be the result of windblown dust from the SSTOU.

5.4.1.1.5 2006 SVOCs

Although SVOC compounds are ubiquitous in the environment (e.g. from forest fires), Montana has not published background concentrations. For the purposes of this SWMU evaluation, background is considered below detection limits. Accordingly, the SVOCs detected in the shallow and deep native soil samples are considered above background. The SVOC constituents not detected in shallow and

deep native soil samples are not discussed. The SVOC data for shallow and deep native soil are presented in Tables 5.4.1-5 and 5.4.1-6, respectively.

Twenty-two shallow soil and twenty-three deep soil samples were collected and submitted for laboratory analysis of SVOCs. The only SVOC compound that was detected in the shallow samples was bis(2-ethylhexyl)phthalate. Bis(2-ethylhexyl)phthalate was also detected at similar concentrations in a few samples from the deeper native soil interval. This SVOC compound is commonly found in plastics and is a common laboratory contaminant, and likely does not indicate a release from the site.

Seven SVOC constituents were reported in the deeper native soil sample collected at MW-06-3 and include: 1-methylnaphthalene, 2-methylnaphthalene, fluorene, naphthalene, phenanthrene, phenol and pyrene. Six of the SVOC constituents belong to a subgroup of SVOCs known as polynuclear aromatic hydrocarbons (PAHs) and are not considered by the EPA as cancer-causing constituents. Phenol is also not considered a carcinogen. These constituents were not detected in the shallow native soil sample collected from the same location and are not widely distributed across the Silver Bow Plant.

5.4.1.1.6 2006 SVOC Delineation

Based on the above information, bis(2-ethylhexyl)phthalate, a common lab contaminant, was reported in 10 of 45 native soil samples. The remaining detected SVOC concentrations were limited to a single sample from a deep native soil sample collected from MW-06-3 located on the far western edge of the Site. Since these SVOCs were not detected in the shallow native soil sample from the same location, the detection in the deeper soil sample is not indicative of a release from the Silver Bow Plant.

5.4.1.1.7 2006 VOCs

The VOC data for the deep native soil samples are presented in Table 5.4.1-7. Twenty three deep native soil samples were collected and analyzed for VOCs. VOCs were not detected in any soil sample.

5.4.1.1.8 2006 PCBs

Shallow and deep native soil samples were collected from MW-06-13, MW-06-15, MW-06-18 and MW-06-25 and analyzed for PCBs. The PCB data are summarized in Table 5.4.1-8 for the shallow native soil samples and Table 5.4.1-9 for the deep native soil samples. PCBs were not detected in any soil sample.

5.4.1.1.9 2006 Radionuclides

Radionuclide data for the shallow and deep native soil samples are summarized in Tables 5.4.1-10 and 5.4.1-11, respectively. The distribution of radionuclide constituents in the shallow native soil samples is shown on Figure 5.4.1-14. Distribution of the radionuclide constituents in the deep native soil samples is shown on Figure 5.4.1-15.

Radionuclide parameters were reported in the shallow and deep native soil samples at concentrations that did not exceed the background/reference area mean and maximum concentrations. The radionuclide constituents were reported in the shallow native soil samples at a greater frequency than the deep native soil samples. The highest concentrations generally correspond with samples from beneath the tailing basin at MW-06-21.

For the shallow native soil samples, the radionuclide concentrations of lead-210 ranged from <0.2 to 3.5 pCi/g. Radium-226 concentrations ranged from 0.6 to 4.4 pCi/g and thorium-230 ranged from <0.2 to 3.7 pCi/g. Uranium isotopes U-234 and U-238 ranged from <0.2 to 5.3 pCi/g; and <0.2 to 3.5 pCi/g, respectively.

The deep native soil samples had reported concentrations of lead-210 ranging from 0.2 to 1.5 pCi/g; radium-226 from 0.5 to 3.8 pCi/g; thorium-230 from <0.2 to 1.7 pCi/g; uranium 234 from <0.2 to 1.3 pCi/g; and uranium-238 from <0.2 to 3.7 pCi/g.

5.4.1.1.10 2006 Radionuclides Delineation

Random distribution of the high and low reported concentrations provided in the ranges does not support any obvious vertical or horizontal trends in the tailing basin or in the soil. The radionuclide parameters are generally consistent with background concentrations.

5.4.1.2 2012 Natural and Undeveloped Area Soil Quality Investigation Results

Analytical soil samples were collected from the 0- to 1-foot interval (shallow) in seventeen locations in the Natural and Undeveloped Areas (*see* Figure 5.4-1). Native soil samples were analyzed for Site-specific parameters, metals, radionuclides, pH, grain size and total organic carbon (TOC). The nomenclature from the 2012 samples reflects the area the samples were collected. For example, NA-1 was collected from the Natural Area, S-UA-1 was collected from the South Undeveloped Area, E-UA-1 was collected from the East Undeveloped Area and NE-UA-1 was collected from the Northeast Undeveloped Area. The sample locations are shown on Figure 5.4-1.

The soil sample data were compared to the soil background/reference area concentrations where applicable. Concentrations above the 95% upper confidence limit of the mean background/reference area concentrations are highlighted on the constituent delineation figures presented in this section (Figures 5.4-2 through 5.4-15). Where a 95% upper limit could not be calculated, the maximum detected concentration or the maximum detection limit was selected.

Constituent concentrations are described in this report as above background/reference area concentrations if the mean and maximum concentrations of the SWMU data exceed both of the mean and maximum background/reference area values. All data will be retained for evaluation in the human health and ecological risk assessments. The definitive background comparison will be conducted in the risk assessment using a statistical approach consistent with EPA guidance (U.S. EPA, 2002).

5.4.1.2.1 2012 General Parameters

General parameters for the surface soil samples include fluoride and elemental phosphorus. The analytical results for the shallow soil samples are summarized in Table 5.4.1-1. The sample locations are shown on Figure 5.4-1. The distribution of these general parameter constituents and are shown on Figure 5.4-2.

Fluoride concentrations ranged between 0.56 mg/kg to 12.2 mg/kg with an average concentration of 3.8 mg/kg.

Elemental phosphorus was not detected in soil samples from any location in the Natural and Undeveloped Areas. Total phosphorus concentrations ranged between 424 mg/kg to 1050 mg/kg with an average concentration of 704 mg/kg.

5.4.1.2.2 2012 General Parameters Delineation

Fluoride concentrations in the surface soil samples are above the background/reference area concentrations in the East and Northeast Undeveloped Area. The samples from the eastern undeveloped area have higher fluoride concentrations.

Elemental phosphorus was not detected (DL = 0.000015 mg/kg) in any of the seventeen surface soil samples collected from the Natural and Undeveloped Areas.

Total phosphorus concentrations were generally higher in the northern portion of the Natural Area, the East and Northeast Undeveloped Areas than in the southern portion of the Natural Area and the South Undeveloped Area.

5.4.1.2.3 2012 Metals

The surface soil sample results for metals parameters are summarized in Table 5.4.1-3. For ease of discussion and for data presentation on figures, metals constituents have been broken down into the groupings that follow.

5.4.1.2.3.1 2012 Metals - Group A

The metals included in Group A are arsenic, cadmium, chromium and copper. The distribution of these metal constituents in the shallow native soil samples is shown on Figure 5.4-4. These metals are naturally present in native soils across the United States. The arsenic, copper, cadmium and chromium concentrations are consistent with the background area concentrations.

5.4.1.2.3.2 2012 Metals - Group B

The metals included in Group B are iron, manganese, nickel and lead. The distribution of these metal constituents in the native shallow soil samples are shown on Figure 5.4-6. These metals are naturally present in native soils across the United States. The iron, lead, manganese and nickel concentrations are consistent with the background/reference area concentrations.

5.4.1.2.3.3 2012 Metals - Group C

The metals included in Group C are selenium, silver, uranium, vanadium and zinc. The distribution of these metal constituents in the shallow native soil samples are shown on Figure 5.4-8. These metals are naturally present in native soils across the United States. The selenium, silver, vanadium and zinc concentrations in the native soil samples are consistent with background/reference area soil concentrations.

Uranium was present at concentrations above the background/reference area concentrations for the surface soil samples.

5.4.1.2.3.4 2012 Metals - Group D

The metals included in Group D are barium, beryllium, cobalt, mercury and thallium. The distribution of these metal constituents in the shallow native soil samples are shown on Figure 5.4-10. These metals are naturally present in native soils across the United States. The beryllium, cobalt, mercury and thallium concentrations in the shallow and deep native soil samples are consistent with the background/reference levels.

Barium was present at concentrations above the background/reference area concentrations for the surface soil samples.

5.4.1.2.3.5 2012 Metals - Group E

The metals included in Group E are antimony, calcium, magnesium, potassium and sodium. The distribution of these metal constituents in the shallow native soil samples is shown on Figure 5.4-12. These metals are naturally present in native soils across the United States. Calcium, magnesium, potassium, and sodium are not hazardous constituents but were analyzed to fully characterize the native soils.

Antimony and potassium were present at concentrations consistent with background/reference area concentrations for the surface soil samples.

Calcium, magnesium, and sodium were present at concentrations above the background/reference concentrations.

5.4.1.2.4 2012 Metals Delineation

The following metals were identified in the shallow native soil samples to have a mean and maximum concentration above that of the background soil samples: barium, calcium, magnesium sodium, uranium.

5.4.1.2.5 2012 Radionuclides

Radionuclide data for the surface soil samples are summarized in Table 5.4.1-10. The distribution of radionuclide constituents in the shallow native soil samples is shown on Figure 5.4.1-14.

Radionuclide concentrations were generally consistent to slightly higher than the background/reference area concentrations.

For the Natural and Undeveloped Area soil samples, the radionuclide concentrations of Pb-210 ranged from <4.1 to 19 pCi/g. Ra-226 concentrations ranged from <1 to 9 pCi/g and thorium-230 ranged from <0.74 to 3.6 pCi/g. Uranium isotopes U-234 and U-238 ranged from <0.27 to 1.3 pCi/g; and <0.27 to 1.73 pCi/g, respectively.

5.4.1.2.6 2012 Radionuclides Delineation

Radionuclide concentrations were generally consistent to slightly higher than the background/reference area concentrations. The distribution of the higher and lower concentrations provided in the ranges does not support any obvious horizontal trends over the areas.

5.4.1.2.7 2012 pH, TOC and Grain Size

The samples collected from the Natural and Undeveloped Areas were also analyzed for pH, total organic carbon (TOC) and grain size. The results are presented in Table 5.4.1-12 and will be used in the risk assessment.

5.4.1.3 Native Soil Quality Investigation Conclusions

The following conclusions were developed based on review of the information presented in this section:

- No additional areas of concern were identified by this monitoring program.
- Several trends were identified in the native soil data:
 - Fluoride concentrations appear to have higher concentrations around the Plant process areas (SWMUs) and the Tailing Basin. The fluoride concentrations are generally similar between the shallow and deep native soil sample intervals.
 - Elemental phosphorus was detected in the shallow and deep native soil samples below the Tailing Basin at MW-06-21. Cadmium and chromium in the shallow native soil beneath the Tailing Basin exceed the background/reference area soil concentrations. Cadmium and chromium in the deep native soil beneath the Tailing Basin are consistent with the background/reference area soil concentrations. Based on the data, the Tailing Basin has impacted the underlying shallow native soil but impacts are not found in the deeper native soil.
 - The native soil contains concentrations of metals at levels above background soil concentrations. The following metals exceed the mean and maximum concentrations of the background/reference area concentrations: cadmium and chromium below the Tailing Basin, calcium, potassium, sodium and uranium. The following metals in the deep native soil samples exceed the background/reference area values: barium, magnesium, potassium, sodium, uranium and vanadium. In general, barium, magnesium and sodium concentrations appear to increase with depth in the native soil. The remaining constituents from the lists above generally decrease in concentration or remain constant with depth below the tailing basin.
 - Arsenic, copper, and zinc concentrations are generally higher in the shallow samples than in the deep samples of native soil. The trend is more evident for the samples collected from borings closer to the SSTOU and may be the result of windblown dust from the SSTOU.

- Radionuclide constituents were reported in the shallow and deep native soil samples at activities consistent with background/reference area mean and maximum concentrations. The radionuclide constituents were reported in the shallow native soil samples at a greater frequency than the deep native soil samples and the highest activities generally correspond with samples from beneath the Tailing Basin (MW-06-21).
- No VOCs or PCBs were detected in soil samples.
- Seven SVOC compounds were found in the deep native soil sample collected from the MW-06-3 location on the far west side of the Site. Since these SVOCs were not detected in the shallow native soil sample from the same location, the detection in the deeper soil sample is not indicative of a release from the Silver Bow Plant. SVOC compound bis(2-ethylhexyl)phthalate, a common laboratory contaminant, was reported in shallow and deep native soil samples.

There is sufficient information to conduct the risk assessment for the natural and undeveloped areas. The risk assessment will identify which parameters, if any, are present at concentrations that may warrant corrective measures. The dataset would be reviewed at that time and additional sampling may be necessary to inform the corrective measures study or later during the corrective measures design phase.

5.4.2 XRF Evaluation

The XRF program demonstrated that XRF (x-ray fluorescence spectrometry) is a useful tool to provide reliable, real-time metals data during investigation activities at the Silver Bow Plant. The instrument provided a larger data set for delineation of certain metals. The XRF instrument also provides a screening tool for the other metals included in the analysis.

5.4.2.1 XRF Pilot Test Program

The XRF Pilot Test Program was conducted in 2006 to evaluate the site-specific correlation between XRF data and laboratory data. The pilot test program included soil samples from SWMU 6 (Raw Materials Area), SWMU 10 (Coal Stockpile Area), and SWMU 9 (Coke Fines Area). One hundred forty five (145) soil samples were analyzed for metals using EPA Method 6200 Field Portable X-Ray Fluorescence Spectrometry for the Determination of Elemental Concentrations in Soil and Sediment. Twenty four (24) confirmatory (i.e., split) samples were analyzed at a commercial analytical laboratory for comparison to the XRF data.

Appendix 5.4.2-A provides a detailed evaluation of the XRF Pilot Test Program including sample collection, XRF analysis, and evaluation of the data distribution and correlation between XRF and

laboratory data. The distribution of the XRF data was evaluated using histograms constructed with about 10 intervals across the range of detected values. The purpose of the histograms was to identify a threshold concentration (i.e., 95% of the XRF concentrations) above which sample concentrations should be confirmed with laboratory analysis.

The correlation between XRF and laboratory data was evaluated with a least squares linear regression analysis. Paired values were plotted on a XY graph and the best fit line was drawn based on the linear regression model. The linear regression only considered paired values that were detected in both data sets. The correlation coefficient (i.e., R^2) for the linear regression model was calculated. EPA method 6200 recommends that if the correlation coefficient is greater than or equal to 0.7, the XRF data should be considered “screening level” data. If the correlation coefficient is 0.9 or greater and inferential statistics indicate the XRF data and the confirmatory data are statistically equivalent at a 99 percent confidence level, the data could potentially meet definitive level data criteria. (See Section 9.7 of EPA Method 6200).

The XRF pilot program demonstrated that XRF is a useful tool to provide reliable, real-time metals data during investigation activities at the Silver Bow Plant. The XRF pilot program identified eight metals with correlation coefficient of 0.7 or greater as summarized:

Element	Correlation Coefficient	Linear Equation	XRF-Reported Concentration Range [mg/kg]	XRF Concentration Threshold [mg/kg]
Arsenic	0.71	$y = 0.66x - 3.6$	10 to 120	95
Cadmium	0.83	$y = 0.85x + 28$	44 to 410	140
Chromium	0.70	$y = 0.60x + 110$	79 to 14,000	1,800
Copper	0.87	$y = 0.57x + 27$	18 to 870	240
Iron	0.91	$y = 0.30x + 4000$	490 to 170,000	130,000
Lead	0.69	$y = 1.1x - 17$	8 to 230	110
Nickel	0.95	$y = 0.53 + 6.7$	100 to 1,100	1,000
Zinc	0.95	$y = 10^{(1.06 \text{ Log}(x) - 16)}$	29 to 2,700	2,600

The results of the XRF pilot program were used to establish the XRF screening and confirmatory program which was presented as Appendix H of the approved Phase 1 RFI Work Plan (Barr 2009). The XRF screening and confirmatory program consisted of XRF analysis of soil samples, laboratory analysis of confirmatory (i.e., split) samples at a rate of one per twenty samples analyzed by XRF, and laboratory analysis of split samples, if the XRF reported a concentration greater than the

respective threshold concentration. The threshold concentrations were selected at the concentration that represented 95% of the XRF concentrations determined for the pilot program samples. Therefore, samples with XRF concentrations above the threshold would be analyzed at the laboratory to confirm these higher concentrations.

5.4.2.2 XRF Screening and Confirmatory Program

The XRF screening and confirmatory program was conducted in 2009 with samples collected from SWMU 1 – Tailing Basin, SWMU 6 – Raw Materials Area, SWMU 7 – Elemental Phosphorus Production Area, SWMU 9 – Coke Fines Area, SWMU 21 - Former Transformer Locations and Transformer Storage Area, and SWMU 22 - Slag Granulation Water and Temporary Retention Ditch. Two hundred twenty five (225) soil samples were analyzed for metals using EPA Method 6200 Field Portable X-Ray Fluorescence Spectrometry for the Determination of Elemental Concentrations in Soil and Sediment. Thirty seven (37) confirmatory (i.e., split) samples were analyzed at a commercial analytical laboratory for comparison to the XRF data. In addition, several samples were collected from locations sampled in 2006 that had XRF concentrations above the respective threshold concentration.

Appendix 5.4.2-B provides a detailed evaluation of the XRF analytical program including sample collection, XRF analysis, and evaluation of the data distribution and correlation between XRF and laboratory data. In an effort to improve the correlation, the soil samples were dried in an oven to generate samples with consistent moisture content prior to XRF analysis. Moisture could interfere with the XRF instruments ability to accurately quantify the elements. All other procedures were the same as in 2006 including the evaluation the XRF and analytical data. The XRF analytical program identified ten metals with correlation coefficients of 0.7 or greater as summarized below:

Element	Correlation Coefficient (R ²)	Linear Equation	XRF-Reported Concentration Range [mg/kg]	XRF Concentration Threshold [mg/kg]
Arsenic	0.85	$y = 0.65x + 3.9$	8 to 170	120
Cadmium	0.99	$y = 1.0x - 20$	10 to 590	580
Chromium	0.87	$y = 0.82x - 50$	28 to 1,000	900
Lead	0.85	$y = 0.78x - 6.4$	11 to 160	120
Manganese	0.82	$y = 0.75x - 15$	93 to 1,300	960
Selenium	0.83	$y = 1.65x - 19$	5 to 69	50
Silver	0.94	$y = 0.87x - 8.3$	8 to 60	55
Uranium	0.98	$y = 0.97 - 13.8$	15 to 130	120

Element	Correlation Coefficient (R^2)	Linear Equation	XRF-Reported Concentration Range [mg/kg]	XRF Concentration Threshold [mg/kg]
Vanadium	0.88	$y = 1.5x - 120$	50 to 750	700
Zinc	0.98	$y = 10^{(1.07 \text{ Log}(x) - 0.35)}$	31 to 16,000	10,000

The consistent soil moisture may have improved the XRF's ability to quantify the metals. The respective correlation coefficient is higher for many of the metals when compared to the 2006 results. However, the correlation coefficients for three metals (copper, iron and nickel) were no longer sufficiently correlated (i.e., $R^2 < 0.7$) to transform the XRF concentrations to XRF correlated concentrations. Review of the correlation data set in Table 3 of Appendix 5.4.2-B indicates that the XRF concentrations are routinely higher than the analytical concentrations for the spit samples. Consequently, the XRF concentrations summarized in Table 1 of Appendix 5.4.2-B provide a biased-high concentration (i.e., actual concentration is likely lower than the XRF concentration).

The XRF screening and confirmatory program included a provision to analyze soil samples for hexavalent chromium for samples that exceeded the XRF chromium threshold. Five surface soil samples were analyzed for hexavalent chromium and include samples with total chromium levels on the order of some of the highest samples measured at the site.

Sample	Hexavalent Chromium (ppm)	Total Chromium (ppm)	Ratio Cr(VI)/Total Cr
RM-8-1	0.39	317	0.0012
RM-8-4	0.43	590	0.0007
RM-8-5	0.31	1,290	0.0002
RM-8-5	0.55	1,700	0.0003
RM-8-6	0.39	2,040	0.0002

An evaluation of the hexavalent chromium data with regard to the future risk assessment is presented Section 3.2 of the Human Health Risk Assessment Work Plan (Exponent, 2012b), which concludes that:

Because of the low fraction of hexavalent chromium present at the site, the trivalent chromium screening level is the most appropriate comparison for site total chromium concentrations. Total chromium did not exceed the residential soil screening level for trivalent chromium in any of the

299 surface soil samples analyzed at the site. As agreed upon by EPA, if hexavalent chromium is retained in the risk assessment following the CoPC screening in the HHRA, the ratio of hexavalent chromium/total chromium in the five soil samples in which hexavalent chromium was analyzed will be used to estimate hexavalent chromium concentrations in other soil samples in which only total chromium was analyzed (Exponent, 2012b)

5.4.2.3 Background/Reference Area Soil Investigation

The background/reference area soil investigation was conducted in 2010 (Barr, 2009). Composite soil samples were generated from five subsamples collected from locations across the specific area. Soil samples were collected from the 0-2 inch, 2-12 inch and 12-18 inch depth intervals at each subsample location. Each subsample and the corresponding composite sample were analyzed using the XRF screening procedure to evaluate the distribution of metals across the specific area. The XRF concentrations for the background/reference area data set are summarized in Table 5.4.2-1. The average XRF concentration for the 5 subsamples was calculated and compared to the XRF concentration for the composite sample. The relative percent difference (RPD) was calculated for the data pair and is shown for each parameter in the composite sample. In general, the XRF concentrations are consistent among the five subsamples for each composite and the average XRF concentration is consistent with the XRF concentrations in the composite samples. Ninety eight percent (98%) of the 1,457 data pairs have RPDs less than 50%.

A considerable amount of XRF and laboratory confirmation data were generated from the background/reference area soil investigation (47 samples). However, the concentrations were grouped at the low end of the respective concentration scale for most of the parameters so the data set does not improve the correlation between XRF and laboratory data.

5.4.3 References

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- Barr Engineering Co. 2006c. Draft Phase 1 RCRA Facility Investigation Work Plan, Corrective Action Order on Consent, Docket No. RCRA-08-2004-0001., Rhodia Silver Bow Plant, Butte, Montana, August 2006.

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Tables

Table 5.4.1-1
Native Soil Quality Data - Shallow
General Parameters
Rhodia Silver Bow Plant

[concentrations in mg/kg, unless otherwise noted]

Chemical Name				Fluoride	Phosphorus, elemental (white)	Phosphorus, total
Background Mean, Exceedances Bold				4.1		
Background Maximum, Exceedances <u>Underline</u>				<u>37</u>		
Background 95% UCL, Exceedances <i>Italic</i>				<i>7.6</i>		
Location ID	Sample Date	Depth	Sample Type			
2006 Native Soil Investigation						
MW-06-1	09/28/2006	0 - 1 ft	N	<u>650 J</u>	< 0.0000499 J	634 J
MW-06-2	09/13/2006	0 - 1 ft	N	<u>630</u>	< 0.0000499 J	342 J
MW-06-3	09/11/2006	0 - 1 ft	N	<u>420</u>	< 0.0000499 J	334 J
MW-06-4	09/11/2006	0 - 1 ft	N	<u>210</u>	< 0.0000499 J	380 J
MW-06-5	09/14/2006	0 - 1 ft	N	<u>800</u>	< 0.0000499 J	260 J
MW-06-9	10/23/2006	45 - 46 ft	N	<u>690</u>	< 0.0000499 J	441 J
			FD	<u>750</u>	< 0.0000499 J	452 J
MW-06-10	09/28/2006	0 - 1 ft	N	<u>630</u>	< 0.0000499 J	744 J
MW-06-11	10/01/2006	0 - 1 ft	N	<u>930</u>	< 0.0000499 J	1480 J
MW-06-12	10/01/2006	0 - 1 ft	N	<u>850</u>	< 0.0000499 J	770 J
MW-06-13	10/02/2006	0 - 1 ft	N	<u>740</u>	< 0.0000499 J	480 J
MW-06-14	09/30/2006	8 - 10 ft	N	<u>950</u>	< 0.0000499 J	741 J
MW-06-15	09/29/2006	2 - 3 ft	N	<u>1300</u>	< 0.0000499 J	805 R
MW-06-16	09/30/2006	0 - 1 ft	N	<u>2000</u>	< 0.0000499 J	3380 J
MW-06-17	09/30/2006	1 - 2 ft	N	<u>2400 J</u>	< 0.0000499 J	3380 J
MW-06-18	09/29/2006	2 - 3 ft	N	<u>1400</u>	< 0.0000499 J	1150 J
MW-06-19	09/27/2006	6 - 7 ft	N	<u>730</u>	< 0.0000499 J	953 R
MW-06-20	10/03/2006	3 - 4 ft	N	<u>1100</u>	< 0.0000499 J	473 J
MW-06-21	10/11/2006	32 - 33 ft	N	<u>3500 J</u>	0.000184 J	6510 J
MW-06-22	10/04/2006	5 - 6 ft	N	<u>660 J</u>	< 0.0000499 J	635 J
MW-06-23	09/15/2006	0 - 1 ft	N	<u>480</u>	< 0.0000499 J	254 J
MW-06-25	10/15/2006	3 - 4 ft	N	<u>1100 J</u>	< 0.0000499 J	408 J
2012 Natural and Undeveloped Area Investigation						
NA-1	10/04/2012	0 - 12 in	N	0.93 J	< 0.000015	510
NA-2	10/05/2012	0 - 12 in	N	0.56	< 0.000015	638
NA-3	10/05/2012	0 - 12 in	N	0.56	< 0.000015	424
NA-4	10/05/2012	0 - 12 in	N	0.84	< 0.000015	674
NA-5	10/03/2012	0 - 12 in	N	3.8	< 0.000015	1000
NA-6	10/03/2012	0 - 12 in	N	6.1	< 0.000015	958
NA-7	10/03/2012	0 - 12 in	N	1.5	< 0.000015	501
NA-8	10/03/2012	0 - 12 in	N	3.2	< 0.000015	794
NE-UA-1	10/06/2012	0 - 12 in	N	8.03	< 0.000015	702
NE-UA-2	10/06/2012	0 - 12 in	N	1.35	< 0.000015	812
NE-UA-3	10/06/2012	0 - 12 in	N	2.82	< 0.000015	753
E-UA-1	10/05/2012	0 - 12 in	N	11.1	< 0.000015	1050
E-UA-2	10/05/2012	0 - 12 in	N	8.26	< 0.000015	960
E-UA-3	10/05/2012	0 - 12 in	N	12.2	< 0.000015	538
S-UA-1	10/05/2012	0 - 12 in	N	1.66	< 0.000015	480
			FD	1.71	< 0.000015	681
S-UA-2	10/05/2012	0 - 12 in	N	0.92	< 0.000015	601
S-UA-3	10/05/2012	0 - 12 in	N	0.64	< 0.000015	574

Table 5.4.1-2
Native Soil Quality Data - Deep
General Parameters
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Fluoride	Phosphorus, elemental (white)	Phosphorus, total
Background Mean, Exceedances Bold				4.1		
Background Maximum, Exceedances <u>Underline</u>				<u>37</u>		
Background 95% UCL, Exceedances <i>Italic</i>				<i>7.6</i>		
Location ID	Sample Date	Depth	Sample Type			
2006 Native Soil Investigation						
MW-06-1	09/28/2006	8 - 10 ft	N	<u>610</u>	< 0.0000499 J	459 J
MW-06-2	09/13/2006	8 - 10 ft	N	<u>810</u>	< 0.0000499 J	421 J
MW-06-3	09/11/2006	9 - 11 ft	N	<u>230</u>	< 0.0000499 J	447 J
MW-06-4	09/11/2006	8 - 10 ft	N	<u>630</u>	< 0.0000499 J	249 J
MW-06-5	09/14/2006	3 - 5 ft	N	<u>510</u>	< 0.0000499 J	225 J
MW-06-9	10/23/2006	52 - 54 ft	N	<u>1400</u>	< 0.0000499 J	195 J
MW-06-10	09/28/2006	8 - 10 ft	N	<u>910</u>	< 0.0000499 J	452 J
MW-06-11	10/01/2006	8 - 10 ft	N	<u>850</u>	< 0.0000499 J	305 J
MW-06-12	10/01/2006	8 - 10 ft	N	<u>1800</u>	< 0.0000499 J	188 J
MW-06-13	10/02/2006	8 - 10 ft	N	<u>1000</u>	< 0.0000499 J	352 J
MW-06-14	09/30/2006	8 - 10 ft	N	<u>950</u>	< 0.0000499 J	330 J
MW-06-15	09/29/2006	10 - 12 ft	N	<u>990</u>	< 0.0000499 J	648 J
			FD	<u>940</u>	< 0.0000499 J	761 J
MW-06-16	09/30/2006	8 - 10 ft	N	<u>1000</u>	< 0.0000499 J	421 J
MW-06-17	09/30/2006	9 - 11 ft	N	<u>1300</u>	< 0.0000499 J	1140 J
MW-06-18	09/29/2006	10 - 12 ft	N	<u>1200</u>	< 0.0000499 J	770 J
MW-06-19	09/27/2006	14 - 16 ft	N	<u>770</u>	< 0.0000499 J	1110 J
			FD	<u>680</u>	< 0.0000499 J	1100 J
MW-06-20	10/03/2006	11 - 13 ft	N	<u>970</u>	< 0.0000499 J	550 J
MW-06-21	10/11/2006	40 - 42 ft	N	<u>820 J</u>	0.000136 J	407 J
MW-06-22	10/04/2006	13 - 15 ft	N	<u>1000 J</u>	< 0.0000499 J	453 J
MW-06-23	09/15/2006	8 - 10 ft	N	<u>550</u>	< 0.0000499 J	446 J
MW-06-25	10/15/2006	10 - 12 ft	N	<u>910 J</u>	< 0.0000499 J	470 J

Table 5.4.1-3
Native Soil Quality Data - Shallow
Metals
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name Analysis Location				Antimony Lab	Arsenic Lab	Barium Lab	Beryllium Lab	Cadmium Lab	Calcium Lab	Chromium Lab	Cobalt Lab	Copper Lab	Iron Lab	Lead Lab	Magnesium Lab	Manganese Lab	Mercury Lab	Nickel Lab	Potassium Lab	Selenium Lab	Silver Lab	Sodium Lab	Thallium Lab	Uranium Lab	Vanadium Lab	Zinc Lab
Background Mean, Exceedances Bold				0.50	23	150	0.51	1.6	3900	11	5.9	35	19600	17	3500	540	0.021	5.3	3000	0.41	0.73 (1)	140	0.35	1.8	41	59
Background Maximum, Exceedances <u>Underline</u>				3.9	120	290	1.3	8.9	14000	48	9.5	301	35300	190	5700	1100	0.20	21	5300	0.70	1.7 (1)	620	1.0	4.1	83	380
Background 95% UCL, Exceedances <i>Italic</i>				1.0	40	170	0.55	1.1	4500	12	6.1	64	20600	35	3700	570	0.038	6.0	3200	0.47	0.35 (1)	220	0.46	2.0	43	98
Location ID	Sample Date	Depth	Sample Type																							
2006 Native Soil Investigation																										
MW-06-1	09/28/2006	0 - 1 ft	N	< 2 R	23 J	108 J	< 2 J	< 0.5 J	4850 J	7 J	5 J	62 J	13400 J	16 J	3540 J	469 J	< 0.1	5 J	3270 J	< 2 J	< 0.5 J	116 J	3 J	2 J	28 J	61 J
MW-06-2	09/13/2006	0 - 1 ft	N	< 2 R	20 J	158 J	< 2 J	< 0.5 J	2160 J	9 J	5 J	28 J	11300 J	10 J	2500 J	426 J	< 0.1	6 J	2490 R	< 2 J	< 0.5 J	119 J	< 2 J	2 J	18 J	52 J
MW-06-3	09/11/2006	0 - 1 ft	N	< 2 R	10 J	93 J	< 2 J	< 0.5 J	2690 J	6 J	4 J	31 J	9590 J	6 J	2550 J	291 J	< 0.1	5 J	2610 R	< 2 J	< 0.5 J	74 J	< 2 J	2 J	16 J	40 J
MW-06-4	09/11/2006	0 - 1 ft	N	< 2 R	54 J	135 J	< 2 J	0.5 J	2130 J	8 J	4 J	66 J	11000 J	17 J	2480 J	406 J	< 0.1	5 J	3330 R	< 2 J	< 0.5 J	141 J	< 2 J	1 J	21 J	61 J
MW-06-5	09/14/2006	0 - 1 ft	N	< 2 R	9 J	93 J	< 2 J	< 0.5 J	1990 J	4 J	3 J	20 J	7030 J	8 J	1640 J	282 J	< 0.1	3 J	1500 R	< 2 J	< 0.5 J	231 J	< 2 J	< 1 J	14 J	27 J
MW-06-9	10/23/2006	45 - 46 ft	N	< 2 R	12 J	198 J	< 2 J	<i>1.4 J</i>	4660 J	10 J	7 J	27 J	17800 J	8 J	4720 J	387 J	< 0.1	7 J	5530 J	< 2 J	< 0.5 J	261 J	< 2 J	3 J	34 J	47 J
			FD	< 2 R	11 J	201 J	< 2 J	<i>1.4 J</i>	4760 J	11 J	7 J	27 J	18500 J	9 J	4970 J	392 J	< 0.1	7 J	5720 J	< 2 J	< 0.5 J	289 J	< 2 J	3 J	35 J	47 J
MW-06-10	09/28/2006	0 - 1 ft	N	< 2 R	33 J	119 J	< 2 J	1.0 J	2680 J	11 J	5 J	64 J	16400 J	20 J	2410 J	344 J	< 0.1	6 J	2210 J	< 2 J	< 0.5 J	74 J	2 J	2 J	39 J	95 J
MW-06-11	10/01/2006	0 - 1 ft	N	2 R	40 J	185 J	< 2 J	3.8 J	7260 J	15 J	5 J	62 J	16100 J	25 J	4140 J	502 J	< 0.1	7 J	4610 J	< 2 J	< 0.5 J	284 J	3 J	3 J	37 J	109 J
MW-06-12	10/01/2006	<i>0 - 1 ft</i>	N	3 R	29 J	105 J	< 2 J	0.8 J	2800 J	9 J	5 J	54 J	14300 J	21 J	3380 J	303 J	< 0.1	7 J	4220 J	< 2 J	< 0.5 J	185 J	4 J	2 J	37 J	66 J
MW-06-13	10/02/2006	0 - 1 ft	N	< 2 R	21 J	67 R	< 2 J	< 0.5 J	2250 J	11 J	4 J	30 J	13400 J	14 J	2480 J	248 R	< 0.1	5 J	2430 J	< 2 J	< 0.5 J	363 J	2 J	2 J	31 J	45 J
MW-06-14	09/30/2006	0 - 1 ft	N	2 R	18 J	107 J	< 2 J	< 0.5 J	2650 J	13 J	5 J	22 J	17700 J	12 J	2660 J	227 J	< 0.1	6 J	3020 J	< 2 J	< 0.5 J	134 J	3 J	3 J	43 J	46 J
MW-06-15	09/29/2006	2 - 3 ft	N	2 R	9 J	252 J	< 2 J	< 0.5 J	15800 J	7 J	6 J	19 J	16700 J	7 J	4220 R	333 R	< 0.1	6 J	2740 R	< 2 J	< 0.5 J	418 J	3 J	2 J	33 J	34 R
MW-06-16	09/30/2006	0 - 1 ft	N	2 R	33 J	125 J	< 2 J	5.8 J	8970 J	24 J	4 J	58 J	14600 J	24 J	2590 J	312 J	< 0.1	8 J	2960 J	< 2 J	0.8 J	191 J	3 J	5 J	51 J	123 J
MW-06-17	09/30/2006	1 - 2 ft	N	2 R	16 J	157 J	< 2 J	5.1 J	21900 J	38 J	5 J	39 J	17000 J	23 J	3290 J	320 J	< 0.1	10 J	3810 J	< 2 J	0.9 J	368 J	3 J	8 J	60 J	120 J
MW-06-18	09/29/2006	2 - 3 ft	N	< 2 R	13 J	194 J	< 2 J	< 0.5 J	8130 J	9 J	6 J	26 J	17800 J	9 J	3920 J	362 J	< 0.1	6 J	3090 J	< 2 J	< 0.5 J	699 J	3 J	3 J	34 J	48 J
MW-06-19	09/27/2006	6 - 7 ft	N	< 2 R	7 J	152 R	< 2 J	< 0.5 J	4440 R	5 J	5 J	21 J	14900 J	9 J	2970 R	234 R	< 0.1	5 J	4340 R	< 2 J	< 0.5 J	415 J	4 J	2 J	27 J	35 J
MW-06-20	10/03/2006	3 - 4 ft	N	< 2 R	3 J	167 J	< 2 J	1.0 J	4540 J	6 J	7 J	23 J	17800 J	6 J	3970 J	221 J	< 0.1	5 J	4890 R	< 2 J	< 0.5 J	811 J	3 J	3 J	28 J	44 J
MW-06-21	10/11/2006	32 - 33 ft	N	< 2 R	24 J	121 J	< 2 J	10.1 J	29400 J	74 J	4 J	49 J	15400 J	13 J	3890 J	138 J	0.2	19 J	4930 J	< 2 J	0.7 J	415 J	< 2 J	6 J	67 J	130 J
MW-06-22	10/04/2006	5 - 6 ft	N	< 2 R	6 J	178 J	< 2 J	0.9 J	7530 J	5 J	5 J	22 J	13300 J	5 J	3030 J	298 J	< 0.1	5 J	3960 R	< 2 J	< 0.5 J	477 J	2 J	2 J	25 J	36 J
MW-06-23	09/15/2006	0 - 1 ft	N	< 2 R	17 J	84 J	< 2 J	< 0.5 J	1490 J	7 J	4 J	30 J	11700 J	14 J	2280 J	272 J	< 0.1	4 J	3140 J	< 2 J	< 0.5 J	365 J	< 2 J	2 J	22 J	47 J
MW-06-25	10/15/2006	3 - 4 ft	N	< 2 R	12 J	208 J	< 2 J	0.5 J	5310 J	8 J	6 J	29 J	18000 J	8 J	3020 J	360 J	< 0.1	5 J	4720 J	< 2 J	< 0.5 J	822 J	< 2 J	3 J	30 J	53 J
2012 Natural and Undeveloped Area Investigation																										
NA-1	10/04/2012	0 - 12 in	N	0.650 J	37.8	133	0.58 J	0.50 J	2120	9.6 J	5.22 J	46.6	13700	18.5 J	2040	404	0.025	6.12 J	2060	< 0.2	< 1.0	129 J	0.244	1.280	33.4	47.5
NA-2	10/05/2012	0 - 12 in	N	0.551	33.2	176	0.46 J	0.69 J	2640	12.3	6.01 J	47.4	19500	15.0 J	2670	558	0.024	6.80 J	2900	< 0.2	< 1.0	74.3 J	0.283	1.690	49.0	61.3
NA-3	10/05/2012	0 - 12 in	N	0.412	27.0	94.0	0.54 J	0.50 J	2790	8.8 J	4.21 J	30.6	13100	6.8 J	3310	341	0.013 J	7.22 J	2140	< 0.2	< 1.0	76.0 J	0.258	0.738	27.7	42.7
NA-4	10/05/2012	0 - 12 in	N	0.946	42.5	201	0.67 J	1.03 J	3540	8.4 J	5.46 J	81.2	14000	30.6 J	3420	485	0.033	5.77 J	3660	< 0.2	< 1.0	95.5 J	0.291	1.040	26.1	76.7
NA-5	10/03/2012	0 - 12 in	N	0.491	26.2	450	0.82 J	<i>1.37 J</i>	16400	5.7 J	6.31 J	49.7	17200	25.6 J	5460	375	0.033	5.15 J	2780	< 0.2	< 1.1	352	0.272	1.140	26.	

Table 5.4.1-4
Native Soil Quality Data - Deep
Metals
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name Analysis Location				Antimony Lab	Arsenic Lab	Barium Lab	Beryllium Lab	Cadmium Lab	Calcium Lab	Chromium Lab	Cobalt Lab	Copper Lab	Iron Lab	Lead Lab	Magnesium Lab	Manganese Lab	Mercury Lab	Nickel Lab	Potassium Lab	Selenium Lab	Silver Lab	Sodium Lab	Thallium Lab	Uranium Lab	Vanadium Lab	Zinc Lab
Background Mean, Exceedances Bold				0.50	23	150	0.51	1.6	3900	11	5.9	35	19600	17	3500	540	0.021	5.3	3000	0.41	0.73 (1)	140	0.35	1.8	41	59
Background Maximum, Exceedances Underline				<u>3.9</u>	120	<u>290</u>	1.3	8.9	<u>14000</u>	48	9.5	301	35300	190	5700	1100	0.20	21	5300	0.70	1.7 (1)	620	1.0	4.1	83	380
Background 95% UCL, Exceedances <i>Italic</i>				<i>1.0</i>	<i>40</i>	<i>170</i>	<i>0.55</i>	<i>1.1</i>	<i>4500</i>	<i>12</i>	<i>6.1</i>	<i>64</i>	<i>20600</i>	35	<i>3700</i>	<i>570</i>	<i>0.038</i>	<i>6.0</i>	<i>3200</i>	<i>0.47</i>	0.35 (1)	220	<i>0.46</i>	<i>2.0</i>	43	98
Location ID	Sample Date	Depth	Sample Type																							
2006 Native Soil Investigation																										
MW-06-1	09/28/2006	8 - 10 ft	N	2 R	8 J	68 J	< 2 J	< 0.5 J	2250 J	11 J	5 J	21 J	18700 J	5 J	2310 J	291 J	< 0.1	4 J	2050 J	< 2 J	< 0.5 J	88 J	<u>3 J</u>	2 J	<i>54 J</i>	20 J
MW-06-2	09/13/2006	8 - 10 ft	N	< 2 R	3 J	271 J	< 2 J	< 0.5 J	4430 J	7 J	5 J	28 J	12700 J	5 J	5260 J	402 J	< 0.1	6 J	6430 R	< 2 J	< 0.5 J	<u>1360 J</u>	< 2 J	2 J	21 J	30 J
MW-06-3	09/11/2006	9 - 11 ft	N	< 2 R	4 J	155 J	< 2 J	< 0.5 J	3340 J	9 J	5 J	21 J	13800 J	5 J	4720 J	366 J	< 0.1	6 J	5140 R	< 2 J	< 0.5 J	<u>707 J</u>	< 2 J	2 J	23 J	34 J
MW-06-4	09/11/2006	8 - 10 ft	N	< 2 R	< 2 J	<u>326 J</u>	< 2 J	< 0.5 J	4760 J	5 J	4 J	13 J	13600 J	5 J	3660 J	299 J	< 0.1	3 J	3780 R	< 2 J	< 0.5 J	<u>1270 J</u>	< 2 J	1 J	50 J	31 J
MW-06-5	09/14/2006	3 - 5 ft	N	< 2 R	6 J	101 J	< 2 J	< 0.5 J	1490 J	4 J	2 J	11 J	5630 J	4 J	1250 J	259 J	< 0.1	3 J	1270 R	< 2 J	< 0.5 J	239 J	< 2 J	< 1 J	12 J	13 J
MW-06-9	10/23/2006	52 - 54 ft	N	< 2 R	3 J	266 J	< 2 J	1.1 J	5010 J	8 J	5 J	16 J	15900 J	7 J	4510 J	475 J	< 0.1	5 J	4740 J	< 2 J	< 0.5 J	<u>924 J</u>	< 2 J	2 J	44 J	34 J
MW-06-10	09/28/2006	8 - 10 ft	N	< 2 R	6 J	154 J	< 2 J	< 0.5 J	3090 J	10 J	7 J	15 J	15700 J	7 J	4230 J	410 J	< 0.1	6 J	4150 J	< 2 J	< 0.5 J	484 J	<u>3 J</u>	3 J	34 J	34 J
MW-06-11	10/01/2006	8 - 10 ft	N	2 R	2 J	149 J	< 2 J	< 0.5 J	4560 J	12 J	5 J	17 J	21100 J	11 J	<u>5950 J</u>	161 J	< 0.1	7 J	5850 J	< 2 J	< 0.5 J	533 J	<u>4 J</u>	3 J	40 J	42 J
MW-06-12	10/01/2006	8 - 10 ft	N	3 R	3 J	<u>544 J</u>	< 2 J	< 0.5 J	5080 J	15 J	4 J	11 J	16100 J	5 J	3380 J	290 J	< 0.1	2 J	4810 J	< 2 J	< 0.5 J	<u>2490 J</u>	<u>3 J</u>	<u>10 J</u>	653 J	24 J
MW-06-13	10/02/2006	8 - 10 ft	N	< 2 R	3 J	212 J	< 2 J	< 0.5 J	3130 J	10 J	6 J	17 J	16900 J	11 J	4530 J	370 J	< 0.1	6 J	<u>5560 J</u>	< 2 J	< 0.5 J	<u>1010 J</u>	<u>3 J</u>	3 J	31 J	42 J
MW-06-14	09/30/2006	8 - 10 ft	N	2 R	6 J	235 J	< 2 J	< 0.5 J	2990 J	6 J	7 J	27 J	18300 J	11 J	3960 J	678 J	< 0.1	6 J	4670 J	< 2 J	< 0.5 J	613 J	<u>5 J</u>	2 J	32 J	36 J
MW-06-15	09/29/2006	10 - 12 ft	N	3 R	20 J	221 J	< 2 J	< 0.5 J	6100 J	9 J	7 J	36 J	21500 J	13 J	3940 J	552 J	< 0.1	6 J	2790 J	< 2 J	< 0.5 J	600 J	<u>4 J</u>	<u>11 J</u>	47 J	46 J
			FD	3 R	18 J	176 J	< 2 J	< 0.5 J	6560 J	10 J	7 J	38 J	21800 J	15 J	4010 J	347 J	< 0.1	6 J	2850 J	< 2 J	< 0.5 J	684 J	<u>3 J</u>	<u>6 J</u>	45 J	53 J
MW-06-16	09/30/2006	8 - 10 ft	N	2 R	4 J	178 J	< 2 J	< 0.5 J	3950 J	4 J	5 J	15 J	14700 J	10 J	2820 J	272 J	< 0.1	4 J	2850 J	< 2 J	< 0.5 J	<u>821 J</u>	<u>3 J</u>	2 J	21 J	34 J
MW-06-17	09/30/2006	9 - 11 ft	N	< 2 R	6 J	188 J	< 2 J	< 0.5 J	6500 J	6 J	5 J	15 J	16200 J	9 J	3720 J	306 J	< 0.1	4 J	3870 J	< 2 J	< 0.5 J	525 J	<u>4 J</u>	4 J	28 J	37 J
MW-06-18	09/29/2006	10 - 12 ft	N	3 R	7 J	217 J	< 2 J	< 0.5 J	4660 J	4 J	5 J	18 J	16700 J	7 J	3060 J	207 J	< 0.1	4 J	3610 J	< 2 J	< 0.5 J	<u>1670 J</u>	<u>4 J</u>	3 J	24 J	32 J
MW-06-19	09/27/2006	14 - 16 ft	N	< 2 R	5 J	171 J	< 2 J	< 0.5 J	4460 J	6 J	5 J	19 J	14600 J	8 J	2850 J	291 J	< 0.1	4 J	3460 J	< 2 J	< 0.5 J	476 J	<u>4 J</u>	3 J	27 J	34 J
			FD	< 2 R	6 J	183 J	< 2 J	< 0.5 J	4850 J	7 J	6 J	21 J	16000 J	11 J	3160 J	331 J	< 0.1	5 J	3870 J	< 2 J	< 0.5 J	537 J	<u>3 J</u>	3 J	29 J	38 J
MW-06-20	10/03/2006	11 - 13 ft	N	< 2 R	5 J	227 J	< 2 J	< 0.5 J	3130 J	4 J	9 J	19 J	16700 J	3 J	2530 J	361 J	< 0.1	4 J	3640 R	< 2 J	< 0.5 J	<u>2500 J</u>	<u>3 J</u>	3 J	25 J	31 J
MW-06-21	10/11/2006	40 - 42 ft	N	< 2 R	3 J	117 J	< 2 J	< 0.5 J	4020 J	4 J	5 J	16 J	14000 J	12 J	4040 J	238 J	< 0.1	4 J	3870 J	< 2 J	< 0.5 J	383 J	< 2 J	1 J	21 J	50 J
MW-06-22	10/04/2006	13 - 15 ft	N	< 2 R	7 J	134 J	< 2 J	1.0 J	3930 J	8 J	6 J	23 J	16500 J	7 J	4120 J	295 J	< 0.1	6 J	<u>5450 R</u>	< 2 J	< 0.5 J	455 J	<u>2 J</u>	2 J	27 J	50 J
MW-06-23	09/15/2006	8 - 10 ft	N	< 2 R	< 2 J	67 J	< 2 J	< 0.5 J	2120 J	7 J	3 J	10 J	9500 J	< 9 J	1680 J	67 J	< 0.1	3 J	2120 J	< 2 J	< 0.5 J	422 J	< 2 J	3 J	49 J	27 J
MW-06-25	10/15/2006	10 - 12 ft	N	< 2 R	6 J	118 J	< 2 J	< 0.5 J	3140 J	7 J	6 J	22 J	15800 J	6 J	3790 J	219 J	< 0.1	5 J	4520 J	< 2 J	< 0.5 J	365 J	< 2 J	2 J	27 J	41 J

Table 5.4.1-5
Native Soil Quality Data - Shallow
SVOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				1,2,4- Trichlorobenzene	1,2- Dichlorobenzene	1,3- Dichlorobenzene	1,4- Dichlorobenzene	1- Methylnaphthalene	2,4,5- Trichlorophenol	2,4,6- Trichlorophenol	2,4- Dichlorophenol	2,4- Dimethylphenol	2,4- Dinitrophenol	2,4- Dinitrotoluene	2,6- Dinitrotoluene	2- Chloronaphthalene
Location ID	Sample Date	Depth	Sample Type													
2006 Native Soil Investigation																
MW-06-1	09/28/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1.7	< 0.35	< 0.35	< 0.35
MW-06-2	09/13/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35
MW-06-3	09/11/2006	0 - 1 ft	N	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 1.7	< 0.34	< 0.34	< 0.34
MW-06-4	09/11/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35
MW-06-5	09/14/2006	0 - 1 ft	N	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 1.7	< 0.34	< 0.34	< 0.34
MW-06-9	10/23/2006	45 - 46 ft	N	< 0.44 J	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 2.2	< 0.44	< 0.44	< 0.44
			FD	< 0.44 J	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 2.2	< 0.44	< 0.44	< 0.44
MW-06-10	09/28/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35
MW-06-11	10/01/2006	0 - 1 ft	N	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 1.8	< 0.36	< 0.36	< 0.36
MW-06-12	10/01/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35
MW-06-13	10/02/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35
MW-06-14	09/30/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1.7	< 0.35	< 0.35	< 0.35
MW-06-15	09/29/2006	2 - 3 ft	N	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 0.19	< 0.19	< 0.19
MW-06-16	09/30/2006	0 - 1 ft	N	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 1.8	< 0.36	< 0.36	< 0.36
MW-06-17	09/30/2006	1 - 2 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 1.9	< 0.39	< 0.39	< 0.39
MW-06-18	09/29/2006	2 - 3 ft	N	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 2.1	< 0.42	< 0.42	< 0.42
MW-06-19	09/27/2006	6 - 7 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 1.9	< 0.39	< 0.39	< 0.39
MW-06-20	10/03/2006	3 - 4 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 2.0	< 0.39	< 0.39	< 0.39
MW-06-21	10/11/2006	32 - 33 ft	N	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 2.2	< 0.44	< 0.44	< 0.44
MW-06-22	10/04/2006	5 - 6 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 2.0	< 0.39	< 0.39	< 0.39
MW-06-23	09/15/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35
MW-06-25	10/15/2006	3 - 4 ft	N	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 2.0	< 0.40	< 0.40	< 0.40

Table 5.4.1-5
Native Soil Quality Data - Shallow
SVOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				2-Chlorophenol	2-Methyl-4,6-dinitrophenol	2-Methylnaphthalene	2-Nitrophenol	3,3'-Dichlorobenzidine	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chlorophenol	4-Chlorophenyl phenyl ether	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzidine
Location ID	Sample Date	Depth	Sample Type															
2006 Native Soil Investigation																		
MW-06-1	09/28/2006	0 - 1 ft	N	< 0.35	< 1.7	< 0.35	< 0.35	< 0.69	< 0.35	< 0.35	< 0.35	< 0.35	< 1.7	< 0.35	< 0.35	< 0.35	< 0.35	< 0.69
MW-06-2	09/13/2006	0 - 1 ft	N	< 0.35	< 1.8	< 0.35	< 0.35	< 0.70	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35	< 0.70
MW-06-3	09/11/2006	0 - 1 ft	N	< 0.34	< 1.7	< 0.34	< 0.34	< 0.69	< 0.34	< 0.34	< 0.34	< 0.34	< 1.7	< 0.34	< 0.34	< 0.34	< 0.34	< 0.69
MW-06-4	09/11/2006	0 - 1 ft	N	< 0.35	< 1.8	< 0.35	< 0.35	< 0.70	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35	< 0.70
MW-06-5	09/14/2006	0 - 1 ft	N	< 0.34	< 1.7	< 0.34	< 0.34	< 0.68	< 0.34	< 0.34	< 0.34	< 0.34	< 1.7	< 0.34	< 0.34	< 0.34	< 0.34	< 0.68
MW-06-9	10/23/2006	45 - 46 ft	N	< 0.44	< 2.2	< 0.44	< 0.44	< 0.88	< 0.44	< 0.44	< 0.44	< 0.44	< 2.2	< 0.44	< 0.44	< 0.44	< 0.44	< 0.88
			FD	< 0.44	< 2.2	< 0.44	< 0.44	< 0.89	< 0.44	< 0.44	< 0.44	< 0.44	< 2.2	< 0.44	< 0.44	< 0.44	< 0.44	< 0.89
MW-06-10	09/28/2006	0 - 1 ft	N	< 0.35	< 1.8	< 0.35	< 0.35	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35	< 0.71
MW-06-11	10/01/2006	0 - 1 ft	N	< 0.36	< 1.8	< 0.36	< 0.36	< 0.73	< 0.36	< 0.36	< 0.36	< 0.36	< 1.8	< 0.36	< 0.36	< 0.36	< 0.36	< 0.73
MW-06-12	10/01/2006	0 - 1 ft	N	< 0.35	< 1.8	< 0.35	< 0.35	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35	< 0.71
MW-06-13	10/02/2006	0 - 1 ft	N	< 0.35	< 1.8	< 0.35	< 0.35	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35	< 0.71
MW-06-14	09/30/2006	0 - 1 ft	N	< 0.35	< 1.7	< 0.35	< 0.35	< 0.69	< 0.35	< 0.35	< 0.35	< 0.35	< 1.7	< 0.35	< 0.35	< 0.35	< 0.35	< 0.69
MW-06-15	09/29/2006	2 - 3 ft	N	< 0.19	< 0.96	< 0.19	< 0.19	< 0.38	< 0.19	< 0.19	< 0.19	< 0.19	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19	< 0.38
MW-06-16	09/30/2006	0 - 1 ft	N	< 0.36	< 1.8	< 0.36	< 0.36	< 0.71	< 0.36	< 0.36	< 0.36	< 0.36	< 1.8	< 0.36	< 0.36	< 0.36	< 0.36	< 0.71
MW-06-17	09/30/2006	1 - 2 ft	N	< 0.39	< 1.9	< 0.39	< 0.39	< 0.77	< 0.39	< 0.39	< 0.39	< 0.39	< 1.9	< 0.39	< 0.39	< 0.39	< 0.39	< 0.77
MW-06-18	09/29/2006	2 - 3 ft	N	< 0.42	< 2.1	< 0.42	< 0.42	< 0.84	< 0.42	< 0.42	< 0.42	< 0.42	< 2.1	< 0.42	< 0.42	< 0.42	< 0.42	< 0.84
MW-06-19	09/27/2006	6 - 7 ft	N	< 0.39	< 1.9	< 0.39	< 0.39	< 0.77	< 0.39	< 0.39	< 0.39	< 0.39	< 1.9	< 0.39	< 0.39	< 0.39	< 0.39	< 0.77
MW-06-20	10/03/2006	3 - 4 ft	N	< 0.39	< 2.0	< 0.39	< 0.39	< 0.79	< 0.39	< 0.39	< 0.39	< 0.39	< 2.0	< 0.39	< 0.39	< 0.39	< 0.39	< 0.79
MW-06-21	10/11/2006	32 - 33 ft	N	< 0.44	< 2.2	< 0.44	< 0.44	< 0.88	< 0.44	< 0.44	< 0.44	< 0.44	< 2.2	< 0.44	< 0.44	< 0.44	< 0.44	< 0.88
MW-06-22	10/04/2006	5 - 6 ft	N	< 0.39	< 2.0	< 0.39	< 0.39	< 0.79	< 0.39	< 0.39	< 0.39	< 0.39	< 2.0	< 0.39	< 0.39	< 0.39	< 0.39	< 0.79
MW-06-23	09/15/2006	0 - 1 ft	N	< 0.35	< 1.8	< 0.35	< 0.35	< 0.70	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35	< 0.70
MW-06-25	10/15/2006	3 - 4 ft	N	< 0.40	< 2.0	< 0.40	< 0.40	< 0.81	< 0.40	< 0.40	< 0.40	< 0.40	< 2.0	< 0.40	< 0.40	< 0.40	< 0.40	< 0.81

Table 5.4.1-5
Native Soil Quality Data - Shallow
SVOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Bis(2-chloroethoxy) methane	Bis(2-chloroethyl) ether	Bis(2-chloroisopropyl) ether	Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Chrysene	Dibenz(a,h) anthracene	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
Location ID	Sample Date	Depth	Sample Type																	
2006 Native Soil Investigation																				
MW-06-1	09/28/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-2	09/13/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-3	09/11/2006	0 - 1 ft	N	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
MW-06-4	09/11/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-5	09/14/2006	0 - 1 ft	N	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
MW-06-9	10/23/2006	45 - 46 ft	N	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
			FD	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
MW-06-10	09/28/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-11	10/01/2006	0 - 1 ft	N	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
MW-06-12	10/01/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-13	10/02/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-14	09/30/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-15	09/29/2006	2 - 3 ft	N	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
MW-06-16	09/30/2006	0 - 1 ft	N	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
MW-06-17	09/30/2006	1 - 2 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-18	09/29/2006	2 - 3 ft	N	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-19	09/27/2006	6 - 7 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-20	10/03/2006	3 - 4 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-21	10/11/2006	32 - 33 ft	N	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.77	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
MW-06-22	10/04/2006	5 - 6 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.47	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-23	09/15/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-25	10/15/2006	3 - 4 ft	N	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.67	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40

Table 5.4.1-5
Native Soil Quality Data - Shallow
SVOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd) pyrene	Isophorone	m,p- cresols	Naphthalene	Nitrobenzene	N- Nitrosodimethylamine	N-Nitrosodi-n- propylamine	N- Nitrosodiphenylamine	o- cresol
Location ID	Sample Date	Depth	Sample Type														
2006 Native Soil Investigation																	
MW-06-1	09/28/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.70	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-2	09/13/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-3	09/11/2006	0 - 1 ft	N	< 0.34	< 0.34	< 0.34	< 0.69	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
MW-06-4	09/11/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-5	09/14/2006	0 - 1 ft	N	< 0.34	< 0.34	< 0.34	< 0.69	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
MW-06-9	10/23/2006	45 - 46 ft	N	< 0.44	< 0.44	< 0.44	< 0.88	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
			FD	< 0.44	< 0.44	< 0.44	< 0.89	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
MW-06-10	09/28/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-11	10/01/2006	0 - 1 ft	N	< 0.36	< 0.36	< 0.36	< 0.73	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
MW-06-12	10/01/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-13	10/02/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-14	09/30/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.70	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-15	09/29/2006	2 - 3 ft	N	< 0.19	< 0.19	< 0.19	< 0.38	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
MW-06-16	09/30/2006	0 - 1 ft	N	< 0.36	< 0.36	< 0.36	< 0.72	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
MW-06-17	09/30/2006	1 - 2 ft	N	< 0.39	< 0.39	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-18	09/29/2006	2 - 3 ft	N	< 0.42	< 0.42	< 0.42	< 0.84	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-19	09/27/2006	6 - 7 ft	N	< 0.39	< 0.39	< 0.39	< 0.77	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-20	10/03/2006	3 - 4 ft	N	< 0.39	< 0.39	< 0.39	< 0.79	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-21	10/11/2006	32 - 33 ft	N	< 0.44	< 0.44	< 0.44	< 0.89	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
MW-06-22	10/04/2006	5 - 6 ft	N	< 0.39	< 0.39	< 0.39	< 0.79	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-23	09/15/2006	0 - 1 ft	N	< 0.35	< 0.35	< 0.35	< 0.70	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-25	10/15/2006	3 - 4 ft	N	< 0.40	< 0.40	< 0.40	< 0.81	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40

Table 5.4.1-5
Native Soil Quality Data - Shallow
SVOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
Location ID	Sample Date	Depth	Sample Type					
2006 Native Soil Investigation								
MW-06-1	09/28/2006	0 - 1 ft	N	< 1.7	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-2	09/13/2006	0 - 1 ft	N	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-3	09/11/2006	0 - 1 ft	N	< 1.7	< 0.34	< 0.34	< 0.34	< 0.34
MW-06-4	09/11/2006	0 - 1 ft	N	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-5	09/14/2006	0 - 1 ft	N	< 1.7	< 0.34	< 0.34	< 0.34	< 0.34
MW-06-9	10/23/2006	45 - 46 ft	N	< 2.2	< 0.44	< 0.44	< 0.44	< 0.44
			FD	< 2.2	< 0.44	< 0.44	< 0.44	< 0.44
MW-06-10	09/28/2006	0 - 1 ft	N	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-11	10/01/2006	0 - 1 ft	N	< 1.8	< 0.36	< 0.36	< 0.36	< 0.36
MW-06-12	10/01/2006	0 - 1 ft	N	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-13	10/02/2006	0 - 1 ft	N	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-14	09/30/2006	0 - 1 ft	N	< 1.7	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-15	09/29/2006	2 - 3 ft	N	< 0.96	< 0.19	< 0.19	< 0.19	< 0.19
MW-06-16	09/30/2006	0 - 1 ft	N	< 1.8	< 0.36	< 0.36	< 0.36	< 0.36
MW-06-17	09/30/2006	1 - 2 ft	N	< 1.9	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-18	09/29/2006	2 - 3 ft	N	< 2.1	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-19	09/27/2006	6 - 7 ft	N	< 1.9	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-20	10/03/2006	3 - 4 ft	N	< 2.0	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-21	10/11/2006	32 - 33 ft	N	< 2.2	< 0.44	< 0.44	< 0.44	< 0.44
MW-06-22	10/04/2006	5 - 6 ft	N	< 2.0	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-23	09/15/2006	0 - 1 ft	N	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-25	10/15/2006	3 - 4 ft	N	< 2.0	< 0.40	< 0.40	< 0.40	< 0.40

Table 5.4.1-6
Native Soil Quality Data - Deep
SVOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				1,2,4- Trichlorobenzene	1,2- Dichlorobenzene	1,3- Dichlorobenzene	1,4- Dichlorobenzene	1- Methylnaphthalene	2,4,5- Trichlorophenol	2,4,6- Trichlorophenol	2,4- Dichlorophenol	2,4- Dimethylphenol	2,4- Dinitrophenol	2,4- Dinitrotoluene	2,6- Dinitrotoluene	2- Chloronaphthalene
Location ID	Sample Date	Depth	Sample Type													
2006 Native Soil Investigation																
MW-06-1	09/28/2006	8 - 10 ft	N	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 1.8	< 0.37	< 0.37	< 0.37
MW-06-2	09/13/2006	8 - 10 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 1.9	< 0.39	< 0.39	< 0.39
MW-06-3	09/11/2006	9 - 11 ft	N	< 0.37	< 0.37	< 0.37	< 0.37	0.91	< 0.37	< 0.37	< 0.37	< 0.37	< 1.9	< 0.37	< 0.37	< 0.37
MW-06-4	09/11/2006	8 - 10 ft	N	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 2.1	< 0.41	< 0.41	< 0.41
MW-06-5	09/14/2006	3 - 5 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35
MW-06-9	10/23/2006	52 - 54 ft	N	< 0.45 J	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 2.3	< 0.45	< 0.45	< 0.45
MW-06-10	09/28/2006	8 - 10 ft	N	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 0.38	< 0.38	< 0.38
MW-06-11	10/01/2006	8 - 10 ft	N	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 2.2	< 0.43	< 0.43	< 0.43
MW-06-12	10/01/2006	8 - 10 ft	N	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 2.2	< 0.44	< 0.44	< 0.44
MW-06-13	10/02/2006	8 - 10 ft	N	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 2.0	< 0.40	< 0.40	< 0.40
MW-06-14	09/30/2006	8 - 10 ft	N	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 2.1	< 0.42	< 0.42	< 0.42
MW-06-15	09/29/2006	10 - 12 ft	N	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 2.1	< 0.41	< 0.41	< 0.41
			FD	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 2.1	< 0.42	< 0.42	< 0.42
MW-06-16	09/30/2006	8 - 10 ft	N	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 2.0	< 0.40	< 0.40	< 0.40
MW-06-17	09/30/2006	9 - 11 ft	N	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 2.0	< 0.41	< 0.41	< 0.41
MW-06-18	09/29/2006	10 - 12 ft	N	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 2.0	< 0.40	< 0.40	< 0.40
MW-06-19	09/27/2006	14 - 16 ft	N	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 0.38	< 0.38	< 0.38
			FD	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 0.38	< 0.38	< 0.38
MW-06-20	10/03/2006	11 - 13 ft	N	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 2.0	< 0.41	< 0.41	< 0.41
MW-06-21	10/11/2006	40 - 42 ft	N	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 2.1	< 0.41	< 0.41	< 0.41
MW-06-22	10/04/2006	13 - 15 ft	N	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 2.1	< 0.42	< 0.42	< 0.42
MW-06-23	09/15/2006	8 - 10 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35
MW-06-25	10/15/2006	10 - 12 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 2.0	< 0.39	< 0.39	< 0.39

Table 5.4.1-6
Native Soil Quality Data - Deep
SVOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				2- Chlorophenol	2-Methyl-4,6- dinitrophenol	2- Methylnaphthalene	2- Nitrophenol	3,3'- Dichlorobenzidine	4-Bromophenyl phenyl ether	4-Chloro-3- methylphenol	4- Chlorophenol	4-Chlorophenyl phenyl ether	4- Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzidine
Location ID	Sample Date	Depth	Sample Type															
2006 Native Soil Investigation																		
MW-06-1	09/28/2006	8 - 10 ft	N	< 0.37	< 1.8	< 0.37	< 0.37	< 0.74	< 0.37	< 0.37	< 0.37	< 0.37	< 1.8	< 0.37	< 0.37	< 0.37	< 0.37	< 0.74
MW-06-2	09/13/2006	8 - 10 ft	N	< 0.39	< 1.9	< 0.39	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 1.9	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78
MW-06-3	09/11/2006	9 - 11 ft	N	< 0.37	< 1.9	0.57	< 0.37	< 0.75	< 0.37	< 0.37	< 0.37	< 0.37	< 1.9	< 0.37	< 0.37	< 0.37	< 0.37	< 0.75
MW-06-4	09/11/2006	8 - 10 ft	N	< 0.41	< 2.1	< 0.41	< 0.41	< 0.83	< 0.41	< 0.41	< 0.41	< 0.41	< 2.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.83
MW-06-5	09/14/2006	3 - 5 ft	N	< 0.35	< 1.8	< 0.35	< 0.35	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35	< 0.71
MW-06-9	10/23/2006	52 - 54 ft	N	< 0.45	< 2.3	< 0.45	< 0.45	< 0.90	< 0.45	< 0.45	< 0.45	< 0.45	< 2.3	< 0.45	< 0.45	< 0.45	< 0.45	< 0.90
MW-06-10	09/28/2006	8 - 10 ft	N	< 0.38	< 1.9	< 0.38	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 0.38	< 0.38	< 0.38	< 0.38	< 0.76
MW-06-11	10/01/2006	8 - 10 ft	N	< 0.43	< 2.2	< 0.43	< 0.43	< 0.87	< 0.43	< 0.43	< 0.43	< 0.43	< 2.2	< 0.43	< 0.43	< 0.43	< 0.43	< 0.87
MW-06-12	10/01/2006	8 - 10 ft	N	< 0.44	< 2.2	< 0.44	< 0.44	< 0.88	< 0.44	< 0.44	< 0.44	< 0.44	< 2.2	< 0.44	< 0.44	< 0.44	< 0.44	< 0.88
MW-06-13	10/02/2006	8 - 10 ft	N	< 0.40	< 2.0	< 0.40	< 0.40	< 0.80	< 0.40	< 0.40	< 0.40	< 0.40	< 2.0	< 0.40	< 0.40	< 0.40	< 0.40	< 0.80
MW-06-14	09/30/2006	8 - 10 ft	N	< 0.42	< 2.1	< 0.42	< 0.42	< 0.84	< 0.42	< 0.42	< 0.42	< 0.42	< 2.1	< 0.42	< 0.42	< 0.42	< 0.42	< 0.84
MW-06-15	09/29/2006	10 - 12 ft	N	< 0.41	< 2.1	< 0.41	< 0.41	< 0.82	< 0.41	< 0.41	< 0.41	< 0.41	< 2.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.82
			FD	< 0.42	< 2.1	< 0.42	< 0.42	< 0.84	< 0.42	< 0.42	< 0.42	< 0.42	< 2.1	< 0.42	< 0.42	< 0.42	< 0.42	< 0.84
MW-06-16	09/30/2006	8 - 10 ft	N	< 0.40	< 2.0	< 0.40	< 0.40	< 0.81	< 0.40	< 0.40	< 0.40	< 0.40	< 2.0	< 0.40	< 0.40	< 0.40	< 0.40	< 0.81
MW-06-17	09/30/2006	9 - 11 ft	N	< 0.41	< 2.0	< 0.41	< 0.41	< 0.82	< 0.41	< 0.41	< 0.41	< 0.41	< 2.0	< 0.41	< 0.41	< 0.41	< 0.41	< 0.82
MW-06-18	09/29/2006	10 - 12 ft	N	< 0.40	< 2.0	< 0.40	< 0.40	< 0.79	< 0.40	< 0.40	< 0.40	< 0.40	< 2.0	< 0.40	< 0.40	< 0.40	< 0.40	< 0.79
MW-06-19	09/27/2006	14 - 16 ft	N	< 0.38	< 1.9	< 0.38	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 0.38	< 0.38	< 0.38	< 0.38	< 0.77
			FD	< 0.38	< 1.9	< 0.38	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 1.9	< 0.38	< 0.38	< 0.38	< 0.38	< 0.77
MW-06-20	10/03/2006	11 - 13 ft	N	< 0.41	< 2.0	< 0.41	< 0.41	< 0.81	< 0.41	< 0.41	< 0.41	< 0.41	< 2.0	< 0.41	< 0.41	< 0.41	< 0.41	< 0.81
MW-06-21	10/11/2006	40 - 42 ft	N	< 0.41	< 2.1	< 0.41	< 0.41	< 0.82	< 0.41	< 0.41	< 0.41	< 0.41	< 2.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.82
MW-06-22	10/04/2006	13 - 15 ft	N	< 0.42	< 2.1	< 0.42	< 0.42	< 0.84	< 0.42	< 0.42	< 0.42	< 0.42	< 2.1	< 0.42	< 0.42	< 0.42	< 0.42	< 0.84
MW-06-23	09/15/2006	8 - 10 ft	N	< 0.35	< 1.8	< 0.35	< 0.35	< 0.70	< 0.35	< 0.35	< 0.35	< 0.35	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35	< 0.70
MW-06-25	10/15/2006	10 - 12 ft	N	< 0.39	< 2.0	< 0.39	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 2.0	< 0.39	< 0.39	< 0.39	< 0.39	< 0.78

Table 5.4.1-6
Native Soil Quality Data - Deep
SVOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Bis(2-chloroethoxy) methane	Bis(2-chloroethyl) ether	Bis(2-chloroisopropyl) ether	Bis(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Chrysene	Dibenz(a,h) anthracene	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
Location ID	Sample Date	Depth	Sample Type																	
2006 Native Soil Investigation																				
MW-06-1	09/28/2006	8 - 10 ft	N	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	0.20 J	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
MW-06-2	09/13/2006	8 - 10 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-3	09/11/2006	9 - 11 ft	N	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
MW-06-4	09/11/2006	8 - 10 ft	N	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-5	09/14/2006	3 - 5 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-9	10/23/2006	52 - 54 ft	N	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
MW-06-10	09/28/2006	8 - 10 ft	N	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-11	10/01/2006	8 - 10 ft	N	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
MW-06-12	10/01/2006	8 - 10 ft	N	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	0.47	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
MW-06-13	10/02/2006	8 - 10 ft	N	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	0.38 J	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
MW-06-14	09/30/2006	8 - 10 ft	N	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-15	09/29/2006	10 - 12 ft	N	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
			FD	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-16	09/30/2006	8 - 10 ft	N	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
MW-06-17	09/30/2006	9 - 11 ft	N	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-18	09/29/2006	10 - 12 ft	N	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
MW-06-19	09/27/2006	14 - 16 ft	N	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
			FD	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-20	10/03/2006	11 - 13 ft	N	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	0.47	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-21	10/11/2006	40 - 42 ft	N	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.69	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-22	10/04/2006	13 - 15 ft	N	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	0.51	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-23	09/15/2006	8 - 10 ft	N	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-25	10/15/2006	10 - 12 ft	N	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.68	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39

Table 5.4.1-6
Native Soil Quality Data - Deep
SVOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd) pyrene	Isophorone	m,p- cresols	Naphthalene	Nitrobenzene	N- Nitrosodimethylamine	N-Nitrosodi-n- propylamine	N- Nitrosodiphenylamine	o- cresol
Location ID	Sample Date	Depth	Sample Type														
2006 Native Soil Investigation																	
MW-06-1	09/28/2006	8 - 10 ft	N	< 0.37	< 0.37	< 0.37	< 0.74	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
MW-06-2	09/13/2006	8 - 10 ft	N	< 0.39	< 0.39	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-3	09/11/2006	9 - 11 ft	N	0.057 J	< 0.37	< 0.37	< 0.75	< 0.37	< 0.37	< 0.37	< 0.37	0.59	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
MW-06-4	09/11/2006	8 - 10 ft	N	< 0.41	< 0.41	< 0.41	< 0.83	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-5	09/14/2006	3 - 5 ft	N	< 0.35	< 0.35	< 0.35	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-9	10/23/2006	52 - 54 ft	N	< 0.45	< 0.45	< 0.45	< 0.90	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
MW-06-10	09/28/2006	8 - 10 ft	N	< 0.38	< 0.38	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-11	10/01/2006	8 - 10 ft	N	< 0.43	< 0.43	< 0.43	< 0.87	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
MW-06-12	10/01/2006	8 - 10 ft	N	< 0.44	< 0.44	< 0.44	< 0.89	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
MW-06-13	10/02/2006	8 - 10 ft	N	< 0.40	< 0.40	< 0.40	< 0.80	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
MW-06-14	09/30/2006	8 - 10 ft	N	< 0.42	< 0.42	< 0.42	< 0.84	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-15	09/29/2006	10 - 12 ft	N	< 0.41	< 0.41	< 0.41	< 0.83	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
			FD	< 0.42	< 0.42	< 0.42	< 0.84	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-16	09/30/2006	8 - 10 ft	N	< 0.40	< 0.40	< 0.40	< 0.81	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
MW-06-17	09/30/2006	9 - 11 ft	N	< 0.41	< 0.41	< 0.41	< 0.82	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-18	09/29/2006	10 - 12 ft	N	< 0.40	< 0.40	< 0.40	< 0.80	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
MW-06-19	09/27/2006	14 - 16 ft	N	< 0.38	< 0.38	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
			FD	< 0.38	< 0.38	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-20	10/03/2006	11 - 13 ft	N	< 0.41	< 0.41	< 0.41	< 0.82	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-21	10/11/2006	40 - 42 ft	N	< 0.41	< 0.41	< 0.41	< 0.83	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-22	10/04/2006	13 - 15 ft	N	< 0.42	< 0.42	< 0.42	< 0.85	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-23	09/15/2006	8 - 10 ft	N	< 0.35	< 0.35	< 0.35	< 0.70	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-25	10/15/2006	10 - 12 ft	N	< 0.39	< 0.39	< 0.39	< 0.79	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39

Table 5.4.1-6
Native Soil Quality Data - Deep
SVOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
Location ID	Sample Date	Depth	Sample Type					
2006 Native Soil Investigation								
MW-06-1	09/28/2006	8 - 10 ft	N	< 1.8	< 0.37	< 0.37	< 0.37	< 0.37
MW-06-2	09/13/2006	8 - 10 ft	N	< 1.9	< 0.39	< 0.39	< 0.39	< 0.39
MW-06-3	09/11/2006	9 - 11 ft	N	< 1.9	0.22 J	0.11 J	0.12 J	< 0.37
MW-06-4	09/11/2006	8 - 10 ft	N	< 2.1	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-5	09/14/2006	3 - 5 ft	N	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-9	10/23/2006	52 - 54 ft	N	< 2.3	< 0.45	< 0.45	< 0.45	< 0.45
MW-06-10	09/28/2006	8 - 10 ft	N	< 1.9	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-11	10/01/2006	8 - 10 ft	N	< 2.2	< 0.43	< 0.43	< 0.43	< 0.43
MW-06-12	10/01/2006	8 - 10 ft	N	< 2.2	< 0.44	< 0.44	< 0.44	< 0.44
MW-06-13	10/02/2006	8 - 10 ft	N	< 2.0	< 0.40	< 0.40	< 0.40	< 0.40
MW-06-14	09/30/2006	8 - 10 ft	N	< 2.1	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-15	09/29/2006	10 - 12 ft	N	< 2.1	< 0.41	< 0.41	< 0.41	< 0.41
			FD	< 2.1	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-16	09/30/2006	8 - 10 ft	N	< 2.0	< 0.40	< 0.40	< 0.40	< 0.40
MW-06-17	09/30/2006	9 - 11 ft	N	< 2.0	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-18	09/29/2006	10 - 12 ft	N	< 2.0	< 0.40	< 0.40	< 0.40	< 0.40
MW-06-19	09/27/2006	14 - 16 ft	N	< 1.9	< 0.38	< 0.38	< 0.38	< 0.38
			FD	< 1.9	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-20	10/03/2006	11 - 13 ft	N	< 2.0	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-21	10/11/2006	40 - 42 ft	N	< 2.1	< 0.41	< 0.41	< 0.41	< 0.41
MW-06-22	10/04/2006	13 - 15 ft	N	< 2.1	< 0.42	< 0.42	< 0.42	< 0.42
MW-06-23	09/15/2006	8 - 10 ft	N	< 1.8	< 0.35	< 0.35	< 0.35	< 0.35
MW-06-25	10/15/2006	10 - 12 ft	N	< 2.0	< 0.39	< 0.39	< 0.39	< 0.39

Table 5.4.1-7
Native Soil Quality Data - Deep
VOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloro-1-propene	1,1-Dichloroethane	1,1-Dichloroethylene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
Location ID	Sample Date	Depth	Sample Type													
2006 Native Soil Investigation																
MW-06-1	09/28/2006	8 - 10 ft	N	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-2	09/13/2006	8 - 10 ft	N	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
MW-06-3	09/11/2006	9 - 11 ft	N	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
MW-06-4	09/11/2006	8 - 10 ft	N	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
MW-06-5	09/14/2006	3 - 5 ft	N	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
MW-06-9	10/23/2006	52 - 54 ft	N	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
MW-06-10	09/28/2006	8 - 10 ft	N	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J
MW-06-11	10/01/2006	8 - 10 ft	N	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J
MW-06-12	10/01/2006	8 - 10 ft	N	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-13	10/02/2006	8 - 10 ft	N	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-06-14	09/30/2006	8 - 10 ft	N	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J
MW-06-15	09/29/2006	10 - 12 ft	N	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J
			FD	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-16	09/30/2006	8 - 10 ft	N	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J
MW-06-17	09/30/2006	9 - 11 ft	N	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-18	09/29/2006	10 - 12 ft	N	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J
MW-06-19	09/27/2006	14 - 16 ft	N	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J
			FD	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-20	10/03/2006	11 - 13 ft	N	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-21	10/11/2006	40 - 42 ft	N	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-22	10/04/2006	13 - 15 ft	N	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-23	09/15/2006	8 - 10 ft	N	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
MW-06-25	10/15/2006	10 - 12 ft	N	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38

Table 5.4.1-7
Native Soil Quality Data - Deep
VOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethylene, cis	1,2-Dichloroethylene, trans	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichloro-1-propene, cis	1,3-Dichloro-1-propene, trans	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chloroethyl vinyl ether
Location ID	Sample Date	Depth	Sample Type													
2006 Native Soil Investigation																
MW-06-1	09/28/2006	8 - 10 ft	N	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-2	09/13/2006	8 - 10 ft	N	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
MW-06-3	09/11/2006	9 - 11 ft	N	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
MW-06-4	09/11/2006	8 - 10 ft	N	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
MW-06-5	09/14/2006	3 - 5 ft	N	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
MW-06-9	10/23/2006	52 - 54 ft	N	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
MW-06-10	09/28/2006	8 - 10 ft	N	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J
MW-06-11	10/01/2006	8 - 10 ft	N	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J
MW-06-12	10/01/2006	8 - 10 ft	N	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-13	10/02/2006	8 - 10 ft	N	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-06-14	09/30/2006	8 - 10 ft	N	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J
MW-06-15	09/29/2006	10 - 12 ft	N	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J
			FD	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-16	09/30/2006	8 - 10 ft	N	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J
MW-06-17	09/30/2006	9 - 11 ft	N	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-18	09/29/2006	10 - 12 ft	N	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J
MW-06-19	09/27/2006	14 - 16 ft	N	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J
			FD	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-20	10/03/2006	11 - 13 ft	N	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-21	10/11/2006	40 - 42 ft	N	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-22	10/04/2006	13 - 15 ft	N	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-23	09/15/2006	8 - 10 ft	N	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
MW-06-25	10/15/2006	10 - 12 ft	N	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38

Table 5.4.1-7
Native Soil Quality Data - Deep
VOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				2- Hexanone	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Butyl benzene	Butylbenzene, sec	Butylbenzene, tert	Carbon disulfide	Carbon tetrachloride	Chlorobenzene
Location ID	Sample Date	Depth	Sample Type																
2006 Native Soil Investigation																			
MW-06-1	09/28/2006	8 - 10 ft	N	< 4.1 J	< 4.1 J	< 4.1 R	< 4.1 R	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-2	09/13/2006	8 - 10 ft	N	< 6.6	< 6.6	< 6.6 R	< 6.6 R	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
MW-06-3	09/11/2006	9 - 11 ft	N	< 4.3	< 4.3	< 4.3 R	< 4.3 R	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
MW-06-4	09/11/2006	8 - 10 ft	N	< 5.4	< 5.4	< 5.4 R	< 5.4 R	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
MW-06-5	09/14/2006	3 - 5 ft	N	< 4.4	< 4.4	< 4.4 R	< 4.4 R	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
MW-06-9	10/23/2006	52 - 54 ft	N	< 4.4	< 4.4	< 4.4 R	< 4.4 R	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
MW-06-10	09/28/2006	8 - 10 ft	N	< 4.5 J	< 4.5 J	< 4.5 R	< 4.5 R	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J
MW-06-11	10/01/2006	8 - 10 ft	N	< 5.1 J	< 5.1 J	< 5.1 R	< 5.1 R	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J
MW-06-12	10/01/2006	8 - 10 ft	N	< 4.9 J	< 4.9 J	< 4.9 R	< 4.9 R	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-13	10/02/2006	8 - 10 ft	N	< 4.0	< 4.0	< 4.0 R	< 4.0 R	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-06-14	09/30/2006	8 - 10 ft	N	< 5.0 J	< 5.0 J	< 5.0 R	< 5.0 R	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J
MW-06-15	09/29/2006	10 - 12 ft	N	< 4.5 J	< 4.5 J	< 4.5 R	< 4.5 R	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J
			FD	< 4.7 J	< 4.7 J	< 4.7 R	< 4.7 R	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-16	09/30/2006	8 - 10 ft	N	< 4.1 J	< 4.1 J	< 4.1 R	< 4.1 R	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J
MW-06-17	09/30/2006	9 - 11 ft	N	< 4.1 J	< 4.1 J	< 4.1 R	< 4.1 R	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-18	09/29/2006	10 - 12 ft	N	< 3.7 J	< 3.7 J	< 3.7 R	< 3.7 R	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J
MW-06-19	09/27/2006	14 - 16 ft	N	< 4.3 J	< 4.3 J	< 4.3 R	< 4.3 R	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J
			FD	< 3.9 J	< 3.9 J	< 3.9 R	< 3.9 R	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-20	10/03/2006	11 - 13 ft	N	< 4.9 J	< 4.9 J	< 4.9 R	< 4.9 R	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-21	10/11/2006	40 - 42 ft	N	< 7.7	< 7.7	< 7.7 R	< 7.7 R	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-22	10/04/2006	13 - 15 ft	N	< 4.8 J	< 4.8 J	< 4.8 R	< 4.8 R	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-23	09/15/2006	8 - 10 ft	N	< 4.2	< 4.2	< 4.2 R	< 4.2 R	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
MW-06-25	10/15/2006	10 - 12 ft	N	< 7.6	< 7.6	< 7.6 R	< 7.6 R	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38

Table 5.4.1-7
Native Soil Quality Data - Deep
VOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	Chlorotoluene, o	Chlorotoluene, p	Cumene (isopropyl benzene)	Cymene p- (Toluene isopropyl p-)	Dibromomethane (methylene bromide)	Dichlorodifluoromethane (CFC-12)	Ethyl benzene	Hexachlorobutadiene
Location ID	Sample Date	Depth	Sample Type												
2006 Native Soil Investigation															
MW-06-1	09/28/2006	8 - 10 ft	N	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-2	09/13/2006	8 - 10 ft	N	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
MW-06-3	09/11/2006	9 - 11 ft	N	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
MW-06-4	09/11/2006	8 - 10 ft	N	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
MW-06-5	09/14/2006	3 - 5 ft	N	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
MW-06-9	10/23/2006	52 - 54 ft	N	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
MW-06-10	09/28/2006	8 - 10 ft	N	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J
MW-06-11	10/01/2006	8 - 10 ft	N	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J
MW-06-12	10/01/2006	8 - 10 ft	N	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-13	10/02/2006	8 - 10 ft	N	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-06-14	09/30/2006	8 - 10 ft	N	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J
MW-06-15	09/29/2006	10 - 12 ft	N	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J
			FD	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-16	09/30/2006	8 - 10 ft	N	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J
MW-06-17	09/30/2006	9 - 11 ft	N	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-18	09/29/2006	10 - 12 ft	N	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J
MW-06-19	09/27/2006	14 - 16 ft	N	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J
			FD	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-20	10/03/2006	11 - 13 ft	N	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-21	10/11/2006	40 - 42 ft	N	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-22	10/04/2006	13 - 15 ft	N	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-23	09/15/2006	8 - 10 ft	N	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
MW-06-25	10/15/2006	10 - 12 ft	N	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38

Table 5.4.1-7
Native Soil Quality Data - Deep
VOCs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Iodomethane	Methyl ethyl ketone	Methyl isobutyl ketone	Methyl tertiary butyl ether (MTBE)	Methylene chloride	Naphthalene	Propylbenzene	Styrene	Tetrachloroethylene	Toluene	Trichloroethylene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, m & p	Xylene, o	Xylene, total
Location ID	Sample Date	Depth	Sample Type																	
2006 Native Soil Investigation																				
MW-06-1	09/28/2006	8 - 10 ft	N	< 0.20 J	< 4.1 J	< 4.1 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-2	09/13/2006	8 - 10 ft	N	< 0.33	< 6.6	< 6.6	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
MW-06-3	09/11/2006	9 - 11 ft	N	< 0.21	< 4.3	< 4.3	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
MW-06-4	09/11/2006	8 - 10 ft	N	< 0.27	< 5.4	< 5.4	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
MW-06-5	09/14/2006	3 - 5 ft	N	< 0.22	< 4.4	< 4.4	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
MW-06-9	10/23/2006	52 - 54 ft	N	< 0.22	< 4.4	< 4.4	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
MW-06-10	09/28/2006	8 - 10 ft	N	< 0.23 J	< 4.5 J	< 4.5 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J	< 0.23 J
MW-06-11	10/01/2006	8 - 10 ft	N	< 0.26 J	< 5.1 J	< 5.1 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J	< 0.26 J
MW-06-12	10/01/2006	8 - 10 ft	N	< 0.24 J	< 4.9 J	< 4.9 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-13	10/02/2006	8 - 10 ft	N	< 0.20	< 4.0	< 4.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-06-14	09/30/2006	8 - 10 ft	N	< 0.25 J	< 5.0 J	< 5.0 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J	< 0.25 J
MW-06-15	09/29/2006	10 - 12 ft	N	< 0.22 J	< 4.5 J	< 4.5 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J	< 0.22 J
			FD	< 0.24 J	< 4.7 J	< 4.7 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-16	09/30/2006	8 - 10 ft	N	< 0.21 J	< 4.1 J	< 4.1 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J
MW-06-17	09/30/2006	9 - 11 ft	N	< 0.20 J	< 4.1 J	< 4.1 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-18	09/29/2006	10 - 12 ft	N	< 0.18 J	< 3.7 J	< 3.7 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J	< 0.18 J
MW-06-19	09/27/2006	14 - 16 ft	N	< 0.21 J	< 4.3 J	< 4.3 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J	< 0.21 J
			FD	< 0.20 J	< 3.9 J	< 3.9 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J	< 0.20 J
MW-06-20	10/03/2006	11 - 13 ft	N	< 0.24 J	< 4.9 J	< 4.9 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-21	10/11/2006	40 - 42 ft	N	< 0.38	< 7.7	< 7.7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
MW-06-22	10/04/2006	13 - 15 ft	N	< 0.24 J	< 4.8 J	< 4.8 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J	< 0.24 J
MW-06-23	09/15/2006	8 - 10 ft	N	< 0.21	< 4.2	< 4.2	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
MW-06-25	10/15/2006	10 - 12 ft	N	< 0.38	< 7.6	< 7.6	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38

Table 5.4.1-8
Native Soil Quality Data - Shallow
PCBs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
Location ID	Sample Date	Depth	Sample Type									
2006 Native Soil Investigation												
MW-06-13	10/02/2006	0 - 1 ft	N	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
MW-06-15	09/29/2006	2 - 3 ft	N	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
MW-06-18	09/29/2006	2 - 3 ft	N	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
MW-06-25	10/15/2006	3 - 4 ft	N	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021

Table 5.4.1-9
Native Soil Quality Data - Deep
PCBs
Rhodia Silver Bow Plant
[concentrations in mg/kg]

Chemical Name				Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
Location ID	Sample Date	Depth	Sample Type									
2006 Native Soil Investigation												
MW-06-13	10/02/2006	8 - 10 ft	N	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
MW-06-15	09/29/2006	10 - 12 ft	N	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
			FD	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021
MW-06-18	09/29/2006	10 - 12 ft	N	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
MW-06-25	10/15/2006	10 - 12 ft	N	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020

Table 5.4.1-10
Native Soil Quality Data - Shallow
Radionuclides
Rhodia Silver Bow Plant
[concentrations in pCi/g]

Chemical Name				Lead 210	Radium 226	Thorium 230	Thorium 234	Uranium 234	Uranium 235	Uranium 238
Background Mean, Exceedances Bold					3.6	0.96		0.73		0.78
Background Maximum, Exceedances <u>Underline</u>					12	<u>3.4</u>		<u>2.8</u>		<u>2.7</u>
Background 95% UCL, Exceedances <i>Italic</i>					5.0	1.7		1.6		1.6
Location ID	Sample Date	Depth	Sample Type							
2006 Native Soil Investigation										
MW-06-1	09/28/2006	0 - 1 ft	N	0.4 +/- 0.1	1.2 +/- 0.1	0.5 +/- 0.4		1.2 +/- 0.8		1.0 +/- 0.7
MW-06-2	09/13/2006	0 - 1 ft	N	0.4 +/- 0.1	1.0 +/- 0.1	< 0.2		< 0.2		< 0.2
MW-06-3	09/11/2006	0 - 1 ft	N	0.8 +/- 0.1	1.1 +/- 0.3	1 +/- 0.5		< 0.2		< 0.2
MW-06-4	09/11/2006	0 - 1 ft	N	0.8 +/- 0.1	0.9 +/- 0.3	0.4 +/- 0.3		< 0.2		< 0.2
MW-06-5	09/14/2006	0 - 1 ft	N	1 +/- 0.1	0.6 +/- 0.1	0.8 +/- 0.5		< 0.2		< 0.2
MW-06-9	10/23/2006	45 - 46 ft	N	0.8 +/- 0.1	1.3 +/- 0.2	2.1 +/- 0.9		2.3 +/- 1.3		1.3 +/- 1
			FD	0.7 +/- 0.1	1.4 +/- 0.5	1.1 +/- 0.5		1.3 +/- 0.9		1.7 +/- 1
MW-06-10	09/28/2006	0 - 1 ft	N	0.3 +/- 0.1	1.9 +/- 0.2	1.5 +/- 0.7		0.9 +/- 0.7		0.8 +/- 0.7
MW-06-11	10/01/2006	0 - 1 ft	N	1.3 +/- 0.1	1.7 +/- 0.2	1.8 +/- 0.8		< 0.2		< 0.2
MW-06-12	10/01/2006	0 - 1 ft	N	0.7 +/- 0.1	1.2 +/- 0.1	< 0.2		< 0.2		< 0.2
MW-06-13	10/02/2006	0 - 1 ft	N	0.7 +/- 0.1	2.1 +/- 0.4	1.1 +/- 0.6		< 0.2		1.0 +/- 0.8
MW-06-14	09/30/2006	0 - 1 ft	N	0.7 +/- 0.1	1.7 +/- 0.4	< 0.2		< 0.2		0.7 +/- 0.6
MW-06-15	09/29/2006	2 - 3 ft	N	0.6 +/- 0.1	1.9 +/- 0.4	< 0.2		< 0.2		0.6 +/- 0.6
MW-06-16	09/30/2006	0 - 1 ft	N	1.0 +/- 0.1	2.2 +/- 0.5	0.7 +/- 0.5		< 0.2		< 0.2
MW-06-17	09/30/2006	1 - 2 ft	N	2.3 +/- 0.2	4.4 +/- 0.8	< 0.2		2.9 +/- 1.2		1.8 +/- 0.9
MW-06-18	09/29/2006	2 - 3 ft	N	1 +/- 0.1	2.8 +/- 0.6	< 0.2		< 0.2		< 0.2
MW-06-19	09/27/2006	6 - 7 ft	N	< 0.2	1.4 +/- 0.2	< 0.2		< 0.2		< 0.2
MW-06-20	10/03/2006	3 - 4 ft	N	0.7 +/- 0.1	1.5 +/- 0.2	1.2 +/- 0.7		1.7 +/- 0.9		0.8 +/- 0.6
MW-06-21	10/11/2006	32 - 33 ft	N	3.5 +/- 0.2	4.3 +/- 0.3	3.7 +/- 0.9		5.3 +/- 1.9		3.5 +/- 1.5
MW-06-22	10/04/2006	5 - 6 ft	N	0.3 +/- 0.1	2.3 +/- 0.5	< 0.2		< 0.2		1 +/- 0.8
MW-06-23	09/15/2006	0 - 1 ft	N	0.6 +/- 0.1	1.0 +/- 0.2	< 0.2		< 0.2		< 0.2
MW-06-25	10/15/2006	3 - 4 ft	N	0.6 +/- 0.1	2.1 +/- 0.6	1.4 +/- 0.6		1.3 +/- 0.8		< 0.2
2012 Natural and Undeveloped Area Investigation										
NA-1	10/04/2012	0 - 12 in	N	< 4.7	< 0.64	< 1.3	--	< 0.27	< 0.27	< 0.27
NA-2	10/05/2012	0 - 12 in	N	< 5.3	1.5 +/- 0.4	< 0.74	--	1.3 +/- 0.8	< 0.4	1.73 +/- 0.84
NA-3	10/05/2012	0 - 12 in	N	< 4.1	1.3 +/- 0.38	1.2 +/- 1	--	< 0.31	< 0.31	< 0.31
NA-4	10/05/2012	0 - 12 in	N	3.8 +/- 2.2	1.6 +/- 0.39	< 0.76	--	< 0.59	< 0.59	< 0.59
NA-5	10/03/2012	0 - 12 in	N	6.7 +/- 3.6	< 1	< 0.78	--	0.65 +/- 0.44	< 0.28	< 0.28
NA-6	10/03/2012	0 - 12 in	N	< 4.1	1.2 +/- 0.37	< 0.98	--	1 +/- 0.91	< 0.5	0.9 +/- 1.1
NA-7	10/03/2012	0 - 12 in	N	< 4.4	1.8 +/- 0.46	< 0.86	--	< 0.31	< 0.31	0.6 +/- 0.41
NA-8	10/03/2012	0 - 12 in	N	< 4.8	1.1 +/- 0.35	< 1.1	--	0.31 +/- 0.32	< 0.25	0.48 +/- 0.37
2012 Northeast Undeveloped Area Investigation										
NE-UA-1	10/06/2012	0 - 12 in	N	< 4.8	4 +/- 0.85	0.88 +/- 0.62	0.58 +/- 0.36	--	< 0.21	0.33 +/- 0.29
NE-UA-2	10/06/2012	0 - 12 in	N	19 +/- 4.1	3.1 +/- 0.83	0.91 +/- 0.56	0.47 +/- 0.34	--	< 0.22	0.78 +/- 0.36
NE-UA-3	10/06/2012	0 - 12 in	N	< 5.2	2.5 +/- 0.71	1.3 +/- 0.64	1.2 +/- 0.48	--	< 0.19	1.05 +/- 0.41
2012 East Undeveloped Area Investigation										
E-UA-1	10/05/2012	0 - 12 in	N	< 4.5	3.3 +/- 0.75	0.73 +/- 0.72	0.31 +/- 0.55	--	< 0.23 +/- 0.27	0.34 +/- 0.5
E-UA-2	10/05/2012	0 - 12 in	N	< 5.1	2.7 +/- 0.7	0.84 +/- 0.64	0.56 +/- 0.39	--	< 0.2 +/- 0.21	0.6 +/- 0.39
E-UA-3	10/05/2012	0 - 12 in	N	< 4.7	4.3 +/- 0.95	3.6 +/- 0.73	0.51 +/- 0.38	--	< 0.23 +/- 0.2	0.94 +/- 0.39
2012 South Undeveloped Area Investigation										
S-UA-1	10/05/2012	0 - 12 in	N	< 4.7	9 +/- 0.91	1.1 +/- 0.56	--	0.48 +/- 0.43	< 0.28	0.32 +/- 0.4
			FD	< 4.6	3.1 +/- 0.53	2.6 +/- 0.53	--	0.47 +/- 0.47	< 0.27	0.49 +/- 0.4
S-UA-2	10/05/2012	0 - 12 in	N	< 5.2	1.4 +/- 0.4	< 0.91	--	0.9 +/- 0.44	< 0.27	0.49 +/- 0.5 R
S-UA-3	10/05/2012	0 - 12 in	N	< 4.9	1.9 +/- 0.47	0.97 +/- 0.58	--	< 0.3	< 0.3	0.58 +/- 0.47

Table 5.4.1-11
Native Soil Quality Data - Deep
Radionuclides
Rhodia Silver Bow Plant
[concentrations in pCi/g]

Chemical Name				Lead 210	Radium 226	Thorium 230	Uranium 234	Uranium 238
Background Mean, Exceedances Bold					3.6	0.96	0.73	0.78
Background Maximum, Exceedances <u>Underline</u>					<u>12</u>	<u>3.4</u>	<u>2.8</u>	<u>2.7</u>
Background 95% UCL, Exceedances <i>Italic</i>					<i>5.0</i>	<i>1.7</i>	<i>1.6</i>	<i>1.6</i>
Location ID	Sample Date	Depth	Sample Type					
2006 Native Soil Investigation								
MW-06-1	09/28/2006	8 - 10 ft	N	0.3 +/- 0.1	1.5 +/- 0.2	1.0 +/- 0.6	< 0.2	< 0.2
MW-06-2	09/13/2006	8 - 10 ft	N	0.8 +/- 0.1	0.9 +/- 0.1	< 0.2	< 0.2	< 0.2
MW-06-3	09/11/2006	9 - 11 ft	N	0.5 +/- 0.1	1.0 +/- 0.3	0.6 +/- 0.4	< 0.2	< 0.2
MW-06-4	09/11/2006	8 - 10 ft	N	0.7 +/- 0.1	1.1 +/- 0.5	< 0.2	< 0.2	< 0.2
MW-06-5	09/14/2006	3 - 5 ft	N	0.6 +/- 0.1	0.5 +/- 0.1	< 0.2	< 0.2	< 0.2
MW-06-9	10/23/2006	52 - 54 ft	N	0.9 +/- 0.1	2.0 +/- 0.5	1.1 +/- 0.6	1 +/- 0.8	< 0.2
MW-06-10	09/28/2006	8 - 10 ft	N	0.5 +/- 0.1	1.1 +/- 0.2	< 0.2	1.2 +/- 0.9	< 0.2
MW-06-11	10/01/2006	8 - 10 ft	N	1.2 +/- 0.1	2.4 +/- 0.2	< 0.2	1.3 +/- 1	< 0.2
MW-06-12	10/01/2006	8 - 10 ft	N	1 +/- 0.2	2.1 +/- 0.2	0.7 +/- 0.5	1.3 +/- 0.9	<u>3.7 +/- 1.4 J</u>
MW-06-13	10/02/2006	8 - 10 ft	N	0.8 +/- 0.1	1.8 +/- 0.2	1.0 +/- 0.5	< 0.2	1.3 +/- 0.8
MW-06-14	09/30/2006	8 - 10 ft	N	0.6 +/- 0.1	1.1 +/- 0.4	< 0.2	< 0.2	< 0.2
MW-06-15	09/29/2006	10 - 12 ft	N	1.5 +/- 0.1	2.7 +/- 0.6	1.1 +/- 0.6	1.1 +/- 0.8	0.8 +/- 0.7
			FD	1.1 +/- 0.1	2.9 +/- 0.5	< 0.2	< 0.2	1 +/- 0.8
MW-06-16	09/30/2006	8 - 10 ft	N	0.6 +/- 0.1	1.8 +/- 0.5	< 0.2	< 0.2	< 0.2
MW-06-17	09/30/2006	9 - 11 ft	N	1.1 +/- 0.1	3.8 +/- 0.9	1.7 +/- 0.8	< 0.2	1.3 +/- 0.9
MW-06-18	09/29/2006	10 - 12 ft	N	0.8 +/- 0.1	1.7 +/- 0.6	< 0.2	< 0.2	0.8 +/- 0.7
MW-06-19	09/27/2006	14 - 16 ft	N	0.6 +/- 0.1	1.6 +/- 0.2	0.8 +/- 0.4	< 0.2	< 0.2
			FD	0.5 +/- 0.1	1.8 +/- 0.2	0.7 +/- 0.4	0.8 +/- 0.6	1.1 +/- 0.7
MW-06-20	10/03/2006	11 - 13 ft	N	0.6 +/- 0.1	1.1 +/- 0.1	< 0.2	< 0.2	0.8 +/- 0.6
MW-06-21	10/11/2006	40 - 42 ft	N	0.2 +/- 0.09	1.7 +/- 0.5	0.4 +/- 0.3	< 0.2	< 0.2
MW-06-22	10/04/2006	13 - 15 ft	N	1.4 +/- 0.2	1.4 +/- 0.1	< 0.2	< 0.2	< 0.2
MW-06-23	09/15/2006	8 - 10 ft	N	0.6 +/- 0.1	1.3 +/- 0.2	0.8 +/- 0.5	< 0.2	< 0.2
MW-06-25	10/15/2006	10 - 12 ft	N	0.4 +/- 0.1	1.3 +/- 0.2	0.7 +/- 0.5	< 0.2	0.8 +/- 0.7

Table 5.4.1-12
Native Soil Quality Data - pH, TOC and Grain Size
Rhodia Silver Bow Plant
[concentrations in % passing, unless noted otherwise]

Chemical Name Analysis Location				Carbon, total organic, [%] Lab	pH, [pH units] Lab	Particle Diameter (0.001mm) Lab	Particle Diameter (0.005mm) Lab	Particle Diameter (0.074mm) Lab	SIEVE#3/8 (9.5 mm) Lab	SIEVE#3/4 (19.0 mm) Lab	SIEVE#4 (4.75 mm) Lab	SIEVE#10 (2.00 mm) Lab	SIEVE#20 (0.850 mm) Lab	SIEVE#40 (0.425 mm) Lab	SIEVE#60 (0.250 mm) Lab	SIEVE#140 (0.106 mm) Lab	SIEVE#200 (0.750 mm) Lab
Location ID	Sample Date	Depth	Sample Type														
2012 Natural Area Investigation																	
NA-1	10/4/2012	0-12 in	N	0.637	7.69	0.49	16.73	43.93	99.97	99.97	98.57	89.1	73.42	63.91	57.47	47.59	44.3
NA-2	10/5/2012	0-12 in	N	0.713	7.18	6.83	16.89	33.71	99.98	99.98	99.67	87.06	62.92	49.14	41.91	33.66	31.14
NA-3	10/5/2012	0-12 in	N	0.449	6.13	7.24	17.87	35.66	99.92	99.92	96.09	74.57	61.21	51.84	45.74	38.26	35.82
NA-4	10/5/2012	0-12 in	N	1.57	5.98	4.16	21.88	51.54	99.98	99.98	99.98	87.72	80.81	74.68	68.89	56.71	51.73
NA-5	10/3/2012	0-12 in	N	0.850	7.62	0	17.72	50.65	99.96	99.96	91.86	81.43	77.13	74.07	71.24	60.36	53.82
NA-6	10/3/2012	0-12 in	N	0.626	7.53	11.57	31.37	64.51	100.01	100.01	99.52	95.95	91.76	86.64	82.74	76.34	73.13
NA-7	10/3/2012	0-12 in	N	0.370	8.13	8.62	17.5	32.35	99.15	99.15	96.06	80.65	62.63	50.37	42.67	34.46	32.4
NA-8	10/3/2012	0-12 in	N	1.30	7.13	16.82	28.48	48.01	100	100	91.86	85.88	77.76	69.55	62.65	52.79	49.25
2012 Northeast Undeveloped Area Investigation																	
NE-UA-1	10/6/2012	0-12 in	N	1.37	7.50	2.15	16.68	41.02	99.98	99.98	97.02	84.14	72.06	62.66	55.15	44.29	41.19
NE-UA-2	10/6/2012	0-12 in	N	1.01	6.32	7.66	22.22	42.4	99.98	99.98	97.02	88.74	76.94	64.45	55.06	45	42.64
NE-UA-3	10/6/2012	0-12 in	N	0.936	6.35	5.58	16.6	35.04	99.95	99.95	99.39	79.91	66.14	55.73	47.41	37.81	35.33
2012 East Undeveloped Area Investigation																	
E-UA-1	10/5/2012	0-12 in	N	1.24	7.49	1.71	21.39	54.35	99.94	99.94	99.94	94.37	85.07	76.59	70.08	61.06	57.66
E-UA-2	10/5/2012	0-12 in	N	0.681	7.61	2.6	17.03	41.19	99.97	99.97	94.94	75.09	65.3	57.75	52.98	47.01	45.14
E-UA-3	10/5/2012	0-12 in	N	0.527	7.97	9.73	16.49	36.35	99.98	99.98	98.55	80.53	66.64	56.86	49.56	40.04	37.06
2012 South Undeveloped Area Investigation																	
S-UA-1	10/5/2012	0-12 in	N	0.789	6.60	11.36	25.65	49.56	104.31	104.31	97.42	88.4	76.57	67.91	62.06	53.78	49.92
			FD	0.727	6.33	11.95	23.15	41.89	99.99	99.99	98.13	91.48	73.23	62.36	55.37	45.38	42.03
S-UA-2	10/5/2012	0-12 in	N	0.741	6.37	14.14	18.94	26.98	99.97	99.97	93.99	71.74	59.99	49.77	41.16	27.37	23.41
S-UA-3	10/5/2012	0-12 in	N	0.572	6.13	0	18.42	49.68	99.97	99.97	96.47	85.59	79.51	74.5	69.32	58.52	54.11

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium			Lead		
																				Threshold = 110 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-1-1 0-2	06/29/10	10 U	< LOD	6.39	451	451.03	12.43	345	345.3	9.56	21 U	< LOD	14.01	105	105.26	6.21	28 J	28.19	9.66	599	599.4	23.71
BG-1-2 0-2	06/29/10	9 U	< LOD	6.08	349	348.97	10.69	258	258.26	8.07	20 U	< LOD	13.24	98	97.95	5.81	18 J	18.4	5.86	50	50.42	7.87
BG-1-3 0-2	06/29/10	9 U	< LOD	6.2	358	358.06	11.4	430	430.15	10.51	21 U	< LOD	13.81	103	103.13	6.05	20 J	19.98	6	31 J	31.37	6.93
BG-1-4 0-2	06/29/10	10 U	< LOD	6.8	504	503.66	13.36	387	387.17	10.36	21 U	< LOD	14.28	101	100.55	6.22	18 J	18.11	6.51	88	88.03	10.31
BG-1-5 0-2	06/29/10	11 U	< LOD	7.61	659	659.48	16.34	417	416.5	11.71	23 U	< LOD	15.45	93	93.04	6.59	33 J	32.81	7.83	50	49.77	9.21
Mean		10			464			367			21			100			23			164		
BG-1 0-2 COMP	06/29/10	10 U	< LOD	6.48	426	425.87	12.25	326	325.51	9.43	21 U	< LOD	13.91	93	93.13	5.96	23 J	22.85	6.47	55	55.45	8.54
%RPD		2%			9%			12%			1%			7%			2%			99%		
BG-1-1 2-12	06/29/10	9 U	< LOD	6.26	304	303.94	10.79	343	342.9	9.63	22 U	< LOD	14.59	114	113.62	6.47	19 J	19.48	6.48	81	81.21	9.77
BG-1-2 2-12	06/29/10	9 U	< LOD	6.2	339	338.91	10.65	244	244.49	7.95	19 U	< LOD	12.82	89	88.8	5.61	14 J	14.1	5.39	23 J	23.13	6.16
BG-1-3 2-12	06/29/10	10 U	< LOD	6.49	443	443.21	12.54	350	349.81	9.8	21 U	< LOD	14	107	107.36	6.32	21 J	21.36	6.25	26 J	25.7	6.75
BG-1-4 2-12	06/29/10	11 U	< LOD	7.5	739	739.17	16.47	373	372.68	10.72	23 U	< LOD	15.2	101	101.25	6.6	34 J	34.3	7.54	31 J	30.76	7.62
BG-1-5 2-12	06/29/10	11 U	< LOD	7.6	621	621.25	16.15	475	475.28	12.54	23 U	< LOD	15.62	95	95.3	6.68	29 J	28.97	7.54	37 J	36.79	8.32
Mean		10			489			357			22			101			23			40		
BG-1 2-12 COMP	06/29/10	10 U	< LOD	6.45	318	317.65	11.85	398	398.03	10.69	40 J	40.48	10.96	88	88.02	6.31	228	227.77	14.84	21 J	20.8	8.19
%RPD		0%			42%			11%			60%			14%			163%			61%		
BG-1-1 12-18	06/29/10	9 U	< LOD	6.21	350	350.18	11.11	287	287.27	8.76	20 U	< LOD	13.14	93	92.61	5.81	20 J	19.59	6.12	52	51.8	8.19
BG-1-2 12-18	06/29/10	10 U	< LOD	6.38	350	349.5	11.12	252	252.14	8.31	15 J	15.02	9.06	85	84.59	5.72	15 J	15.26	5.62	22 J	21.57	6.27
BG-1-3 12-18	06/29/10	10 U	< LOD	6.44	339	339.21	11.59	438	438.21	10.96	22 U	< LOD	14.48	100	100.48	6.22	24 J	23.83	6.36	17 J	17.26	6.16
BG-1-4 12-18	06/29/10	10 U	< LOD	6.77	493	492.59	13.11	300	300.41	9.2	23 U	< LOD	15.01	120	119.54	6.74	32 J	31.92	7.02	26 J	26.3	6.92
BG-1-5 12-18	06/29/10	9 U	< LOD	5.9	177	177.24	9.12	470	470.4	10.89	20 U	< LOD	13.21	96	96.34	5.8	7 J	7.42	4.89	15 J	14.61	5.52
Mean		10			342			349			20			99			20			26		
BG-1 12-18 COMP	06/29/10	9 U	< LOD	6.25	319	319.02	10.79	334	333.68	9.37	21 U	< LOD	13.97	104	104.02	6.13	17 J	16.52	5.72	22 J	22.06	6.27
%RPD		6%			7%			5%			5%			5%			14%			18%		
BG-2-1 0-2	06/30/10	9 U	< LOD	6.31	462	462.38	12.52	395	394.74	10.13	21 U	< LOD	13.99	103	102.52	6.08	17 J	16.83	5.82	31 J	31.04	6.87
BG-2-2 0-2	06/30/10	9 U	< LOD	5.95	287	286.84	10.14	337	337.03	9.18	20 U	< LOD	13.05	93	92.51	5.66	15 J	14.62	5.43	27 J	26.94	6.45
BG-2-3 0-2	06/30/10	10 U	< LOD	6.37	377	377.41	11.49	327	326.76	9.28	20 U	< LOD	13.07	85	84.53	5.6	21 J	20.52	6.24	66	66.13	8.91
BG-2-4 0-2	06/30/10	9 U	< LOD	5.87	274	274	10	357	356.61	9.4	21 U	< LOD	13.69	103	102.61	5.94	21 J	21.29	5.95	34 J	33.52	6.9
BG-2-5 0-2	06/30/10	9 U	< LOD	6.14	393	393.44	11.14	242	242.13	7.81	17 U	< LOD	11.21	58	57.55	4.6	21 J	21.28	5.87	49	49.2	7.77
Mean		9			359			332			20			88			19			41		
BG-2 0-2 COMP	06/30/10	9 U	< LOD	6.06	326	326.13	10.71	356	355.71	9.47	20 U	< LOD	13.2	99	99.06	5.85	17 J	16.64	5.62	26 J	25.65	6.39
%RPD		2%			10%			7%			1%			11%			11%			46%		
BG-2-1 2-12	06/30/10	10 U	< LOD	6.53	443	442.87	12.65	419	419.46	10.66	22 U	< LOD	14.43	100	100.06	6.17	21 J	21.31	6.22	27 J	26.54	6.83
BG-2-2 2-12	06/30/10	9 U	< LOD	6.09	366	366.31	11.18	325	325.47	9.13	20 U	< LOD	13.63	97	97.15	5.88	16 J	16.07	5.6	24 J	24.06	6.27
BG-2-3 2-12	06/30/10	9 U	< LOD	6.06	371	370.97	11.1	252	251.75	8.1	18 U	< LOD	12.13	79	79.2	5.32	19 J	18.69	5.76	31 J	30.98	6.84
BG-2-4 2-12	06/30/10	9 U	< LOD	6.02	283	282.61	10.22	310	310.24	8.99	21 U	< LOD	14.24	110	109.78	6.26	21 J	21.34	6.01	20 J	20.05	6.08
BG-2-5 2-12	06/30/10	9 U	< LOD	6.31	422	422.17	11.67	222	222.05	7.66	17 U	< LOD	11.27	51	50.51	4.48	25 J	25.08	5.98	15 J	14.85	5.69
Mean		9			377			306			20			87			20			23		
BG-2 2-12 COMP	06/30/10	9 U	< LOD	6.2	375	374.8	11.26	319	318.69	9.04	18 U	< LOD	12.11	89	89.15	5.54	15 J	15.18	5.44	17 J	17.33	5.8
%RPD		2%			1%			4%			9%			2%			31%			32%		
BG-2-1 12-18	06/30/10	9 U	< LOD	6.08	333	332.89	10.65	251	251.13	8.09	14 J	14.06	9.23	104	103.94	6.08	17 J	17.05	5.69	24 J	23.74	6.27
BG-2-2 12-18	06/30/10	9 U	< LOD	5.94	215	214.92	9.69	463	463.06	10.86	21 U	< LOD	14.08	108	108.04	6.17	20 J	20.02	5.88	14 J	14.03	5.66
BG-2-3 12-18	06/30/10	9 U	< LOD	6.24	409	409.2	11.75	294	294.22	8.81	18 U	< LOD	12.22	75	74.56	5.26	19 J	18.69	5.72	19 J	18.85	6
BG-2-4 12-18	06/30/10	9 U	< LOD	6.27	313	312.67	11.31	451	450.99	11.13	22 U	< LOD	14.42	110	109.77	6.42	25 J	24.67	6.48	21 J	21.28	6.51
BG-2-5 12-18	06/30/10	9 U	< LOD	6.22	455	454.9	12.06	257	257.15	8.18	16 U	< LOD	10.47	41	40.81	4.07	21 J	20.53	5.61	14 J	14.27	5.56
Mean		9			345			343			18			88			20			18		
BG-2 12-18 COMP	06/30/10	9 U	< LOD	6.14	282	281.72	10.52	384	383.57	10.08	20 U	< LOD	13.25	95	95.1	5.88	20 J	19.59	5.9	17 J	16.79	5.9
%RPD		0%			20%			11%			9%			8%			2%			8%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium			Lead		
																				Threshold = 110 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-3-1 0-2	06/29/10	9 U	< LOD	6.05	285	284.71	10.59	431	430.96	10.58	22 U	< LOD	14.43	110	110.07	6.29	20 J	19.68	6.14	46	46.05	7.82
BG-3-2 0-2	06/29/10	9 U	< LOD	6.03	321	321.32	10.62	322	321.79	9.06	20 U	< LOD	13.42	100	99.65	5.9	21 J	21.04	5.96	29 J	28.96	6.67
BG-3-3 0-2	06/29/10	9 U	< LOD	6.05	249	249.36	9.99	329	329.31	9.21	22 J	21.67	10	113	113.15	6.4	127	126.57	10.95	42	41.64	8.13
BG-3-4 0-2	06/29/10	9 U	< LOD	6.17	319	318.92	10.97	417	417.3	10.41	20 U	< LOD	13.17	86	85.79	5.61	17 J	16.64	5.84	46	45.63	7.73
BG-3-5 0-2	06/29/10	9 U	< LOD	6.14	366	365.62	11.28	371	370.53	9.71	21 U	< LOD	14.03	107	106.76	6.13	22 J	22	6.1	33 J	32.53	6.93
Mean		9			308			374			21			103			41			39		
BG-3 0-2 COMP	06/29/10	10 U	< LOD	6.43	419	418.97	12.01	340	340.02	9.48	22 U	< LOD	14.37	104	104.03	6.19	19 J	19.12	5.99	30 J	30.02	6.93
%RPD		11%			31%			10%			5%			1%			74%			27%		
BG-3-1 2-12	06/29/10	9 U	< LOD	6.29	303	302.71	11	346	346.14	9.85	23 U	< LOD	15.03	119	118.94	6.73	29 J	28.8	6.81	24 J	23.92	6.72
BG-3-2 2-12	06/29/10	9 U	< LOD	6.06	293	292.65	10.39	374	373.8	9.73	21 U	< LOD	14.29	123	123.45	6.48	19 J	18.82	5.9	28 J	27.87	6.58
BG-3-3 2-12	06/29/10	9 U	< LOD	6.21	286	285.65	10.28	262	261.96	8.39	16 J	15.92	9.87	119	118.85	6.58	31 J	31.14	6.71	17 J	16.83	6.06
BG-3-4 2-12	06/29/10	10 U	< LOD	6.4	324	324.31	11.37	457	457.22	11.11	22 U	< LOD	14.48	103	103.07	6.24	18 J	17.66	5.89	15 J	15.2	5.88
BG-3-5 2-12	06/29/10	9 U	< LOD	6.12	214	214.28	9.76	401	401.09	10.38	23 U	< LOD	15.57	144	143.89	7.18	24 J	24.3	6.47	19 J	19.3	6.27
Mean		9			284			368			21			122			24			21		
BG-3 2-12 COMP	06/29/10	9 U	< LOD	6.31	308	308.26	10.83	363	363.21	9.84	21 U	< LOD	13.94	115	115.1	6.4	22 J	22.2	6.22	25 J	25.44	6.6
%RPD		2%			8%			1%			0%			6%			10%			19%		
BG-3-1 12-18	06/29/10	9 U	< LOD	6.32	297	297.25	10.84	345	344.74	9.74	22 U	< LOD	14.63	125	124.79	6.76	41	40.87	7.4	12 J	12.1	6
BG-3-2 12-18	06/29/10	9 U	< LOD	6.02	295	295.26	10.14	273	273.35	8.34	21 U	< LOD	14.15	128	127.68	6.54	26 J	25.56	6.28	26 J	26.23	6.55
BG-3-3 12-18	06/29/10	9 U	< LOD	6.15	263	262.89	10.06	275	275.23	8.66	22 U	< LOD	14.69	118	118.47	6.58	18 J	18.44	5.95	19 J	18.92	6.21
BG-3-4 12-18	06/29/10	9 U	< LOD	6.07	342	342.37	11.39	464	463.99	10.99	21 U	< LOD	13.75	87	86.73	5.71	21 J	21.46	6.02	22 J	21.51	6.21
BG-3-5 12-18	06/29/10	9 U	< LOD	5.93	162	161.81	8.72	402	401.95	10.1	22 U	< LOD	14.69	144	144.05	6.93	14 J	14.21	5.55	10 J	10.48	5.35
Mean		9			272			352			22			120			24			18		
BG-3 12-18 COMP	06/29/10	10 U	< LOD	6.35	301	301.26	10.88	366	366.41	9.98	22 U	< LOD	14.86	123	122.51	6.71	29 J	29.33	6.69	13 J	12.97	5.82
%RPD		11%			10%			4%			2%			2%			19%			31%		
BG-4-1 0-2	06/28/10	9 U	< LOD	6.13	318	318.05	10.78	310	309.82	9.01	21 U	< LOD	14.24	119	118.76	6.47	65	65.07	8.87	105	105.01	10.85
BG-4-2 0-2	06/28/10	9 U	< LOD	5.95	220	219.93	9.28	333	332.73	9.14	21 U	< LOD	14.22	112	111.51	6.21	16 J	16.03	5.71	40	39.54	7.19
BG-4-3 0-2	06/28/10	9 U	< LOD	5.99	291	291.05	10.21	336	335.83	9.18	20 U	< LOD	13.41	99	99.09	5.86	18 J	17.99	5.7	27 J	26.7	6.45
BG-4-4 0-2	06/28/10	9 U	< LOD	6.29	332	332.15	11.04	320	319.9	9.25	22 U	< LOD	14.56	112	112.28	6.41	34 J	33.53	7.17	67	67.02	9.11
BG-4-5 0-2	06/28/10	8 U	< LOD	5.63	191	191.1	8.43	281	280.93	8.13	18 U	< LOD	12.1	85	84.57	5.25	22 J	22.19	5.78	41	41.48	7.11
Mean		9			270			316			20			105			31			56		
BG-4 0-2 COMP	06/28/10	9 U	< LOD	6.27	410	410.49	11.77	315	315.2	9.06	21 U	< LOD	13.96	103	103.28	6.09	32 J	32.25	6.84	45	45.38	7.79
%RPD		2%			41%			0%			3%			2%			3%			22%		
BG-4-1 2-12	06/28/10	10 U	< LOD	6.38	243	243.49	10.42	380	379.76	10.38	24 U	< LOD	16.32	153	153.3	7.59	45	44.93	7.88	15 J	14.94	6.28
BG-4-2 2-12	06/28/10	9 U	< LOD	6.03	275	275.18	10.2	347	347.16	9.45	17 J	16.94	9.58	104	103.64	6.12	32 J	31.5	6.72	38	38.13	7.32
BG-4-3 2-12	06/28/10	9 U	< LOD	5.89	226	226	9.53	382	382.09	9.81	21 U	< LOD	14.03	118	117.76	6.33	19 J	18.61	5.77	17 J	16.84	5.76
BG-4-4 2-12	06/28/10	10 U	< LOD	6.48	430	429.71	12.48	344	344.33	9.79	22 U	< LOD	14.9	119	119.49	6.71	28 J	28.03	6.75	24 J	23.61	6.72
BG-4-5 2-12	06/28/10	9 U	< LOD	5.88	243	242.8	9.31	277	277.35	8.25	19 U	< LOD	12.42	89	89.03	5.47	30 J	30.07	6.24	17 J	16.77	5.72
Mean		9			283			346			21			117			31			22		
BG-4 2-12 COMP	06/28/10	9 U	< LOD	6.26	352	352.09	11.24	358	358.49	9.68	22 U	< LOD	14.46	117	117.45	6.46	20 J	20.28	6.05	24 J	23.97	6.49
%RPD		4%			22%			3%			7%			0%			43%			8%		
BG-4-1 12-18	06/28/10	9 U	< LOD	6.27	285	284.56	10.43	302	302.18	9.03	23 U	< LOD	15.18	130	130.35	6.87	36	36.32	7.12	21 J	20.53	6.43
BG-4-2 12-18	06/28/10	9 U	< LOD	5.97	205	205.26	9.07	344	344.46	9.26	20 U	< LOD	13.55	111	111.07	6.12	15 J	14.81	5.49	25 J	24.57	6.24
BG-4-3 12-18	06/28/10	10 U	< LOD	6.4	403	403.17	11.99	371	371.3	9.96	22 U	< LOD	14.79	117	117.45	6.55	23 J	23.06	6.32	26 J	25.68	6.67
BG-4-4 12-18	06/28/10	11 U	< LOD	7.11	588	587.87	14.67	368	368.06	10.45	25 U	< LOD	16.94	168	168.03	8.06	28 J	28.46	7.15	15 J	15.05	6.37
BG-4-5 12-18	06/28/10	9 U	< LOD	5.86	290	289.59	9.92	301	300.72	8.56	20 U	< LOD	13.13	92	92.02	5.6	14 J	13.81	5.21	17 J	17.15	5.61
Mean		10			354			337			22			124			23			21		
BG-4 12-18 COMP	06/28/10	9 U	< LOD	6.18	246	245.74	10	333	333.26	9.49	23 U	< LOD	15.6	149	149.18	7.28	22 J	22.09	6.35	21 J	21.47	6.37
%RPD		6%			36%			1%			4%			19%			5%			1%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium			Lead		
																				Threshold = 110 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-5-1 0-2	06/22/10	9 U	< LOD	5.98	200	199.98	9.36	427	427.09	10.41	22 U	< LOD	14.93	148	148.12	7.03	21 J	20.85	6.09	20 J	20.12	6.07
BG-5-2 0-2	06/22/10	8 U	< LOD	5.66	192	191.67	8.6	319	319.49	8.73	20 U	< LOD	13.62	125	124.99	6.28	14 J	13.52	5.34	28 J	27.95	6.3
BG-5-3 0-2	06/22/10	9 U	< LOD	6.03	319	319.39	10.7	379	378.83	9.77	20 U	< LOD	13.11	96	96.42	5.78	15 J	14.8	5.69	52	51.55	7.95
BG-5-4 0-2	06/22/10	9 U	< LOD	6.24	439	439.34	11.93	311	311.26	8.91	20 U	< LOD	13.18	91	90.87	5.68	20 J	19.69	5.78	20 J	20.41	6.05
BG-5-5 0-2	06/22/10	9 U	< LOD	6.02	324	324.08	10.4	301	300.61	8.6	19 U	< LOD	12.69	87	87.22	5.47	22 J	22.21	5.98	46	46.22	7.52
Mean		9			295			347			20			109			18			33		
BG-5 0-2 COMP	06/22/10	9 U	< LOD	6.13	330	329.89	10.78	344	343.61	9.35	21 U	< LOD	13.93	109	108.83	6.15	17 J	16.72	5.62	16 J	16.32	5.81
%RPD		2%			11%			1%			4%			0%			8%			70%		
BG-5-1 2-12	06/22/10	9 U	< LOD	6	256	256.33	10.21	456	455.92	10.76	23 U	< LOD	15.55	152	151.75	7.17	28 J	28.35	6.52	9 J	8.9	5.39
BG-5-2 2-12	06/22/10	9 U	< LOD	5.73	242	241.7	9.48	351	351.19	9.25	21 U	< LOD	13.75	126	125.83	6.37	20 J	20.25	5.77	14 J	13.88	5.45
BG-5-3 2-12	06/22/10	9 U	< LOD	6.07	286	286.49	10.17	272	272.17	8.44	20 U	< LOD	13.11	99	99.43	5.92	18 J	18.27	5.7	13 J	13.34	5.54
BG-5-4 2-12	06/22/10	9 U	< LOD	6.28	335	335.02	11.32	418	417.81	10.55	21 U	< LOD	14.21	100	100.32	6.12	25 J	24.97	6.33	18 J	17.8	6.13
BG-5-5 2-12	06/22/10	10 U	< LOD	6.38	413	412.5	11.91	302	301.89	8.99	21 U	< LOD	14.06	104	104.05	6.18	19 J	19.37	5.98	23 J	23.46	6.48
Mean		9			306			360			21			116			22			15		
BG-5 2-12 COMP	06/22/10	10 U	< LOD	6.43	399	398.83	11.88	366	365.8	9.86	22 U	< LOD	14.93	114	114.13	6.48	12 J	12.34	5.49	18 J	17.87	6
%RPD		8%			26%			2%			4%			2%			59%			16%		
BG-5-1 12-18	06/22/10	9 U	< LOD	5.94	196	195.93	9.52	406	406.22	10.4	24 U	< LOD	16.01	161	160.72	7.51	48	48.2	7.83	15 J	14.91	6.17
BG-5-2 12-18	06/22/10	9 U	< LOD	5.67	173	173.4	8.48	337	336.92	9.04	21 U	< LOD	14.2	139	138.81	6.65	17 J	16.7	5.58	16 J	16.44	5.63
BG-5-3 12-18	06/22/10	9 U	< LOD	6.15	285	284.91	10.25	290	290.2	8.76	20 U	< LOD	13.07	94	93.85	5.81	20 J	19.99	5.89	20 J	20.15	6.09
BG-5-4 12-18	06/22/10	9 U	< LOD	5.94	292	291.62	10.57	412	412.27	10.3	20 U	< LOD	13.16	93	93.48	5.77	18 J	18.46	5.75	18 J	18.13	5.9
BG-5-5 12-18	06/22/10	10 U	< LOD	6.75	398	398.46	12.26	247	247.08	8.62	19 U	< LOD	12.79	65	64.58	5.3	21 J	20.87	6.19	18 J	17.79	6.27
Mean		9			269			338			21			110			25			17		
BG-5 12-18 COMP	06/22/10	9 U	< LOD	6.03	302	301.72	10.59	309	308.77	9.09	20 U	< LOD	13.38	93	93.41	5.87	17 J	16.65	5.7	19 J	18.76	6
%RPD		2%			12%			9%			4%			17%			37%			9%		
BG-6-1 0-2	06/28/10	9 U	< LOD	5.98	304	304.45	10.21	284	284.33	8.44	18 U	< LOD	12.27	84	83.76	5.38	25 J	24.7	5.99	21 J	20.79	6.05
BG-6-2 0-2	06/28/10	11 U	< LOD	7.64	800	800.38	17.45	505	504.84	12.52	22 U	< LOD	14.84	86	86.29	6.23	58	57.66	8.91	27 J	26.69	7.62
BG-6-3 0-2	06/28/10	10 U	< LOD	6.97	694	694.38	15.4	379	379.07	10.38	21 U	< LOD	14.07	91	91.37	6.04	21 J	21.21	6.38	33 J	32.6	7.37
BG-6-4 0-2	06/28/10	9 U	< LOD	6.11	361	360.56	10.87	281	280.89	8.4	19 U	< LOD	12.43	84	84.32	5.41	18 J	18.01	5.81	55	54.53	8.02
BG-6-5 0-2	06/28/10	9 U	< LOD	5.9	293	293.25	10.09	310	309.98	8.75	19 U	< LOD	12.5	89	89.12	5.51	22 J	21.89	6.2	78	77.56	9.16
Mean		10			490			352			20			87			29			43		
BG-6 0-2 COMP	06/28/10	9 U	< LOD	6.12	307	306.96	10.58	359	358.75	9.6	20 U	< LOD	13.05	96	96.2	5.81	9 J	9.43	5.18	30 J	30.26	6.67
%RPD		6%			46%			2%			1%			10%			105%			35%		
BG-6-1 2-12	06/28/10	9 U	< LOD	6.03	367	366.69	11.04	299	298.78	8.7	20 U	< LOD	13.04	86	85.93	5.53	16 J	15.86	5.44	17 J	16.99	5.74
BG-6-2 2-12	06/28/10	9 U	< LOD	5.87	221	220.64	9.82	508	508.41	11.3	20 U	< LOD	13.37	88	87.81	5.61	18 J	17.61	5.72	29 J	28.59	6.65
BG-6-3 2-12	06/28/10	10 U	< LOD	6.65	464	464.02	12.98	395	394.72	10.48	21 U	< LOD	14.07	93	93.42	6.04	19 J	19	6.08	23 J	23	6.56
BG-6-4 2-12	06/28/10	9 U	< LOD	6.18	398	397.67	11.62	353	353.17	9.5	21 U	< LOD	13.7	112	112.05	6.21	24 J	23.84	6.22	30 J	30.08	6.78
BG-6-5 2-12	06/28/10	9 U	< LOD	6.33	423	423.07	11.88	270	269.64	8.47	21 U	< LOD	13.96	110	109.84	6.27	22 J	21.82	6.09	20 J	19.65	6.18
Mean		9			375			365			21			98			20			24		
BG-6 2-12 COMP	06/28/10	9 U	< LOD	6.23	330	329.92	11.05	371	371.27	9.89	20 U	< LOD	13.65	98	98.17	5.98	23 J	22.57	6.12	20 J	19.89	6.2
%RPD		2%			13%			2%			3%			0%			15%			17%		
BG-6-1 12-18	06/28/10	9 U	< LOD	6.23	414	413.56	11.91	333	332.61	9.37	20 U	< LOD	13.52	101	101.47	6.03	21 J	21.28	6.03	20 J	19.9	6.22
BG-6-2 12-18	06/28/10	10 U	< LOD	6.43	298	298.12	11.55	550	550.47	12.4	22 U	< LOD	14.56	85	84.79	5.91	45	45.45	7.76	23 J	22.89	6.88
BG-6-3 12-18	06/28/10	10 U	< LOD	6.47	444	444.4	12.41	361	361.38	9.82	20 U	< LOD	13.53	99	99.46	6.02	22 J	21.91	6.14	22 J	22.21	6.34
BG-6-4 12-18	06/28/10	9 U	< LOD	6.11	288	288.13	10.77	429	428.96	10.7	21 U	< LOD	14.32	92	91.64	5.93	20 J	19.85	5.91	12 J	11.54	5.59
BG-6-5 12-18	06/28/10	10 U	< LOD	6.44	398	398.09	11.82	316	315.8	9.22	21 U	< LOD	14.19	105	104.85	6.22	27 J	26.5	6.4	15 J	14.79	5.8
Mean		10			368			398			21			96			27			18		
BG-6 12-18 COMP	06/28/10	9 U	< LOD	6.16	289	288.93	10.58	395	395.45	10.17	21 U	< LOD	13.73	103	103.44	6.09	21 J	21.35	6.05	21 J	20.88	6.22
%RPD		6%			24%			1%			1%			7%			25%			13%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium			Lead		
																				Threshold = 110 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-7-1 0-2	06/27/10	12 U	< LOD	8.15	659	659.36	17.58	450	449.84	13	24 U	< LOD	16.33	82	82.39	6.74	41 J	40.95	8.79	34 J	33.88	8.75
BG-7-2 0-2	06/27/10	9 U	< LOD	6.28	345	344.87	11.06	362	362.44	9.65	20 U	< LOD	13.44	104	103.61	6.01	20 J	19.9	5.94	28 J	28.15	6.71
BG-7-3 0-2	06/27/10	10 U	< LOD	6.46	481	480.57	12.77	375	375.42	9.94	16 J	15.56	9.54	96	95.79	6	34 J	34.23	6.92	31 J	31.43	7.02
BG-7-4 0-2	06/27/10	9 U	< LOD	6.21	380	380.38	11.37	345	344.59	9.33	20 U	< LOD	13.55	101	101.03	5.94	47	47.18	7.47	33 J	32.75	7.08
BG-7-5 0-2	06/27/10	11 U	< LOD	7.28	838	838.3	16.7	369	368.57	10.25	22 U	< LOD	14.38	105	105.33	6.41	31 J	31.24	7.15	41	41.44	8
Mean		10			541			380			20			98			35			33		
BG-7 0-2 COMP	06/27/10	11 U	< LOD	7.01	601	600.73	14.94	398	398.38	10.93	22 U	< LOD	14.58	104	103.57	6.51	22 J	21.89	6.59	25 J	24.73	7.06
%RPD		8%			11%			5%			8%			6%			45%			29%		
BG-7-1 2-12	06/27/10	9 J	8.96	5.15	557	556.85	15.38	407	406.91	11.69	23 U	< LOD	15.4	89	88.84	6.52	25 J	24.78	7.21	34 J	33.92	8.1
BG-7-2 2-12	06/27/10	11 U	< LOD	7.03	666	666.02	14.91	398	398.37	10.44	22 U	< LOD	14.92	115	114.68	6.57	28 J	27.54	6.65	17 J	16.8	6.15
BG-7-3 2-12	06/27/10	9 U	< LOD	6.26	382	382.21	11.72	407	407.28	10.29	21 U	< LOD	14.01	104	103.83	6.12	36	35.52	6.93	22 J	22.42	6.43
BG-7-4 2-12	06/27/10	9 U	< LOD	6.17	345	345.2	11.07	364	363.5	9.66	21 U	< LOD	13.72	101	100.59	5.98	24 J	24.49	6.19	23 J	22.66	6.33
BG-7-5 2-12	06/27/10	10 U	< LOD	6.63	585	585.12	13.87	318	318.15	9.3	22 U	< LOD	14.89	115	114.76	6.54	24 J	24.49	6.42	22 J	21.72	6.44
Mean		10			507			379			22			105			27			24		
BG-7 2-12 COMP	06/27/10	9 U	< LOD	6.32	344	344.45	11.4	406	406.09	10.41	22 U	< LOD	14.57	110	109.61	6.36	20 J	20.42	6.1	22 J	22.02	6.38
%RPD		6%			38%			7%			1%			5%			31%			7%		
BG-7-1 12-18	06/27/10	16 U	< LOD	10.99	864	864.3	24.78	510	509.77	17.25	33 U	< LOD	21.73	94	94.06	9.04	61 J	61.38	12.76	40 J	39.94	11.71
BG-7-2 12-18	06/27/10	10 U	< LOD	6.77	544	543.99	14.14	421	421.02	10.84	23 U	< LOD	15.38	120	119.92	6.82	179	178.79	13.24	28 J	28.49	8.18
BG-7-3 12-18	06/27/10	9 U	< LOD	6.25	348	348.04	11.57	454	453.93	11	21 U	< LOD	14.28	107	107.39	6.28	22 J	22.35	6.26	25 J	25.2	6.61
BG-7-4 12-18	06/27/10	9 U	< LOD	6.22	314	313.97	10.9	389	389.1	10.11	18 J	17.8	9.48	89	88.95	5.83	22 J	22.12	6.06	21 J	20.81	6.23
BG-7-5 12-18	06/27/10	9 U	< LOD	6.24	415	414.81	11.68	276	275.5	8.47	20 U	< LOD	13.05	104	104.34	6.01	18 J	18.34	5.74	16 J	16.24	5.83
Mean		11			497			410			23			103			60			26		
BG-7 12-18 COMP	06/27/10	11 U	< LOD	7.05	484	483.76	13.86	420	419.59	11.29	23 U	< LOD	15.58	101	100.76	6.59	24 J	23.55	6.72	22 J	21.73	6.86
%RPD		4%			3%			2%			0%			2%			86%			17%		
BG-8-1 0-2	06/26/10	9 U	< LOD	6.01	276	276.36	9.78	264	264.26	8.13	19 U	< LOD	12.41	90	89.9	5.52	20 J	19.57	5.94	60	59.71	8.33
BG-8-2 0-2	06/26/10	9 U	< LOD	6.3	297	296.5	10.88	405	404.97	10.48	22 U	< LOD	14.48	105	105.19	6.29	10 J	9.97	5.32	16 J	15.96	5.93
BG-8-3 0-2	06/26/10	9 U	< LOD	5.98	304	304.39	10.08	290	290.18	8.41	19 U	< LOD	12.69	85	85.28	5.4	18 J	17.52	5.48	22 J	22.31	6.04
BG-8-4 0-2	06/26/10	9 U	< LOD	6.18	332	331.59	10.76	290	289.76	8.68	21 U	< LOD	13.96	115	115.14	6.33	25 J	25.35	6.29	24 J	23.6	6.35
BG-8-5 0-2	06/26/10	9 U	< LOD	6.22	322	322.16	11.19	440	440.2	10.79	23 U	< LOD	15.04	122	121.68	6.65	23 J	22.83	6.58	64	64.09	8.92
Mean		9			306			338			21			103			19			37		
BG-8 0-2 COMP	06/26/10	9 U	< LOD	6.14	363	362.82	11.25	351	350.72	9.5	21 U	< LOD	13.85	105	104.62	6.09	22 J	21.79	6.14	38	37.83	7.28
%RPD		0%			17%			4%			1%			2%			14%			2%		
BG-8-1 2-12	06/26/10	9 U	< LOD	5.97	307	306.9	10.28	318	317.99	8.88	19 U	< LOD	12.81	94	94.34	5.66	14 J	14.23	5.31	18 J	17.65	5.75
BG-8-2 2-12	06/26/10	9 U	< LOD	6.33	322	322.21	11.22	390	389.6	10.33	21 U	< LOD	14.28	103	103.43	6.25	13 J	12.81	5.56	17 J	16.74	6
BG-8-3 2-12	06/26/10	9 U	< LOD	6.23	319	319.34	10.82	341	340.65	9.46	21 U	< LOD	13.92	109	109.3	6.24	18 J	17.61	5.81	21 J	21.17	6.2
BG-8-4 2-12	06/26/10	9 U	< LOD	6.08	328	328.08	10.71	299	299.16	8.8	21 U	< LOD	13.85	112	112.36	6.25	18 J	18.48	5.84	25 J	24.81	6.42
BG-8-5 2-12	06/26/10	9 U	< LOD	6.22	249	249.09	10.36	470	469.87	11.16	22 U	< LOD	14.9	116	116.49	6.53	20 J	20.44	6.09	17 J	16.69	5.98
Mean		9			305			364			21			107			17			20		
BG-8 2-12 COMP	06/26/10	10 U	< LOD	6.47	390	389.79	11.75	339	338.82	9.52	21 U	< LOD	14.13	113	113.34	6.39	21 J	21.37	6.12	18 J	18.26	6.12
%RPD		11%			24%			7%			1%			6%			23%			9%		
BG-8-1 12-18	06/26/10	9 U	< LOD	6	322	321.92	10.38	271	271.4	8.25	19 U	< LOD	12.6	86	85.94	5.46	19 J	19.37	5.67	23 J	22.96	6.15
BG-8-2 12-18	06/26/10	10 U	< LOD	6.48	388	388.24	12.28	412	412.49	10.78	22 U	< LOD	14.91	113	113.25	6.62	35 J	34.97	7.18	17 J	17.13	6.31
BG-8-3 12-18	06/26/10	9 U	< LOD	6.08	253	252.8	10.12	385	384.94	10.06	22 U	< LOD	14.76	114	114.07	6.44	26 J	25.58	6.4	24 J	23.85	6.55
BG-8-4 12-18	06/26/10	9 U	< LOD	6.11	219	219.39	9.79	405	405.36	10.38	21 U	< LOD	14.08	116	115.92	6.43	24 J	23.64	6.31	24 J	23.52	6.47
BG-8-5 12-18	06/26/10	9 U	< LOD	6.1	267	266.56	10.47	464	463.86	10.99	22 U	< LOD	14.84	126	125.79	6.67	15 J	14.71	5.73	24 J	23.63	6.44
Mean		9			290			387			21			111			24			22		
BG-8 12-18 COMP	06/26/10	9 U	< LOD	6.27	290	289.68	10.73	405	405.26	10.41	22 U	< LOD	14.87	114	113.79	6.49	18 J	17.56	5.95	26 J	26.15	6.63
%RPD		2%			0%			4%			4%			3%			28%			15%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium			Lead		
																				Threshold = 110 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-9-1 0-2	06/22/10	9 U	< LOD	6	301	301.23	10.5	421	421.21	10.21	20 U	< LOD	13.11	92	91.87	5.64	16 J	16.21	5.72	50	50.47	7.84
BG-9-2 0-2	06/22/10	9 U	< LOD	5.83	255	255.09	9.68	350	349.87	9.25	19 U	< LOD	12.97	89	88.72	5.53	25 J	24.73	6.02	27 J	27.48	6.45
BG-9-3 0-2	06/22/10	14 U	< LOD	9.35	1,220	1219.76	23.85	534	534.15	14.6	21 J	20.99	12.37	84	83.86	7.22	127	127.44	13.73	25 J	24.85	9.29
BG-9-4 0-2	06/22/10	9 U	< LOD	6.03	301	301.46	10.64	458	457.52	10.65	20 U	< LOD	13.14	92	92.37	5.67	25 J	24.74	6.21	39	38.66	7.27
BG-9-5 0-2	06/22/10	10 U	< LOD	6.54	486	486.06	13.1	386	385.97	10.29	20 U	< LOD	13.51	98	97.9	6.05	22 J	21.96	6.38	42	41.87	7.82
Mean		10			513			430			20			91			43			37		
BG-9 0-2 COMP	06/22/10	10 U	< LOD	6.76	466	465.68	13.18	441	440.97	11.12	15 J	14.96	9.81	90	89.71	6.05	23 J	23.11	6.5	38	38.02	7.6
%RPD		2%			10%			3%			29%			1%			61%			4%		
BG-9-1 2-12	06/22/10	9 U	< LOD	6	311	311.39	10.68	382	381.5	9.86	21 U	< LOD	13.78	110	110.19	6.17	22 J	22.32	6	13 J	13.25	5.64
BG-9-2 2-12	06/22/10	9 U	< LOD	5.72	239	238.97	9.34	314	314.15	8.75	18 U	< LOD	11.92	92	92.23	5.49	19 J	19.36	5.61	21 J	20.66	5.9
BG-9-3 2-12	06/22/10	9 U	< LOD	6.23	347	347.11	11.77	530	530.03	11.91	20 U	< LOD	13.37	69	69.21	5.28	13 J	12.53	5.38	16 J	16.05	5.88
BG-9-4 2-12	06/22/10	9 U	< LOD	6.3	305	305.45	11.03	413	413.39	10.58	20 U	< LOD	13.36	96	95.98	5.97	20 J	19.68	5.98	15 J	14.7	5.8
BG-9-5 2-12	06/22/10	9 U	< LOD	6.31	410	409.52	12.36	469	468.57	11.19	22 U	< LOD	14.49	97	96.65	6.08	39	39.28	7.25	21 J	21.44	6.55
Mean		9			322			422			20			93			23			17		
BG-9 2-12 COMP	06/22/10	10 U	< LOD	6.37	455	455.45	12.44	396	396.09	10.13	21 U	< LOD	14.16	115	114.87	6.35	28 J	27.67	6.44	16 J	15.56	5.85
%RPD		11%			34%			6%			4%			21%			21%			7%		
BG-9-1 12-18	06/22/10	9 U	< LOD	6.06	333	332.88	10.98	377	377.14	9.85	20 U	< LOD	13.49	104	104.18	6.04	24 J	23.63	6.15	21 J	21.49	6.24
BG-9-2 12-18	06/22/10	9 U	< LOD	6	312	311.5	10.69	393	392.93	9.98	20 U	< LOD	13.14	99	98.76	5.85	29 J	29.26	6.41	19 J	19.07	6.01
BG-9-3 12-18	06/22/10	10 U	< LOD	6.58	500	500.1	13.79	637	636.82	13.16	20 U	< LOD	13.56	72	72.25	5.42	13 J	13.17	5.55	16 J	16.3	5.98
BG-9-4 12-18	06/22/10	10 U	< LOD	6.48	461	461.2	12.78	430	430	10.72	20 U	< LOD	13.53	97	96.93	5.98	17 J	17.28	5.84	21 J	20.68	6.26
BG-9-5 12-18	06/22/10	9 U	< LOD	6.22	346	346.08	11.83	561	560.92	12.23	22 U	< LOD	14.93	110	110.05	6.42	19 J	18.9	5.96	9 J	8.78	5.33
Mean		9			390			480			20			96			20			17		
BG-9 12-18 COMP	06/22/10	9 U	< LOD	6.22	325	325.46	11.22	468	468.19	11.04	20 U	< LOD	13.66	101	101.43	6.03	32 J	31.67	6.65	12 J	11.92	5.71
%RPD		4%			18%			2%			2%			5%			44%			36%		
BG-10-1 0-2	06/23/10	9 U	< LOD	5.96	302	302.48	10.4	377	377.11	9.67	19 U	< LOD	12.69	84	83.67	5.41	14 J	14.42	5.35	23 J	22.7	6.1
BG-10-2 0-2	06/23/10	10 U	< LOD	6.62	449	449.08	12.7	379	378.83	10.2	20 U	< LOD	13.4	86	86.29	5.77	22 J	21.77	6.6	80	80.42	9.83
BG-10-3 0-2	06/23/10	10 U	< LOD	6.67	581	581.05	13.86	427	426.92	10.58	20 U	< LOD	13.23	82	82.4	5.56	20 J	20.34	6.03	32 J	32.13	7.02
BG-10-4 0-2	06/23/10	10 U	< LOD	6.34	495	495.41	13.01	442	442.18	10.74	22 U	< LOD	14.41	116	115.98	6.43	19 J	19.47	6.02	23 J	23.11	6.41
BG-10-5 0-2	06/23/10	10 U	< LOD	6.85	523	523.14	13.96	436	436.35	11.19	24 U	< LOD	16.11	141	141.02	7.38	32 J	32.28	7.34	36 J	35.77	7.73
Mean		10			470			412			21			102			21			39		
BG-10 0-2 COMP	06/23/10	10 U	< LOD	6.43	426	426.39	12.28	391	390.6	10.2	20 U	< LOD	13.44	98	98.4	5.99	21 J	20.65	6.11	29 J	29.17	6.95
%RPD		2%			10%			5%			5%			4%			2%			29%		
BG-10-1 2-12	06/23/10	9 U	< LOD	5.82	268	267.81	9.98	397	397.04	9.86	20 U	< LOD	13.57	97	97.3	5.79	17 J	17.35	5.58	23 J	22.52	6.1
BG-10-2 2-12	06/23/10	10 U	< LOD	6.58	391	391.09	12.1	354	353.79	9.97	22 U	< LOD	14.46	98	97.74	6.2	19 J	19.26	6.14	26 J	25.51	6.75
BG-10-3 2-12	06/23/10	9 U	< LOD	6.2	404	404.11	11.38	282	281.99	8.43	19 U	< LOD	12.34	80	80.41	5.31	20 J	19.99	5.7	20 J	20.19	6.01
BG-10-4 2-12	06/23/10	9 U	< LOD	6.11	312	312.01	10.84	402	402.14	10.12	21 U	< LOD	13.92	113	113.16	6.27	72	72.44	8.69	16 J	16.38	6.32
BG-10-5 2-12	06/23/10	9 U	< LOD	6.32	329	328.56	11.18	324	323.78	9.45	24 U	< LOD	15.91	142	142.17	7.24	39	38.86	7.45	29 J	28.57	7.06
Mean		9			341			352			21			106			33			23		
BG-10 2-12 COMP	06/23/10	9 U	< LOD	6.3	423	423.23	12.02	344	343.82	9.5	21 U	< LOD	13.85	101	100.66	6.04	20 J	19.83	5.91	17 J	17.23	5.92
%RPD		2%			22%			2%			1%			5%			50%			29%		
BG-10-1 12-18	06/23/10	9 U	< LOD	6.09	282	282.38	10.58	435	435.08	10.63	22 U	< LOD	14.9	113	112.76	6.4	21 J	21.22	6.09	23 J	22.7	6.37
BG-10-2 12-18	06/23/10	10 U	< LOD	6.49	392	391.96	11.85	282	282.18	8.87	21 U	< LOD	13.82	96	95.78	6.06	27 J	26.95	6.52	19 J	18.86	6.28
BG-10-3 12-18	06/23/10	9 U	< LOD	5.98	338	338.29	10.68	341	341.2	9.17	16 J	15.65	8.6	75	74.6	5.2	10 J	10.16	4.92	16 J	16.18	5.47
BG-10-4 12-18	06/23/10	9 U	< LOD	6.21	374	373.53	11.72	470	469.93	11.02	21 U	< LOD	14.17	106	105.62	6.16	23 J	23.04	6.16	18 J	18.39	6.04
BG-10-5 12-18	06/23/10	9 U	< LOD	6.3	324	324.14	11.05	312	311.9	9.23	24 U	< LOD	16.06	155	155.25	7.47	42	42.47	7.65	29 J	29.08	7.1
Mean		9			342			368			21			109			25			21		
BG-10 12-18 COMP	06/23/10	9 U	< LOD	6.22	348	348.14	11.29	370	369.94	9.88	22 U	< LOD	14.91	115	114.73	6.48	27 J	26.54	6.46	22 J	21.75	6.33
%RPD		2%			2%			1%			6%			5%			9%			5%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium			Lead		
																				Threshold = 110 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-11-1 0-2	06/27/10	9 U	< LOD	6.17	426	426.42	11.9	431	431.11	10.28	21 U	< LOD	13.8	105	105.37	6	26 J	26.16	6.52	73	72.77	9.01
BG-11-2 0-2	06/27/10	9 U	< LOD	6.04	297	297.23	10.4	418	418.02	10.12	20 U	< LOD	13.1	91	91.01	5.61	16 J	16.45	5.54	27 J	27.02	6.42
BG-11-3 0-2	06/27/10	9 U	< LOD	5.98	291	291.11	10.39	401	400.85	10.01	20 U	< LOD	13.58	101	101.47	5.93	19 J	19.21	5.87	35 J	35.11	7.04
BG-11-4 0-2	06/27/10	9 U	< LOD	5.71	199	199.29	8.94	379	378.71	9.55	19 U	< LOD	12.35	84	84.28	5.33	10 J	9.69	5.15	52	51.51	7.72
BG-11-5 0-2	06/27/10	9 U	< LOD	6.11	276	275.92	10.41	356	356.47	9.74	23 U	< LOD	15.17	147	146.71	7.16	29 J	28.66	6.73	24 J	24.22	6.57
Mean		9			298			397			21			106			20			42		
BG-11 0-2 COMP	06/27/10	9 U	< LOD	6.03	292	291.82	10.47	425	424.77	10.3	21 U	< LOD	13.67	105	104.67	6.01	25 J	25.06	6.19	24 J	24.35	6.41
%RPD		0%			2%			7%			2%			1%			22%			55%		
BG-11-1 2-12	06/27/10	9 U	< LOD	6.21	347	346.79	11.24	438	438.4	10.54	23 U	< LOD	15.26	129	129.17	6.71	27 J	27.18	6.52	33 J	32.55	7.02
BG-11-2 2-12	06/27/10	9 U	< LOD	6.2	321	320.85	10.92	403	402.6	10.19	21 U	< LOD	13.81	102	101.55	6.03	23 J	22.53	6.06	18 J	17.92	5.95
BG-11-3 2-12	06/27/10	9 U	< LOD	6.2	353	352.65	11.49	429	429.42	10.64	21 U	< LOD	13.96	112	111.71	6.32	16 J	16.16	5.88	35 J	34.64	7.19
BG-11-4 2-12	06/27/10	9 U	< LOD	6.27	347	346.66	11.27	394	393.71	10.15	20 U	< LOD	13.42	91	91.05	5.77	13 J	13.4	5.41	16 J	15.61	5.73
BG-11-5 2-12	06/27/10	9 U	< LOD	5.96	160	159.67	8.98	462	461.57	10.92	21 U	< LOD	14.29	114	114.48	6.36	20 J	19.7	5.92	15 J	15.02	5.72
Mean		9			306			425			21			110			20			23		
BG-11 2-12 COMP	06/27/10	9 U	< LOD	6.05	299	298.78	10.73	435	435.48	10.58	21 U	< LOD	14.11	104	104.01	6.11	21 J	21.42	6.03	21 J	21.43	6.19
%RPD		0%			2%			2%			1%			5%			6%			11%		
BG-11-1 12-18	06/27/10	9 U	< LOD	6	351	351.48	10.92	297	296.81	8.7	21 U	< LOD	13.88	114	113.86	6.26	30 J	30.06	6.54	27 J	27.29	6.58
BG-11-2 12-18	06/27/10	10 U	< LOD	6.38	329	329.46	11.31	392	392.01	10.33	23 U	< LOD	15.15	128	127.76	6.86	25 J	24.96	6.52	22 J	22	6.5
BG-11-3 12-18	06/27/10	10 U	< LOD	6.37	448	448.32	12.73	466	466.04	11.15	22 U	< LOD	14.42	99	99.24	6.12	25 J	24.7	6.4	26 J	25.54	6.69
BG-11-4 12-18	06/27/10	9 U	< LOD	6.02	312	312.26	10.66	393	393.43	9.97	20 U	< LOD	13.16	91	91.23	5.68	11 J	10.68	5.12	16 J	16.35	5.63
BG-11-5 12-18	06/27/10	10 U	< LOD	6.71	432	432.09	12.67	413	412.95	10.68	22 U	< LOD	14.99	124	124.46	6.81	44	43.61	7.64	17 J	16.74	6.32
Mean		10			374			392			22			111			27			22		
BG-11 12-18 COMP	06/27/10	10 U	< LOD	6.54	440	440.2	12.61	399	399.12	10.42	23 U	< LOD	15.35	134	133.87	7	31 J	31.49	6.94	19 J	19.1	6.35
%RPD		4%			16%			2%			6%			19%			14%			13%		
BG-12-1 0-2	06/26/10	9 U	< LOD	6.33	323	322.82	11.26	460	460.39	11.03	21 U	< LOD	13.98	100	99.71	6.07	28 J	27.91	6.66	41	41.07	7.62
BG-12-2 0-2	06/26/10	9 U	< LOD	5.84	272	271.61	9.89	318	317.67	8.91	20 U	< LOD	13.21	92	91.99	5.67	17 J	17.09	5.55	21 J	21.48	6.03
BG-12-3 0-2	06/26/10	9 U	< LOD	5.93	261	260.8	9.71	327	327.37	8.99	20 U	< LOD	13.07	94	94.08	5.67	13 J	13.14	5.29	27 J	27.23	6.35
BG-12-4 0-2	06/26/10	9 U	< LOD	5.96	302	301.73	10.47	373	373.12	9.68	19 U	< LOD	12.82	87	87.35	5.54	23 J	23.21	6.22	56	56.28	8.25
BG-12-5 0-2	06/26/10	9 U	< LOD	5.99	277	277.21	9.88	285	284.96	8.46	20 U	< LOD	13.29	98	98.49	5.82	22 J	22	6.02	41	40.71	7.27
Mean		9			287			353			20			94			21			37		
BG-12 0-2 COMP	06/26/10	9 U	< LOD	6.22	288	287.97	10.48	381	381.15	9.94	21 U	< LOD	13.72	103	103.39	6.06	22 J	22.07	6.09	24 J	24.37	6.43
%RPD		0%			0%			8%			5%			9%			7%			43%		
BG-12-1 2-12	06/26/10	9 U	< LOD	6.15	297	297.24	10.87	443	442.55	10.78	22 U	< LOD	14.51	100	100	6.11	33 J	32.51	6.85	32 J	32.31	7.11
BG-12-2 2-12	06/26/10	10 U	< LOD	6.48	381	380.94	11.93	358	358.21	9.97	23 U	< LOD	15.65	128	127.52	6.94	23 J	23.15	6.56	36 J	36.44	7.48
BG-12-3 2-12	06/26/10	9 U	< LOD	6.26	375	374.96	11.57	367	367.1	9.83	22 U	< LOD	14.52	113	112.62	6.38	23 J	23.21	6.22	20 J	20.46	6.25
BG-12-4 2-12	06/26/10	9 U	< LOD	5.74	247	247.45	9.57	351	350.5	9.25	20 U	< LOD	13.2	99	98.88	5.77	19 J	19.13	5.62	15 J	15.22	5.55
BG-12-5 2-12	06/26/10	9 U	< LOD	6.23	388	388.02	11.38	283	282.76	8.58	20 U	< LOD	13.61	106	105.55	6.09	14 J	13.88	5.47	21 J	20.8	6.11
Mean		9			338			360			21			109			22			25		
BG-12 2-12 COMP	06/26/10	9 U	< LOD	6.02	281	281.29	10.36	396	395.91	10.06	21 U	< LOD	14.01	114	114.2	6.29	19 J	19.18	5.89	23 J	23.07	6.25
%RPD		2%			18%			9%			2%			4%			16%			8%		
BG-12-1 12-18	06/26/10	9 U	< LOD	6.25	433	433.07	12.52	505	505.29	11.48	21 U	< LOD	14.18	97	96.89	6	22 J	21.95	6.09	17 J	16.79	6.02
BG-12-2 12-18	06/26/10	9 U	< LOD	6.21	299	299.29	10.7	349	348.83	9.66	22 U	< LOD	14.62	114	114.16	6.46	24 J	23.8	6.34	26 J	26.36	6.66
BG-12-3 12-18	06/26/10	10 U	< LOD	6.37	375	375.46	11.82	406	406.33	10.46	22 U	< LOD	14.75	113	112.72	6.47	23 J	22.87	6.31	23 J	23.18	6.5
BG-12-4 12-18	06/26/10	9 U	< LOD	6.09	286	285.71	10.51	416	415.88	10.34	21 U	< LOD	14.25	109	109.19	6.23	20 J	20.05	5.93	19 J	18.77	6.06
BG-12-5 12-18	06/26/10	10 U	< LOD	6.48	394	393.72	11.79	254	254.25	8.43	21 U	< LOD	14.26	110	110.15	6.42	23 J	22.8	6.31	21 J	21.32	6.49
Mean		9			357			386			21			109			22			21		
BG-12 12-18 COMP	06/26/10	9 U	< LOD	6.3	357	357.34	11.53	386	385.95	10.16	22 U	< LOD	14.56	117	117.01	6.53	29 J	28.92	6.66	21 J	21.4	6.39
%RPD		4%			0%			0%			3%			7%			26%			1%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium			Lead		
																				Threshold = 110 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-13-1 0-2	06/22/10	11 U	< LOD	7.36	547	546.76	14.84	417	416.98	11.47	24 U	< LOD	15.81	109	108.73	6.9	36 J	36.1	7.88	46	46.33	8.74
BG-13-2 0-2	06/22/10	10 U	< LOD	6.4	410	409.57	11.89	304	303.96	9.04	19 U	< LOD	12.8	87	86.59	5.65	17 J	16.81	5.72	22 J	22.14	6.35
BG-13-3 0-2	06/22/10	9 U	< LOD	5.94	308	307.73	10.27	320	319.78	8.89	19 U	< LOD	12.45	88	87.97	5.47	14 J	13.71	5.31	28 J	28.03	6.39
BG-13-4 0-2	06/22/10	9 U	< LOD	5.96	300	299.94	10.3	385	385.26	9.68	20 U	< LOD	13.01	99	99.22	5.76	18 J	18.06	5.6	21 J	20.74	5.99
BG-13-5 0-2	06/22/10	9 U	< LOD	5.79	327	327.07	10.5	381	380.72	9.53	19 U	< LOD	12.73	95	95.3	5.6	15 J	14.72	5.28	19 J	18.87	5.72
Mean		10			378			361			20			96			20			27		
BG-13 0-2 COMP	06/22/10	9 U	< LOD	6.03	308	307.53	10.47	359	359.1	9.48	19 U	< LOD	12.49	88	88.2	5.52	17 J	17.12	5.56	21 J	21.15	5.99
%RPD		6%			21%			1%			6%			8%			16%			26%		
BG-13-1 2-12	06/22/10	10 U	< LOD	6.98	385	385.35	12.79	409	408.76	11.22	23 U	< LOD	15.43	121	121.27	7.08	29 J	28.52	7.15	20 J	19.69	6.83
BG-13-2 2-12	06/22/10	9 U	< LOD	6.14	326	325.99	10.81	301	301.14	8.92	20 U	< LOD	13.07	82	82.4	5.55	21 J	21.15	5.94	21 J	20.62	6.14
BG-13-3 2-12	06/22/10	9 U	< LOD	6.1	373	372.62	11.48	431	430.7	10.44	19 U	< LOD	12.78	79	79.29	5.36	17 J	17.02	5.61	24 J	23.54	6.27
BG-13-4 2-12	06/22/10	9 U	< LOD	5.82	168	168.38	9.06	464	463.56	10.9	20 U	< LOD	13.65	94	93.89	5.83	15 J	15.24	5.53	17 J	17.44	5.9
BG-13-5 2-12	06/22/10	9 U	< LOD	6.07	278	278.39	10.44	427	426.53	10.46	21 U	< LOD	13.83	112	112.2	6.25	21 J	21.11	5.98	15 J	15.08	5.76
Mean		9			306			406			21			98			21			19		
BG-13 2-12 COMP	06/22/10	9 U	< LOD	6.23	298	298.27	10.91	396	396.27	10.39	21 U	< LOD	13.68	93	93.4	5.95	18 J	17.68	5.88	20 J	20.13	6.2
%RPD		2%			3%			3%			2%			5%			13%			3%		
BG-13-1 12-18	06/22/10	9 U	< LOD	6.22	235	235.15	10.25	422	421.88	10.8	22 U	< LOD	14.38	107	106.76	6.37	21 J	20.85	6.18	17 J	16.62	6.1
BG-13-2 12-18	06/22/10	9 U	< LOD	6.12	311	310.94	10.85	377	377.1	9.98	20 U	< LOD	13.06	89	89.35	5.72	21 J	20.7	5.98	22 J	21.67	6.33
BG-13-3 12-18	06/22/10	9 U	< LOD	6.14	278	277.55	10.6	427	427.16	10.64	18 U	< LOD	12.26	68	67.95	5.1	18 J	18.16	5.74	21 J	21.23	6.25
BG-13-4 12-18	06/22/10	8 U	< LOD	5.58	129	128.92	8.36	480	479.99	10.85	20 U	< LOD	13.51	96	96.28	5.77	24 J	23.96	5.98	15 J	15.2	5.69
BG-13-5 12-18	06/22/10	9 U	< LOD	6.02	287	286.5	10.27	340	340.05	9.32	20 U	< LOD	13.56	102	101.74	5.98	24 J	24.46	6.15	22 J	21.85	6.19
Mean		9			248			409			20			92			22			19		
BG-13 12-18 COMP	06/22/10	9 U	< LOD	6	247	247.48	10.05	418	418.1	10.39	20 U	< LOD	13.02	91	90.92	5.7	21 J	20.82	5.93	21 J	20.87	6.23
%RPD		2%			0%			2%			0%			2%			3%			8%		
BG-14-1 0-2	06/23/10	10 U	< LOD	6.62	374	373.71	12.4	512	512.31	11.97	24 U	< LOD	15.76	133	133.05	7.11	72	72.23	9.26	26 J	26.01	7.32
BG-14-2 0-2	06/23/10	10 U	< LOD	6.49	378	377.99	11.85	403	403.27	10.43	21 U	< LOD	13.86	94	93.83	5.96	24 J	23.52	6.37	35 J	34.8	7.3
BG-14-3 0-2	06/23/10	9 U	< LOD	6.05	300	299.78	10.26	311	311.21	8.84	20 U	< LOD	13.23	93	92.84	5.7	22 J	22.31	6.13	53	52.76	8.01
BG-14-4 0-2	06/23/10	9 U	< LOD	6.14	335	335.14	10.9	350	349.53	9.47	20 U	< LOD	13.48	86	85.69	5.61	16 J	15.97	5.62	31 J	30.99	6.77
BG-14-5 0-2	06/23/10	9 U	< LOD	6.17	346	345.52	11.07	423	422.78	10.26	21 U	< LOD	13.9	118	118.3	6.31	19 J	19.38	5.97	38	38.01	7.21
Mean		9			347			400			21			105			31			37		
BG-14 0-2 COMP	06/23/10	9 U	< LOD	6.05	275	275.39	10.22	389	388.91	9.93	20 U	< LOD	13.58	109	108.72	6.11	16 J	15.65	5.65	29 J	28.71	6.62
%RPD		4%			23%			3%			6%			4%			63%			23%		
BG-14-1 2-12	06/23/10	9 U	< LOD	6.23	255	255.17	10.74	509	509.42	11.81	23 U	< LOD	15.01	117	116.6	6.63	25 J	24.65	6.5	19 J	18.51	6.27
BG-14-2 2-12	06/23/10	10 U	< LOD	6.65	635	635.43	14.4	437	437.37	10.7	20 U	< LOD	13.46	97	97.04	5.93	31 J	30.7	6.68	23 J	22.51	6.47
BG-14-3 2-12	06/23/10	9 U	< LOD	5.86	296	296.48	10.33	386	385.99	9.75	20 U	< LOD	13.49	107	107.48	6.01	20 J	19.65	5.77	22 J	21.94	6.1
BG-14-4 2-12	06/23/10	10 U	< LOD	6.56	525	525.43	13.12	285	284.57	8.78	20 U	< LOD	13.64	105	104.81	6.17	15 J	15.21	5.71	22 J	22.38	6.39
BG-14-5 2-12	06/23/10	9 U	< LOD	5.96	316	315.83	10.68	432	431.58	10.3	21 U	< LOD	14.31	121	121.12	6.37	25 J	24.73	6.2	27 J	27.21	6.51
01/00/00		9			405			410			21			109			23			23		
BG-14 2-12 COMP	06/23/10	9 U	< LOD	6.04	273	273.16	10.38	454	454.38	10.71	21 U	< LOD	14.32	122	121.99	6.46	23 J	23.32	6.17	22 J	22.09	6.3
%RPD		4%			39%			10%			1%			11%			1%			3%		
BG-14-1 12-18	06/23/10	8 U	< LOD	5.65	140	139.92	8.76	587	586.77	11.82	20 U	< LOD	13.6	96	95.54	5.71	40	39.67	6.85	20 J	19.53	6
BG-14-2 12-18	06/23/10	9 U	< LOD	6.33	449	448.92	12.39	420	419.91	10.41	20 U	< LOD	13.56	98	98.17	5.92	15 J	15.28	5.62	23 J	22.89	6.32
BG-14-3 12-18	06/23/10	9 U	< LOD	6.1	275	274.88	10.13	352	351.77	9.45	21 U	< LOD	13.9	114	114.38	6.27	26 J	26.28	6.27	19 J	18.6	6.03
BG-14-4 12-18	06/23/10	10 U	< LOD	6.4	452	451.78	12.44	277	277.22	8.62	16 J	15.84	9.46	97	97.34	6.06	136	136.38	11.35	16 J	15.52	6.83
BG-14-5 12-18	06/23/10	9 U	< LOD	6.31	356	356.05	11.57	437	436.86	10.74	24 U	< LOD	16.24	146	145.8	7.24	25 J	24.97	6.52	23 J	23.05	6.55
Mean		9			334			415			20			110			48			20		
BG-14 12-18 COMP	06/23/10	9 U	< LOD	6.14	304	303.84	10.61	358	357.56	9.62	21 U	< LOD	13.85	103	102.74	6.06	26 J	26.22	6.27	15 J	14.57	5.74
%RPD		0%			10%			15%			4%			7%			60%			30%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium			Lead		
																				Threshold = 110 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-15-1 0-2	06/25/10	9 U	< LOD	6.05	262	261.67	9.84	313	313.06	8.92	34 J	33.8	10.01	99	98.92	6.06	22 J	21.82	5.88	12 J	12.31	5.45
BG-15-2 0-2	06/25/10	9 U	< LOD	6.07	330	329.84	10.78	380	380.28	9.71	20 U	< LOD	13.25	87	87.15	5.56	37	36.91	6.78	23 J	23.23	6.36
BG-15-3 0-2	06/25/10	9 U	< LOD	6.18	329	328.85	10.79	352	352.12	9.47	21 U	< LOD	13.68	106	105.95	6.07	17 J	17.19	5.72	26 J	25.69	6.39
BG-15-4 0-2	06/25/10	9 U	< LOD	5.93	305	305.18	10.19	314	314.48	8.76	20 U	< LOD	13.61	120	120	6.24	28 J	27.97	6.45	52	51.59	7.9
BG-15-5 0-2	06/25/10	8 U	< LOD	5.65	200	200.28	8.62	312	311.93	8.53	14 J	13.6	8.44	85	84.71	5.31	22 J	21.63	6.21	114	113.94	10.4
Mean		9			285			334			22			99			25			45		
BG-15 0-2 COMP	06/25/10	9 U	< LOD	5.83	255	255.08	9.69	353	352.58	9.31	20 U	< LOD	13.07	100	100.02	5.79	13 J	12.98	5.3	27 J	26.95	6.36
%RPD		2%			11%			5%			9%			1%			64%			51%		
BG-15-1 2-12	06/25/10	9 U	< LOD	5.82	210	209.65	8.99	330	329.6	8.95	18 J	17.69	9.51	113	112.68	6.16	22 J	22.23	5.91	24 J	24.31	6.21
BG-15-2 2-12	06/25/10	9 U	< LOD	5.83	245	245.34	9.53	348	347.71	9.22	20 U	< LOD	13.32	109	109.1	6	14 J	14.06	5.35	20 J	20.26	5.89
BG-15-3 2-12	06/25/10	9 U	< LOD	6.26	396	396.06	11.67	379	379.28	9.85	20 U	< LOD	13.64	103	103.4	6.03	22 J	21.95	5.98	16 J	15.56	5.78
BG-15-4 2-12	06/25/10	9 U	< LOD	5.77	174	173.66	8.41	286	286.06	8.42	20 U	< LOD	13.29	116	116.06	6.17	23 J	23.49	5.97	17 J	17.02	5.74
BG-15-5 2-12	06/25/10	9 U	< LOD	5.95	277	277.45	10.12	399	398.6	9.9	20 U	< LOD	13.34	105	104.9	5.94	18 J	18.45	5.67	19 J	19.29	5.85
Mean		9			260			348			20			109			20			19		
BG-15 2-12 COMP	06/25/10	9 U	< LOD	6.06	303	303.16	10.51	371	371.29	9.69	20 U	< LOD	13.38	110	109.64	6.1	27 J	27.09	6.3	19 J	19.42	6.07
%RPD		0%			15%			6%			2%			1%			31%			1%		
BG-15-1 12-18	06/25/10	9 U	< LOD	5.71	218	217.56	8.91	327	327.18	8.75	20 U	< LOD	13.38	107	107.4	5.87	21 J	20.72	5.66	22 J	21.97	5.87
BG-15-2 12-18	06/25/10	8 U	< LOD	5.65	228	228	9.27	386	386.27	9.53	20 U	< LOD	13.28	99	98.65	5.7	32	31.68	6.29	16 J	16.43	5.66
BG-15-3 12-18	06/25/10	9 U	< LOD	6.12	262	262.31	10.78	529	529.13	11.88	23 U	< LOD	15.36	126	125.62	6.8	43	42.79	7.5	15 J	14.96	6.09
BG-15-4 12-18	06/25/10	9 U	< LOD	5.97	256	255.95	9.78	346	345.66	9.29	21 U	< LOD	13.91	120	119.92	6.34	20 J	20	5.86	22 J	21.81	6.15
BG-15-5 12-18	06/25/10	9 U	< LOD	5.94	246	246	9.69	373	372.9	9.61	20 U	< LOD	13.33	100	100.32	5.85	18 J	18.11	5.65	21 J	21.26	6.02
Mean		9			242			392			21			110			27			19		
BG-15 12-18 COMP	06/25/10	9 U	< LOD	5.99	284	284.38	10.39	398	398.49	10.06	21 U	< LOD	14.09	109	108.74	6.17	25 J	25.23	6.23	21 J	20.59	6.16
%RPD		2%			16%			1%			1%			1%			7%			9%		
BG-16-1 0-2	06/25/10	10 U	< LOD	6.73	560	560.21	13.64	333	332.52	9.49	22 U	< LOD	14.39	101	101.45	6.19	26 J	25.75	6.88	87	86.57	10.11
BG-16-2 0-2	06/25/10	10 U	< LOD	6.77	545	545.42	13.7	396	395.71	10.37	24 U	< LOD	16.2	144	143.73	7.27	47	46.9	8	48	48.13	8.34
BG-16-3 0-2	06/26/10	9 U	< LOD	5.74	226	225.56	9.13	311	310.82	8.69	21 U	< LOD	14.05	123	122.74	6.33	19 J	19.15	5.81	35	35.18	6.9
BG-16-4 0-2	06/26/10	9 U	< LOD	5.82	154	154.47	8.6	378	377.86	9.84	22 U	< LOD	14.48	142	142.27	6.91	22 J	21.89	6.4	59	58.53	8.47
BG-16-5 0-2	06/26/10	9 U	< LOD	5.73	162	161.78	8.47	357	357.2	9.38	21 U	< LOD	13.82	125	125.43	6.4	26 J	26.12	6.73	103	103.11	10.31
Mean		9			329			355			22			127			28			66		
BG-16 0-2 COMP	06/26/10	9 U	< LOD	5.85	222	221.54	9.44	352	352.1	9.47	21 U	< LOD	13.96	118	118.19	6.35	22 J	21.92	6.15	38	38.08	7.21
%RPD		4%			39%			1%			5%			7%			24%			54%		
BG-16-1 2-12	06/25/10	10 U	< LOD	6.52	443	442.73	12.33	329	328.83	9.39	21 U	< LOD	13.67	103	103.11	6.13	16 J	16.47	5.78	22 J	21.56	6.34
BG-16-2 2-12	06/25/10	9 U	< LOD	5.94	191	191.11	9.2	377	377.02	9.89	22 U	< LOD	14.51	123	123.13	6.56	31 J	31.16	6.63	11 J	11.08	5.6
BG-16-3 2-12	06/26/10	9 U	< LOD	5.83	280	280.34	9.83	325	324.77	8.85	20 U	< LOD	13.48	114	113.82	6.08	11 J	11.46	5.12	18 J	18.14	5.64
BG-16-4 2-12	06/26/10	9 U	< LOD	5.98	259	258.7	10.17	406	406.21	10.18	23 U	< LOD	15.14	143	143.46	6.99	60	60.18	8.25	25 J	24.54	6.79
BG-16-5 2-12	06/26/10	9 U	< LOD	6.14	290	289.64	10.42	336	336.18	9.38	21 U	< LOD	14.17	104	103.51	6.14	25 J	24.92	6.21	15 J	14.59	5.78
Mean		9			293			355			21			117			29			18		
BG-16 2-12 COMP	06/26/10	9 U	< LOD	6.16	346	346.04	11.12	365	364.72	9.7	22 U	< LOD	14.44	118	117.96	6.44	23 J	22.81	6.19	27 J	26.91	6.55
%RPD		2%			17%			3%			3%			1%			22%			39%		
BG-16-1 12-18	06/25/10	9 U	< LOD	6.13	342	342.46	10.89	297	296.98	8.78	21 U	< LOD	13.91	109	108.53	6.18	19 J	18.93	5.79	15 J	14.71	5.71
BG-16-2 12-18	06/25/10	9 U	< LOD	5.91	201	200.71	9.01	319	318.56	8.98	21 U	< LOD	13.83	127	127.43	6.5	25 J	24.58	6.16	17 J	17.08	5.85
BG-16-3 12-18	06/26/10	9 U	< LOD	5.91	266	266.03	9.79	326	326.01	8.99	21 U	< LOD	13.98	124	124.08	6.4	13 J	12.7	5.38	25 J	25.44	6.33
BG-16-4 12-18	06/26/10	9 U	< LOD	5.91	166	166.04	8.86	371	371.34	9.87	24 U	< LOD	16.05	155	154.59	7.35	27 J	27.25	6.58	18 J	17.85	6.14
BG-16-5 12-18	06/26/10	10 U	< LOD	6.8	493	493.19	13.23	392	392.01	10.37	22 U	< LOD	14.97	114	113.67	6.57	46	46.43	7.73	16 J	16.01	6.3
Mean		9			294			341			22			126			26			18		
BG-16 12-18 COMP	06/26/10	9 U	< LOD	5.86	242	242.22	9.55	332	332	9.11	22 U	< LOD	14.4	120	120.35	6.4	13 J	13.37	5.38	17 J	16.64	5.72
%RPD		2%			19%			3%			1%			5%			67%			7%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Selenium			Arsenic			Mercury			Zinc			Tungsten			Copper			Nickel		
					Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg						Threshold = 180 mg/Kg			Threshold = 550 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-1-1 0-2	06/29/10	8 U	< LOD	5.18	138	138.4	20.87	15 U	< LOD	10.19	112	112.33	14.82	105 U	< LOD	69.79	115	115.39	19.78	83 U	< LOD	55.57
BG-1-2 0-2	06/29/10	7 U	< LOD	4.37	38 J	37.5	7.63	14 U	< LOD	9.02	142	142.4	15.3	94 U	< LOD	62.76	75 J	75.07	17.2	79 U	< LOD	52.37
BG-1-3 0-2	06/29/10	7 U	< LOD	4.43	58	58.34	7.86	15 U	< LOD	9.68	95	95.01	13.62	96 U	< LOD	63.83	57 J	56.7	16.71	79 U	< LOD	52.87
BG-1-4 0-2	06/29/10	6 J	5.57	3.51	114	113.86	11.62	15 U	< LOD	10.3	166	166.23	17.66	109 U	< LOD	72.78	159	158.72	22.29	87 U	< LOD	58.11
BG-1-5 0-2	06/29/10	8 U	< LOD	5.59	91	90.86	10.84	18 U	< LOD	12.22	89	89.45	16.86	118 U	< LOD	78.99	92 J	92.09	22.11	112 U	< LOD	74.35
Mean		7			88			15			121			104			100			88		
BG-1 0-2 COMP	06/29/10	7 U	< LOD	4.55	68	67.79	9.22	10 J	10.42	6.81	104	104.11	14.6	99 U	< LOD	66.16	79 J	79.35	18.56	87 U	< LOD	57.7
%RPD		3%			25%			43%			15%			5%			23%			1%		
BG-1-1 2-12	06/29/10	7 U	< LOD	4.47	30 J	30.11	8.77	16 U	< LOD	10.36	61 J	61.01	12.47	105 U	< LOD	69.7	35 U	< LOD	23.1	86 U	< LOD	57.09
BG-1-2 2-12	06/29/10	6 U	< LOD	4.09	33	32.64	6.43	15 U	< LOD	9.98	62	62.14	11.97	104 U	< LOD	69.22	31 J	31.04	15.41	82 U	< LOD	54.69
BG-1-3 2-12	06/29/10	7 U	< LOD	4.54	12 U	< LOD	8.32	15 U	< LOD	10.13	38 J	38.37	11.44	103 U	< LOD	68.51	31 J	30.95	16.27	89 U	< LOD	59.42
BG-1-4 2-12	06/29/10	7 U	< LOD	4.8	41	41.16	7.92	16 U	< LOD	10.91	63 J	62.64	14.06	114 U	< LOD	75.87	36 J	35.82	18.19	98 U	< LOD	65.51
BG-1-5 2-12	06/29/10	8 U	< LOD	5.11	46	46.34	8.73	18 U	< LOD	11.89	54 J	53.64	14.82	120 U	< LOD	80.3	54 J	53.58	20.35	111 U	< LOD	73.93
Mean		7			32			16			56			109			37			93		
BG-1 2-12 COMP	06/29/10	9 U	< LOD	5.86	37 J	37.44	7.5	16 U	< LOD	10.44	51 J	50.51	12.54	105 U	< LOD	69.92	32 J	32.27	16.95	91 U	< LOD	60.66
%RPD		25%			13%			0%			9%			4%			16%			2%		
BG-1-1 12-18	06/29/10	7 U	< LOD	4.47	19 J	19.28	7.23	15 U	< LOD	10.04	51 J	50.56	11.73	98 U	< LOD	65.16	30 J	29.66	15.65	84 U	< LOD	55.72
BG-1-2 12-18	06/29/10	6 U	< LOD	4.3	12 U	< LOD	7.73	15 U	< LOD	9.89	70	69.84	13.03	103 U	< LOD	68.76	43 J	42.98	16.71	88 U	< LOD	58.38
BG-1-3 12-18	06/29/10	7 U	< LOD	4.59	11 U	< LOD	7.61	15 U	< LOD	9.94	22 J	22.14	10.37	106 U	< LOD	70.41	33 U	< LOD	22.26	88 U	< LOD	58.99
BG-1-4 12-18	06/29/10	7 U	< LOD	4.58	18 J	17.59	6.26	15 U	< LOD	10.18	58 J	58.02	12.6	106 U	< LOD	70.94	35 U	< LOD	23.49	88 U	< LOD	58.88
BG-1-5 12-18	06/29/10	6 U	< LOD	3.91	11 U	< LOD	7.01	14 U	< LOD	9.06	14 J	13.7	8.47	92 U	< LOD	61.64	31 U	< LOD	20.55	79 U	< LOD	52.53
Mean		7			14			15			43			101			34			85		
BG-1 12-18 COMP	06/29/10	7 U	< LOD	4.4	9 J	8.7	5.34	15 U	< LOD	9.79	39 J	39.42	10.91	104 U	< LOD	69.18	26 J	26.47	15.49	84 U	< LOD	55.69
%RPD		6%			45%			1%			10%			3%			28%			2%		
BG-2-1 0-2	06/30/10	6 U	< LOD	4.17	77	77.22	8.53	15 U	< LOD	9.81	96	95.69	13.73	100 U	< LOD	66.42	43 J	42.6	16.23	83 U	< LOD	55.65
BG-2-2 0-2	06/30/10	7 U	< LOD	4.36	81	80.97	8.33	15 U	< LOD	9.69	84	84.15	12.74	96 U	< LOD	64.07	57 J	57.45	16.39	79 U	< LOD	52.48
BG-2-3 0-2	06/30/10	7 U	< LOD	4.57	84	84	9.87	15 U	< LOD	10.25	101	101.36	14.21	106 U	< LOD	70.59	90 J	89.73	18.61	82 U	< LOD	54.6
BG-2-4 0-2	06/30/10	6 U	< LOD	4.18	79	79.47	8.46	13 U	< LOD	8.79	103	102.53	13.43	89 U	< LOD	59.49	79 J	79.39	17.25	77 U	< LOD	51.66
BG-2-5 0-2	06/30/10	7 U	< LOD	4.45	38 J	37.88	7.58	14 U	< LOD	9.51	149	148.98	15.78	97 U	< LOD	64.77	88 J	88.07	17.71	79 U	< LOD	52.41
Mean		7			72			14			107			98			71			80		
BG-2 0-2 COMP	06/30/10	6 U	< LOD	4.23	50	50.03	7.22	15 U	< LOD	9.84	80	80.17	12.75	99 U	< LOD	66.18	47 J	47.07	15.96	78 U	< LOD	51.94
%RPD		10%			36%			4%			29%			1%			41%			3%		
BG-2-1 2-12	06/30/10	7 U	< LOD	4.72	18 J	18.34	6.22	15 U	< LOD	10.28	54 J	53.67	12.06	101 U	< LOD	67.44	39 J	38.77	16.58	85 U	< LOD	56.77
BG-2-2 2-12	06/30/10	6 U	< LOD	3.96	11 J	11.02	5.47	15 U	< LOD	9.77	61	60.77	11.82	99 U	< LOD	66.13	24 J	24.47	14.88	76 U	< LOD	50.92
BG-2-3 2-12	06/30/10	7 U	< LOD	4.65	42	42.28	7.21	15 U	< LOD	9.78	69	68.9	12.53	99 U	< LOD	66.09	48 J	48.06	16.22	79 U	< LOD	52.58
BG-2-4 2-12	06/30/10	6 U	< LOD	4.06	15 J	14.98	5.53	14 U	< LOD	9.36	83	83.4	13.16	99 U	< LOD	66.29	39 J	39.31	16	60 J	59.65	37.36
BG-2-5 2-12	06/30/10	6 U	< LOD	4.3	17 J	17.43	5.39	14 U	< LOD	9.63	82	81.89	13.32	100 U	< LOD	66.4	33 J	33.44	15.57	83 U	< LOD	55.46
Mean		6			21			15			70			100			37			77		
BG-2 2-12 COMP	06/30/10	6 U	< LOD	4.28	16 J	15.6	5.37	14 U	< LOD	9.66	55 J	55.22	11.66	102 U	< LOD	68.04	27 J	27.4	15.15	81 U	< LOD	53.82
%RPD		6%			25%			4%			24%			2%			30%			6%		
BG-2-1 12-18	06/30/10	6 U	< LOD	4.16	12 U	< LOD	7.74	14 U	< LOD	9.14	58 J	57.76	11.9	103 U	< LOD	68.54	32 U	< LOD	21.51	79 U	< LOD	52.39
BG-2-2 12-18	06/30/10	6 U	< LOD	4.17	11 U	< LOD	7.06	15 U	< LOD	9.76	49 J	49.19	11.13	96 U	< LOD	63.89	33 U	< LOD	22.18	80 U	< LOD	53.59
BG-2-3 12-18	06/30/10	6 U	< LOD	4.2	13 J	13.49	5.42	14 U	< LOD	9.55	52 J	52.22	11.76	100 U	< LOD	66.39	27 J	26.99	15.45	85 U	< LOD	56.75
BG-2-4 12-18	06/30/10	7 U	< LOD	4.77	12 U	< LOD	8.05	16 U	< LOD	10.39	42 J	41.98	11.64	109 U	< LOD	72.35	35 U	< LOD	23.56	88 U	< LOD	58.53
BG-2-5 12-18	06/30/10	6 U	< LOD	4.08	10 J	9.7	4.89	14 U	< LOD	9.17	76	76.43	12.79	96 U	< LOD	64.13	29 J	29.11	15.28	82 U	< LOD	54.44
Mean		6			12			15			55			101			31			83		
BG-2 12-18 COMP	06/30/10	6 U	< LOD	4.13	10 J	9.73	5.13	14 U	< LOD	9.33	48 J	47.8	11.56	100 U	< LOD	66.43	34 U	< LOD	22.83	79 U	< LOD	52.79
%RPD		3%			15%			4%			14%			1%			9%			5%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Selenium			Arsenic			Mercury			Zinc			Tungsten			Copper			Nickel		
					Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg						Threshold = 180 mg/Kg			Threshold = 550 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-3-1 0-2	06/29/10	6 U	< LOD	4.31	19 J	19.4	6.95	15 U	< LOD	9.85	96	96.19	13.97	100 U	< LOD	66.81	71 J	71.47	17.56	79 U	< LOD	52.64
BG-3-2 0-2	06/29/10	6 U	< LOD	4.24	76	75.96	8.3	14 U	< LOD	9.16	127	127.22	14.84	96 U	< LOD	64.05	64 J	64.32	16.92	79 U	< LOD	52.7
BG-3-3 0-2	06/29/10	7 U	< LOD	4.46	28 J	27.89	7.26	15 U	< LOD	9.99	107	107.02	14.14	101 U	< LOD	67.09	61 J	60.54	16.9	80 U	< LOD	53.08
BG-3-4 0-2	06/29/10	6 U	< LOD	4.24	68	67.79	8.69	15 U	< LOD	9.94	95	94.9	13.81	103 U	< LOD	68.88	81 J	80.72	18.04	80 U	< LOD	53.38
BG-3-5 0-2	06/29/10	7 U	< LOD	4.36	86	85.5	8.76	15 U	< LOD	9.72	113	113	14.4	102 U	< LOD	67.81	88 J	87.92	18.09	79 U	< LOD	52.88
Mean		6			55			15			108			100			73			79		
BG-3 0-2 COMP	06/29/10	7 U	< LOD	4.73	34 J	34.46	6.97	14 U	< LOD	9.6	92	91.85	13.7	100 U	< LOD	66.67	70 J	70.45	17.66	80 U	< LOD	53.46
%RPD		9%			48%			6%			16%			0%			4%			1%		
BG-3-1 2-12	06/29/10	7 U	< LOD	4.59	16 J	15.75	6.03	15 U	< LOD	10.33	86	85.79	14.18	110 U	< LOD	73.24	44 J	43.8	17.23	89 U	< LOD	59.65
BG-3-2 2-12	06/29/10	6 U	< LOD	4.08	11 J	11.33	5.68	14 U	< LOD	9.27	48 J	48.16	10.79	96 U	< LOD	64.09	32 U	< LOD	21.61	77 U	< LOD	51.61
BG-3-3 2-12	06/29/10	7 U	< LOD	4.62	12 J	11.53	5.29	14 U	< LOD	9.59	62 J	61.89	12.43	106 U	< LOD	70.62	33 J	32.73	15.97	84 U	< LOD	55.89
BG-3-4 2-12	06/29/10	6 U	< LOD	4.31	10 J	10.32	5.16	15 U	< LOD	10.18	30 J	29.71	10.62	103 U	< LOD	68.91	34 U	< LOD	22.58	84 U	< LOD	56.19
BG-3-5 2-12	06/29/10	7 U	< LOD	4.62	21 J	21.33	5.97	15 U	< LOD	10.04	70	69.85	12.95	108 U	< LOD	72.27	34 U	< LOD	22.58	86 U	< LOD	57.24
Mean		7			14			15			59			105			35			84		
BG-3 2-12 COMP	06/29/10	6 U	< LOD	4.21	12 J	12.24	5.77	15 U	< LOD	9.96	50 J	49.92	11.61	99 U	< LOD	66.12	37 J	36.9	16.16	83 U	< LOD	55.49
%RPD		10%			15%			3%			17%			6%			4%			1%		
BG-3-1 12-18	06/29/10	5 J	5.43	3.36	11 U	< LOD	7.22	14 U	< LOD	9.64	76	76.03	13.42	101 U	< LOD	67.32	35 U	< LOD	23.21	84 U	< LOD	56.15
BG-3-2 12-18	06/29/10	7 U	< LOD	4.34	12 U	< LOD	8.16	10 J	9.5	6.08	66	65.88	11.75	88 U	< LOD	58.86	32 J	32.25	15.12	78 U	< LOD	51.8
BG-3-3 12-18	06/29/10	7 U	< LOD	4.61	11 U	< LOD	7.54	15 U	< LOD	9.7	61 J	60.75	12.21	95 U	< LOD	63.54	31 J	30.73	15.96	84 U	< LOD	56.26
BG-3-4 12-18	06/29/10	6 U	< LOD	3.8	12 U	< LOD	7.77	14 U	< LOD	9.31	41 J	40.97	10.84	96 U	< LOD	64.27	29 J	28.72	15.49	81 U	< LOD	54.26
BG-3-5 12-18	06/29/10	6 U	< LOD	4.27	10 U	< LOD	6.62	14 U	< LOD	9.32	50 J	49.56	10.91	94 U	< LOD	62.53	32 U	< LOD	21.57	77 U	< LOD	51.41
Mean		6			11			13			59			95						81		
BG-3 12-18 COMP	06/29/10	7 U	< LOD	4.48	8 J	8.06	4.93	14 U	< LOD	9.48	56 J	55.91	12.26	105 U	< LOD	70.18	40 J	39.86	16.65	87 U	< LOD	57.98
%RPD		12%			33%			4%			5%			10%			23%			7%		
BG-4-1 0-2	06/28/10	7 U	< LOD	4.51	163	162.66	12.83	15 U	< LOD	9.83	166	165.76	17.09	100 U	< LOD	66.63	223	222.52	23.65	83 U	< LOD	55.15
BG-4-2 0-2	06/28/10	6 U	< LOD	3.94	45	45.2	7.52	14 U	< LOD	9.53	88	87.74	13.13	102 U	< LOD	67.88	77 J	77.32	17.37	78 U	< LOD	51.77
BG-4-3 0-2	06/28/10	6 U	< LOD	4.18	56	55.56	7.45	14 U	< LOD	9.25	96	95.77	13.39	96 U	< LOD	64.08	66 J	65.61	16.83	78 U	< LOD	51.79
BG-4-4 0-2	06/28/10	7 U	< LOD	4.51	74	74.12	9.69	15 U	< LOD	9.75	175	174.92	17.45	99 U	< LOD	66.29	147	147.32	21.16	82 U	< LOD	54.41
BG-4-5 0-2	06/28/10	6 U	< LOD	4.1	54	54.12	7.63	13 U	< LOD	8.73	162	162.28	15.52	95 U	< LOD	63.37	116	116.15	18.19	72 U	< LOD	48.06
Mean		6			78			14			137			98			126			79		
BG-4 0-2 COMP	06/28/10	6 U	< LOD	4.15	99	99.06	9.64	14 U	< LOD	9.47	122	122.32	14.98	99 U	< LOD	66.25	102	102.01	18.96	82 U	< LOD	54.93
%RPD		6%			23%			1%			12%			1%			21%			4%		
BG-4-1 2-12	06/28/10	7 U	< LOD	4.67	24 J	23.94	6.11	16 U	< LOD	10.34	46 J	46.19	12.43	107 U	< LOD	71.62	25 J	24.79	16.42	91 U	< LOD	60.51
BG-4-2 2-12	06/28/10	6 U	< LOD	4.2	63	63.18	8.24	14 U	< LOD	9.62	76	76.08	12.85	104 U	< LOD	69.01	59 J	58.91	16.82	81 U	< LOD	53.78
BG-4-3 2-12	06/28/10	6 U	< LOD	3.87	16 J	16.04	5.34	14 U	< LOD	9.33	62	61.68	11.74	94 U	< LOD	62.42	28 J	28.48	15.01	81 U	< LOD	53.9
BG-4-4 2-12	06/28/10	7 U	< LOD	4.67	28 J	27.81	6.6	15 U	< LOD	9.91	68	67.5	12.94	103 U	< LOD	68.99	33 J	32.86	16.58	89 U	< LOD	59.43
BG-4-5 2-12	06/28/10	6 U	< LOD	4.2	37	37.03	6.23	14 U	< LOD	9.38	64	63.79	11.55	99 U	< LOD	65.9	32 U	< LOD	21.02	77 U	< LOD	51.01
Mean		6			34			15			63			101			35			84		
BG-4 2-12 COMP	06/28/10	7 U	< LOD	4.64	28 J	28.47	6.42	14 U	< LOD	9.55	63	63.41	12.2	102 U	< LOD	67.73	29 J	29.41	15.56	82 U	< LOD	54.89
%RPD		9%			18%			4%			0%			1%			20%			2%		
BG-4-1 12-18	06/28/10	7 U	< LOD	4.57	23 J	23.07	6.13	15 U	< LOD	9.79	41 J	41.41	11.46	101 U	< LOD	67.61	26 J	25.82	15.63	84 U	< LOD	56.15
BG-4-2 12-18	06/28/10	6 U	< LOD	4.11	16 J	15.58	5.64	14 U	< LOD	9.04	60	59.85	11.62	100 U	< LOD	66.46	42 J	41.97	15.59	78 U	< LOD	52.33
BG-4-3 12-18	06/28/10	7 U	< LOD	4.45	12 U	< LOD	8.13	15 U	< LOD	10.02	54 J	54.09	11.98	104 U	< LOD	69.42	24 J	24.43	15.54	83 U	< LOD	55.49
BG-4-4 12-18	06/28/10	7 U	< LOD	4.95	8 J	8.37	5.37	16 U	< LOD	10.51	50 J	50.18	12.87	112 U	< LOD	74.49	37 U	< LOD	24.95	93 U	< LOD	62.27
BG-4-5 12-18	06/28/10	6 U	< LOD	3.9	10 U	< LOD	6.93	14 U	< LOD	9.21	53 J	52.67	10.79	92 U	< LOD	61.6	32 U	< LOD	21.05	76 U	< LOD	50.9
Mean		7			14			15			52			102			32			83		
BG-4 12-18 COMP	06/28/10	6 U	< LOD	4.32	12 U	< LOD	7.78	14 U	< LOD	9.65	63	63.3	12.54	104 U	< LOD	69.03	36 J	35.6	16.22	83 U	< LOD	55
%RPD		10%			14%			6%			20%			2%			11%			0%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Selenium			Arsenic			Mercury			Zinc			Tungsten			Copper			Nickel		
					Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg						Threshold = 180 mg/Kg			Threshold = 550 mg/Kg		
				Instrument			Instrument			Instrument			Instrument			Instrument			Instrument			Instrument
		Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ
BG-5-1 0-2	06/22/10	6 U	< LOD	4.01	54	54.35	7.23	14 U	< LOD	9.61	89	89.06	13.36	101 U	< LOD	67.46	32 J	31.61	15.34	80 U	< LOD	53.03
BG-5-2 0-2	06/22/10	6 U	< LOD	3.72	60	59.64	7.42	9 J	9.47	6.09	80	79.63	11.97	89 U	< LOD	59.07	62 J	61.69	15.88	71 U	< LOD	47.66
BG-5-3 0-2	06/22/10	6 U	< LOD	4.17	40	39.6	7.79	14 U	< LOD	9.25	95	95.12	13.33	95 U	< LOD	63.28	72 J	71.68	17.16	76 U	< LOD	50.6
BG-5-4 0-2	06/22/10	6 U	< LOD	4.07	32	32.24	6.3	14 U	< LOD	9.19	91	91.43	13.24	95 U	< LOD	63.51	42 J	41.77	15.73	77 U	< LOD	51.24
BG-5-5 0-2	06/22/10	6 U	< LOD	3.82	72	71.59	8.54	14 U	< LOD	9.33	108	108.12	13.73	94 U	< LOD	62.72	73 J	73.11	16.84	75 U	< LOD	49.92
Mean		6			52			13			93			95			56			76		
BG-5 0-2 COMP	06/22/10	7 U	< LOD	4.45	33	32.64	6.16	14 U	< LOD	9.59	67	66.66	12.01	98 U	< LOD	65.43	32 U	< LOD	21.56	81 U	< LOD	53.89
%RPD		15%			44%			7%			32%			3%			55%			7%		
BG-5-1 2-12	06/22/10	7 U	< LOD	4.47	7 J	7.25	4.5	14 U	< LOD	9.52	46 J	45.73	11.11	100 U	< LOD	66.79	33 U	< LOD	21.92	77 U	< LOD	51.03
BG-5-2 2-12	06/22/10	6 U	< LOD	3.79	10 U	< LOD	6.83	13 U	< LOD	8.67	35 J	34.54	9.62	90 U	< LOD	60.11	27 J	27.09	14.48	76 U	< LOD	50.63
BG-5-3 2-12	06/22/10	6 U	< LOD	4.1	30	29.81	5.92	14 U	< LOD	9.15	54 J	53.76	11.59	98 U	< LOD	65.64	33 U	< LOD	22.11	81 U	< LOD	54.01
BG-5-4 2-12	06/22/10	7 U	< LOD	4.55	12 J	12.08	5.4	15 U	< LOD	10.05	41 J	40.78	11.16	102 U	< LOD	67.75	27 J	27.32	15.69	83 U	< LOD	55.13
BG-5-5 2-12	06/22/10	7 U	< LOD	4.52	12 U	< LOD	7.89	14 U	< LOD	9.38	76	75.97	12.9	98 U	< LOD	65.53	34 U	< LOD	22.87	81 U	< LOD	54.05
Mean		7			14			14			50			98			31			80		
BG-5 2-12 COMP	06/22/10	7 U	< LOD	4.36	10 J	10.2	5.24	15 U	< LOD	10.03	61 J	60.74	12.2	101 U	< LOD	67.35	34 J	34.1	15.97	83 U	< LOD	55.3
%RPD		6%			35%			7%			19%			3%			10%			4%		
BG-5-1 12-18	06/22/10	7 U	< LOD	4.53	11 U	< LOD	7.34	14 U	< LOD	9.56	56 J	55.66	11.74	95 U	< LOD	63.06	34 U	< LOD	22.71	62 J	61.68	38.2
BG-5-2 12-18	06/22/10	6 U	< LOD	3.83	10 U	< LOD	6.58	13 U	< LOD	8.65	30 J	29.85	9.07	88 U	< LOD	58.62	25 J	24.61	14.35	70 J	69.51	34.45
BG-5-3 12-18	06/22/10	6 U	< LOD	4.03	9 J	9.44	5.26	15 U	< LOD	9.73	57 J	56.63	11.85	101 U	< LOD	67.22	26 J	25.78	15.38	82 U	< LOD	54.69
BG-5-4 12-18	06/22/10	6 U	< LOD	4.09	12 J	11.8	5.24	14 U	< LOD	9.49	46 J	45.74	11.22	102 U	< LOD	68.27	25 J	25.42	15.22	83 U	< LOD	55.04
BG-5-5 12-18	06/22/10	7 U	< LOD	4.41	11 U	< LOD	7.66	16 U	< LOD	10.76	55 J	54.5	13.35	110 U	< LOD	73.54	42 J	41.64	17.92	95 U	< LOD	63.42
Mean		6			11			14			49			99			30			78		
BG-5 12-18 COMP	06/22/10	6 U	< LOD	4.02	11 U	< LOD	7.13	15 U	< LOD	9.69	44 J	44.06	11.42	101 U	< LOD	67.12	24 J	24.11	15.48	85 U	< LOD	56.82
%RPD		6%			4%			4%			10%			2%			24%			8%		
BG-6-1 0-2	06/28/10	6 U	< LOD	4.1	50	50.44	7	13 U	< LOD	8.88	92	92.37	12.94	90 U	< LOD	60.28	48 J	47.92	15.81	76 U	< LOD	50.86
BG-6-2 0-2	06/28/10	8 U	< LOD	5.34	50	50.32	8.27	17 U	< LOD	11.3	45 J	45.38	13.68	123 U	< LOD	81.84	54 J	53.95	19.36	99 U	< LOD	66.08
BG-6-3 0-2	06/28/10	7 U	< LOD	4.63	51	50.67	8.03	16 U	< LOD	10.39	70	69.69	13.31	101 U	< LOD	67.42	65 J	65.12	18.48	91 U	< LOD	60.45
BG-6-4 0-2	06/28/10	6 U	< LOD	4.04	89	89.1	9.4	14 U	< LOD	9.58	114	113.58	14.19	99 U	< LOD	65.88	90	89.76	17.79	75 U	< LOD	49.71
BG-6-5 0-2	06/28/10	6 U	< LOD	4.27	94	93.96	10.12	14 U	< LOD	9.12	128	128.02	14.74	97 U	< LOD	64.82	166	165.5	20.76	75 U	< LOD	49.88
Mean		7			67			15			90			102			85			83		
BG-6 0-2 COMP	06/28/10	6 U	< LOD	4.1	35	35.15	6.86	15 U	< LOD	9.77	65	64.57	12.09	101 U	< LOD	67.15	42 J	42.39	15.98	80 U	< LOD	53.26
%RPD		10%			62%			1%			32%			1%			67%			4%		
BG-6-1 2-12	06/28/10	6 U	< LOD	4.01	9 J	9.04	4.96	14 U	< LOD	9.49	63	63.45	11.62	92 U	< LOD	61.48	35 J	35.45	15.3	76 U	< LOD	50.84
BG-6-2 2-12	06/28/10	7 U	< LOD	4.35	16 J	16.09	5.95	14 U	< LOD	9.54	29 J	28.97	9.9	96 U	< LOD	64.31	29 J	28.92	15.12	79 U	< LOD	52.99
BG-6-3 2-12	06/28/10	7 U	< LOD	4.34	11 J	10.73	5.7	15 U	< LOD	10.02	46 J	46.36	11.86	102 U	< LOD	67.81	39 J	38.87	16.93	89 U	< LOD	59.48
BG-6-4 2-12	06/28/10	6 U	< LOD	4.16	13 U	< LOD	8.49	14 U	< LOD	9.21	46 J	45.54	10.87	99 U	< LOD	66.2	31 J	30.89	15.34	80 U	< LOD	53.49
BG-6-5 2-12	06/28/10	7 U	< LOD	4.43	19 J	19.38	5.8	14 U	< LOD	9.66	58 J	57.79	11.9	99 U	< LOD	65.84	35 J	34.74	15.85	81 U	< LOD	53.91
Mean		7			14			14			48			98			34			81		
BG-6 2-12 COMP	06/28/10	7 U	< LOD	4.42	20 J	20.26	5.86	15 U	< LOD	9.96	58 J	58.28	11.81	100 U	< LOD	66.49	33 U	< LOD	22.3	80 U	< LOD	53.45
%RPD		6%			38%			5%			18%			2%			2%			1%		
BG-6-1 12-18	06/28/10	7 U	< LOD	4.56	8 J	8.32	5.25	15 U	< LOD	9.85	59 J	58.96	11.95	97 U	< LOD	64.73	24 J	23.78	15.28	83 U	< LOD	55.35
BG-6-2 12-18	06/28/10	7 U	< LOD	4.91	13 U	< LOD	8.55	16 U	< LOD	10.4	21 U	< LOD	13.96	105 U	< LOD	70.27	35 U	< LOD	23.28	70 J	70	40.16
BG-6-3 12-18	06/28/10	6 U	< LOD	4.05	14 J	13.71	5.67	15 U	< LOD	10.08	43 J	42.73	11.25	103 U	< LOD	68.75	35 U	< LOD	23.08	86 U	< LOD	57.21
BG-6-4 12-18	06/28/10	6 U	< LOD	4.32	9 J	8.67	4.81	14 U	< LOD	9.25	46 J	45.93	10.87	95 U	< LOD	63.42	27 J	27.06	15.72	83 U	< LOD	55.52
BG-6-5 12-18	06/28/10	6 U	< LOD	4.04	7 J	7.41	4.92	15 U	< LOD	10	52 J	52.16	11.72	106 U	< LOD	70.43	28 J	28.1	15.87	86 U	< LOD	57.08
Mean		6			10			15			44			101			30			82		
BG-6 12-18 COMP	06/28/10	6 U	< LOD	4.08	12 U	< LOD	7.8	14 U	< LOD	9.25	43 J	43.03	10.73	93 U	< LOD	62.14	29 J	29.16	15.54	82 U	< LOD	54.96
%RPD		6%			16%			7%			3%			8%			3%			0%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Selenium			Arsenic			Mercury			Zinc			Tungsten			Copper			Nickel		
					Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg						Threshold = 180 mg/Kg			Threshold = 550 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-7-1 0-2	06/27/10	9 U	< LOD	6.11	74	74.42	10.4	21 U	< LOD	13.81	49 J	49.45	16.99	146 U	< LOD	97.2	78 J	78.24	23.82	124 U	< LOD	82.36
BG-7-2 0-2	06/27/10	7 U	< LOD	4.52	49	49.05	7.38	15 U	< LOD	9.68	81	81.49	12.91	95 U	< LOD	63.45	46 J	46.31	16.17	80 U	< LOD	53.37
BG-7-3 0-2	06/27/10	6 U	< LOD	4.09	49	49.04	7.6	14 U	< LOD	9.48	76	76.36	12.91	99 U	< LOD	66.17	53 J	52.78	16.79	80 U	< LOD	53.24
BG-7-4 0-2	06/27/10	6 U	< LOD	4.27	37	36.68	7.05	14 U	< LOD	9.41	92	91.87	13.2	95 U	< LOD	63.54	58 J	58.47	16.57	80 U	< LOD	53.08
BG-7-5 0-2	06/27/10	7 U	< LOD	4.64	69	68.94	9.04	16 U	< LOD	10.48	95	94.88	14.83	110 U	< LOD	73.26	70 J	70.19	18.85	92 U	< LOD	61.27
Mean		7			56			16			79			109			61			91		
BG-7 0-2 COMP	06/27/10	7 U	< LOD	4.98	38	38.1	7.41	16 U	< LOD	10.52	56 J	56.41	13.3	106 U	< LOD	70.55	62 J	61.81	19.07	93 U	< LOD	62.06
%RPD		0%			38%			0%			34%			3%			2%			2%		
BG-7-1 2-12	06/27/10	8 U	< LOD	5.29	47	46.58	8.64	19 U	< LOD	12.6	47 J	47.31	14.76	129 U	< LOD	86.04	60 J	60.25	20.99	114 U	< LOD	75.74
BG-7-2 2-12	06/27/10	7 U	< LOD	4.43	12 U	< LOD	7.76	16 U	< LOD	10.49	39 J	39.21	11.5	109 U	< LOD	72.53	30 J	30.31	16.23	84 U	< LOD	55.77
BG-7-3 2-12	06/27/10	7 U	< LOD	4.39	12 U	< LOD	7.83	15 U	< LOD	9.91	43 J	42.85	11.09	105 U	< LOD	69.8	32 U	< LOD	21.55	81 U	< LOD	53.85
BG-7-4 2-12	06/27/10	7 U	< LOD	4.45	12 J	12.1	5.52	15 U	< LOD	9.71	74	73.5	12.64	102 U	< LOD	68.01	42 J	42.18	15.98	80 U	< LOD	53.32
BG-7-5 2-12	06/27/10	6 U	< LOD	4.32	8 J	8.2	5.42	15 U	< LOD	9.77	57 J	57.18	12.17	102 U	< LOD	68.04	35 U	< LOD	23.52	87 U	< LOD	57.78
Mean		7			18			16			52			109			40			89		
BG-7 2-12 COMP	06/27/10	6 U	< LOD	4.33	11 J	10.57	5.52	15 U	< LOD	9.75	44 J	43.71	11.33	103 U	< LOD	68.43	35 U	< LOD	23.13	85 U	< LOD	56.46
%RPD		15%			49%			6%			17%			6%			13%			5%		
BG-7-1 12-18	06/27/10	13 U	< LOD	8.72	21 U	< LOD	14.31	30 U	< LOD	20.02	45 U	< LOD	29.86	207 U	< LOD	138.06	69 U	< LOD	46.08	209 U	< LOD	139.14
BG-7-2 12-18	06/27/10	8 U	< LOD	5.24	14 U	< LOD	9.24	15 U	< LOD	9.9	44 J	44.09	11.68	103 U	< LOD	68.71	29 J	28.93	16.42	87 U	< LOD	58.22
BG-7-3 12-18	06/27/10	6 U	< LOD	4.2	12 U	< LOD	8.25	15 U	< LOD	9.86	43 J	43.06	11.3	101 U	< LOD	67.57	35 U	< LOD	23.22	84 U	< LOD	56.25
BG-7-4 12-18	06/27/10	6 U	< LOD	4.25	12 U	< LOD	7.85	14 U	< LOD	9.5	72	71.88	12.47	100 U	< LOD	66.76	24 J	23.77	15.34	82 U	< LOD	54.62
BG-7-5 12-18	06/27/10	7 U	< LOD	4.34	10 J	10.12	5.07	14 U	< LOD	9.28	62	62.13	11.91	95 U	< LOD	63.28	33 U	< LOD	22.1	81 U	< LOD	53.91
Mean		8			14			18			53			121			38			109		
BG-7 12-18 COMP	06/27/10	8 U	< LOD	5.02	13 U	< LOD	8.63	17 U	< LOD	11.16	64 J	63.98	13.89	117 U	< LOD	78.04	39 U	< LOD	25.91	97 U	< LOD	64.89
%RPD		0%			6%			3%			18%			4%			3%			11%		
BG-8-1 0-2	06/26/10	7 U	< LOD	4.42	75	75.14	9.12	13 U	< LOD	8.86	146	145.8	15.39	93 U	< LOD	61.71	127	126.96	19.36	79 U	< LOD	52.64
BG-8-2 0-2	06/26/10	7 U	< LOD	4.68	54	54.19	7.3	15 U	< LOD	10.1	79	79.07	13.41	105 U	< LOD	70.13	34 J	34.07	16.32	86 U	< LOD	57.11
BG-8-3 0-2	06/26/10	6 U	< LOD	4.16	81	80.96	8.04	13 U	< LOD	8.88	99	98.89	13.11	91 U	< LOD	60.62	47 J	47.48	15.51	74 U	< LOD	49.55
BG-8-4 0-2	06/26/10	6 U	< LOD	4.13	84	84.24	8.47	14 U	< LOD	9.54	111	111.2	14.39	103 U	< LOD	68.57	94	93.64	18.48	78 U	< LOD	52.14
BG-8-5 0-2	06/26/10	7 U	< LOD	4.41	85	84.72	9.91	14 U	< LOD	9.56	126	125.75	15.41	99 U	< LOD	65.74	154	154.45	21.45	82 U	< LOD	54.95
Mean		7			76			14			112			98			91			80		
BG-8 0-2 COMP	06/26/10	6 U	< LOD	4.33	68	67.98	8.39	14 U	< LOD	9.52	83	82.57	13.05	100 U	< LOD	66.69	73 J	72.85	17.47	78 U	< LOD	51.92
%RPD		10%			11%			1%			30%			2%			22%			2%		
BG-8-1 2-12	06/26/10	6 U	< LOD	4.18	20 J	19.97	5.51	13 U	< LOD	8.84	53 J	53.18	10.96	92 U	< LOD	61.55	24 J	24.21	14.57	80 U	< LOD	53.23
BG-8-2 2-12	06/26/10	7 U	< LOD	4.39	49	49.46	7.17	11 J	11.1	6.99	68	67.89	12.87	101 U	< LOD	67.18	35 U	< LOD	23.35	82 U	< LOD	54.58
BG-8-3 2-12	06/26/10	6 U	< LOD	4.14	12 U	< LOD	7.69	14 U	< LOD	9.58	66	66.49	12.36	99 U	< LOD	66.28	34 U	< LOD	22.68	82 U	< LOD	54.87
BG-8-4 2-12	06/26/10	7 U	< LOD	4.37	19 J	18.56	5.93	15 U	< LOD	9.74	52 J	51.68	11.38	101 U	< LOD	67.44	29 J	28.5	15.29	81 U	< LOD	53.91
BG-8-5 2-12	06/26/10	6 U	< LOD	4.33	45	45.13	6.89	15 U	< LOD	9.76	51 J	51.16	11.74	103 U	< LOD	68.4	31 J	30.61	15.87	85 U	< LOD	56.55
Mean		6			29			14			58			99			31			82		
BG-8 2-12 COMP	06/26/10	7 U	< LOD	4.41	27 J	27.43	6.17	14 U	< LOD	9.4	53 J	52.92	11.7	99 U	< LOD	66.05	33 U	< LOD	22.3	84 U	< LOD	56.2
%RPD		9%			7%			3%			9%			0%			8%			2%		
BG-8-1 12-18	06/26/10	6 U	< LOD	4.24	36	36.08	6.5	14 U	< LOD	9.29	78	78.42	12.48	99 U	< LOD	66.23	34 J	33.6	15.16	79 U	< LOD	52.82
BG-8-2 12-18	06/26/10	7 U	< LOD	4.41	11 U	< LOD	7.62	14 U	< LOD	9.58	72	71.9	13.41	103 U	< LOD	68.79	33 J	33.41	16.84	92 U	< LOD	61.33
BG-8-3 12-18	06/26/10	7 U	< LOD	4.6	12 U	< LOD	7.76	14 U	< LOD	9.54	45 J	45.28	11.04	97 U	< LOD	64.79	33 U	< LOD	22.06	80 U	< LOD	53.22
BG-8-4 12-18	06/26/10	6 U	< LOD	4.24	12 U	< LOD	7.98	15 U	< LOD	9.99	50 J	49.61	11.56	104 U	< LOD	69.3	28 J	28.36	15.76	81 U	< LOD	54.29
BG-8-5 12-18	06/26/10	7 U	< LOD	4.45	10 J	9.87	5.51	14 U	< LOD	9.16	64	63.63	12.21	97 U	< LOD	64.82	34 U	< LOD	22.51	81 U	< LOD	53.85
Mean		7			16			14			62			100			32			83		
BG-8 12-18 COMP	06/26/10	6 U	< LOD	4.21	12 U	< LOD	8.13	15 U	< LOD	10.05	53 J	52.91	11.94	104 U	< LOD	69.29	25 J	25.35	15.65	84 U	< LOD	56.24
%RPD		10%			30%			5%			15%			4%			26%			2%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Selenium			Arsenic			Mercury			Zinc			Tungsten			Copper			Nickel		
					Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg						Threshold = 180 mg/Kg			Threshold = 550 mg/Kg		
				Instrument			Instrument			Instrument			Instrument			Instrument			Instrument			Instrument
		Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ
BG-9-1 0-2	06/22/10	6 U	< LOD	4.26	82	82.39	9.09	15 U	< LOD	9.87	90	90.36	13.06	99 U	< LOD	66.06	94	94.2	18.01	75 U	< LOD	50.29
BG-9-2 0-2	06/22/10	6 U	< LOD	4.15	38	37.53	6.7	14 U	< LOD	9.05	75	75.36	12.11	96 U	< LOD	64.02	61 J	61.38	16.27	74 U	< LOD	49.45
BG-9-3 0-2	06/22/10	11 U	< LOD	7.14	21 J	20.65	8.1	22 U	< LOD	14.9	38 J	37.77	17.41	147 U	< LOD	98.23	36 J	35.85	22.76	136 U	< LOD	90.66
BG-9-4 0-2	06/22/10	7 U	< LOD	4.44	55	54.93	7.86	13 U	< LOD	8.96	81	80.61	12.62	98 U	< LOD	65.19	63 J	62.77	16.61	76 U	< LOD	50.39
BG-9-5 0-2	06/22/10	7 U	< LOD	4.83	58	58.06	8.49	16 U	< LOD	10.5	89	88.66	14.3	109 U	< LOD	72.86	86 J	86.26	19.04	86 U	< LOD	57.12
Mean		7			51			16			75			110			68			89		
BG-9 0-2 COMP	06/22/10	6 U	< LOD	4.32	63	62.72	8.61	15 U	< LOD	10.23	69	69.19	13.44	112 U	< LOD	74.54	70 J	70	18.63	88 U	< LOD	58.93
%RPD		21%			21%			6%			8%			2%			3%			2%		
BG-9-1 2-12	06/22/10	6 U	< LOD	4.33	13 J	13.35	5.08	14 U	< LOD	9.19	63	63.19	11.72	91 U	< LOD	60.39	39 J	38.84	15.66	79 U	< LOD	52.87
BG-9-2 2-12	06/22/10	6 U	< LOD	3.99	11 U	< LOD	7.12	14 U	< LOD	9.01	62	62.05	11.49	96 U	< LOD	64.33	29 J	28.95	14.59	77 U	< LOD	51.27
BG-9-3 2-12	06/22/10	6 U	< LOD	4.3	11 U	< LOD	7.19	15 U	< LOD	10.33	59 J	58.91	12.52	101 U	< LOD	67.49	33 J	32.53	16.12	87 U	< LOD	58.26
BG-9-4 2-12	06/22/10	6 U	< LOD	4.26	10 J	10.37	5.12	15 U	< LOD	10.1	58 J	58.45	12.6	109 U	< LOD	72.82	35 U	< LOD	23.63	88 U	< LOD	58.67
BG-9-5 2-12	06/22/10	7 U	< LOD	4.62	14 J	13.51	5.73	15 U	< LOD	10.04	59 J	59.02	12.46	101 U	< LOD	67.6	28 J	28.17	15.82	85 U	< LOD	56.62
Mean		6			12			15			60			100			33			83		
BG-9 2-12 COMP	06/22/10	6 U	< LOD	3.87	11 J	10.65	5.1	14 U	< LOD	9.19	68	68.07	12.2	92 U	< LOD	61	33 U	< LOD	21.98	81 U	< LOD	54.13
%RPD		3%			7%			4%			12%			8%			1%			3%		
BG-9-1 12-18	06/22/10	7 U	< LOD	4.42	9 J	9.36	5.32	14 U	< LOD	9.42	51 J	50.65	11.34	103 U	< LOD	68.4	33 U	< LOD	22.14	80 U	< LOD	53.18
BG-9-2 12-18	06/22/10	6 U	< LOD	3.89	8 J	8.37	5.09	14 U	< LOD	9.17	46 J	46.21	10.84	95 U	< LOD	63.28	25 J	25.42	14.92	79 U	< LOD	52.76
BG-9-3 12-18	06/22/10	6 U	< LOD	4.3	10 U	< LOD	6.98	15 U	< LOD	10.2	48 J	47.65	11.97	105 U	< LOD	69.7	28 J	27.8	16.15	86 U	< LOD	57.19
BG-9-4 12-18	06/22/10	6 U	< LOD	4.25	16 J	15.53	5.71	15 U	< LOD	9.71	52 J	52.27	11.85	101 U	< LOD	67.43	34 U	< LOD	22.91	86 U	< LOD	57.32
BG-9-5 12-18	06/22/10	6 U	< LOD	4.04	10 U	< LOD	6.71	15 U	< LOD	9.7	36 J	35.62	10.83	101 U	< LOD	67.06	35 U	< LOD	23.14	83 U	< LOD	55.12
Mean		6			11			15			47			101			31			83		
BG-9 12-18 COMP	06/22/10	7 U	< LOD	4.51	9 J	9.23	4.88	14 U	< LOD	9.41	51 J	50.89	11.38	94 U	< LOD	62.59	26 J	26.47	15.33	80 U	< LOD	53.62
%RPD		12%			16%			4%			9%			7%			18%			3%		
BG-10-1 0-2	06/23/10	6 U	< LOD	4.03	64	63.63	7.55	14 U	< LOD	9.35	110	109.99	13.81	94 U	< LOD	62.91	50 J	49.91	15.93	78 U	< LOD	51.79
BG-10-2 0-2	06/23/10	7 U	< LOD	4.39	141	140.84	12.04	15 U	< LOD	9.77	122	122.4	15.75	101 U	< LOD	67.52	182	182	23.01	87 U	< LOD	57.89
BG-10-3 0-2	06/23/10	7 U	< LOD	4.45	64	63.61	8.15	15 U	< LOD	9.93	73	73.32	12.82	105 U	< LOD	69.94	81 J	81.45	18.29	83 U	< LOD	55.54
BG-10-4 0-2	06/23/10	6 U	< LOD	4.33	41	40.69	6.92	15 U	< LOD	9.77	48 J	48.17	11.48	102 U	< LOD	68.21	52 J	52.21	16.78	83 U	< LOD	55.58
BG-10-5 0-2	06/23/10	7 U	< LOD	4.86	99	99.23	9.93	16 U	< LOD	10.56	67 J	67.19	13.79	114 U	< LOD	76.2	55 J	55.32	18.27	94 U	< LOD	62.48
Mean		7			82			15			84			103			84			85		
BG-10 0-2 COMP	06/23/10	7 U	< LOD	4.77	77	77.35	8.6	15 U	< LOD	9.9	81	80.85	13.31	97 U	< LOD	64.67	87 J	87.27	18.63	84 U	< LOD	56.03
%RPD		6%			6%			0%			4%			6%			4%			1%		
BG-10-1 2-12	06/23/10	6 U	< LOD	4.01	11 U	< LOD	7.51	13 U	< LOD	8.99	44 J	44.19	10.4	92 U	< LOD	61.47	32 U	< LOD	21.4	78 U	< LOD	51.82
BG-10-2 2-12	06/23/10	7 U	< LOD	4.42	10 J	10.48	5.83	15 U	< LOD	10	58 J	58.17	12.72	104 U	< LOD	69.48	36 U	< LOD	24.22	91 U	< LOD	60.35
BG-10-3 2-12	06/23/10	6 U	< LOD	4.2	9 J	9.07	5.13	14 U	< LOD	9.18	76	76.26	12.22	93 U	< LOD	61.94	27 J	27.21	14.87	79 U	< LOD	52.47
BG-10-4 2-12	06/23/10	7 U	< LOD	4.74	29 J	28.64	6.14	14 U	< LOD	9.09	44 J	44.34	10.78	94 U	< LOD	62.49	32 U	< LOD	21.55	79 U	< LOD	52.8
BG-10-5 2-12	06/23/10	7 U	< LOD	4.41	13 J	12.62	6.09	16 U	< LOD	10.35	75	74.95	13.63	106 U	< LOD	70.57	37 J	36.86	16.59	89 U	< LOD	59.49
Mean		7			14			14			59			98			33			83		
BG-10 2-12 COMP	06/23/10	6 U	< LOD	4.1	9 J	8.5	5.07	15 U	< LOD	9.95	53 J	52.5	11.61	98 U	< LOD	65.16	30 J	30.47	15.58	82 U	< LOD	54.45
%RPD		10%			46%			4%			11%			0%			9%			1%		
BG-10-1 12-18	06/23/10	6 U	< LOD	4.23	11 U	< LOD	7.61	14 U	< LOD	9.12	50 J	50.31	11.38	94 U	< LOD	62.79	33 U	< LOD	22.05	81 U	< LOD	54.21
BG-10-2 12-18	06/23/10	7 U	< LOD	4.58	12 J	11.78	5.52	15 U	< LOD	10.24	71	70.6	13.41	107 U	< LOD	71.29	34 J	33.67	16.52	90 U	< LOD	59.78
BG-10-3 12-18	06/23/10	6 U	< LOD	3.67	7 J	7.46	4.71	14 U	< LOD	9.4	44 J	43.99	10.44	99 U	< LOD	66.17	32 U	< LOD	21.44	74 U	< LOD	49.21
BG-10-4 12-18	06/23/10	6 U	< LOD	4.17	11 U	< LOD	7.49	15 U	< LOD	9.73	26 J	26.31	9.99	100 U	< LOD	66.78	31 U	< LOD	20.96	84 U	< LOD	56.31
BG-10-5 12-18	06/23/10	7 U	< LOD	4.54	13 U	< LOD	8.62	15 U	< LOD	10.19	76	76.32	13.54	107 U	< LOD	71.55	38 J	37.7	16.44	85 U	< LOD	56.69
Mean		6			11			15			53			101			34			83		
BG-10 12-18 COMP	06/23/10	6 U	< LOD	4.08	12 U	< LOD	7.77	14 U	< LOD	9.36	64	64.21	12.39	100 U	< LOD	66.76	34 U	< LOD	22.87	83 U	< LOD	55.36
%RPD		6%			11%			4%			18%			1%			1%			0%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Selenium			Arsenic			Mercury			Zinc			Tungsten			Copper			Nickel		
					Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg						Threshold = 180 mg/Kg			Threshold = 550 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-11-1 0-2	06/27/10	7 U	< LOD	4.47	105	105.49	10.33	14 U	< LOD	9.54	96	95.54	13.39	104 U	< LOD	69.04	148	147.59	20.16	76 U	< LOD	50.61
BG-11-2 0-2	06/27/10	6 U	< LOD	4.17	74	73.84	8.03	13 U	< LOD	8.65	77	77.47	12.23	93 U	< LOD	62.28	65 J	65.05	16.56	77 U	< LOD	51.05
BG-11-3 0-2	06/27/10	7 U	< LOD	4.34	78	77.52	8.51	14 U	< LOD	9.11	86	86.35	12.89	95 U	< LOD	63.52	62 J	61.79	16.7	81 U	< LOD	54.1
BG-11-4 0-2	06/27/10	6 U	< LOD	4.13	97	96.88	9.38	13 U	< LOD	8.81	93	92.75	12.87	95 U	< LOD	63.44	99	99.35	17.89	74 U	< LOD	49.65
BG-11-5 0-2	06/27/10	6 U	< LOD	4.12	55	54.73	7.58	14 U	< LOD	9.46	126	126	15.46	100 U	< LOD	66.67	83 J	82.85	18.45	87 U	< LOD	57.69
Mean		6			82			14			96			97			91			79		
BG-11 0-2 COMP	06/27/10	7 U	< LOD	4.47	59	58.53	7.51	13 U	< LOD	8.98	78	78.2	12.5	96 U	< LOD	64	56 J	56.26	16.43	80 U	< LOD	53.35
%RPD		9%			32%			5%			20%			1%			48%			1%		
BG-11-1 2-12	06/27/10	7 U	< LOD	4.44	26 J	25.94	6.62	14 U	< LOD	9.42	64	64.43	11.96	100 U	< LOD	66.63	28 J	27.84	15.21	59 J	58.57	36.58
BG-11-2 2-12	06/27/10	6 U	< LOD	4.06	11 U	< LOD	7.43	14 U	< LOD	9.43	51 J	50.99	11.3	98 U	< LOD	65.53	34 U	< LOD	22.41	82 U	< LOD	54.89
BG-11-3 2-12	06/27/10	7 U	< LOD	4.43	18 J	18.28	6.47	14 U	< LOD	9.6	54 J	53.64	11.79	100 U	< LOD	66.75	26 J	25.53	15.49	82 U	< LOD	54.85
BG-11-4 2-12	06/27/10	6 U	< LOD	4.09	10 J	10.49	5.07	15 U	< LOD	9.8	48 J	48	11.33	100 U	< LOD	66.61	34 U	< LOD	22.82	82 U	< LOD	54.93
BG-11-5 2-12	06/27/10	6 U	< LOD	4.02	14 J	14.42	5.25	14 U	< LOD	9.59	33 J	32.67	10.32	100 U	< LOD	66.75	33 U	< LOD	22.33	79 U	< LOD	52.9
Mean		6			16			14			50			100			31			77		
BG-11 2-12 COMP	06/27/10	6 U	< LOD	4	12 J	11.76	5.44	15 U	< LOD	9.7	54 J	53.57	11.56	98 U	< LOD	65.62	33 U	< LOD	21.97	77 U	< LOD	51.25
%RPD		6%			27%			5%			8%			2%			6%			0%		
BG-11-1 12-18	06/27/10	6 U	< LOD	4.13	12 U	< LOD	8.14	14 U	< LOD	9.41	55 J	54.59	11.54	102 U	< LOD	67.88	31 U	< LOD	20.85	80 U	< LOD	53.56
BG-11-2 12-18	06/27/10	7 U	< LOD	4.57	8 J	8.24	5.47	15 U	< LOD	9.96	57 J	57.16	12.58	107 U	< LOD	71.6	36 U	< LOD	23.68	88 U	< LOD	58.79
BG-11-3 12-18	06/27/10	7 U	< LOD	4.43	13 J	13.23	5.87	15 U	< LOD	10	60 J	60.07	12.3	103 U	< LOD	68.82	34 U	< LOD	22.84	83 U	< LOD	55.25
BG-11-4 12-18	06/27/10	6 U	< LOD	3.8	10 U	< LOD	6.92	14 U	< LOD	9.32	41 J	41.08	10.72	97 U	< LOD	64.82	33 U	< LOD	21.89	80 U	< LOD	53.14
BG-11-5 12-18	06/27/10	7 U	< LOD	4.46	8 J	8.28	5.28	15 U	< LOD	9.94	43 J	43.19	11.48	103 U	< LOD	68.78	30 J	30.35	16.34	86 U	< LOD	57.19
Mean		7			10			15			51			102			33			83		
BG-11 12-18 COMP	06/27/10	7 U	< LOD	4.45	11 J	11.08	5.49	15 U	< LOD	9.81	43 J	42.72	11.5	104 U	< LOD	69.34	33 U	< LOD	22.06	88 U	< LOD	58.68
%RPD		6%			8%			3%			17%			2%			1%			5%		
BG-12-1 0-2	06/26/10	6 U	< LOD	4.18	37 J	36.75	7.52	14 U	< LOD	9.52	114	113.99	14.81	104 U	< LOD	69.43	52 J	51.63	16.89	80 U	< LOD	53.09
BG-12-2 0-2	06/26/10	6 U	< LOD	3.97	80	80.37	8.1	13 U	< LOD	8.75	120	120.02	14.42	92 U	< LOD	61.19	60 J	59.74	16.43	78 U	< LOD	52.31
BG-12-3 0-2	06/26/10	6 U	< LOD	3.9	88	87.96	8.48	14 U	< LOD	9.53	116	116.18	14.14	96 U	< LOD	63.85	53 J	53.43	16.02	79 U	< LOD	52.38
BG-12-4 0-2	06/26/10	7 U	< LOD	4.4	114	114.49	10.23	14 U	< LOD	9.37	150	149.71	15.74	95 U	< LOD	63.13	126	126.01	19.52	79 U	< LOD	52.65
BG-12-5 0-2	06/26/10	6 U	< LOD	3.94	94	94.42	9.15	14 U	< LOD	9.45	131	131.47	15	97 U	< LOD	64.77	119	118.73	19.07	77 U	< LOD	51.05
Mean		6			83			14			126			97			82			79		
BG-12 0-2 COMP	06/26/10	6 U	< LOD	4.25	70	69.75	8.03	15 U	< LOD	10.02	83	83.15	13.16	102 U	< LOD	67.82	48 J	48.22	16.45	83 U	< LOD	55.23
%RPD		3%			17%			8%			41%			5%			52%			5%		
BG-12-1 2-12	06/26/10	6 U	< LOD	4.25	40	39.85	7.3	15 U	< LOD	9.69	70	69.6	12.55	97 U	< LOD	64.5	40 J	39.88	16.15	80 U	< LOD	53.42
BG-12-2 2-12	06/26/10	7 U	< LOD	4.38	14 U	< LOD	9.12	15 U	< LOD	10.31	66	65.65	13.08	110 U	< LOD	73.3	29 J	28.81	16.36	62 J	61.67	40.06
BG-12-3 2-12	06/26/10	7 U	< LOD	4.35	12 U	< LOD	7.76	15 U	< LOD	9.88	56 J	55.95	11.94	101 U	< LOD	67.17	34 U	< LOD	22.6	85 U	< LOD	56.76
BG-12-4 2-12	06/26/10	6 U	< LOD	3.87	17 J	16.8	5.21	13 U	< LOD	8.62	52 J	52.1	10.76	87 U	< LOD	57.9	31 U	< LOD	20.79	74 U	< LOD	49.03
BG-12-5 2-12	06/26/10	6 U	< LOD	4.31	11 J	10.89	5.34	15 U	< LOD	9.94	46 J	45.68	11.16	101 U	< LOD	67.35	27 J	27.35	15.3	58 J	58.06	37.38
Mean		6			19			15			58			99			32			72		
BG-12 2-12 COMP	06/26/10	6 U	< LOD	3.92	21 J	20.62	5.92	14 U	< LOD	9.43	71	71.11	12.45	100 U	< LOD	66.35	35 J	35.07	15.57	82 U	< LOD	54.42
%RPD		6%			11%			4%			20%			1%			8%			13%		
BG-12-1 12-18	06/26/10	7 U	< LOD	4.59	11 U	< LOD	7.54	14 U	< LOD	9.64	43 J	42.93	11.02	101 U	< LOD	67.56	33 U	< LOD	21.87	83 U	< LOD	55.52
BG-12-2 12-18	06/26/10	6 U	< LOD	4.19	12 U	< LOD	8.32	15 U	< LOD	10.02	73	73.28	13.05	103 U	< LOD	68.86	29 J	29.28	15.78	83 U	< LOD	55.33
BG-12-3 12-18	06/26/10	7 U	< LOD	4.36	12 U	< LOD	7.87	15 U	< LOD	9.79	50 J	49.9	11.84	107 U	< LOD	71	26 J	25.81	15.77	84 U	< LOD	55.83
BG-12-4 12-18	06/26/10	7 U	< LOD	4.37	11 J	10.5	5.25	14 U	< LOD	9.53	53 J	52.61	11.42	96 U	< LOD	64.32	31 U	< LOD	20.92	83 U	< LOD	55.07
BG-12-5 12-18	06/26/10	7 U	< LOD	4.81	12 U	< LOD	7.72	15 U	< LOD	10.14	48 J	47.92	12.18	102 U	< LOD	67.81	30 J	29.65	16.21	89 U	< LOD	59.41
Mean		7			12			15			53			102			30			84		
BG-12 12-18 COMP	06/26/10	6 U	< LOD	4.29	12 U	< LOD	7.96	15 U	< LOD	9.73	55 J	55.11	12.06	102 U	< LOD	67.88	28 J	28.39	15.74	82 U	< LOD	54.62
%RPD		13%			3%			3%			3%			0%			6%			3%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Selenium			Arsenic			Mercury			Zinc			Tungsten			Copper			Nickel		
					Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg						Threshold = 180 mg/Kg			Threshold = 550 mg/Kg		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-13-1 0-2	06/22/10	7 U	< LOD	4.96	74	73.85	9.89	17 U	< LOD	11.57	95	94.75	16.25	122 U	< LOD	81.18	96 J	95.93	21.63	100 U	< LOD	66.77
BG-13-2 0-2	06/22/10	7 U	< LOD	4.49	25 J	25.37	6.25	15 U	< LOD	10.12	76	75.81	12.94	100 U	< LOD	66.44	46 J	45.7	16.65	83 U	< LOD	55.32
BG-13-3 0-2	06/22/10	6 U	< LOD	3.74	48	47.55	7.1	13 U	< LOD	8.68	71	71.23	11.81	90 U	< LOD	59.76	56 J	55.94	16.09	76 U	< LOD	50.58
BG-13-4 0-2	06/22/10	6 U	< LOD	4.17	32	32.48	6.21	14 U	< LOD	9.03	66	66.13	11.53	92 U	< LOD	61.41	33 J	32.79	14.85	76 U	< LOD	50.94
BG-13-5 0-2	06/22/10	6 U	< LOD	3.9	37	37.09	6.24	13 U	< LOD	8.71	76	76.1	11.88	94 U	< LOD	62.53	33 J	32.77	14.66	75 U	< LOD	50.27
Mean		6			43			14			77			100			53			82		
BG-13 0-2 COMP	06/22/10	6 U	< LOD	3.9	35	35.25	6.4	14 U	< LOD	9.56	65	64.74	11.88	100 U	< LOD	66.75	34 J	33.58	15.23	77 U	< LOD	51.29
%RPD		6%			21%			3%			17%			0%			43%			6%		
BG-13-1 2-12	06/22/10	8 U	< LOD	5.26	38	37.94	7.29	17 U	< LOD	11.21	61 J	61.13	14.49	118 U	< LOD	78.4	46 J	45.97	18.83	103 U	< LOD	68.82
BG-13-2 2-12	06/22/10	6 U	< LOD	4.09	10 J	10.46	5.35	14 U	< LOD	9.56	59 J	59.48	12.13	99 U	< LOD	66.01	33 J	33.02	15.72	82 U	< LOD	54.77
BG-13-3 2-12	06/22/10	6 U	< LOD	4.23	11 U	< LOD	7.39	15 U	< LOD	9.82	31 J	30.97	9.93	100 U	< LOD	66.64	32 U	< LOD	21.18	78 U	< LOD	52.15
BG-13-4 2-12	06/22/10	7 U	< LOD	4.45	11 U	< LOD	7.09	14 U	< LOD	9.05	40 J	40.11	10.45	98 U	< LOD	65.58	31 U	< LOD	20.52	80 U	< LOD	53.47
BG-13-5 2-12	06/22/10	6 U	< LOD	4.26	8 J	7.87	4.88	14 U	< LOD	9.41	50 J	49.77	11.17	100 U	< LOD	66.54	34 U	< LOD	22.44	81 U	< LOD	53.7
Mean		7			16			15			48			103			35			85		
BG-13 2-12 COMP	06/22/10	6 U	< LOD	4.12	15 J	15.46	5.71	15 U	< LOD	10.13	51 J	51.18	12.18	104 U	< LOD	69.55	24 J	23.98	15.78	85 U	< LOD	56.61
%RPD		10%			4%			1%			6%			1%			38%			0%		
BG-13-1 12-18	06/22/10	7 U	< LOD	4.49	20 J	20.26	5.86	15 U	< LOD	9.77	63 J	63.39	12.92	101 U	< LOD	67.44	53 J	53.37	17.58	89 U	< LOD	59.17
BG-13-2 12-18	06/22/10	7 U	< LOD	4.58	11 U	< LOD	7.66	15 U	< LOD	9.82	62	62.09	12.21	103 U	< LOD	68.72	26 J	26.31	15.6	85 U	< LOD	56.82
BG-13-3 12-18	06/22/10	7 U	< LOD	4.46	11 U	< LOD	7.66	15 U	< LOD	10.22	53 J	53.46	11.66	105 U	< LOD	70	36 J	35.54	16.1	80 U	< LOD	53.04
BG-13-4 12-18	06/22/10	6 U	< LOD	4.26	8 J	8.43	4.82	14 U	< LOD	9.35	42 J	41.95	10.26	93 U	< LOD	62.16	31 U	< LOD	20.62	67 J	67.13	35.98
BG-13-5 12-18	06/22/10	6 U	< LOD	4.17	12 U	< LOD	7.7	14 U	< LOD	9.59	50 J	49.87	11.31	101 U	< LOD	67.64	24 J	24.26	14.94	80 U	< LOD	53.02
Mean		7			12			15			54			101			34			80		
BG-13 12-18 COMP	06/22/10	7 U	< LOD	4.47	11 U	< LOD	7.43	14 U	< LOD	9.49	56 J	55.8	11.54	96 U	< LOD	63.74	33 J	33.43	15.69	59 J	58.53	37.53
%RPD		6%			12%			4%			4%			5%			3%			30%		
BG-14-1 0-2	06/23/10	7 U	< LOD	4.94	32 J	31.8	7.06	16 U	< LOD	10.35	54 J	53.96	12.46	107 U	< LOD	71.17	42 J	41.84	17.3	91 U	< LOD	60.74
BG-14-2 0-2	06/23/10	6 U	< LOD	4.31	22 J	22.18	6.73	15 U	< LOD	9.99	88	87.64	13.75	99 U	< LOD	65.77	59 J	58.58	17.42	83 U	< LOD	55.36
BG-14-3 0-2	06/23/10	6 U	< LOD	4.28	76	75.65	8.98	14 U	< LOD	9.23	110	109.58	13.99	98 U	< LOD	65.11	106	105.82	18.6	78 U	< LOD	51.89
BG-14-4 0-2	06/23/10	6 U	< LOD	4.18	45	44.96	7.29	15 U	< LOD	9.99	68	68.07	12.32	100 U	< LOD	66.94	65 J	65.34	17.08	77 U	< LOD	51.48
BG-14-5 0-2	06/23/10	6 U	< LOD	4.26	98	97.68	9.22	14 U	< LOD	9.3	98	97.58	13.39	96 U	< LOD	64.29	83 J	83.23	17.59	77 U	< LOD	51.1
Mean		6			55			15			84			100			71			81		
BG-14 0-2 COMP	06/23/10	6 U	< LOD	4.15	39	38.77	6.93	14 U	< LOD	9.29	98	98.23	13.55	97 U	< LOD	64.64	43 J	42.77	15.93	80 U	< LOD	53.63
%RPD		3%			33%			6%			16%			3%			49%			1%		
BG-14-1 2-12	06/23/10	7 U	< LOD	4.46	11 U	< LOD	7.53	15 U	< LOD	10.24	32 J	32.01	11.15	106 U	< LOD	70.41	35 U	< LOD	23.17	88 U	< LOD	58.53
BG-14-2 2-12	06/23/10	7 U	< LOD	4.41	25 J	24.81	6.24	15 U	< LOD	10.01	59 J	58.69	11.99	104 U	< LOD	69.1	34 U	< LOD	22.35	82 U	< LOD	54.89
BG-14-3 2-12	06/23/10	6 U	< LOD	4.11	11 U	< LOD	7.56	14 U	< LOD	9.18	41 J	41.46	10.3	95 U	< LOD	63.51	31 U	< LOD	20.92	78 U	< LOD	52.13
BG-14-4 2-12	06/23/10	7 U	< LOD	4.44	20 J	19.54	6	15 U	< LOD	10.01	65	64.68	12.59	99 U	< LOD	66.21	34 U	< LOD	22.99	83 U	< LOD	55.26
BG-14-5 2-12	06/23/10	6 U	< LOD	3.96	8 J	8.17	5.44	13 U	< LOD	8.94	43 J	43.1	10.17	91 U	< LOD	60.85	27 J	26.57	14.7	79 U	< LOD	52.83
01/00/00		7			15			14			48			99			32			82		
BG-14 2-12 COMP	06/23/10	7 U	< LOD	4.44	9 J	8.5	5.29	14 U	< LOD	9.22	46 J	45.84	10.81	97 U	< LOD	64.35	28 J	27.98	15.08	77 U	< LOD	51.6
%RPD		6%			50%			3%			4%			2%			14%			6%		
BG-14-1 12-18	06/23/10	6 U	< LOD	4.02	11 U	< LOD	7.24	13 U	< LOD	8.78	17 J	17.42	8.27	95 U	< LOD	63.37	30 U	< LOD	19.74	72 U	< LOD	47.87
BG-14-2 12-18	06/23/10	6 U	< LOD	4.32	11 J	11.07	5.49	14 U	< LOD	9.52	43 J	43.15	10.78	99 U	< LOD	66.01	34 J	33.92	15.75	60 J	60.04	36.56
BG-14-3 12-18	06/23/10	7 U	< LOD	4.38	9 J	9.02	5.12	14 U	< LOD	9.26	72	72.35	12.37	97 U	< LOD	64.82	37 J	36.86	15.55	80 U	< LOD	53.08
BG-14-4 12-18	06/23/10	7 U	< LOD	4.94	13 J	13.07	5.61	15 U	< LOD	9.95	78	77.67	13.1	100 U	< LOD	66.6	26 J	25.97	15.6	58 J	57.88	38.38
BG-14-5 12-18	06/23/10	7 U	< LOD	4.69	12 U	< LOD	7.99	16 U	< LOD	10.38	52 J	52.01	11.86	107 U	< LOD	71.5	35 U	< LOD	23.08	84 U	< LOD	55.86
Mean		7			11			14			52			100			32			71		
BG-14 12-18 COMP	06/23/10	6 U	< LOD	4.26	11 U	< LOD	7.11	16 U	< LOD	10.36	53 J	52.71	11.61	104 U	< LOD	69.08	32 U	< LOD	21.57	82 U	< LOD	54.66
%RPD		10%			2%			11%			1%			4%			1%			15%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Selenium			Arsenic			Mercury			Zinc			Tungsten			Copper			Nickel		
					Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg						Threshold = 180 mg/Kg			Threshold = 550 mg/Kg		
				Instrument			Instrument			Instrument			Instrument			Instrument			Instrument			Instrument
		Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ	Concentration	Reading	2σ
BG-15-1 0-2	06/25/10	6 U	< LOD	4.25	9 J	9.19	4.73	14 U	< LOD	9.5	69	68.69	12.31	102 U	< LOD	67.82	29 J	28.59	15.09	79 U	< LOD	52.57
BG-15-2 0-2	06/25/10	7 U	< LOD	4.46	33	32.54	6.42	14 U	< LOD	9.06	38 J	38.3	10.23	98 U	< LOD	65.63	25 J	24.83	14.66	77 U	< LOD	51.14
BG-15-3 0-2	06/25/10	6 U	< LOD	3.89	72	72.4	8.06	14 U	< LOD	9.05	91	91.05	13.19	96 U	< LOD	63.77	53 J	52.65	16.38	80 U	< LOD	53.41
BG-15-4 0-2	06/25/10	6 U	< LOD	4.21	105	104.85	9.67	14 U	< LOD	9.06	99	98.64	13.23	91 U	< LOD	60.37	126	125.76	19.04	77 U	< LOD	51.39
BG-15-5 0-2	06/25/10	7 U	< LOD	4.4	75	75.39	10.27	14 U	< LOD	9.06	254	254.39	18.82	99 U	< LOD	66.08	248	247.55	22.89	74 U	< LOD	49.26
Mean		6			59			14			110			97			96			77		
BG-15 0-2 COMP	06/25/10	6 U	< LOD	4.11	39	39.26	6.75	14 U	< LOD	9.41	66	66.17	11.66	95 U	< LOD	63.01	39 J	38.78	15.22	75 U	< LOD	50.22
%RPD		6%			40%			0%			50%			2%			85%			3%		
BG-15-1 2-12	06/25/10	6 U	< LOD	4.08	11 U	< LOD	7.45	14 U	< LOD	9.25	42 J	42.37	10.27	97 U	< LOD	64.37	24 J	24.24	14.35	76 U	< LOD	50.63
BG-15-2 2-12	06/25/10	6 U	< LOD	3.82	13 J	13.14	5.26	13 U	< LOD	8.36	45 J	44.62	10.08	86 U	< LOD	57.15	30 U	< LOD	20.26	73 U	< LOD	48.58
BG-15-3 2-12	06/25/10	6 U	< LOD	4.28	36	36.11	6.31	14 U	< LOD	9.53	54 J	54.43	11.48	100 U	< LOD	66.91	43 J	43.47	16.06	82 U	< LOD	54.79
BG-15-4 2-12	06/25/10	6 U	< LOD	4.09	13 J	13.38	5.14	13 U	< LOD	8.76	32 J	32.27	9.67	94 U	< LOD	62.81	31 U	< LOD	20.76	78 U	< LOD	51.67
BG-15-5 2-12	06/25/10	6 U	< LOD	3.84	52	51.94	6.96	13 U	< LOD	8.79	67	66.74	11.73	97 U	< LOD	64.54	46 J	45.61	15.62	76 U	< LOD	50.98
Mean		6			25			13			48			95			35			77		
BG-15 2-12 COMP	06/25/10	6 U	< LOD	4.24	27 J	26.75	6.03	14 U	< LOD	9.33	57 J	56.94	11.44	96 U	< LOD	64.07	40 J	40.34	15.65	77 U	< LOD	51.08
%RPD		0%			8%			4%			17%			1%			14%			0%		
BG-15-1 12-18	06/25/10	5 U	< LOD	3.65	10 U	< LOD	6.67	13 U	< LOD	8.67	37 J	36.57	9.39	92 U	< LOD	61.01	25 J	25.29	13.92	73 U	< LOD	48.4
BG-15-2 12-18	06/25/10	6 U	< LOD	3.97	10 U	< LOD	6.95	13 U	< LOD	8.75	24 J	23.59	8.59	88 U	< LOD	58.96	29 U	< LOD	19.49	71 U	< LOD	47.16
BG-15-3 12-18	06/25/10	7 U	< LOD	4.55	10 J	9.6	5.17	15 U	< LOD	9.97	56 J	56.14	12.26	108 U	< LOD	71.92	35 U	< LOD	23.19	85 U	< LOD	56.59
BG-15-4 12-18	06/25/10	6 U	< LOD	4.25	19 J	19.38	5.73	13 U	< LOD	8.9	49 J	48.58	10.81	96 U	< LOD	63.91	27 J	27.19	14.87	81 U	< LOD	54.06
BG-15-5 12-18	06/25/10	6 U	< LOD	3.94	21 J	21.15	5.75	14 U	< LOD	9.18	70	70	11.92	96 U	< LOD	63.89	29 J	28.78	14.9	79 U	< LOD	52.72
Mean		6			14			14			47			96			29			78		
BG-15 12-18 COMP	06/25/10	6 U	< LOD	4.18	11 U	< LOD	7.54	14 U	< LOD	9.13	47 J	46.61	10.84	95 U	< LOD	63.17	33 U	< LOD	22.16	80 U	< LOD	53.26
%RPD		0%			24%			3%			0%			1%			13%			3%		
BG-16-1 0-2	06/25/10	7 U	< LOD	4.95	48 J	47.5	9.54	16 U	< LOD	10.4	138	137.99	16.06	107 U	< LOD	71.21	73 J	73.05	18.21	84 U	< LOD	56.29
BG-16-2 0-2	06/25/10	7 U	< LOD	4.6	72	71.63	9.17	16 U	< LOD	10.45	150	150.39	16.55	103 U	< LOD	68.88	66 J	66.42	17.94	84 U	< LOD	55.97
BG-16-3 0-2	06/26/10	6 U	< LOD	4.26	63	62.99	7.87	14 U	< LOD	9.17	121	120.69	14.16	95 U	< LOD	63.21	55 J	55.16	15.89	77 U	< LOD	51.24
BG-16-4 0-2	06/26/10	7 U	< LOD	4.36	40 J	40.37	8.15	14 U	< LOD	9.16	157	156.53	16.47	98 U	< LOD	65.65	298	297.96	25.92	76 U	< LOD	50.84
BG-16-5 0-2	06/26/10	6 U	< LOD	4.32	111	110.93	11.21	14 U	< LOD	9.41	98	98.32	13.45	95 U	< LOD	63.57	164	164.31	20.75	77 U	< LOD	51.58
Mean		7			67			15			133			100			131			80		
BG-16 0-2 COMP	06/26/10	6 U	< LOD	3.94	49	48.95	7.68	14 U	< LOD	9.58	96	95.62	13.58	99 U	< LOD	65.9	106	105.62	18.83	78 U	< LOD	51.87
%RPD		10%			31%			6%			32%			1%			21%			2%		
BG-16-1 2-12	06/25/10	7 U	< LOD	4.65	25 J	24.96	6.21	15 U	< LOD	9.87	60 J	60.38	12.26	104 U	< LOD	69.17	33 J	33.15	16	81 U	< LOD	54.27
BG-16-2 2-12	06/25/10	7 U	< LOD	4.52	11 J	11.08	4.9	15 U	< LOD	9.99	65	65.49	11.97	99 U	< LOD	65.86	33 U	< LOD	21.83	82 U	< LOD	54.5
BG-16-3 2-12	06/26/10	6 U	< LOD	3.73	10 U	< LOD	6.9	13 U	< LOD	8.99	65	64.78	11.43	94 U	< LOD	62.39	26 J	25.73	14.27	74 U	< LOD	49.42
BG-16-4 2-12	06/26/10	7 U	< LOD	4.64	23 J	23.13	6.24	14 U	< LOD	9.31	74	74.07	12.75	96 U	< LOD	64.25	239	238.89	23.95	79 U	< LOD	52.56
BG-16-5 2-12	06/26/10	7 U	< LOD	4.43	14 J	14.11	5.25	14 U	< LOD	9.62	29 J	29.28	10.32	101 U	< LOD	67.14	24 J	24.03	15.28	85 U	< LOD	56.55
Mean		7			17			14			59			99			71			80		
BG-16 2-12 COMP	06/26/10	6 U	< LOD	3.88	9 J	8.73	5.55	14 U	< LOD	9.58	53 J	52.61	11.55	100 U	< LOD	66.91	56 J	55.96	16.71	78 U	< LOD	51.85
%RPD		13%			59%			1%			10%			1%			24%			3%		
BG-16-1 12-18	06/25/10	7 U	< LOD	4.37	14 J	13.78	5.19	14 U	< LOD	9.63	57 J	56.92	11.68	99 U	< LOD	65.73	26 J	25.59	15.11	81 U	< LOD	53.87
BG-16-2 12-18	06/25/10	6 U	< LOD	4.08	11 U	< LOD	7.24	14 U	< LOD	9.24	58	58.33	11.32	94 U	< LOD	62.61	30 U	< LOD	20.31	79 U	< LOD	52.41
BG-16-3 12-18	06/26/10	6 U	< LOD	4.24	12 U	< LOD	7.73	13 U	< LOD	8.86	60	60.34	11.32	93 U	< LOD	61.73	32 U	< LOD	21.55	78 U	< LOD	51.84
BG-16-4 12-18	06/26/10	7 U	< LOD	4.56	11 U	< LOD	7.64	14 U	< LOD	9.31	55 J	54.65	12.13	100 U	< LOD	66.48	325	325.22	27.16	82 U	< LOD	54.54
BG-16-5 12-18	06/26/10	7 U	< LOD	4.81	21 J	21.49	5.95	15 U	< LOD	10.07	44 J	43.93	11.85	107 U	< LOD	71.45	32 J	32.3	16.42	64 J	63.84	40.58
Mean		7			14			14			55			99			89			77		
BG-16 12-18 COMP	06/26/10	6 U	< LOD	4.17	8 J	7.63	4.84	13 U	< LOD	8.65	41 J	41.12	10.39	94 U	< LOD	62.4	54 J	54.26	16.15	76 U	< LOD	50.42
%RPD		10%			53%			7%			29%			5%			49%			1%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Cobalt			Iron			Manganese			Chromium			Vanadium			Titanium			Scandium		
					Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg											
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-1-1 0-2	06/29/10	265 U	< LOD	176.9	28,435	28435.3	353.07	678	678.06	78.37	45 J	44.64	19.47	84 U	< LOD	55.79	3,543	3543.42	128.42	112 U	< LOD	74.64
BG-1-2 0-2	06/29/10	235 U	< LOD	156.63	23,706	23705.7	313.43	498	497.98	66.8	34 J	34.45	19.21	85 U	< LOD	56.85	3,966	3966.11	132.72	114 U	< LOD	76.16
BG-1-3 0-2	06/29/10	260 U	< LOD	173.64	28,121	28120.9	347.58	790	790.44	81.77	47 J	46.71	18.89	58 J	57.73	34.23	2,754	2754.21	114.97	107 U	< LOD	71.02
BG-1-4 0-2	06/29/10	292 U	< LOD	194.48	32,890	32890.4	389.52	714	714.06	82.91	47 J	47.06	19.11	88 J	88.44	35.38	3,136	3136.23	119.02	84 J	83.56	51.63
BG-1-5 0-2	06/29/10	489 J	489.33	215.07	74,068	74067.9	636.23	818	817.95	104.28	53 J	53.4	22.13	106 J	106.16	43	3,923	3922.56	145.91	95 J	94.9	58.53
Mean		308			37,444			700			45			84			3,464			102		
BG-1 0-2 COMP	06/29/10	216 J	215.91	130.47	32,908	32908.1	385.53	753	753.26	83.58	58 J	57.96	19.49	87 J	86.89	37.07	3,522	3522.44	125.92	91 J	91.37	50.48
%RPD		35%			13%			7%			25%			3%			2%			12%		
BG-1-1 2-12	06/29/10	292 U	< LOD	194.74	34,233	34232.7	391.66	675	675.19	80.25	43 U	< LOD	28.94	98 J	97.61	37.91	3,784	3783.58	129.56	89 J	88.88	50.73
BG-1-2 2-12	06/29/10	252 U	< LOD	167.96	26,432	26432.1	335.14	1,179	1179	95.18	44 U	< LOD	29.49	75 J	75.4	40.32	4,487	4487.35	140.8	113 U	< LOD	75.57
BG-1-3 2-12	06/29/10	320 U	< LOD	213.51	40,595	40594.8	429.7	583	583.25	78.6	43 J	43.29	21.27	103 J	103.02	40.58	3,578	3578.16	136.86	103 J	102.81	55.86
BG-1-4 2-12	06/29/10	370 J	369.5	171.09	49,793	49793.5	504.43	730	730.16	91.99	69 J	68.95	20.53	96 J	96.34	37.69	3,223	3223.41	126.58	88 J	88.38	55.31
BG-1-5 2-12	06/29/10	561 J	560.74	207.48	67,388	67388	610.12	819	819.01	103.18	62 J	62.43	21.32	135 J	134.91	39.49	3,301	3300.62	130.58	136 U	< LOD	90.62
Mean		359			43,688			797			52			101			3,675			106		
BG-1 2-12 COMP	06/29/10	340 U	< LOD	226.88	42,854	42853.5	452.29	805	805	90	37 J	37.07	19.62	110 J	109.76	38.45	3,736	3735.87	130.33	119 U	< LOD	79.45
%RPD		5%			2%			1%			34%			8%			2%			12%		
BG-1-1 12-18	06/29/10	303 U	< LOD	201.67	36,271	36270.7	399.31	715	715.1	81.58	53 J	52.61	22.24	100 J	99.95	43.89	4,549	4548.75	151.95	134 U	< LOD	89.11
BG-1-2 12-18	06/29/10	309 U	< LOD	205.92	38,126	38126.2	413.23	732	732.37	83.03	45 J	44.87	22.79	104 U	< LOD	69.46	5,168	5167.74	163.77	123 U	< LOD	82.12
BG-1-3 12-18	06/29/10	310 U	< LOD	206.51	38,325	38325.5	418.87	487	487.34	73.67	48 J	48.1	20.6	102 J	102.46	39.1	3,457	3457.03	131.62	125 U	< LOD	83.62
BG-1-4 12-18	06/29/10	284 J	284.44	139.7	36,444	36443.8	411.12	683	683.27	82.14	53 J	52.91	19.64	85 J	85.09	35.41	2,866	2865.64	118.15	122 U	< LOD	81.11
BG-1-5 12-18	06/29/10	233 U	< LOD	155.06	23,123	23122.7	312.87	272 J	272.18	55.86	33 U	< LOD	21.8	58 J	57.8	25.83	1,958	1958.04	85.49	102 U	< LOD	67.88
Mean		288			34,458			578			46			90			3,600			121		
BG-1 12-18 COMP	06/29/10	267 U	< LOD	178.18	29,348	29348.1	357.84	587	586.76	74.49	33 J	32.99	19.97	99 J	99	39.08	3,613	3613.49	132.23	127 U	< LOD	84.92
%RPD		7%			16%			2%			34%			10%			0%			5%		
BG-2-1 0-2	06/30/10	258 U	< LOD	172.21	27,128	27128.4	342.88	675	674.93	77.29	46 J	45.83	19.01	86 J	85.99	35.76	3,533	3532.65	122.37	106 J	105.57	55.63
BG-2-2 0-2	06/30/10	230 U	< LOD	153.53	22,575	22574.6	306.59	787	786.75	79.24	41 J	40.67	18.3	67 J	66.62	34.48	3,443	3442.96	118.52	112 J	111.91	48.06
BG-2-3 0-2	06/30/10	253 U	< LOD	168.96	25,744	25744.1	335.43	412	411.96	64.89	45 J	45.13	18.56	77 U	< LOD	51.11	3,092	3092.26	117.22	115 U	< LOD	76.46
BG-2-4 0-2	06/30/10	229 U	< LOD	152.78	22,213	22213.5	302.79	760	760.4	77.72	39 J	38.93	18.51	78 U	< LOD	51.71	3,422	3421.98	119.64	94 J	94.23	49.94
BG-2-5 0-2	06/30/10	268 U	< LOD	178.44	30,736	30735.5	356.05	1,236	1235.61	96.37	47 J	46.58	21.51	85 J	84.89	40.83	4,394	4393.75	142.64	129 U	< LOD	85.77
Mean		248			25,679			774			44			79			3,577			111		
BG-2 0-2 COMP	06/30/10	247 U	< LOD	164.56	25,534	25534.2	327.28	660	659.78	74.91	45 J	45.29	19.66	70 J	69.54	36.67	3,666	3666.06	126.71	96 J	95.59	53.05
%RPD		0%			1%			16%			3%			12%			2%			15%		
BG-2-1 2-12	06/30/10	290 U	< LOD	193.32	34,050	34049.5	392.35	619	619.06	78.3	43 U	< LOD	28.7	79 J	79.09	38.12	4,031	4030.75	132.56	103 J	102.88	56.96
BG-2-2 2-12	06/30/10	251 U	< LOD	167.23	26,579	26579.4	335.82	548	548.18	71.04	39 J	38.69	19.47	100 J	100.48	37.7	3,696	3695.92	128.16	115 U	< LOD	76.39
BG-2-3 2-12	06/30/10	284 U	< LOD	189.25	33,463	33463.1	377.66	391	390.56	64.83	47 U	< LOD	31.48	66 J	65.65	39.7	3,590	3590.17	136.58	125 U	< LOD	83.04
BG-2-4 2-12	06/30/10	269 U	< LOD	179.35	30,540	30539.6	362.65	708	708.33	79.4	40 J	40.37	20.54	120 J	120.37	40.43	3,922	3922.31	136.64	117 U	< LOD	78.14
BG-2-5 2-12	06/30/10	305 U	< LOD	203.46	38,001	38001.5	404.4	1,068	1067.7	94.18	49 U	< LOD	32.94	85 J	84.86	43.34	4,328	4327.86	150.49	134 U	< LOD	89.48
Mean		280			32,527			667			44			90			3,913			119		
BG-2 2-12 COMP	06/30/10	267 U	< LOD	177.74	29,250	29250.4	352.58	761	761.29	80.41	46 U	< LOD	30.9	79 J	78.67	39.39	3,901	3900.53	136.34	124 J	123.75	56.59
%RPD		5%			11%			13%			5%			13%			0%			4%		
BG-2-1 12-18	06/30/10	279 U	< LOD	185.67	31,676	31676.3	367.86	661	661.45	76.91	62 J	62.43	21.57	91 J	91.14	39.81	4,247	4246.94	138.9	94 J	93.78	53.11
BG-2-2 12-18	06/30/10	255 U	< LOD	169.9	27,153	27152.7	340.75	693	692.54	77.46	43 U	< LOD	28.68	82 J	82.45	36.97	3,715	3714.99	127.68	143 U	< LOD	95.42
BG-2-3 12-18	06/30/10	296 U	< LOD	197.51	35,741	35740.8	394.24	374	373.58	65.55	50 U	< LOD	33.49	76 J	76.35	44.77	3,965	3965.01	153.1	114 J	113.77	66.14
BG-2-4 12-18	06/30/10	301 U	< LOD	200.39	35,238	35237.5	402.29	610	609.69	78.52	36 J	36.15	20.24	84 J	83.88	38.98	3,554	3554.13	132.7	142 U	< LOD	94.54
BG-2-5 12-18	06/30/10	284 U	< LOD	189.35	33,366	33365.8	377.78	957	956.8	88.88	37 J	36.68	21.88	97 U	< LOD	64.41	4,407	4407.08	151.12	154 J	154.18	71.99
Mean		283			32,635			659			46			86			3,978			129		
BG-2 12-18 COMP	06/30/10	293 U	< LOD	195.41	34,919	34918.9	392.54	572	571.58	75.02	47 U	< LOD	31.04	84 J	83.55	40.82	4,065	4064.6	141.15	145 U	< LOD	96.5
%RPD		3%			7%			14%			3%			2%			2%			11%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Cobalt			Iron			Manganese			Chromium			Vanadium			Titanium			Scandium		
					Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg											
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-3-1 0-2	06/29/10	279 U	< LOD	186.04	32,247	32246.5	373.97	521	521.32	71.46	42 J	42.4	20.36	103 J	102.99	39.42	4,088	4087.71	135.65	135 U	< LOD	90.02
BG-3-2 0-2	06/29/10	238 U	< LOD	158.82	24,068	24068.5	319.47	1,213	1213.03	95.66	41 J	40.69	18.27	66 J	65.88	33.99	3,207	3206.72	116.04	84 J	83.73	46.32
BG-3-3 0-2	06/29/10	245 U	< LOD	163.38	24,921	24920.6	325.84	396	396.36	63.02	38 U	< LOD	25.28	68 J	67.55	31.61	3,297	3296.71	109.49	108 U	< LOD	71.88
BG-3-4 0-2	06/29/10	253 U	< LOD	168.35	26,464	26463.8	338.93	639	638.87	75.57	44 J	43.88	18.15	74 J	73.74	33.23	3,030	3029.7	112.57	98 J	98.2	48.63
BG-3-5 0-2	06/29/10	241 U	< LOD	160.61	23,774	23773.8	317.75	722	722.15	77.7	57 J	57.14	19.09	71 J	71.21	36.9	3,488	3488.49	125.31	114 U	< LOD	75.77
Mean		251			26,295			698			44			76			3,422			108		
BG-3 0-2 COMP	06/29/10	267 U	< LOD	178.12	28,371	28371.1	352.61	639	638.92	76.39	54 J	54.15	19.24	73 J	73.1	35.73	3,430	3429.71	122.35	79 J	78.64	51.49
%RPD		6%			8%			9%			20%			5%			0%			31%		
BG-3-1 2-12	06/29/10	313 U	< LOD	208.77	37,457	37457.1	416.91	518	518.33	75.31	47 U	< LOD	31.66	78 J	77.97	42.53	4,556	4556.06	149.41	97 J	96.88	61.33
BG-3-2 2-12	06/29/10	224 U	< LOD	149.12	21,174	21174.2	299.23	662	662.35	74.31	30 J	30.14	17.2	55 J	54.94	32.45	3,168	3167.85	111.56	105 U	< LOD	69.93
BG-3-3 2-12	06/29/10	287 U	< LOD	191.15	33,324	33324.1	383.15	296 J	296	61.04	46 U	< LOD	30.96	99 J	99.12	39.45	4,121	4121.42	137.08	140 U	< LOD	93.16
BG-3-4 2-12	06/29/10	292 U	< LOD	194.91	33,632	33631.6	389.83	553	553.01	74.97	32 J	31.95	18.69	97 J	97.23	35.02	3,096	3095.78	117.26	117 U	< LOD	78.27
BG-3-5 2-12	06/29/10	289 U	< LOD	192.96	32,900	32899.8	384.19	1,197	1196.69	99.6	46 U	< LOD	30.5	77 J	77.32	42.06	4,020	4020.16	144.28	128 U	< LOD	85.29
Mean		281			31,697			645			40			81			3,792			117		
BG-3 2-12 COMP	06/29/10	282 U	< LOD	187.87	31,620	31620.5	374.21	610	610.24	76.21	44 U	< LOD	29.41	86 U	< LOD	57.4	3,884	3884.28	134.47	127 U	< LOD	84.45
%RPD		0%			0%			6%			9%			6%			2%			8%		
BG-3-1 12-18	06/29/10	316 U	< LOD	210.36	39,223	39223.3	422.66	447	446.67	71.38	50 U	< LOD	33.32	73 J	73.1	45.24	4,815	4815.03	159.21	101 J	101.29	63.89
BG-3-2 12-18	06/29/10	248 U	< LOD	165.09	26,052	26052.2	330.2	667	667.24	75.16	44 U	< LOD	29.42	64 J	64.41	36.89	3,598	3597.61	127.78	115 U	< LOD	76.49
BG-3-3 12-18	06/29/10	289 U	< LOD	192.76	33,497	33496.9	386.78	279 J	278.73	60.8	47 U	< LOD	31.3	64 J	64.35	40.3	4,144	4143.64	141.76	146 U	< LOD	97.2
BG-3-4 12-18	06/29/10	269 U	< LOD	179.35	29,674	29673.6	359.76	619	619.38	75.41	43 U	< LOD	28.51	60 J	59.87	36.67	3,255	3254.5	125.28	106 J	106.1	57.52
BG-3-5 12-18	06/29/10	232 U	< LOD	154.63	23,494	23494.2	315.71	593	592.63	71.93	39 U	< LOD	26.06	77 U	< LOD	51.36	3,709	3709.07	120.14	85 J	84.96	50.34
Mean		271			30,388			521			45			68			3,904			111		
BG-3 12-18 COMP	06/29/10	296 U	< LOD	197.09	34,862	34861.7	396.94	545	544.91	75.02	47 U	< LOD	31.35	88 J	87.51	41.68	4,288	4288.38	144.97	106 J	105.56	62.07
%RPD		9%			14%			5%			5%			26%			9%			4%		
BG-4-1 0-2	06/28/10	290 U	< LOD	193.56	34,763	34762.9	387.57	606	605.54	75.95	46 J	46.33	22.3	102 J	102.03	44.09	4,034	4033.68	149.69	130 U	< LOD	86.77
BG-4-2 0-2	06/28/10	239 U	< LOD	159.39	24,221	24221.5	318.14	865	864.53	82.81	30 J	30.31	18.99	66 J	66.1	35.12	3,052	3051.96	119.47	91 J	91.29	55.81
BG-4-3 0-2	06/28/10	238 U	< LOD	158.76	25,065	25064.9	323.41	760	759.75	78.68	33 J	32.58	19.67	92 J	91.97	38.71	3,627	3627.12	131.09	119 U	< LOD	79.23
BG-4-4 0-2	06/28/10	281 U	< LOD	187.04	31,590	31589.8	374.12	1,144	1143.87	96.94	34 J	34.4	19.82	89 J	88.66	37.72	3,486	3486.39	128.03	97 J	97.28	58.56
BG-4-5 0-2	06/28/10	192 U	< LOD	128.12	16,472	16472.5	254	1,087	1086.56	86.19	40 J	40.03	17.49	49 J	48.67	30.63	2,536	2536.3	103.16	99 U	< LOD	66.02
Mean		248			26,422			892			37			80			3,347			107		
BG-4 0-2 COMP	06/28/10	260 U	< LOD	173.61	28,680	28680.2	351.62	993	992.7	89.79	58 J	57.75	20.52	61 J	60.55	38.22	3,316	3316.17	129.89	121 U	< LOD	80.97
%RPD		5%			8%			11%			45%			26%			1%			12%		
BG-4-1 2-12	06/28/10	351 U	< LOD	233.77	47,818	47817.5	474.42	586	586.37	81.45	48 U	< LOD	31.93	114 J	114.45	41.35	3,991	3990.87	141.48	133 U	< LOD	88.9
BG-4-2 2-12	06/28/10	266 U	< LOD	177.15	29,038	29038.1	352.6	1,109	1108.56	93.61	32 J	32.36	20.04	85 U	< LOD	56.86	3,433	3433.07	131.26	94 J	94.05	58.16
BG-4-3 2-12	06/28/10	260 U	< LOD	173.33	29,068	29067.8	349.29	777	776.54	80.46	39 J	38.77	20.74	116 J	115.79	40.3	4,037	4036.57	137.59	129 U	< LOD	86.1
BG-4-4 2-12	06/28/10	299 U	< LOD	199.17	33,851	33851	395.39	757	757.19	85.02	52 J	52.14	19.81	74 J	74.34	38.33	3,779	3778.86	132.24	125 U	< LOD	83.63
BG-4-5 2-12	06/28/10	226 U	< LOD	150.74	21,856	21855.8	297.59	757	756.55	76.82	38 J	38.15	18.43	66 J	66.16	34.45	3,345	3344.73	118.25	80 J	80.22	52.38
Mean		280			32,326			797			42			91			3,717			112		
BG-4 2-12 COMP	06/28/10	269 U	< LOD	179.25	29,057	29057.4	355.5	712	712.04	79.37	43 J	42.77	19.93	104 J	104.46	37.27	3,520	3519.5	126.58	152 J	152.16	57.68
%RPD		4%			11%			11%			3%			13%			5%			30%		
BG-4-1 12-18	06/28/10	314 U	< LOD	209.4	39,978	39978.5	421.56	429	428.77	70.09	51 U	< LOD	33.73	113 J	112.78	44.97	4,462	4462.13	154.83	132 U	< LOD	87.98
BG-4-2 12-18	06/28/10	244 U	< LOD	162.44	25,801	25800.7	327.12	844	843.66	81.81	61 J	61.12	20.49	83 U	< LOD	55.4	3,270	3269.96	127.05	131 U	< LOD	87.58
BG-4-3 12-18	06/28/10	284 U	< LOD	189.11	32,352	32351.5	379.15	788	788.19	83.95	39 J	39.16	20.8	99 J	98.95	41.33	4,294	4293.64	142.48	133 U	< LOD	88.41
BG-4-4 12-18	06/28/10	260 J	259.85	157.16	44,073	44073.3	465.97	1,188	1187.74	106.64	46 U	< LOD	30.72	83 J	82.86	41.41	4,038	4037.69	142.96	160 U	< LOD	106.52
BG-4-5 12-18	06/28/10	224 U	< LOD	149.09	22,531	22530.9	301.3	603	602.81	70.08	33 J	32.76	19.46	62 J	61.52	36.76	3,539	3539.39	126.45	112 U	< LOD	74.59
Mean		265			32,947			770			46			88			3,921			134		
BG-4 12-18 COMP	06/28/10	289 U	< LOD	192.37	33,395	33395.4	386.68	743	743.1	82.57	36 J	36.47	20.8	101 J	100.77	42.02	4,514	4513.81	145.88	100 J	99.78	60.75
%RPD		9%			1%			4%			24%			14%			14%			29%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Cobalt			Iron			Manganese			Chromium			Vanadium			Titanium			Scandium		
					Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg											
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-5-1 0-2	06/22/10	264 U	< LOD	176.01	29,103	29103.5	351.63	982	981.56	88.48	45 U	< LOD	29.96	85 J	85.48	38.72	3,610	3609.99	132.14	106 J	105.52	58.85
BG-5-2 0-2	06/22/10	200 U	< LOD	133.09	18,041	18040.6	267.35	583	583.48	67.71	41 J	40.87	18.28	63 J	63.23	33.43	3,197	3197.47	114.12	103 U	< LOD	68.55
BG-5-3 0-2	06/22/10	229 U	< LOD	152.58	22,753	22753.4	309.67	903	902.51	84.17	29 J	29.3	18.11	79 J	79.33	33.1	3,056	3056.18	112.24	124 U	< LOD	82.74
BG-5-4 0-2	06/22/10	248 U	< LOD	165.62	25,741	25740.8	329.77	952	951.99	86.65	51 J	50.94	19.71	84 J	84.32	37.52	3,767	3767.01	128.78	87 J	87.23	51.23
BG-5-5 0-2	06/22/10	229 U	< LOD	152.38	23,121	23121.2	307.13	1,024	1024.38	87.34	41 J	41.03	19.15	57 J	56.63	34.71	3,269	3268.82	119.32	119 J	118.76	49.15
Mean		234			23,752			889			41			74			3,380			108		
BG-5 0-2 COMP	06/22/10	243 U	< LOD	162.29	25,427	25426.9	328.11	755	754.77	79.26	47 J	46.69	19.23	82 J	82.28	36.07	3,448	3447.67	122.8	114 U	< LOD	76.25
%RPD		4%			7%			16%			13%			11%			2%			6%		
BG-5-1 2-12	06/22/10	264 U	< LOD	176.2	29,537	29537.4	354.46	584	583.57	72.95	45 U	< LOD	30.18	71 J	70.76	39.07	3,821	3821.26	134.97	103 J	103.23	58.29
BG-5-2 2-12	06/22/10	215 U	< LOD	143.47	20,661	20660.6	289.31	336	336.25	57.23	40 U	< LOD	26.69	76 U	< LOD	50.5	3,015	3015.39	114.84	107 U	< LOD	71.56
BG-5-3 2-12	06/22/10	274 U	< LOD	182.48	31,197	31197.5	366.85	809	809.39	83.22	47 U	< LOD	31.06	73 J	73.23	39.9	3,772	3771.64	137.41	135 U	< LOD	89.76
BG-5-4 2-12	06/22/10	281 U	< LOD	187.38	32,438	32437.5	379.89	678	677.5	79.48	45 U	< LOD	30.02	109 J	108.53	38.53	3,900	3900.45	131.96	133 U	< LOD	88.92
BG-5-5 2-12	06/22/10	274 U	< LOD	182.73	29,928	29927.6	364.01	783	783.09	82.93	45 J	45.25	19.16	83 J	82.57	36.8	3,628	3627.53	125.75	109 U	< LOD	72.44
Mean		262			28,752			638			44			82			3,627			117		
BG-5 2-12 COMP	06/22/10	211 J	210.53	124.29	30,439	30438.6	366.74	698	697.67	79.59	30 J	30.31	19.81	121 J	120.69	38.99	4,127	4126.89	133.62	125 U	< LOD	83.12
%RPD		21%			6%			9%			39%			38%			13%			6%		
BG-5-1 12-18	06/22/10	274 U	< LOD	182.49	30,748	30747.6	369.48	554	554.33	73.68	32 J	31.6	19.21	61 J	61.25	36.46	3,571	3571.26	126.21	118 U	< LOD	78.98
BG-5-2 12-18	06/22/10	192 U	< LOD	127.79	17,126	17125.7	262.94	233 J	232.86	50.25	35 U	< LOD	23.45	60 J	59.73	28.57	2,260	2259.86	94.75	91 U	< LOD	60.56
BG-5-3 12-18	06/22/10	269 U	< LOD	179.32	30,145	30144.9	362.69	827	826.5	84.24	45 U	< LOD	30.14	70 J	70.2	39.02	3,851	3850.88	135.31	128 J	128.25	60.74
BG-5-4 12-18	06/22/10	269 U	< LOD	179.57	30,699	30699.1	363.32	650	650.07	76.6	33 J	32.97	19.65	93 J	93.38	36.15	3,371	3370.66	122.93	108 J	107.61	60.5
BG-5-5 12-18	06/22/10	377 U	< LOD	251.22	51,761	51761.2	504.14	975	974.57	99.93	55 U	< LOD	36.89	107 J	106.87	53.72	6,859	6859.19	192.85	144 U	< LOD	96.21
Mean		276			32,096			648			40			78			3,982			118		
BG-5 12-18 COMP	06/22/10	300 U	< LOD	199.87	36,322	36322.4	400.75	766	766.16	83.54	48 U	< LOD	31.69	100 U	< LOD	66.35	4,836	4835.88	156.99	136 U	< LOD	90.9
%RPD		8%			12%			17%			18%			24%			19%			14%		
BG-6-1 0-2	06/28/10	226 U	< LOD	150.7	21,764	21764.1	300.36	943	942.85	84.74	53 J	53.08	18.67	97 J	96.55	34.29	3,127	3126.9	114.84	93 J	93.49	44.43
BG-6-2 0-2	06/28/10	410 U	< LOD	273.01	56,731	56731.3	542.65	705	705.06	93.32	45 J	45.13	20.25	112 J	112.28	38.4	2,917	2917.18	125.93	136 U	< LOD	90.92
BG-6-3 0-2	06/28/10	250 J	249.64	140.69	36,557	36557.1	415.44	766	766.44	87.29	48 J	47.87	19.26	83 U	< LOD	55.45	3,550	3549.82	127.45	117 U	< LOD	78.25
BG-6-4 0-2	06/28/10	230 U	< LOD	153.33	22,397	22397.2	304.89	840	839.51	80.96	44 J	44.06	18.57	68 J	67.92	33.85	3,353	3353.01	116.08	93 U	< LOD	62.14
BG-6-5 0-2	06/28/10	224 U	< LOD	149.6	21,158	21158.4	294.65	714	713.81	75.38	50 J	50.28	18.52	70 J	69.72	33.74	3,039	3038.96	114.11	71 J	70.72	42.64
Mean		268			31,721			794			48			86			3,197			102		
BG-6 0-2 COMP	06/28/10	253 U	< LOD	168.55	26,359	26359.4	335.66	727	727.07	78.8	47 J	46.77	18.43	76 J	75.91	33.93	3,237	3237.06	115.4	104 U	< LOD	69.15
%RPD		6%			18%			9%			2%			12%			1%			2%		
BG-6-1 2-12	06/28/10	233 U	< LOD	155.01	22,943	22942.8	310.05	612	612.21	72.54	34 J	33.63	18.47	73 J	72.53	34.72	3,326	3325.79	118.37	103 U	< LOD	68.99
BG-6-2 2-12	06/28/10	253 U	< LOD	168.82	27,897	27896.7	343.04	421	421.38	64.84	39 J	39	17.28	94 J	93.6	30.71	2,244	2243.89	99.75	82 J	82.16	52.32
BG-6-3 2-12	06/28/10	311 U	< LOD	207.53	36,748	36748.3	412.62	631	631.04	79.88	45 J	45.26	19.57	95 J	95.17	37.15	3,466	3465.66	125.75	116 U	< LOD	77.5
BG-6-4 2-12	06/28/10	242 U	< LOD	161.61	24,445	24444.8	322.42	559	559.37	71.08	41 J	40.82	18.41	70 J	70.42	35.16	3,435	3435.31	120.23	106 U	< LOD	70.39
BG-6-5 2-12	06/28/10	272 U	< LOD	181.12	29,494	29494.5	359.22	683	682.5	78.4	44 J	44.24	20.37	77 J	76.91	39.08	3,962	3962.2	135.33	116 U	< LOD	77.23
Mean		262			28,305			581			41			82			3,287			105		
BG-6 2-12 COMP	06/28/10	255 U	< LOD	170.06	25,705	25704.9	335.83	590	590.38	73.69	50 J	49.6	18.56	80 J	79.84	34.44	3,280	3279.58	117.08	104 J	104.2	47.88
%RPD		3%			10%			2%			21%			2%			0%			1%		
BG-6-1 12-18	06/28/10	277 U	< LOD	184.71	31,048	31048.3	368.32	626	626.04	76.28	74 J	73.74	20.63	87 J	87.05	37.95	3,633	3632.77	129.63	112 J	112.4	52.9
BG-6-2 12-18	06/28/10	332 U	< LOD	221.36	44,446	44446.1	456.69	615	614.86	82.15	41 U	< LOD	27.34	101 J	100.54	33.87	2,370	2370.46	109.9	132 U	< LOD	87.91
BG-6-3 12-18	06/28/10	281 U	< LOD	187.16	31,511	31511.4	373.95	667	667.29	78.66	60 J	60.11	20.61	83 J	82.8	39.46	3,826	3826.06	135.41	129 J	129.16	53.89
BG-6-4 12-18	06/28/10	233 U	< LOD	155.35	21,052	21051.9	306.74	448	448.02	66.21	29 J	29.44	17.82	61 J	61.4	32.94	2,501	2501.03	112.83	264 U	< LOD	176.04
BG-6-5 12-18	06/28/10	260 U	< LOD	173.41	27,159	27159.4	347.64	525	525.07	71.6	43 J	42.56	20.12	82 J	82.27	39.9	3,578	3578.2	136.11	181 J	180.93	82.07
Mean		277			31,043			576			49			83			3,182			164		
BG-6 12-18 COMP	06/28/10	251 U	< LOD	167.55	25,679	25679.4	334.74	453	452.6	67.03	42 U	< LOD	27.76	78 U	< LOD	52.33	3,018	3018.03	120.16	198 U	< LOD	131.82
%RPD		10%			19%			24%			16%			6%			5%			19%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Cobalt			Iron			Manganese			Chromium			Vanadium			Titanium			Scandium		
					Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg											
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-7-1 0-2	06/27/10	653 J	652.85	260.29	94,685	94685.1	769.53	1,224	1223.76	132.27	71 J	70.88	22.34	128 J	128.15	42	3,243	3242.69	138.23	99 J	98.84	57.84
BG-7-2 0-2	06/27/10	258 U	< LOD	171.93	28,464	28464.2	348.74	721	721.22	78.68	50 J	49.69	19.62	77 J	77.21	37.45	3,494	3493.85	127.72	109 J	108.81	56.37
BG-7-3 0-2	06/27/10	267 U	< LOD	178.23	28,663	28663	354.41	681	680.65	78.55	47 J	46.94	18.79	67 J	67.47	34.52	3,219	3219.21	117.66	110 U	< LOD	73.66
BG-7-4 0-2	06/27/10	239 U	< LOD	159.34	24,056	24056.1	317.95	761	761.28	79.03	33 J	33.28	18.71	57 J	57.35	34.75	3,444	3443.85	120.51	77 J	77.13	51.19
BG-7-5 0-2	06/27/10	321 U	< LOD	213.83	38,654	38654	427.52	717	716.85	85.4	55 J	55.2	19.81	85 J	85.49	37.43	3,404	3403.8	126.42	114 U	< LOD	76.14
Mean		348			42,904			821			51			83			3,361			102		
BG-7 0-2 COMP	06/27/10	271 J	271.42	161.14	45,758	45758	477.51	828	827.65	93.88	50 J	50.09	19.73	100 J	100.49	36.99	3,405	3405.39	124.91	118 U	< LOD	78.9
%RPD		25%			6%			1%			2%			19%			1%			15%		

BG-7-1 2-12	06/27/10	606 J	605.66	210.07	68,172	68172.2	616.56	829	829.27	104.14	89 J	88.55	21.76	103 J	103.21	40.13	3,590	3589.89	135.55	123 U	< LOD	81.76
BG-7-2 2-12	06/27/10	298 U	< LOD	198.53	35,031	35031.1	399.55	665	665.16	81.08	32 J	32.41	19.91	104 J	103.62	39.28	4,115	4115.35	135.5	132 U	< LOD	88.18
BG-7-3 2-12	06/27/10	262 U	< LOD	174.8	28,625	28624.7	352.53	560	560.25	72.56	42 U	< LOD	28.33	86 J	85.75	36.32	3,513	3513.37	123.72	116 U	< LOD	77.46
BG-7-4 2-12	06/27/10	261 U	< LOD	174.27	28,011	28011.2	345.93	736	736.21	79.25	46 U	< LOD	30.53	89 J	88.68	41.27	3,610	3610.02	139.02	132 U	< LOD	88.23
BG-7-5 2-12	06/27/10	287 U	< LOD	191.32	33,496	33496.3	387.8	555	555.13	74.87	38 J	38.38	20.64	71 J	70.92	40.36	4,042	4041.97	140.06	120 U	< LOD	80.32
Mean		343			38,667			669			49			91			3,774			125		
BG-7 2-12 COMP	06/27/10	282 U	< LOD	187.93	32,232	32231.8	378.91	692	692.46	80.63	32 J	32.13	19.29	82 U	< LOD	54.55	3,342	3341.66	125.04	111 U	< LOD	74.08
%RPD		19%			18%			3%			43%			10%			12%			12%		

BG-7-1 12-18	06/27/10	1,030 J	1030.27	568.25	298,242	298242	1701.01	1,485	1485.11	215.87	51 J	50.88	28.45	296	295.69	55.88	3,432	3431.52	172.03	170 U	< LOD	113.22
BG-7-2 12-18	06/27/10	299 U	< LOD	199.54	34,302	34302.5	399.56	736	736.04	84.54	38 J	38.45	19.91	94 J	94.12	37.96	3,362	3361.77	128.06	125 U	< LOD	83.65
BG-7-3 12-18	06/27/10	286 U	< LOD	190.61	32,610	32609.8	381.47	782	781.79	83.97	42 J	41.67	19.95	79 J	79.1	38.18	3,825	3824.84	131.66	90 J	89.74	56.05
BG-7-4 12-18	06/27/10	243 U	< LOD	162.07	23,939	23939.2	324.06	539	539.13	70.97	33 J	33.12	18.83	57 J	57.37	34.38	3,096	3096.47	118.56	168 U	< LOD	112.06
BG-7-5 12-18	06/27/10	268 U	< LOD	178.45	29,549	29548.8	355.72	495	495.25	69.35	49 J	48.87	20.62	62 J	62.46	39	4,000	3999.93	136.07	119 U	< LOD	79.37
Mean		425			83,728			807			43			118			3,543			134		
BG-7 12-18 COMP	06/27/10	400 J	400.17	159.27	42,979	42978.7	466.44	682	682.4	87.89	48 J	47.87	19.9	82 J	81.51	36.51	3,143	3143.45	124	162 U	< LOD	107.86
%RPD		6%			64%			17%			12%			36%			12%			19%		

BG-8-1 0-2	06/26/10	230 U	< LOD	153.49	22,871	22870.9	306.86	797	797.06	79.44	48 J	47.92	18.78	76 U	< LOD	50.72	3,164	3164.3	117.29	108 U	< LOD	72.14
BG-8-2 0-2	06/26/10	284 U	< LOD	189.34	31,878	31878.2	379.87	903	903.21	89.25	37 J	36.77	19.73	89 J	88.8	38.37	3,772	3771.92	131.78	141 U	< LOD	94.27
BG-8-3 0-2	06/26/10	219 U	< LOD	146.12	21,494	21494.4	294.69	837	837.37	79.83	58 J	58.28	19.19	60 J	60.1	34.01	2,831	2831.16	114.57	109 U	< LOD	72.56
BG-8-4 0-2	06/26/10	238 U	< LOD	158.57	23,112	23111.7	315.39	1,001	1000.86	89.01	35 J	35.39	18.18	62 J	62.08	34.24	3,116	3116.19	116.32	102 U	< LOD	67.85
BG-8-5 0-2	06/26/10	269 U	< LOD	179.17	29,644	29644.2	362.47	1,039	1038.81	93.11	37 J	37.29	19.47	70 J	69.96	37.2	3,476	3475.92	127.63	106 J	105.54	61.5
Mean		248			25,800			915			43			71			3,272			113		
BG-8 0-2 COMP	06/26/10	251 U	< LOD	167.5	26,467	26467.1	336.61	829	828.83	82.57	43 J	42.75	19.12	59 J	59.1	35.47	3,390	3390.42	122.09	120 U	< LOD	79.78
%RPD		1%			3%			10%			0%			19%			4%			6%		

BG-8-1 2-12	06/26/10	235 J	234.95	107.64	24,017	24016.5	314.35	638	637.68	72.94	34 J	33.61	18.7	76 J	76.2	34.67	2,889	2889.4	116.03	108 U	< LOD	71.68
BG-8-2 2-12	06/26/10	295 U	< LOD	196.69	34,086	34085.8	394.36	875	874.96	88.87	38 J	37.98	20.3	70 J	69.97	40.01	3,965	3965.37	138.72	120 J	119.79	66.53
BG-8-3 2-12	06/26/10	274 U	< LOD	182.69	30,458	30458.3	364.46	651	650.74	77.05	45 J	44.52	19.6	100 J	99.99	37.77	3,531	3530.85	127.44	112 U	< LOD	74.8
BG-8-4 2-12	06/26/10	254 U	< LOD	169.25	26,285	26284.9	335.4	728	727.83	78.77	33 J	32.75	19.4	78 J	77.71	36.75	3,449	3449.12	125.15	112 U	< LOD	74.54
BG-8-5 2-12	06/26/10	281 U	< LOD	187.61	31,606	31606	374.96	1,019	1018.5	92.58	45 U	< LOD	30.28	94 J	94.18	42.07	4,212	4211.99	144.72	148 U	< LOD	98.41
Mean		268			29,290			782			39			84			3,609			120		
BG-8 2-12 COMP	06/26/10	277 U	< LOD	184.87	31,263	31263.2	372.59	750	749.52	82.44	35 J	34.85	19.51	78 J	77.85	37.4	3,596	3596.05	128.19	125 U	< LOD	83.41
%RPD		3%			7%			4%			11%			7%			0%			4%		

BG-8-1 12-18	06/26/10	236 U	< LOD	157.26	23,665	23664.8	312.89	704	703.5	75.7	41 J	40.5	18.84	62 J	61.98	34.46	3,144	3144.47	117.45	101 J	100.94	49.59
BG-8-2 12-18	06/26/10	321 U	< LOD	214.08	38,945	38944.8	427.78	898	897.5	92.38	49 U	< LOD	32.93	144 J	144.11	45.71	4,984	4984.24	157.63	133 J	133.26	72.48
BG-8-3 12-18	06/26/10	258 U	< LOD	171.72	27,597	27596.7	347.81	650	650.26	76.57	31 J	30.78	18.87	62 J	62.06	35.79	3,464	3464.23	123.5	116 U	< LOD	77.57
BG-8-4 12-18	06/26/10	261 U	< LOD	173.87	28,084	28084.3	353.21	867	867.39	86.01	41 U	< LOD	27.37	79 J	78.74	36.01	3,897	3897.08	125.2	107 J	107.05	49.73
BG-8-5 12-18	06/26/10	278 U	< LOD	185.34	31,825	31825	373.08	1,059	1058.68	93.44	47 U	< LOD	31.43	97 J	96.9	43.41	4,682	4682.3	151.4	152 U	< LOD	101.23
Mean		271			30,023			836			42			89			4,034			122		
BG-8 12-18 COMP	06/26/10	286 U	< LOD	190.86	33,020	33019.8	383.85	870	869.72	87.03	33 J	32.57	20.09	76 J	76.37	40	4,150	4149.72	139.09	134 U	< LOD	89.2
%RPD		5%			10%			4%			24%			16%			3%			10%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Cobalt			Iron			Manganese			Chromium			Vanadium			Titanium			Scandium		
					Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg											
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-9-1 0-2	06/22/10	213 U	< LOD	141.84	19,657	19656.5	285.53	653	652.53	72.64	37 U	< LOD	24.84	49 J	48.97	29.44	2,666	2665.78	100.3	68 J	67.91	45.25
BG-9-2 0-2	06/22/10	213 U	< LOD	141.91	19,943	19943.5	285.28	796	796.35	77.82	47 J	46.98	18.14	52 J	52.12	31.98	3,117	3116.74	110.55	87 J	87.47	49.23
BG-9-3 0-2	06/22/10	600 J	600.17	291.76	113,162	113162	867.35	1,167	1166.56	137.07	62 J	62.4	23.56	135 J	134.6	44.6	3,705	3704.57	149.02	157 U	< LOD	104.38
BG-9-4 0-2	06/22/10	231 U	< LOD	153.79	22,676	22675.7	307.3	537	537.33	68.33	40 U	< LOD	26.71	67 J	66.68	32.09	3,150	3149.88	110.75	119 J	119.2	58.91
BG-9-5 0-2	06/22/10	311 U	< LOD	207.63	37,869	37869.4	415.83	822	821.96	87.97	41 J	40.55	19.97	76 J	75.5	38.22	3,575	3575.38	130.68	126 U	< LOD	84.24
Mean		314			42,661			795			45			76			3,243			111		
BG-9 0-2 COMP	06/22/10	307 J	306.94	139.6	35,851	35851.4	409.85	844	844.38	89.28	54 J	53.7	19.16	77 J	77.03	34.47	3,213	3212.52	117.61	122 U	< LOD	81.21
%RPD		2%			17%			6%			17%			2%			1%			9%		
BG-9-1 2-12	06/22/10	247 U	< LOD	164.74	25,655	25654.9	330.26	794	793.69	80.71	35 J	35.09	19.6	76 J	76.29	37.63	3,758	3757.68	129.55	121 U	< LOD	80.57
BG-9-2 2-12	06/22/10	237 U	< LOD	158.19	24,693	24693.2	316.05	605	604.67	70.98	30 J	29.96	19.41	81 U	< LOD	53.7	3,547	3547.37	124.75	122 U	< LOD	81.02
BG-9-3 2-12	06/22/10	319 U	< LOD	212.66	40,004	40004.3	424.05	790	789.71	86.13	50 U	< LOD	33.07	95 J	95.08	43.3	3,904	3904.1	147.45	149 U	< LOD	99.55
BG-9-4 2-12	06/22/10	310 U	< LOD	206.87	38,532	38532.1	417.07	576	576.06	77.22	41 J	41.06	22.06	122 J	121.84	41.98	3,879	3878.7	142.03	144 U	< LOD	95.86
BG-9-5 2-12	06/22/10	311 U	< LOD	207.45	39,087	39087.3	418.11	672	671.79	81.04	58 J	57.98	22.34	134 J	133.59	42.92	4,079	4079.47	145.14	151 U	< LOD	100.48
Mean		285			33,594			687			43			102			3,833			137		
BG-9 2-12 COMP	06/22/10	268 U	< LOD	178.93	30,046	30045.7	360.07	647	646.89	76.66	40 J	39.94	20.7	96 J	96.04	39.67	3,807	3807.15	135.81	132 J	132.03	60.74
%RPD		6%			11%			6%			7%			6%			1%			4%		
BG-9-1 12-18	06/22/10	251 U	< LOD	167.62	26,385	26385.1	336.46	713	713.18	78.49	30 J	29.95	19.34	69 J	68.74	37.55	3,662	3661.51	129.27	123 U	< LOD	82.07
BG-9-2 12-18	06/22/10	248 U	< LOD	165.08	26,152	26152.4	332.62	661	661.14	75.44	43 U	< LOD	28.76	81 J	81.25	37.74	3,792	3792.17	129.83	122 U	< LOD	81.36
BG-9-3 12-18	06/22/10	307 U	< LOD	204.88	37,304	37303.8	413.51	703	703.42	83.27	42 J	42	21.18	87 J	87.13	40.09	3,596	3595.74	136.94	172 U	< LOD	114.83
BG-9-4 12-18	06/22/10	290 U	< LOD	193.03	33,785	33784.5	388.25	539	539.49	74.09	34 J	34.29	20.57	94 J	93.87	39.47	3,624	3623.63	134.19	104 J	104.1	62.77
BG-9-5 12-18	06/22/10	282 U	< LOD	188.18	31,694	31693.7	377.15	572	572.03	75.19	42 U	< LOD	27.91	90 J	90.32	36.24	3,525	3525.17	124.2	125 J	125.03	67.67
Mean		276			31,064			638			38			84			3,640			129		
BG-9 12-18 COMP	06/22/10	268 U	< LOD	178.9	30,024	30024	361.78	594	594.19	74.29	37 J	36.9	19.46	83 J	82.59	36.91	3,615	3614.9	126.69	137 U	< LOD	91.01
%RPD		3%			3%			7%			3%			1%			1%			6%		
BG-10-1 0-2	06/23/10	219 U	< LOD	145.67	20,477	20477.2	291.45	917	917.06	83.41	39 U	< LOD	26.09	70 J	70.18	32.65	2,805	2804.56	109.64	106 U	< LOD	70.55
BG-10-2 0-2	06/23/10	305 U	< LOD	203.33	35,952	35951.8	405.35	769	768.84	85.19	61 J	61.08	19.42	83 J	82.54	34.81	2,912	2911.84	116.38	103 U	< LOD	68.98
BG-10-3 0-2	06/23/10	251 U	< LOD	167.14	25,600	25599.7	335.12	657	657.04	76.46	38 J	37.76	17.44	74 J	74.08	30.68	2,394	2393.71	101.38	110 U	< LOD	73.14
BG-10-4 0-2	06/23/10	224 J	224.34	122.49	29,804	29803.5	360.57	540	540.06	72.35	34 J	33.82	18.86	78 J	77.72	35.12	3,126	3126.28	118.85	121 U	< LOD	80.85
BG-10-5 0-2	06/23/10	347 U	< LOD	231.03	45,005	45004.6	464.4	995	994.55	98.06	51 J	51.1	21.71	109 J	108.76	42.57	4,139	4139.23	145.42	134 U	< LOD	89.61
Mean		269			31,368			776			45			83			3,075			115		
BG-10 0-2 COMP	06/23/10	285 U	< LOD	190.19	31,967	31966.6	376.85	1,016	1016.42	92.53	42 J	42.11	19.6	92 J	91.7	36.54	3,171	3170.53	122.49	114 U	< LOD	76.12
%RPD		6%			2%			27%			6%			11%			3%			1%		
BG-10-1 2-12	06/23/10	232 U	< LOD	154.84	23,356	23356.1	309.18	552	552.29	68.75	42 J	42.18	19.04	62 J	61.61	35.36	3,537	3537.09	122.41	116 U	< LOD	77.21
BG-10-2 2-12	06/23/10	329 U	< LOD	219.56	41,120	41120.4	437.49	701	701.3	84.4	42 J	41.65	20.8	113 J	113.25	42.09	4,345	4344.54	144.13	119 U	< LOD	79.28
BG-10-3 2-12	06/23/10	230 U	< LOD	153.14	22,462	22462	305.68	787	786.53	79.36	43 J	43.34	18.54	55 J	54.73	34.02	3,009	3009.15	115.53	88 J	88.21	45.93
BG-10-4 2-12	06/23/10	260 U	< LOD	173.1	27,721	27721.3	343.37	461	461.01	66.97	48 J	47.95	19.19	85 J	85.44	35.6	3,267	3267.39	120.58	122 U	< LOD	81.32
BG-10-5 2-12	06/23/10	331 U	< LOD	220.94	43,799	43799.4	446.73	816	816.48	88.44	47 J	46.79	23.35	92 J	91.75	45.94	4,653	4652.79	159.62	132 U	< LOD	87.85
Mean		276			31,692			663			44			81			3,762			115		
BG-10 2-12 COMP	06/23/10	277 U	< LOD	184.64	31,109	31109.5	367.91	624	623.66	76.17	43 J	43.16	19.75	81 J	81.03	37.59	3,648	3647.88	128.7	115 U	< LOD	76.53
%RPD		0%			2%			6%			3%			0%			3%			0%		
BG-10-1 12-18	06/23/10	277 U	< LOD	184.68	32,192	32192.4	373.85	678	678.34	78.52	31 J	31.17	20.67	69 J	69.35	40.02	3,899	3898.83	138.69	113 J	112.97	59.4
BG-10-2 12-18	06/23/10	331 U	< LOD	220.45	42,182	42182.2	439.46	835	834.57	88.98	50 U	< LOD	33.33	93 J	93.07	46.65	5,046	5045.65	162.84	128 U	< LOD	85.11
BG-10-3 12-18	06/23/10	210 U	< LOD	139.8	19,034	19034.2	279.5	529	529.04	66.78	52 J	52.47	18.4	69 J	68.6	34.05	3,017	3017.16	114.7	103 U	< LOD	68.67
BG-10-4 12-18	06/23/10	272 U	< LOD	181.16	30,819	30818.6	365.11	438	437.85	67.23	43 U	< LOD	28.82	97 J	96.58	37.52	3,490	3490.14	127.01	130 U	< LOD	86.91
BG-10-5 12-18	06/23/10	315 U	< LOD	209.93	38,976	38976.3	419.67	1,319	1319.03	105.02	52 U	< LOD	34.7	133 J	132.88	47.91	5,122	5121.96	165.24	127 U	< LOD	84.74
Mean		281			32,641			760			46			92			4,115			120		
BG-10 12-18 COMP	06/23/10	286 U	< LOD	190.53	33,398	33397.9	383.03	765	764.57	82.83	45 J	44.56	21.29	127 J	126.8	41.82	4,415	4415.48	143.45	127 U	< LOD	84.62
%RPD		2%			2%			1%			1%			32%			7%			6%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Cobalt			Iron			Manganese			Chromium			Vanadium			Titanium			Scandium		
					Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg											
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-11-1 0-2	06/27/10	209 U	< LOD	139	18,720	18719.9	277.68	678	678.11	73.47	36 J	35.78	17.58	65 J	64.6	32.47	3,200	3200.4	111.18	109 U	< LOD	72.52
BG-11-2 0-2	06/27/10	220 U	< LOD	146.72	20,888	20888.4	293.23	883	883.24	81.92	41 U	< LOD	27.28	75 J	75.31	34.12	3,102	3101.97	115.67	89 J	89.48	51.25
BG-11-3 0-2	06/27/10	238 U	< LOD	158.9	23,880	23879.5	316.16	864	863.82	82.67	39 J	38.77	18.66	61 J	61.37	34.73	3,303	3303.32	119.17	76 J	76.4	48.45
BG-11-4 0-2	06/27/10	202 U	< LOD	134.51	18,377	18377	272.43	776	775.69	76.49	38 U	< LOD	25.11	87 J	87.21	31.85	3,330	3330.12	109.01	113 J	112.73	44.47
BG-11-5 0-2	06/27/10	293 U	< LOD	195.13	34,963	34962.6	393.16	993	992.54	91.85	46 U	< LOD	30.68	89 U	< LOD	59.42	3,833	3832.91	138	117 J	117.24	61.66
Mean		232			23,366			839			40			75			3,354			101		
BG-11 0-2 COMP	06/27/10	238 U	< LOD	158.37	24,090	24089.6	317.62	807	806.84	80.72	27 J	27.44	17.69	54 J	53.81	32.79	3,161	3160.79	113.08	102 J	102.44	47.61
%RPD		2%			3%			4%			39%			33%			6%			1%		
BG-11-1 2-12	06/27/10	244 U	< LOD	162.35	25,395	25394.9	328.33	626	626.38	73.9	47 J	46.72	19.36	70 J	69.93	37.21	3,866	3865.88	129.13	82 J	81.96	51.01
BG-11-2 2-12	06/27/10	255 U	< LOD	169.71	27,258	27258.1	342.73	763	762.61	80.34	43 J	42.54	19.57	79 J	78.67	37.33	3,517	3516.87	127.64	117 U	< LOD	78.28
BG-11-3 2-12	06/27/10	280 U	< LOD	186.99	31,756	31755.7	374.22	802	802.32	84.09	47 J	47.23	20.52	71 J	70.76	40.01	3,996	3995.53	138.33	122 U	< LOD	81.22
BG-11-4 2-12	06/27/10	265 U	< LOD	176.71	29,500	29499.6	358.86	776	776.05	81.98	31 J	31.28	20.27	96 J	95.95	42.34	4,829	4828.8	147.38	119 U	< LOD	79.31
BG-11-5 2-12	06/27/10	257 U	< LOD	171.51	27,826	27826	347.4	786	786.13	81.89	39 U	< LOD	26.01	71 J	71.37	34.16	3,295	3294.91	117.1	79 J	79.06	51.2
Mean		260			28,347			751			41			77			3,901			104		
BG-11 2-12 COMP	06/27/10	265 U	< LOD	176.72	29,539	29539	356.51	753	752.91	80.61	41 J	40.88	19.79	75 J	74.68	38.16	4,083	4083.34	133.01	101 J	101.04	56.21
%RPD		2%			4%			0%			1%			3%			5%			3%		
BG-11-1 12-18	06/27/10	260 U	< LOD	173.23	29,564	29564.5	352.67	488	488.45	68.35	47 J	47.42	21.35	66 J	66.03	40.32	3,934	3934.2	139.52	117 U	< LOD	77.85
BG-11-2 12-18	06/27/10	319 U	< LOD	212.96	40,420	40420.1	428.17	848	848.34	88.83	50 U	< LOD	33.5	93 J	92.76	44.24	4,280	4280.29	152.44	109 J	108.95	60.15
BG-11-3 12-18	06/27/10	281 U	< LOD	187.3	32,158	32157.6	379.21	877	877.3	87.73	33 J	33.2	20.14	94 J	94.08	39.38	3,583	3583.45	133.3	106 J	105.59	57.53
BG-11-4 12-18	06/27/10	264 U	< LOD	175.71	30,352	30351.9	357.91	845	845.08	83.73	37 J	37.48	21.09	78 J	78.27	43.74	5,321	5321.28	155.34	125 U	< LOD	83.32
BG-11-5 12-18	06/27/10	286 U	< LOD	190.53	31,859	31858.5	383.26	768	768.11	84.59	40 J	39.67	19.18	86 J	85.72	35.69	3,038	3038.24	120.03	134 U	< LOD	89.4
Mean		282			32,871			765			41			83			4,031			118		
BG-11 12-18 COMP	06/27/10	303 U	< LOD	202.2	35,903	35903.1	403.77	1,242	1241.78	102.44	54 J	53.78	21.28	105 J	105.45	41.44	3,923	3922.84	141	126 J	125.72	60.01
%RPD		7%			9%			48%			26%			23%			3%			6%		
BG-12-1 0-2	06/26/10	258 U	< LOD	172.07	27,248	27248	347.75	857	857.07	85.99	42 U	< LOD	27.84	70 J	69.63	36.21	3,513	3512.84	124.42	132 J	132.35	56.92
BG-12-2 0-2	06/26/10	257 U	< LOD	171.04	28,101	28101.5	341.22	772	771.53	79.74	39 J	38.51	20.54	87 J	86.92	40.98	4,156	4156.03	140.98	118 U	< LOD	78.58
BG-12-3 0-2	06/26/10	233 U	< LOD	155.58	23,507	23507	310.53	875	874.77	82.29	44 U	< LOD	29.46	87 J	87.39	36.99	3,313	3312.79	125.07	117 U	< LOD	78.3
BG-12-4 0-2	06/26/10	232 U	< LOD	154.79	23,386	23385.8	313.37	1,115	1115.2	91.83	48 J	47.62	19.27	57 J	56.93	35.59	3,286	3285.93	122.19	118 U	< LOD	78.69
BG-12-5 0-2	06/26/10	241 U	< LOD	160.53	24,681	24680.8	320	1,001	1000.71	87.52	35 J	35.31	19.6	58 J	58.39	37.58	3,385	3384.51	128.09	105 U	< LOD	70.13
Mean		244			25,385			924			42			72			3,531			118		
BG-12 0-2 COMP	06/26/10	260 U	< LOD	173.27	27,515	27515	344.85	861	860.73	84.75	50 J	49.53	19.95	86 J	85.96	38.78	3,643	3642.77	131.74	118 U	< LOD	78.46
%RPD		6%			8%			7%			18%			18%			3%			0%		
BG-12-1 2-12	06/26/10	272 U	< LOD	181.36	30,000	29999.9	363.16	698	698.35	79.65	43 U	< LOD	28.82	60 J	59.78	37.32	3,476	3475.71	128.28	130 U	< LOD	86.7
BG-12-2 2-12	06/26/10	308 U	< LOD	205.66	37,431	37431.4	415.13	802	801.86	86.96	48 U	< LOD	32.05	98 J	98.32	44	4,986	4985.94	154.57	137 U	< LOD	91.39
BG-12-3 2-12	06/26/10	283 U	< LOD	188.97	33,391	33390.8	382.34	755	755.24	82.28	42 J	42.04	21.33	77 J	77.02	42.02	4,369	4368.86	146.29	106 J	105.56	58.33
BG-12-4 2-12	06/26/10	235 U	< LOD	156.51	25,139	25139.2	319.68	649	649.09	73.01	44 J	44.19	20.35	73 J	73.44	40.12	4,236	4236.28	139.51	121 U	< LOD	80.52
BG-12-5 2-12	06/26/10	267 U	< LOD	178.17	29,924	29924	358.1	742	742.25	80.12	42 J	42.28	20.46	98 J	97.95	39.95	4,068	4067.51	136.9	114 U	< LOD	76.11
Mean		273			31,177			729			44			81			4,227			122		
BG-12 2-12 COMP	06/26/10	262 U	< LOD	174.56	29,108	29107.5	352.31	771	771.08	80.95	37 J	36.68	20.72	95 J	95.18	41.44	4,363	4363.14	143.38	127 U	< LOD	84.73
%RPD		4%			7%			6%			17%			16%			3%			4%		
BG-12-1 12-18	06/26/10	260 U	< LOD	173.08	28,532	28532.4	353.61	634	634.09	76.04	42 U	< LOD	27.97	68 J	67.94	36.17	3,439	3438.89	124.15	108 J	108.43	59.52
BG-12-2 12-18	06/26/10	293 U	< LOD	195.61	34,503	34502.6	391.17	652	652.34	78.69	48 U	< LOD	31.73	78 J	78.38	44.51	4,819	4819.21	155.93	135 U	< LOD	89.71
BG-12-3 12-18	06/26/10	286 U	< LOD	190.76	32,103	32103.5	379.7	697	696.88	80.77	41 J	41.2	20.81	87 J	87.05	41.81	4,773	4772.53	147.02	116 J	115.85	59.48
BG-12-4 12-18	06/26/10	268 U	< LOD	178.69	29,926	29926.5	358.61	819	819.02	83.78	49 J	49.13	20.96	65 J	64.82	40.69	4,345	4344.56	143.09	133 J	133.01	61.23
BG-12-5 12-18	06/26/10	343 U	< LOD	228.63	45,916	45916	458.06	978	978.3	95.36	53 U	< LOD	35.62	143 J	143.41	49.64	5,189	5188.55	170.43	132 U	< LOD	88.32
Mean		290			34,196			756			47			88			4,513			125		
BG-12 12-18 COMP	06/26/10	293 U	< LOD	195.58	34,040	34039.9	389.48	775	774.55	83.7	45 J	45.32	20.98	98 J	97.98	41.32	4,367	4367.42	143.46	150 J	149.85	60.54
%RPD		1%			0%			2%			3%			11%			3%			18%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Cobalt			Iron			Manganese			Chromium			Vanadium			Titanium			Scandium		
					Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg											
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-13-1 0-2	06/22/10	347 J	346.68	178.27	52,965	52964.8	527.37	1,002	1001.9	104.75	62 J	61.94	21.94	145 J	145.46	42.47	3,774	3774	141.41	141 J	140.78	65.67
BG-13-2 0-2	06/22/10	269 U	< LOD	179.25	28,442	28441.5	355.42	658	657.6	77.72	64 J	64.39	20.03	83 J	83.26	36.15	3,316	3316.17	122.97	104 J	103.85	55.78
BG-13-3 0-2	06/22/10	223 U	< LOD	148.72	20,953	20953.4	293.21	620	620.05	71.3	55 J	54.75	18.47	63 J	62.8	33.38	3,087	3086.82	113.67	89 J	88.68	45.63
BG-13-4 0-2	06/22/10	216 U	< LOD	144.3	20,912	20911.9	291.77	644	644.26	71.99	45 J	44.58	18.17	58 J	58.44	33.41	3,254	3253.74	114.55	109 U	< LOD	72.54
BG-13-5 0-2	06/22/10	202 U	< LOD	134.37	18,155	18154.7	269.37	669	668.88	71.71	53 J	53.06	18.06	70 J	70.16	32.79	3,127	3127.46	111.28	96 U	< LOD	64.04
Mean		251			28,285			719			56			84			3,312			108		
BG-13 0-2 COMP	06/22/10	237 U	< LOD	157.89	24,098	24097.9	317.15	636	635.79	73.32	65 J	65.18	19.02	89 J	88.53	34.31	3,181	3180.74	115.56	107 U	< LOD	71.59
%RPD		6%			16%			12%			15%			6%			4%			1%		
BG-13-1 2-12	06/22/10	424 U	< LOD	282.72	62,790	62789.7	567.03	944	943.85	103.32	66 J	65.53	25.23	170 J	169.7	49.19	4,347	4347.41	164.07	160 U	< LOD	106.36
BG-13-2 2-12	06/22/10	292 U	< LOD	194.86	34,108	34108.3	385.66	522	522.3	72.56	43 J	42.7	21.65	115 J	115.32	41.57	3,810	3810.33	140.46	136 U	< LOD	90.86
BG-13-3 2-12	06/22/10	237 U	< LOD	158.26	22,802	22801.6	311.08	581	580.55	71.1	39 U	< LOD	26.02	93 J	93.37	34.29	3,178	3177.61	114.88	87 J	87.35	48.16
BG-13-4 2-12	06/22/10	235 U	< LOD	156.73	23,007	23007.2	314.72	624	623.73	73.63	34 J	33.6	16.95	52 J	51.62	30.02	2,583	2583.38	101.96	109 J	108.97	48.91
BG-13-5 2-12	06/22/10	244 U	< LOD	162.35	24,387	24386.9	323.73	543	543.39	70.54	30 J	29.5	18.47	65 J	64.96	35.62	3,667	3667.32	123.63	115 J	114.59	55.02
Mean		286			33,419			643			42			99			3,517			121		
BG-13 2-12 COMP	06/22/10	316 U	< LOD	210.35	39,818	39818.4	425	766	766.16	85.68	38 J	37.65	20.43	104 J	104.19	38.38	3,405	3404.78	129.41	133 U	< LOD	88.5
%RPD		10%			17%			17%			11%			5%			3%			9%		
BG-13-1 12-18	06/22/10	324 U	< LOD	215.77	40,826	40825.6	433.83	495	494.96	74.72	48 U	< LOD	32.18	132 J	131.55	41.58	3,476	3476.38	139.2	221 U	< LOD	147.41
BG-13-2 12-18	06/22/10	267 U	< LOD	178.32	29,169	29168.7	358.2	533	532.84	71.79	44 J	43.91	19.95	82 U	< LOD	54.54	3,299	3299.08	127.05	213 U	< LOD	141.8
BG-13-3 12-18	06/22/10	242 U	< LOD	161.62	22,840	22839.6	318.52	569	569.29	72.05	41 U	< LOD	27.32	57 J	57.2	32.59	2,584	2584.05	113.13	241 J	240.89	117.87
BG-13-4 12-18	06/22/10	227 U	< LOD	151.64	22,525	22524.7	305.66	1,703	1702.85	109.31	42 U	< LOD	28.11	102 J	102.39	35.94	2,719	2718.84	117.76	104 J	103.57	60.43
BG-13-5 12-18	06/22/10	259 U	< LOD	172.83	28,500	28499.5	347.48	445	444.84	66.07	37 J	36.52	20.18	80 J	79.72	38.03	3,785	3784.79	131.3	130 U	< LOD	86.61
Mean		264			28,772			749			42			91			3,173			182		
BG-13 12-18 COMP	06/22/10	257 U	< LOD	171.38	27,157	27157.4	342.84	1,060	1060.15	92.02	37 J	36.8	20.09	64 J	64.4	37.22	3,047	3046.73	127.03	211 U	< LOD	140.63
%RPD		3%			6%			34%			14%			34%			4%			15%		
BG-14-1 0-2	06/23/10	308 U	< LOD	205.05	36,380	36380	413.08	754	754.1	85.72	43 U	< LOD	28.43	119 J	118.61	37.19	3,584	3583.62	125.25	103 J	103.4	56.9
BG-14-2 0-2	06/23/10	289 U	< LOD	192.62	32,635	32635.1	383.2	718	717.78	81.98	32 J	31.98	19.75	100 J	100.2	37.75	3,254	3254.2	126.32	127 U	< LOD	84.49
BG-14-3 0-2	06/23/10	226 U	< LOD	150.58	21,787	21786.6	301.44	821	820.78	80.43	67 J	66.93	19.04	88 J	87.78	34.79	3,216	3216.19	117.14	89 J	89.32	44
BG-14-4 0-2	06/23/10	252 U	< LOD	168.14	26,240	26239.5	334.67	653	653.22	75.5	40 J	40.37	18.93	59 J	59.44	35.63	3,449	3448.5	122.52	107 U	< LOD	71.24
BG-14-5 0-2	06/23/10	222 U	< LOD	147.67	20,568	20567.7	293.21	732	731.68	76.85	41 J	41.21	17.53	62 J	61.93	32.31	3,055	3055.25	110.2	93 J	93.3	48.6
Mean		259			27,522			736			45			86			3,312			104		
BG-14 0-2 COMP	06/23/10	238 U	< LOD	158.83	24,133	24133	319.73	619	618.71	73.12	32 J	31.77	17.68	73 J	73.21	32.62	3,124	3124.12	111.3	105 U	< LOD	69.99
%RPD		9%			13%			17%			33%			16%			6%			1%		
BG-14-1 2-12	06/23/10	322 U	< LOD	214.56	40,571	40570.6	431.61	586	586.15	78.98	43 U	< LOD	28.99	86 J	85.64	36.45	3,171	3171.31	123.25	133 J	133.26	60.05
BG-14-2 2-12	06/23/10	258 U	< LOD	171.96	27,876	27875.9	349.33	514	514.32	70.54	36 J	35.91	18.71	95 J	95.07	34.29	3,087	3086.83	115.21	120 U	< LOD	79.77
BG-14-3 2-12	06/23/10	229 U	< LOD	152.52	22,747	22746.8	305.86	505	504.8	66.65	33 J	32.96	18.48	88 J	87.81	35.36	3,504	3504.1	120.77	110 J	109.96	50.65
BG-14-4 2-12	06/23/10	299 U	< LOD	199.29	36,292	36292.4	401.88	606	606.46	77.49	46 U	< LOD	30.57	71 J	71.21	41	3,928	3927.51	141.12	112 U	< LOD	74.74
BG-14-5 2-12	06/23/10	210 U	< LOD	139.75	18,854	18853.8	278.75	432	432.24	62.49	37 U	< LOD	24.93	72 U	< LOD	48.28	3,122	3121.61	111.05	72 J	71.82	46.58
01/00/00		264			29,268			529			39			82			3,362			109		
BG-14 2-12 COMP	06/23/10	238 U	< LOD	158.98	24,086	24086.1	319.54	625	625.15	73.48	40 U	< LOD	26.75	78 J	78.12	33.54	3,150	3150.21	113.9	96 J	95.89	48.76
%RPD		10%			19%			17%			3%			5%			7%			13%		
BG-14-1 12-18	06/23/10	174 U	< LOD	115.74	13,715	13714.5	235.37	336	335.92	54.93	30 J	30.14	15.29	58 U	< LOD	38.88	2,092	2092.3	87.83	80 J	80.19	50.96
BG-14-2 12-18	06/23/10	236 U	< LOD	157.47	24,163	24163	322.89	585	584.88	72.04	36 U	< LOD	23.78	63 U	< LOD	41.86	2,378	2377.61	94.9	97 U	< LOD	64.66
BG-14-3 12-18	06/23/10	255 U	< LOD	170.23	27,446	27446.5	340.43	534	534.4	70.27	34 J	33.65	20.34	91 J	90.81	39.95	3,643	3642.87	135.24	115 U	< LOD	76.83
BG-14-4 12-18	06/23/10	285 U	< LOD	190.2	33,371	33370.5	383.21	670	670.11	78.82	39 J	39.24	21.75	78 J	78.35	44.78	4,113	4112.96	152.51	128 U	< LOD	85.44
BG-14-5 12-18	06/23/10	272 U	< LOD	181.29	31,299	31298.8	371.55	752	751.53	81.93	45 U	< LOD	30.17	105 J	104.54	38.93	3,621	3621.18	131.81	107 J	107.49	54.77
Mean		244			25,999			575			37			79			3,169			105		
BG-14 12-18 COMP	06/23/10	265 U	< LOD	176.74	29,025	29025.4	353.38	550	550.05	72.24	32 J	31.9	20.29	89 J	88.52	39.4	3,796	3796.39	134.73	91 J	91.25	56.54
%RPD		8%			11%			5%			14%			12%			18%			15%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Cobalt			Iron			Manganese			Chromium			Vanadium			Titanium			Scandium		
					Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg											
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-15-1 0-2	06/25/10	261 U	< LOD	173.8	29,030	29029.9	349.37	542	542.14	70.59	34 J	34.35	20.3	83 J	82.77	36.36	3,002	3001.75	122.33	128 U	< LOD	85.65
BG-15-2 0-2	06/25/10	228 U	< LOD	152.15	22,336	22336.1	304.16	566	566.41	69.78	38 J	38.37	18.26	79 J	78.8	34.05	2,878	2877.64	113.65	111 U	< LOD	73.92
BG-15-3 0-2	06/25/10	241 U	< LOD	160.5	24,062	24061.6	319.2	548	547.61	69.63	41 J	41.42	18.29	73 J	72.97	33.99	3,130	3129.73	115.29	75 J	74.6	48.39
BG-15-4 0-2	06/25/10	224 U	< LOD	149.34	22,436	22436.5	301.1	554	553.66	68.17	51 J	50.88	18.78	65 J	65.28	33.41	2,822	2822.29	112.34	105 U	< LOD	70.28
BG-15-5 0-2	06/25/10	201 U	< LOD	134.13	18,614	18614.2	269.04	1,191	1191.03	89.7	41 U	< LOD	27.62	76 U	< LOD	50.49	2,664	2664.18	113.44	126 U	< LOD	84.28
Mean		231			23,296			680			41			75			2,899			109		
BG-15 0-2 COMP	06/25/10	222 U	< LOD	148.13	21,807	21806.7	298.76	599	598.65	70.32	40 J	39.68	17.71	68 J	67.86	31.7	2,706	2705.97	106.39	111 U	< LOD	73.7
%RPD		4%			7%			13%			2%			10%			7%			2%		
BG-15-1 2-12	06/25/10	220 U	< LOD	146.5	20,967	20966.7	290.95	431	430.6	61.89	38 J	38.36	18.65	76 U	< LOD	50.4	2,857	2857.09	114.81	89 J	89.03	52.39
BG-15-2 2-12	06/25/10	206 U	< LOD	137.11	19,499	19498.7	281.81	422	422.31	61.2	33 J	32.71	17.49	60 J	60.44	31.89	2,878	2878.49	108.03	101 U	< LOD	67.53
BG-15-3 2-12	06/25/10	209 J	209.19	111.73	25,208	25208.2	327.78	406	405.83	64.03	62 J	62.2	19.52	61 J	60.98	36.35	3,443	3442.54	124.66	117 U	< LOD	77.94
BG-15-4 2-12	06/25/10	230 U	< LOD	153.22	22,744	22744.4	305.12	337	337.04	58.32	36 U	< LOD	24.29	47 J	47.29	28.38	2,231	2230.51	94.94	86 U	< LOD	57.09
BG-15-5 2-12	06/25/10	221 U	< LOD	147.51	20,731	20730.6	292.31	817	816.66	79.66	40 U	< LOD	26.65	60 J	59.91	33.8	2,969	2968.93	114.34	108 J	107.67	53.2
Mean		217			21,830			483			42			61			2,876			100		
BG-15 2-12 COMP	06/25/10	240 U	< LOD	160.19	24,583	24582.5	321.86	623	623.34	72.97	64 J	63.96	19.29	54 J	54.41	34.98	3,252	3251.61	120.14	117 U	< LOD	77.76
%RPD		10%			12%			25%			42%			12%			12%			15%		
BG-15-1 12-18	06/25/10	177 U	< LOD	117.68	14,585	14585	238.5	323	323.49	53.5	37 U	< LOD	24.83	71 U	< LOD	47	3,040	3040.49	107.66	106 U	< LOD	70.81
BG-15-2 12-18	06/25/10	193 U	< LOD	128.45	16,863	16863.4	257.56	360	359.85	56.94	38 U	< LOD	25.07	74 U	< LOD	49.19	3,558	3558.37	115.06	79 J	78.64	49.79
BG-15-3 12-18	06/25/10	290 U	< LOD	193.66	33,498	33497.9	387.61	636	636.34	78.28	45 U	< LOD	30.07	119 J	119.05	38.29	3,245	3244.95	127.76	112 J	111.93	68.73
BG-15-4 12-18	06/25/10	237 U	< LOD	157.73	23,584	23583.7	312.98	450	449.91	64.95	42 U	< LOD	27.94	77 J	76.69	34.49	2,925	2925.35	115.7	106 U	< LOD	70.42
BG-15-5 12-18	06/25/10	228 U	< LOD	152.01	22,001	22000.5	301.75	679	678.91	74.41	40 U	< LOD	26.81	76 U	< LOD	50.81	3,157	3156.85	117.32	91 J	90.9	50.76
Mean		225			22,106			490			40			83			3,185			99		
BG-15 12-18 COMP	06/25/10	246 U	< LOD	164.31	25,486	25485.9	328.76	595	594.62	72.68	38 J	37.98	19.33	70 J	69.98	35.34	3,056	3056.43	119.7	119 U	< LOD	79.05
%RPD		9%			14%			19%			6%			17%			4%			19%		
BG-16-1 0-2	06/25/10	214 J	214.06	120.9	28,193	28192.9	355.95	892	892.11	87.98	48 J	47.88	18.99	85 J	85.22	34.92	3,248	3247.97	118.51	106 J	105.7	52.66
BG-16-2 0-2	06/25/10	266 U	< LOD	177.66	27,856	27856.1	355.45	1,329	1329.27	103.82	57 J	57.09	19.25	72 J	71.76	34.36	3,042	3042	116.64	84 J	83.98	55.49
BG-16-3 0-2	06/26/10	222 U	< LOD	148.13	22,337	22336.6	299.93	808	808.44	78.6	46 J	45.9	19.02	58 J	57.69	35.81	3,345	3345.16	122.32	78 J	78.15	48.85
BG-16-4 0-2	06/26/10	246 U	< LOD	164.11	25,490	25490.3	330.66	1,160	1160.11	94.88	43 U	< LOD	28.63	89 J	88.85	36.84	3,394	3394.41	125	95 J	95.44	57.36
BG-16-5 0-2	06/26/10	222 U	< LOD	148.3	22,464	22463.9	303.35	402	402.49	61.44	34 J	33.6	18.13	65 J	65.12	33.42	2,958	2957.99	112.94	99 U	< LOD	66.2
Mean		234			25,268			918			46			74			3,197			92		
BG-16 0-2 COMP	06/26/10	242 U	< LOD	161.13	24,768	24768.1	324.08	789	788.93	80.66	35 J	35.42	18.54	56 J	56.12	34.33	2,952	2952.19	116.32	81 J	81.32	50.35
%RPD		3%			2%			15%			26%			27%			8%			13%		
BG-16-1 2-12	06/25/10	275 U	< LOD	183.39	30,151	30151	366.18	737	737.35	81.54	40 J	40.46	19.29	66 J	66.04	35.82	3,479	3478.58	123.41	113 U	< LOD	75.59
BG-16-2 2-12	06/25/10	234 U	< LOD	156.3	21,989	21988.6	308.6	577	577.03	71.38	24 J	24.16	15.96	66 J	66.26	27	2,045	2044.57	89.14	82 J	82.09	47.78
BG-16-3 2-12	06/26/10	219 U	< LOD	146.31	21,375	21374.7	292.77	610	610.01	70.34	40 J	39.6	18.95	83 U	< LOD	55.28	3,725	3724.88	127.46	79 J	79.27	48.68
BG-16-4 2-12	06/26/10	246 U	< LOD	164.27	26,420	26420	335.65	926	925.68	86.37	44 U	< LOD	29.35	90 J	90.49	37.34	3,319	3318.59	126.03	111 J	111.25	58.95
BG-16-5 2-12	06/26/10	283 U	< LOD	188.42	33,208	33208.3	379.36	348	347.5	63.55	41 J	40.93	20	66 J	65.52	37.2	3,504	3503.62	128.11	75 J	74.88	49.44
Mean		251			26,629			640			38			74			3,214			92		
BG-16 2-12 COMP	06/26/10	258 U	< LOD	172.27	28,154	28153.7	347.79	732	731.81	79.43	43 J	43.34	19.57	67 J	67.02	37.34	3,238	3238.3	126.57	109 J	108.54	52.84
%RPD		3%			6%			13%			13%			10%			1%			17%		
BG-16-1 12-18	06/25/10	186 J	185.88	117.5	28,098	28098.1	347.01	674	673.84	76.71	39 J	38.87	19.95	84 U	< LOD	55.94	3,561	3560.7	129.02	115 U	< LOD	76.75
BG-16-2 12-18	06/25/10	232 U	< LOD	154.81	23,428	23427.9	313.49	556	555.64	70.08	36 U	< LOD	23.77	71 J	70.83	27.8	2,222	2221.5	92.04	98 U	< LOD	65.19
BG-16-3 12-18	06/26/10	228 U	< LOD	151.78	22,915	22915.2	307.18	720	719.71	76.29	48 J	47.88	18.6	79 J	79.01	35.51	3,529	3529.2	121.14	105 U	< LOD	69.71
BG-16-4 12-18	06/26/10	263 U	< LOD	175.07	28,820	28820.4	354.86	787	787.34	82.38	40 U	< LOD	26.39	58 J	57.53	33.11	2,990	2989.57	113.48	123 U	< LOD	81.81
BG-16-5 12-18	06/26/10	318 U	< LOD	212.22	39,484	39483.6	424.45	534	534.41	75.87	38 J	37.93	22.01	108 J	108.06	43.02	3,857	3856.76	145.48	129 U	< LOD	86.27
Mean		245			28,549			654			40			80			3,232			114		
BG-16 12-18 COMP	06/26/10	237 U	< LOD	157.81	23,984	23984.5	315.71	533	532.87	68.46	44 J	44.26	19.04	72 J	71.6	35.8	3,627	3627.41	123.48	111 U	< LOD	73.69
%RPD		3%			17%			20%			9%			11%			12%			3%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Calcium			Potassium			Sulfur			Barium			Cesium			Tellurium			Antimony		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-1-1 0-2	06/29/10	11,092	11092.3	269.51	16,453	16453.3	447.98	914 U	< LOD	609.64	973	973.36	38.52	85	85.29	9.75	167	166.93	31.28	38 J	38.47	11.49
BG-1-2 0-2	06/29/10	11,821	11821.2	276.97	18,944	18944.4	475.45	958 U	< LOD	638.86	578	578.32	34.63	61	60.88	9.24	86 J	86.28	29.33	29 J	28.67	10.95
BG-1-3 0-2	06/29/10	10,937	10936.9	258.25	16,259	16259.4	430.32	892 U	< LOD	594.53	691	690.84	36.9	89	89.1	9.8	175	174.62	31.49	41 J	40.64	11.57
BG-1-4 0-2	06/29/10	12,524	12524	278.95	18,915	18914.6	467.58	1,015 U	< LOD	676.73	595	595.35	36.43	63	63.31	9.72	103 J	103.32	30.94	25 J	25.41	11.42
BG-1-5 0-2	06/29/10	12,467	12466.6	309.95	16,254	16254	485.86	1,112 U	< LOD	741.28	618	617.83	40.08	79	78.85	10.74	101 J	101.04	33.91	24 J	24.07	12.5
Mean		11,768			17,365			978			691			75			126			31		
BG-1 0-2 COMP	06/29/10	11,490	11490.2	269.81	17,717	17716.7	455.83	949 U	< LOD	632.5	478	478.15	35.08	47 J	47.31	9.47	80 J	79.82	30.21	25 U	< LOD	16.64
%RPD		2%			2%			3%			36%			46%			45%			23%		
BG-1-1 2-12	06/29/10	11,001	11001.2	269.52	15,754	15753.9	441.18	1,072 U	< LOD	714.67	562	561.83	35.59	81	80.94	9.63	130 J	130.06	30.66	42 J	41.57	11.42
BG-1-2 2-12	06/29/10	10,617	10616.8	272.08	20,922	20921.8	507.05	1,022 U	< LOD	681.55	507	506.91	34.68	61	60.6	9.38	93 J	92.78	29.82	28 J	27.85	11.08
BG-1-3 2-12	06/29/10	11,797	11797	295.18	16,585	16585	477.98	1,107 U	< LOD	737.97	580	580.47	36.13	78	77.91	9.72	124 J	124.46	30.96	25 J	24.89	11.37
BG-1-4 2-12	06/29/10	12,986	12986.1	297.27	18,244	18244.2	482.68	943 U	< LOD	628.69	489	488.65	37.56	60	59.96	10.21	102 J	102.05	32.53	25 J	24.74	12
BG-1-5 2-12	06/29/10	15,125	15124.6	326.64	15,798	15797.7	467.51	1,037 U	< LOD	691.26	601	601.35	39.48	77	77.45	10.6	114 J	113.83	33.63	24 J	24.45	12.34
Mean		12,305			17,461			1,036			548			71			113			29		
BG-1 2-12 COMP	06/29/10	12,326	12325.5	286.2	18,177	18176.8	474.15	1,056 U	< LOD	703.88	505	504.64	35.72	48 J	47.75	9.6	55 J	54.59	30.37	21 J	20.72	11.32
%RPD		0%			4%			2%			8%			39%			69%			31%		
BG-1-1 12-18	06/29/10	13,161	13160.8	316.1	14,687	14686.8	464.33	1,168 U	< LOD	778.54	537	536.58	34.97	67	66.58	9.43	102 J	102.42	30	30 J	30.45	11.14
BG-1-2 12-18	06/29/10	10,849	10848.9	302.24	18,574	18574.2	528.61	1,174 U	< LOD	782.85	549	548.88	35.42	49	48.95	9.45	109 J	108.62	30.36	26 J	25.7	11.21
BG-1-3 12-18	06/29/10	13,198	13198	303.33	17,911	17911.1	484.83	1,011 U	< LOD	674.26	571	571.25	35.87	75	75.02	9.66	115 J	114.79	30.7	41 J	40.91	11.47
BG-1-4 12-18	06/29/10	13,795	13794.7	297.11	19,084	19084.4	479.84	957 U	< LOD	637.91	705	705.19	36.75	54	53.57	9.56	80 J	80.01	30.38	25 U	< LOD	16.75
BG-1-5 12-18	06/29/10	13,284	13283.7	248.66	15,934	15933.7	380.89	725 U	< LOD	483.25	608	607.97	35.75	76	76.38	9.57	145 J	145.41	30.68	45 J	44.82	11.41
Mean		12,857			17,238			1,007			594			64			110			33		
BG-1 12-18 COMP	06/29/10	14,121	14120.6	306.48	18,094	18094	478.73	1,034 U	< LOD	689.03	691	691	36.55	71	70.58	9.61	118 J	117.95	30.64	36 J	35.72	11.38
%RPD		9%			5%			3%			15%			10%			7%			7%		
BG-2-1 0-2	06/30/10	14,881	14881.1	298.23	16,886	16886.3	443.29	949 U	< LOD	632.42	622	621.72	35.88	68	68.35	9.55	118 J	117.87	30.46	39 J	39.42	11.35
BG-2-2 0-2	06/30/10	11,072	11071.8	253.33	15,321	15321	410.02	907 U	< LOD	604.83	524	524.11	33.86	48	47.89	9.06	96 J	96.16	29.04	25 J	24.96	10.76
BG-2-3 0-2	06/30/10	12,602	12602.3	275.53	16,870	16870	439.57	936 U	< LOD	623.68	576	575.8	35.75	71	71.01	9.6	141 J	141.24	30.82	44 J	43.93	11.47
BG-2-4 0-2	06/30/10	12,118	12118.4	266.68	16,278	16278.1	425.9	932 U	< LOD	621.35	636	636.47	34.8	71	71.39	9.24	105 J	104.68	29.34	41 J	40.6	11
BG-2-5 0-2	06/30/10	13,578	13577.5	308.35	10,347	10346.5	386.81	1,027 U	< LOD	684.62	298	297.73	31.43	19 J	19.09	8.65	62 U	< LOD	41.3	23 U	< LOD	15.34
Mean		12,850			15,140			950			531			55			104			34		
BG-2 0-2 COMP	06/30/10	12,620	12619.5	283.34	16,575	16575.1	447.62	991 U	< LOD	660.67	564	564.35	34.82	69	68.92	9.35	117 J	117.23	29.85	26 J	25.89	10.99
%RPD		2%			9%			4%			6%			22%			11%			28%		
BG-2-1 2-12	06/30/10	14,412	14411.9	304.76	17,287	17286.5	463.13	1,037 U	< LOD	691.65	548	548.45	36.07	67	67.36	9.72	143 J	143.44	31.26	30 J	29.55	11.46
BG-2-2 2-12	06/30/10	11,562	11561.9	272.92	15,821	15820.9	438.72	856 U	< LOD	570.64	610	609.86	35.57	74	74.48	9.51	156	155.64	30.61	47 J	46.55	11.37
BG-2-3 2-12	06/30/10	12,333	12332.8	301.39	14,117	14116.9	448.13	1,025 U	< LOD	683.59	567	566.92	34.73	59	58.89	9.28	111 J	110.92	29.7	26 J	25.91	10.96
BG-2-4 2-12	06/30/10	11,221	11220.8	280.82	17,060	17060	470.41	953 U	< LOD	635.63	572	571.65	35.26	61	61.27	9.43	126 J	126.27	30.27	30 J	29.69	11.16
BG-2-5 2-12	06/30/10	12,805	12804.5	311.92	8,327	8326.87	366.88	1,111 U	< LOD	740.99	457	456.87	33.72	54	53.99	9.17	105 J	105.46	29.38	18 J	18.04	10.78
Mean		12,467			14,522			996			551			63			128			30		
BG-2 2-12 COMP	06/30/10	12,451	12451.1	297.4	16,156	16155.5	466.33	1,075 U	< LOD	716.51	740	740.35	36.29	76	75.56	9.48	124 J	123.66	30.22	29 J	28.94	11.13
%RPD		0%			11%			8%			29%			19%			3%			4%		
BG-2-1 12-18	06/30/10	10,475	10474.5	281.17	17,162	17162.4	484.69	1,116 U	< LOD	744.05	470	469.77	34.35	64	64.16	9.37	121 J	120.63	30	30 J	30.05	11.08
BG-2-2 12-18	06/30/10	19,210	19210	345.52	18,229	18228.7	474.8	972 U	< LOD	648.23	568	567.65	35.51	82	82.46	9.6	150 J	150.18	30.73	44 J	44.34	11.41
BG-2-3 12-18	06/30/10	16,085	16084.5	347.94	11,754	11754.4	427.44	1,067 U	< LOD	711.59	669	669.13	35.97	70	70.37	9.49	114 J	113.91	30.25	29 J	29.02	11.18
BG-2-4 12-18	06/30/10	18,593	18593.3	350.61	18,649	18649.1	492.94	995 U	< LOD	663.23	623	623.17	36.97	84	84.31	9.91	147 J	146.74	31.65	27 J	27.2	11.57
BG-2-5 12-18	06/30/10	20,168	20167.6	375.55	6,410	6410.33	327.4	1,052 U	< LOD	701.39	518	517.65	34.49	55	54.58	9.28	99 J	98.91	29.66	20 J	20.35	10.9
Mean		16,906			14,441			1,040			570			71			126			30		
BG-2 12-18 COMP	06/30/10	17,339	17339.2	345.66	15,193	15193.2	458.62	1,072 U	< LOD	714.62	649	649.49	36.27	76	76.16	9.64	163	163.24	31.05	37 J	36.86	11.4
%RPD		3%			5%			3%			13%			7%			25%			21%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Calcium			Potassium			Sulfur			Barium			Cesium			Tellurium			Antimony		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-3-1 0-2	06/29/10	16,696	16695.7	334.49	19,875	19874.8	506.08	1,073 U	< LOD	715.4	597	597.36	35.88	75	74.78	9.62	152 J	151.53	30.89	43 J	43.22	11.46
BG-3-2 0-2	06/29/10	10,285	10285.4	247.62	16,586	16586.3	426.94	882 U	< LOD	588.13	577	576.95	35.21	74	73.83	9.47	149 J	148.85	30.41	46 J	46.23	11.33
BG-3-3 0-2	06/29/10	12,354	12354.4	262.76	18,316	18316.3	437.95	973 U	< LOD	648.78	366	365.57	32.94	39 J	39.01	9.05	70 J	69.83	28.89	19 J	18.63	10.7
BG-3-4 0-2	06/29/10	11,744	11743.9	259.66	16,409	16409.2	422.16	938 U	< LOD	625.11	625	624.57	35.35	70	70.29	9.4	118 J	117.52	29.99	30 J	29.54	11.07
BG-3-5 0-2	06/29/10	13,140	13140.2	280.04	21,326	21326.1	483.85	1,000 U	< LOD	666.82	609	608.52	35.23	68	68.45	9.39	125 J	125.38	30.04	29 J	28.57	11.07
Mean		12,844			18,502			973			555			65			123			33		
BG-3 0-2 COMP	06/29/10	12,434	12433.8	278.13	18,261	18260.9	460.72	983 U	< LOD	655.12	499	498.88	34.55	57	57.3	9.34	99 J	99.3	29.82	26 J	26.11	11.03
%RPD		3%			1%			1%			11%			13%			21%			25%		

BG-3-1 2-12	06/29/10	14,199	14198.6	327.69	18,082	18082.1	508.93	1,151 U	< LOD	767.34	492	492.37	35.32	61	61.1	9.58	96 J	96.11	30.49	17 J	17.07	11.2
BG-3-2 2-12	06/29/10	11,622	11621.9	255.71	21,239	21239.2	465.06	871 U	< LOD	580.8	611	611.19	35.18	76	75.89	9.41	129 J	128.97	30.03	42 J	41.7	11.18
BG-3-3 2-12	06/29/10	15,806	15805.7	334.99	16,998	16998.1	485.04	1,092 U	< LOD	728.21	432	432.19	34.61	59	58.74	9.48	104 J	104.16	30.3	25 J	24.65	11.19
BG-3-4 2-12	06/29/10	13,307	13306.5	284.06	17,543	17543.2	449.91	846 U	< LOD	563.94	607	607.2	36.13	67	66.94	9.63	130 J	130.36	30.86	37 J	37.15	11.45
BG-3-5 2-12	06/29/10	13,157	13156.5	311.44	23,997	23996.7	562.46	1,083 U	< LOD	722.2	717	717.37	36.84	74	74.32	9.66	131 J	130.64	30.87	45 J	45.05	11.51
Mean		13,618			19,572			1,009			572			67			118			33		
BG-3 2-12 COMP	06/29/10	13,872	13872.2	304.18	19,195	19195.4	490.42	1,005 U	< LOD	670.22	565	565.33	35.6	55	54.87	9.5	102 J	101.8	30.37	26 J	25.99	11.24
%RPD		2%			2%			0%			1%			20%			15%			24%		

BG-3-1 12-18	06/29/10	14,425	14425.1	340.61	18,919	18919.5	534.65	1,213 U	< LOD	808.49	663	663.3	37.34	86	86.47	9.95	129 J	128.62	31.57	47 J	46.94	11.82
BG-3-2 12-18	06/29/10	10,971	10971.4	277.67	20,517	20517.2	507.03	1,048 U	< LOD	698.59	483	483.33	34.06	68	67.72	9.28	131 J	130.52	29.75	32 J	31.69	10.97
BG-3-3 12-18	06/29/10	16,926	16926.2	348.68	16,591	16591.1	485.27	1,064 U	< LOD	709.47	486	486.09	35.41	53	53.44	9.58	122 J	122.15	30.84	30 J	30.35	11.39
BG-3-4 12-18	06/29/10	15,168	15167.6	309.06	18,741	18740.9	475.82	1,054 U	< LOD	702.52	650	649.85	36.38	82	81.77	9.69	164	164.49	31.17	36 J	35.89	11.44
BG-3-5 12-18	06/29/10	12,588	12587.6	276.91	26,578	26578.4	533.52	933 U	< LOD	621.82	709	708.91	36.53	84	83.71	9.64	170	169.83	31.01	46 J	46.48	11.49
Mean		14,016			20,269			1,062			598			75			143			38		
BG-3 12-18 COMP	06/29/10	14,941	14940.8	332.93	19,957	19956.7	528.02	1,084 U	< LOD	722.44	562	561.58	35.77	66	66.47	9.61	116 J	116.27	30.68	34 J	34.49	11.39
%RPD		6%			2%			2%			6%			12%			21%			12%		

BG-4-1 0-2	06/28/10	12,664	12663.5	314.14	17,612	17611.8	506.01	1,169 U	< LOD	779.04	470	470.46	34.34	61	60.71	9.35	104 J	104.01	29.84	27 J	26.98	11.04
BG-4-2 0-2	06/28/10	14,415	14415.1	301.02	18,014	18013.9	465.93	919 U	< LOD	612.36	525	524.61	34.31	66	65.62	9.26	119 J	118.61	29.64	25 J	24.89	10.91
BG-4-3 0-2	06/28/10	12,483	12482.8	284.39	17,442	17442.4	460.88	952 U	< LOD	634.41	560	560.14	34.61	61	60.63	9.27	111 J	110.71	29.63	30 J	30.28	10.99
BG-4-4 0-2	06/28/10	15,604	15603.8	314.87	17,275	17275.3	462.37	1,090 U	< LOD	726.77	424	423.67	33.8	33 J	33.22	9.15	65 U	< LOD	43.57	24 U	< LOD	16.21
BG-4-5 0-2	06/28/10	10,663	10662.6	236.97	11,916	11915.7	351.81	890 U	< LOD	593.3	386	385.63	31.56	16 J	16.27	8.52	51 J	51.37	27.4	23 U	< LOD	15.1
Mean		13,166			16,452			1,004			473			47			90			26		
BG-4 0-2 COMP	06/28/10	13,009	13008.5	292.62	16,971	16970.9	460.33	995 U	< LOD	663.28	486	485.79	34.62	53	52.58	9.36	94 J	94.07	29.91	19 J	19.42	11.02
%RPD		1%			3%			1%			3%			11%			4%			30%		

BG-4-1 2-12	06/28/10	12,974	12973.9	319.75	18,475	18474.6	520.02	1,161 U	< LOD	773.69	576	575.54	37.24	87	87.38	10.09	162	161.53	32.3	46 J	45.52	11.97
BG-4-2 2-12	06/28/10	14,472	14471.6	312.34	18,067	18067.3	482.31	1,015 U	< LOD	676.59	584	584.39	35.33	69	68.73	9.46	122 J	121.84	30.22	34 J	34.17	11.2
BG-4-3 2-12	06/28/10	13,512	13511.8	310.99	20,510	20510.3	520.94	1,011 U	< LOD	674.01	706	705.88	36	86	86.4	9.52	167	166.83	30.55	49 J	49.03	11.34
BG-4-4 2-12	06/28/10	14,018	14018.1	303.9	17,729	17728.8	472.52	997 U	< LOD	664.74	560	560.44	36.36	63	62.81	9.75	119 J	118.91	31.22	21 J	21.31	11.43
BG-4-5 2-12	06/28/10	13,828	13827.9	281.57	14,512	14512	405.36	854 U	< LOD	569.38	447	447.43	32.72	37 J	37.17	8.83	65 J	64.65	28.2	23 J	23.13	10.53
Mean		13,761			17,859			1,008			575			68			127			35		
BG-4 2-12 COMP	06/28/10	13,869	13868.6	303.28	17,780	17779.7	474.05	1,000 U	< LOD	666.82	636	635.75	36.07	68	68.48	9.57	122 J	121.54	30.58	42 J	42.27	11.43
%RPD		1%			0%			1%			10%			1%			4%			19%		

BG-4-1 12-18	06/28/10	11,900	11899.8	317.78	17,991	17991.4	528.56	1,173 U	< LOD	782.27	483	483	35.16	75	75.43	9.62	133 J	132.89	30.75	36 J	36.14	11.39
BG-4-2 12-18	06/28/10	14,990	14989.7	315.54	18,423	18423.2	484.23	826 J	825.75	514.78	589	588.96	34.94	82	82.38	9.41	133 J	132.85	29.97	47 J	47.01	11.21
BG-4-3 12-18	06/28/10	14,623	14622.7	320.68	20,629	20628.7	520.67	1,109 U	< LOD	739.52	630	630.16	36.35	87	86.76	9.74	147 J	147.27	31.09	43 J	43.39	11.53
BG-4-4 12-18	06/28/10	21,632	21631.7	385.95	21,068	21068.2	535.27	1,224 U	< LOD	816.16	689	689.42	38.62	79	79.48	10.22	143 J	142.76	32.66	31 J	31.44	11.99
BG-4-5 12-18	06/28/10	11,589	11589	272.52	16,464	16464.3	444.91	877 U	< LOD	584.74	627	626.98	34.67	71	71.06	9.22	120 J	120.09	29.41	37 J	37.35	10.95
Mean		14,947			18,915			1,042			604			79			135			39		
BG-4 12-18 COMP	06/28/10	14,878	14878.4	327.16	20,928	20928	530.63	1,018 U	< LOD	678.61	667	667.39	36.84	84	84.35	9.8	142 J	142.37	31.25	40 J	39.62	11.56
%RPD		0%			10%			2%			10%			6%			5%			3%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Calcium			Potassium			Sulfur			Barium			Cesium			Tellurium			Antimony		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-5-1 0-2	06/22/10	14,762	14761.6	315.52	18,753	18752.6	490.77	1,126 U	< LOD	750.87	459	458.95	33.86	43 J	42.75	9.15	92 J	92.07	29.36	24 U	< LOD	16.17
BG-5-2 0-2	06/22/10	10,866	10865.5	251.26	19,007	19006.6	448.27	899 U	< LOD	599.21	647	646.5	34.39	74	73.78	9.12	138 J	138.08	29.23	41 J	41.17	10.87
BG-5-3 0-2	06/22/10	16,255	16255.4	304.88	20,205	20205	471.08	970 U	< LOD	646.96	714	714.27	36.42	80	79.63	9.58	136 J	136.01	30.59	42 J	41.75	11.38
BG-5-4 0-2	06/22/10	11,665	11664.8	273.26	15,869	15869.1	438.23	986 U	< LOD	657.02	570	570.37	35.17	76	75.53	9.47	132 J	131.58	30.26	34 J	33.75	11.18
BG-5-5 0-2	06/22/10	10,746	10745.8	258.36	16,358	16357.6	434.3	940 U	< LOD	626.35	498	498.15	33.66	54	53.7	9.08	105 J	104.91	29.1	29 J	28.69	10.78
Mean		12,859			18,038			984			578			65			121			34		
BG-5 0-2 COMP	06/22/10	12,182	12181.8	274	16,701	16700.9	441.01	1,020 U	< LOD	679.93	529	529.05	34.41	64	63.89	9.28	101 J	101.03	29.55	30 J	30.45	10.98
%RPD		5%			8%			4%			9%			2%			18%			13%		
BG-5-1 2-12	06/22/10	14,416	14415.7	311.94	17,996	17995.7	481.57	1,049 U	< LOD	699.51	587	586.79	35.61	77	76.82	9.57	162	161.73	30.82	38 J	37.73	11.33
BG-5-2 2-12	06/22/10	11,649	11648.6	260.34	20,650	20649.8	467.14	891 U	< LOD	594.27	697	696.72	35.39	87	86.65	9.37	173	173.12	30.13	43 J	43.16	11.1
BG-5-3 2-12	06/22/10	14,663	14663.2	323.2	19,005	19004.9	506.29	1,094 U	< LOD	729.23	596	596.01	35.26	68	67.8	9.41	126 J	125.55	30.13	36 J	36.24	11.18
BG-5-4 2-12	06/22/10	15,568	15567.7	321.63	15,647	15647.5	452.97	1,060 U	< LOD	706.99	563	562.73	35.89	78	78.3	9.69	145 J	144.74	31.04	29 J	28.69	11.37
BG-5-5 2-12	06/22/10	11,256	11256.2	265.3	15,127	15127.5	423.41	959 U	< LOD	639.58	697	697.36	37.03	75	74.74	9.75	151 J	150.79	31.33	37 J	36.87	11.54
Mean		13,510			17,685			1,011			628			77			151			37		
BG-5 2-12 COMP	06/22/10	13,384	13384.5	299.25	16,636	16635.7	461.56	957 U	< LOD	637.74	532	532.02	35.21	61	60.71	9.48	122 J	121.64	30.41	27 J	27.29	11.19
%RPD		1%			6%			5%			17%			23%			22%			30%		
BG-5-1 12-18	06/22/10	12,904	12904.1	289.89	18,572	18571.9	475.63	956 U	< LOD	637.3	602	602.39	35.91	74	74.29	9.61	145 J	144.91	30.83	38 J	37.9	11.39
BG-5-2 12-18	06/22/10	9,975	9975.29	226.09	21,258	21257.8	439.31	753 U	< LOD	501.68	761	760.59	35.99	91	91.02	9.45	186	186.16	30.43	50 J	50.49	11.25
BG-5-3 12-18	06/22/10	15,311	15311.3	323.85	19,787	19786.7	507.08	1,064 U	< LOD	709.32	553	552.74	35.36	66	65.76	9.51	130 J	130.26	30.5	34 J	34.34	11.28
BG-5-4 12-18	06/22/10	16,730	16729.8	324.32	15,906	15905.5	446.21	988 U	< LOD	658.72	585	585.34	36.08	93	92.7	9.78	150 J	149.97	31.14	49 J	48.56	11.61
BG-5-5 12-18	06/22/10	12,835	12835	338.01	8,452	8452.05	398.49	1,038 U	< LOD	692.19	579	578.55	38.15	72	72.02	10.26	142 J	142.28	32.89	29 J	29.48	12.06
Mean		13,551			16,795			960			616			79			151			40		
BG-5 12-18 COMP	06/22/10	14,053	14052.7	326.25	16,422	16422	488.45	1,134 U	< LOD	756.14	693	692.57	36.73	74	74.2	9.68	156	156.29	31.14	38 J	37.51	11.46
%RPD		4%			2%			17%			12%			7%			4%			5%		
BG-6-1 0-2	06/28/10	9,149	9148.98	233.74	14,266	14266	397.44	815 U	< LOD	543.43	499	498.68	33.74	49	49.23	9.08	87 J	86.73	29	22 J	21.65	10.73
BG-6-2 0-2	06/28/10	16,857	16857.3	330.82	17,768	17767.7	475.36	936 U	< LOD	624.27	685	685.38	39.42	74	74.03	10.42	121 J	121.35	33.16	24 J	23.77	12.16
BG-6-3 0-2	06/28/10	13,081	13081.3	284.62	16,202	16201.7	438.88	997 U	< LOD	664.52	656	655.94	37.41	70	70.16	9.91	104 J	104.27	31.45	28 J	28.18	11.64
BG-6-4 0-2	06/28/10	8,182	8181.81	224.86	15,735	15735.4	415.98	887 U	< LOD	591.03	605	605.11	34.61	66	66.43	9.22	118 J	118.17	29.46	31 J	30.67	10.91
BG-6-5 0-2	06/28/10	8,499	8499.24	229.05	17,502	17502.5	436.04	651 J	651.21	433.96	457	456.9	33.51	50	50.27	9.09	79 J	79.28	28.97	23 J	22.98	10.76
Mean		11,154			16,295			857			580			62			102			26		
BG-6 0-2 COMP	06/28/10	10,858	10858.4	252.66	16,359	16359.2	423.6	958 U	< LOD	638.4	597	596.84	35.48	65	65.46	9.47	128 J	128.45	30.35	38 J	38.18	11.27
%RPD		3%			0%			11%			3%			5%			23%			39%		
BG-6-1 2-12	06/28/10	10,331	10330.7	248.63	14,996	14995.9	410.14	793 U	< LOD	528.76	879	879.36	36.62	63	63.43	9.29	117 J	116.8	29.73	26 J	26.25	10.96
BG-6-2 2-12	06/28/10	15,701	15700.5	284.68	17,155	17155.4	417.28	911 U	< LOD	607.35	679	679.27	35.93	88	88.38	9.55	152 J	152.13	30.5	39 J	39.17	11.26
BG-6-3 2-12	06/28/10	11,941	11941.2	277.73	16,529	16529.3	448.48	1,011 U	< LOD	673.96	512	511.86	35.51	54	53.82	9.56	87 J	86.59	30.46	19 J	18.53	11.23
BG-6-4 2-12	06/28/10	10,884	10884.2	255.74	18,284	18284.4	448.29	842 U	< LOD	561.42	630	630.49	35.69	75	75.16	9.51	141 J	141.18	30.46	32 J	31.54	11.2
BG-6-5 2-12	06/28/10	10,705	10704.9	277.43	19,999	19999.3	505.75	992 U	< LOD	661.66	515	514.81	34.98	66	65.52	9.47	129 J	128.5	30.37	29 J	29.13	11.18
Mean		11,912			17,393			910			643			69			125			29		
BG-6 2-12 COMP	06/28/10	10,841	10841.3	254.03	16,765	16764.7	430.36	891 U	< LOD	593.76	574	573.91	35.36	67	67.1	9.48	120 J	119.91	30.29	27 J	27.17	11.16
%RPD		9%			4%			2%			11%			3%			4%			7%		
BG-6-1 12-18	06/28/10	11,628	11628.2	278.98	16,465	16465.2	454.16	1,023 U	< LOD	682.15	594	593.68	36.18	77	77.29	9.72	153 J	152.97	31.2	37 J	37.08	11.49
BG-6-2 12-18	06/28/10	18,008	18008.1	322.76	16,753	16752.6	440.53	1,000 U	< LOD	666.69	589	589.11	36.45	72	71.54	9.76	113 J	113.43	31.08	20 J	19.89	11.39
BG-6-3 12-18	06/28/10	11,488	11487.8	283.26	18,659	18658.8	487.93	945 U	< LOD	629.74	631	630.62	36.49	82	82.46	9.76	145 J	145.43	31.19	38 J	37.53	11.52
BG-6-4 12-18	06/28/10	77,170	77169.8	650.12	19,104	19104.4	490.65	1,336 U	< LOD	890.83	733	733.22	37.3	91	90.78	9.84	144 J	143.7	31.3	38 J	38.32	11.58
BG-6-5 12-18	06/28/10	31,518	31517.9	443.09	21,032	21032.4	520.48	1,277 U	< LOD	851.01	713	713.18	36.4	64	63.94	9.5	95 J	95.09	30.19	27 J	27.13	11.2
Mean		29,962			18,403			1,116			652			77			130			32		
BG-6 12-18 COMP	06/28/10	42,037	42037.3	487.06	19,640	19639.6	488.12	1,195 U	< LOD	796.76	778	778.08	37.52	82	81.83	9.78	157	157.31	31.37	45 J	45.18	11.64
%RPD		34%			7%			7%			18%			6%			19%			34%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Calcium			Potassium			Sulfur			Barium			Cesium			Tellurium			Antimony		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-7-1 0-2	06/27/10	12,084	12083.6	305.25	15,593	15592.6	476.74	1,024 U	< LOD	682.7	505	504.57	40.42	38 J	38.02	10.84	77 U	< LOD	51.4	28 U	< LOD	18.79
BG-7-2 0-2	06/27/10	14,489	14488.5	301.89	18,299	18299.3	469.21	977 U	< LOD	651.59	545	545.01	35.03	73	73.07	9.46	128 J	127.74	30.24	34 J	34.35	11.2
BG-7-3 0-2	06/27/10	11,952	11952.2	266.99	17,001	17000.9	436.61	946 U	< LOD	630.8	588	587.65	35.68	70	69.6	9.56	128 J	127.86	30.57	36 J	35.57	11.33
BG-7-4 0-2	06/27/10	12,335	12334.7	277.07	18,556	18556.1	463.7	868 U	< LOD	578.98	515	515.4	34.2	67	66.71	9.26	106 J	105.59	29.48	35 J	34.93	10.98
BG-7-5 0-2	06/27/10	11,975	11975.4	278.24	19,760	19760.3	483.14	955 U	< LOD	636.36	570	569.57	36.9	70	69.66	9.93	110 J	110.4	31.57	28 J	27.88	11.67
Mean		12,567			17,842			954			545			64			110			32		
BG-7 0-2 COMP	06/27/10	12,315	12315.2	285.01	18,125	18125	472.08	1,055 U	< LOD	703.04	547	547.07	37.12	57	56.95	9.96	79 J	78.62	31.56	21 J	21.14	11.69
%RPD		2%			2%			10%			0%			11%			33%			42%		
BG-7-1 2-12	06/27/10	12,051	12050.7	295.36	15,600	15600.2	462.83	1,015 U	< LOD	676.64	539	538.99	39.17	50 J	50.3	10.5	68 J	68.14	33.25	28 U	< LOD	18.46
BG-7-2 2-12	06/27/10	15,059	15059.3	319.48	19,664	19664.1	502.88	961 U	< LOD	640.4	587	587.24	36.82	77	77.22	9.91	128 J	128.12	31.57	31 J	31.16	11.63
BG-7-3 2-12	06/27/10	13,051	13050.8	285.3	18,304	18303.6	463.31	995 U	< LOD	663.43	661	660.84	36.43	85	84.78	9.71	152 J	151.51	31.03	54 J	54.1	11.61
BG-7-4 2-12	06/27/10	15,229	15229.4	320.51	18,730	18730.4	491.66	1,155 U	< LOD	770.28	655	655.02	35.54	51	50.78	9.31	98 J	97.99	29.79	25 J	24.84	11.02
BG-7-5 2-12	06/27/10	11,479	11479.4	288.82	17,500	17500.2	484.19	1,131 U	< LOD	753.83	511	511.28	35.07	61	60.64	9.48	113 J	112.6	30.31	23 J	23.35	11.14
Mean		13,374			17,960			1,051			591			65			112			32		
BG-7 2-12 COMP	06/27/10	11,601	11600.5	274.88	17,613	17612.6	461.15	954 U	< LOD	635.82	575	575.27	35.87	57	57.23	9.57	106 J	105.86	30.59	25 J	24.71	11.28
%RPD		14%			2%			10%			3%			13%			5%			25%		
BG-7-1 12-18	06/27/10	14,764	14763.6	403.92	14,468	14467.7	557.3	1,330 U	< LOD	886.81	304	304.48	48.4	30 U	< LOD	20.01	93 U	< LOD	62.28	34 U	< LOD	22.99
BG-7-2 12-18	06/27/10	13,666	13666.2	303.93	19,710	19710.1	498.99	1,045 U	< LOD	696.74	548	548.17	36.24	69	68.77	9.77	107 J	106.69	31.07	18 J	17.56	11.39
BG-7-3 12-18	06/27/10	13,808	13807.8	301.63	18,524	18524	480.19	1,019 U	< LOD	679.37	608	608.41	36.37	81	80.68	9.76	148 J	148	31.23	41 J	41.07	11.55
BG-7-4 12-18	06/27/10	29,358	29358	413.7	17,687	17686.6	465.49	1,182 U	< LOD	787.85	580	580.36	35.62	64	64.21	9.52	121 J	120.66	30.48	30 J	30.1	11.26
BG-7-5 12-18	06/27/10	11,553	11552.9	286.11	18,733	18732.8	492.08	1,050 U	< LOD	700.07	562	561.81	35.16	68	67.86	9.45	121 J	121.05	30.2	31 J	31.14	11.17
Mean		16,630			17,824			1,125			520			62			118			31		
BG-7 12-18 COMP	06/27/10	25,185	25184.7	399.54	17,943	17943.3	484.2	1,038 U	< LOD	692.05	475	475.14	36.57	40 J	39.6	9.85	70 U	< LOD	46.4	26 U	< LOD	17.26
%RPD		41%			1%			8%			9%			44%			51%			17%		
BG-8-1 0-2	06/26/10	11,254	11254.1	258.4	14,456	14455.6	405.08	949 U	< LOD	632.68	351	351.45	32.21	16 J	15.82	8.76	43 J	42.57	28.08	23 U	< LOD	15.53
BG-8-2 0-2	06/26/10	18,406	18405.9	344.24	18,116	18115.9	480.56	1,127 U	< LOD	751.22	556	555.87	36.13	74	73.98	9.75	143 J	142.81	31.28	35 J	35.49	11.54
BG-8-3 0-2	06/26/10	11,452	11451.8	261.39	14,976	14976.2	413.02	958 U	< LOD	638.46	505	505.35	33.45	42 J	42.46	8.96	81 J	80.91	28.66	24 J	24.36	10.66
BG-8-4 0-2	06/26/10	10,154	10153.8	249.44	21,228	21227.7	478.16	921 U	< LOD	614.24	556	556.23	34.9	53	53.25	9.32	105 J	105.18	29.85	25 J	25	11.02
BG-8-5 0-2	06/26/10	17,499	17499.3	332.31	19,589	19588.6	490.27	1,056 U	< LOD	704.32	584	584.37	36.01	76	76.24	9.68	132 J	131.94	30.91	31 J	31.33	11.39
Mean		13,753			17,673			1,002			510			52			101			28		
BG-8 0-2 COMP	06/26/10	13,578	13578.4	288.15	17,919	17918.9	456.35	922 U	< LOD	614.46	520	519.75	34.66	47	46.65	9.28	100 J	100.11	29.8	25 U	< LOD	16.38
%RPD		1%			1%			8%			2%			10%			1%			10%		
BG-8-1 2-12	06/26/10	11,161	11161	259.86	14,366	14365.8	407.86	960 U	< LOD	639.82	522	521.71	34.22	51	50.92	9.18	95 J	94.53	29.36	28 J	28.33	10.91
BG-8-2 2-12	06/26/10	19,362	19361.5	357.59	18,581	18581.4	493.26	1,186 U	< LOD	790.77	519	519.01	36.12	73	72.97	9.81	121 J	121.08	31.27	31 J	30.8	11.54
BG-8-3 2-12	06/26/10	11,460	11460	272.17	16,231	16231	443.71	931 U	< LOD	620.84	600	600.24	35.88	69	69.42	9.59	128 J	127.73	30.67	35 J	35.18	11.37
BG-8-4 2-12	06/26/10	11,334	11334.1	273.78	22,043	22043.4	508.96	1,004 U	< LOD	669.21	608	608.42	35.42	67	66.76	9.43	129 J	128.73	30.23	36 J	36.06	11.2
BG-8-5 2-12	06/26/10	18,563	18562.5	358.91	20,807	20807.4	528.83	1,102 U	< LOD	734.63	619	618.68	36.12	79	79.26	9.66	144 J	144.21	30.93	35 J	34.86	11.38
Mean		14,376			18,406			1,037			574			68			123			33		
BG-8 2-12 COMP	06/26/10	14,004	14004.1	301.41	19,550	19550.2	488.29	908 U	< LOD	605.16	552	552.22	35.7	66	66.22	9.61	124 J	123.67	30.74	29 J	29.31	11.33
%RPD		3%			6%			13%			4%			3%			0%			13%		
BG-8-1 12-18	06/26/10	11,592	11592.3	262.76	15,098	15098.3	414.05	833 U	< LOD	555.13	466	465.7	33.51	49	48.7	9.07	90 J	89.69	29.01	26 J	26.21	10.78
BG-8-2 12-18	06/26/10	20,160	20160.2	389	20,754	20754.4	551.89	1,142 U	< LOD	761.52	569	568.94	37.46	90	90.48	10.18	186	186.04	32.77	44 J	44.39	12.03
BG-8-3 12-18	06/26/10	12,389	12388.6	281.36	19,221	19221	476.84	952 U	< LOD	634.58	590	590.11	35.68	72	71.54	9.56	143 J	142.58	30.68	44 J	44.37	11.41
BG-8-4 12-18	06/26/10	11,126	11125.7	264.73	18,747	18747.4	464.19	930 U	< LOD	619.67	552	552.32	35.77	71	71	9.64	122 J	121.76	30.78	33 J	33.36	11.41
BG-8-5 12-18	06/26/10	18,521	18521.2	368.92	21,881	21881	555.35	1,117 U	< LOD	744.4	600	599.92	36.14	82	81.75	9.71	150 J	150.21	31.1	38 J	38.05	11.47
Mean		14,758			19,140			995			555			73			138			37		
BG-8 12-18 COMP	06/26/10	15,123	15123.3	321.18	19,446	19445.6	502.03	1,102 U	< LOD	734.79	560	560.3	35.92	75	75.44	9.7	159	159.28	31.22	46 J	46.34	11.58
%RPD		2%			2%			10%			1%			3%			14%			22%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Calcium			Potassium			Sulfur			Barium			Cesium			Tellurium			Antimony		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-9-1 0-2	06/22/10	11,769	11768.7	245.69	16,188	16188.3	397.62	855 U	< LOD	569.8	600	599.6	34.75	60	60.46	9.24	130 J	129.84	29.71	35 J	34.85	11.01
BG-9-2 0-2	06/22/10	12,441	12441.2	264.02	15,105	15104.7	404.78	833 U	< LOD	555.41	604	603.79	34.55	79	78.53	9.26	154	153.52	29.74	48 J	47.88	11.07
BG-9-3 0-2	06/22/10	17,278	17277.9	376.19	15,011	15011.1	496.45	1,295 U	< LOD	863.47	516	515.96	42.27	52 J	52.2	11.42	69 J	69.47	36.09	30 U	< LOD	19.95
BG-9-4 0-2	06/22/10	18,307	18306.8	318.13	18,602	18602.1	450.9	975 U	< LOD	649.82	598	598	35.17	72	72.47	9.41	146 J	146.32	30.24	47 J	47.15	11.27
BG-9-5 0-2	06/22/10	14,202	14202.2	305.07	17,182	17182.4	464.96	1,031 U	< LOD	687.03	568	567.62	36.47	67	66.61	9.79	111 J	110.72	31.2	22 J	22.22	11.46
Mean		14,799			16,418			998			577			66			122			36		
BG-9 0-2 COMP	06/22/10	14,141	14140.7	292.87	16,469	16469.1	440.16	1,000 U	< LOD	666.41	544	544.36	36.54	72	72.2	9.88	113 J	112.87	31.42	25 J	24.52	11.56
%RPD		5%			0%			0%			6%			9%			8%			37%		
BG-9-1 2-12	06/22/10	13,729	13729.4	297.75	18,392	18391.6	474.03	1,020 U	< LOD	680.26	572	571.94	34.77	75	74.96	9.35	106 J	106.1	29.67	33 J	33.31	11.04
BG-9-2 2-12	06/22/10	13,721	13721.5	293.8	13,490	13490.4	410.73	1,060 U	< LOD	706.41	665	664.78	35.01	76	75.96	9.27	131 J	131.23	29.6	41 J	41.42	11.03
BG-9-3 2-12	06/22/10	17,546	17545.7	360.68	13,659	13658.7	454.66	1,133 U	< LOD	755.17	595	594.59	36.15	83	83.32	9.73	144 J	144.49	31.09	40 J	40.12	11.51
BG-9-4 2-12	06/22/10	15,782	15781.7	343.31	16,819	16819.1	494.45	1,063 U	< LOD	708.38	699	698.78	37.03	83	83.06	9.79	139 J	138.6	31.21	41 J	41.39	11.59
BG-9-5 2-12	06/22/10	17,865	17865	360.32	15,685	15685.4	477.96	1,112 U	< LOD	741.04	641	641.4	36.67	84	83.74	9.8	153 J	152.62	31.35	35 J	35.27	11.52
Mean		15,729			15,609			1,078			634			80			135			38		
BG-9 2-12 COMP	06/22/10	14,901	14901.1	321.52	17,216	17215.8	480.27	1,022 U	< LOD	681.25	674	673.75	36.7	88	88.27	9.77	156	156.38	31.25	47 J	47.49	11.61
%RPD		5%			10%			5%			6%			9%			15%			21%		
BG-9-1 12-18	06/22/10	13,717	13717.1	296.39	18,200	18199.7	470.15	969 U	< LOD	645.98	614	613.97	35.6	75	74.69	9.51	128 J	128.45	30.36	41 J	41.45	11.31
BG-9-2 12-18	06/22/10	13,478	13477.7	294.05	17,899	17898.5	466.6	981 U	< LOD	654.3	618	618.18	35.18	74	74.26	9.38	120 J	119.6	29.9	36 J	36.15	11.12
BG-9-3 12-18	06/22/10	25,510	25510.3	413.24	13,461	13461.3	439.78	1,084 U	< LOD	722.38	629	628.78	37.19	73	72.8	9.91	142 J	142.18	31.77	41 J	40.65	11.77
BG-9-4 12-18	06/22/10	16,792	16791.7	336.68	17,182	17182.1	477.32	1,055 U	< LOD	703.24	812	812.36	37.85	99	98.64	9.89	147 J	146.6	31.38	40 J	39.72	11.61
BG-9-5 12-18	06/22/10	22,427	22426.5	365.91	18,348	18348.3	471.42	937 U	< LOD	624.76	559	558.81	35.94	73	72.82	9.69	125 J	124.8	30.93	23 J	23.26	11.34
Mean		18,385			17,018			1,005			646			79			132			36		
BG-9 12-18 COMP	06/22/10	17,945	17944.6	333.28	17,398	17397.6	462.38	959 U	< LOD	639.66	619	619.24	35.85	80	79.8	9.59	121 J	121.28	30.48	30 J	30.01	11.25
%RPD		2%			2%			5%			4%			2%			9%			19%		
BG-10-1 0-2	06/23/10	11,542	11542.1	254.86	15,069	15069.2	402.93	813 U	< LOD	541.83	536	536.36	34.08	59	59.17	9.16	133 J	133.39	29.5	30 J	29.79	10.85
BG-10-2 0-2	06/23/10	9,697	9696.6	247.89	14,582	14582.4	414.67	910 U	< LOD	606.34	561	561.26	35.73	54	54.16	9.54	102 J	101.97	30.51	20 J	20.15	11.22
BG-10-3 0-2	06/23/10	13,464	13463.6	268.03	18,587	18587	433.9	921 U	< LOD	614.31	634	634.22	36.32	66	65.81	9.64	127 J	126.92	30.86	38 J	38.43	11.46
BG-10-4 0-2	06/23/10	13,936	13936.3	293	20,049	20049.2	481.21	1,027 U	< LOD	684.97	615	615.4	36.01	72	71.55	9.61	141 J	140.61	30.82	31 J	30.69	11.32
BG-10-5 0-2	06/23/10	13,908	13908.1	322.78	19,856	19856.1	526.33	1,078 U	< LOD	718.34	980	980.36	40.08	86	86.03	10.14	142 J	141.5	32.29	42 J	42.01	11.98
Mean		12,509			17,629			950			665			67			129			32		
BG-10 0-2 COMP	06/23/10	11,628	11628.5	272.19	15,314	15314	430.66	970 U	< LOD	646.85	542	541.81	35.08	56	55.82	9.4	81 J	80.9	29.87	23 J	22.55	11.08
%RPD		7%			14%			2%			20%			18%			46%			33%		
BG-10-1 2-12	06/23/10	12,583	12582.8	277.99	16,796	16796	442.52	894 U	< LOD	595.87	698	698.19	35.4	76	75.95	9.32	122 J	122.48	29.69	42 J	41.79	11.1
BG-10-2 2-12	06/23/10	11,187	11187.3	282.66	14,656	14655.9	445.1	1,098 U	< LOD	732.1	566	565.65	36.2	70	70.33	9.73	101 J	101.14	30.87	25 J	25.39	11.41
BG-10-3 2-12	06/23/10	10,085	10085.1	243.08	14,196	14195.5	396.17	886 U	< LOD	590.39	474	474.05	33.41	42 J	41.71	9	52 J	52.29	28.55	22 J	21.99	10.67
BG-10-4 2-12	06/23/10	14,125	14124.9	296.45	21,466	21466.1	498.14	1,007 U	< LOD	671.25	633	632.84	35.87	78	78.06	9.57	143 J	143.04	30.62	39 J	38.72	11.33
BG-10-5 2-12	06/23/10	11,865	11865.4	319.46	18,581	18581.5	538.64	1,191 U	< LOD	793.93	495	494.68	35.19	68	67.75	9.57	138 J	138.45	30.75	28 J	28.2	11.26
Mean		11,969			17,139			1,015			573			67			111			31		
BG-10 2-12 COMP	06/23/10	11,916	11915.7	279.57	16,065	16065.4	446.26	954 U	< LOD	635.88	559	559.28	35.5	68	68.14	9.55	118 J	118.23	30.48	30 J	30.44	11.27
%RPD		0%			6%			6%			3%			2%			6%			4%		
BG-10-1 12-18	06/23/10	14,030	14029.8	315.91	17,901	17900.9	491.69	1,019 U	< LOD	679.19	701	701.31	37.18	101	101.36	9.91	182	182.08	31.73	45 J	44.81	11.67
BG-10-2 12-18	06/23/10	11,290	11290.2	302.4	14,416	14416.5	469.15	1,014 U	< LOD	676.14	461	461.36	35.07	59	59.3	9.56	112 J	111.95	30.6	21 J	21.42	11.24
BG-10-3 12-18	06/23/10	10,971	10970.9	250.88	17,383	17383.4	429.91	874 U	< LOD	582.74	658	658.13	35	54	53.67	9.18	125 J	124.54	29.57	32 J	32.48	10.93
BG-10-4 12-18	06/23/10	15,730	15729.6	315.35	18,813	18812.6	478.64	956 U	< LOD	637.19	584	584.48	35.49	80	79.6	9.55	135 J	135.17	30.49	38 J	37.76	11.3
BG-10-5 12-18	06/23/10	10,687	10686.5	306.7	20,087	20087.5	556.74	1,112 U	< LOD	741.47	621	620.82	36.36	83	83	9.75	161	161.06	31.27	42 J	42.2	11.56
Mean		12,542			17,720			995			605			75			143			36		
BG-10 12-18 COMP	06/23/10	12,651	12651.3	304.66	17,860	17859.7	494.32	1,103 U	< LOD	735.62	576	575.56	35.65	72	72.15	9.58	129 J	129.01	30.61	39 J	39.26	11.38
%RPD		1%			1%			10%			5%			5%			10%			9%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Calcium			Potassium			Sulfur			Barium			Cesium			Tellurium			Antimony		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-11-1 0-2	06/27/10	12,998	12997.9	264.94	17,510	17509.7	424.37	878 U	< LOD	585.47	485	485.23	33.89	68	67.79	9.23	117 J	117.44	29.49	29 J	29.05	10.9
BG-11-2 0-2	06/27/10	12,796	12796.2	275.73	17,225	17225.2	440.86	913 U	< LOD	608.54	569	568.87	34.27	67	66.66	9.18	129 J	129.08	29.46	27 J	26.7	10.82
BG-11-3 0-2	06/27/10	11,135	11135.5	261.3	17,777	17777.4	448.48	895 U	< LOD	596.81	539	539.47	34.36	58	57.52	9.22	98 J	97.76	29.41	29 J	29.34	10.93
BG-11-4 0-2	06/27/10	9,969	9969.39	234.35	15,663	15663.3	400.54	896 U	< LOD	597.59	552	551.63	33.95	52	51.86	9.06	125 J	124.88	29.23	30 J	30.23	10.79
BG-11-5 0-2	06/27/10	15,294	15294.3	330.73	21,378	21377.7	535.07	1,089 U	< LOD	725.72	485	485.49	34.87	59	59.34	9.46	111 J	110.64	30.26	21 J	21.06	11.11
Mean		12,438			17,911			934			526			61			116			27		
BG-11 0-2 COMP	06/27/10	11,023	11023	253.39	16,930	16930.2	428.44	889 U	< LOD	592.8	600	599.64	35.17	66	66	9.38	136 J	135.94	30.13	34 J	33.98	11.12
%RPD		12%			6%			5%			13%			8%			16%			22%		

BG-11-1 2-12	06/27/10	11,673	11673.3	273.94	17,480	17479.6	457.35	986 U	< LOD	657.25	484	483.85	33.81	55	55.21	9.15	97 J	96.85	29.23	21 J	21.22	10.77
BG-11-2 2-12	06/27/10	12,092	12091.8	281.18	15,378	15377.7	438.48	1,061 U	< LOD	707.16	569	568.63	35.28	69	68.68	9.47	134 J	134.07	30.38	34 J	33.67	11.22
BG-11-3 2-12	06/27/10	12,587	12587.2	294.45	17,031	17031.1	470.09	919 U	< LOD	612.76	611	610.87	35.96	69	69.2	9.58	141 J	141.14	30.79	30 J	30.15	11.3
BG-11-4 2-12	06/27/10	11,868	11867.6	284.43	15,452	15451.9	446.88	996 U	< LOD	663.85	523	523.28	34.64	62	62.39	9.35	112 J	111.88	29.87	24 J	23.77	11
BG-11-5 2-12	06/27/10	12,847	12847.2	277.95	19,334	19333.6	465.64	913 U	< LOD	608.57	608	607.76	36.32	80	79.54	9.74	182	182.07	31.5	50 J	50.14	11.66
Mean		12,213			16,935			975			559			67			133			32		
BG-11 2-12 COMP	06/27/10	14,002	14002	300.4	16,958	16958	458.22	971 U	< LOD	647.51	579	579.45	35.54	72	72.02	9.54	122 J	121.98	30.44	45 J	44.98	11.39
%RPD		14%			0%			0%			4%			7%			9%			34%		

BG-11-1 12-18	06/27/10	10,744	10743.9	281.07	16,172	16171.6	468.03	1,154 U	< LOD	769.34	479	478.75	33.77	61	60.63	9.18	116 J	115.87	29.4	26 J	26.37	10.83
BG-11-2 12-18	06/27/10	12,385	12385.4	316.82	17,177	17176.8	508.61	1,121 U	< LOD	747.06	615	614.75	36.47	73	72.52	9.73	136 J	136	31.16	40 J	40.4	11.57
BG-11-3 12-18	06/27/10	14,101	14100.9	306.71	16,926	16925.5	465.97	929 U	< LOD	619.62	663	662.84	36.66	77	76.62	9.72	156 J	155.77	31.25	36 J	35.93	11.49
BG-11-4 12-18	06/27/10	12,303	12303	299.21	16,712	16711.8	477.72	1,075 U	< LOD	716.89	621	620.98	35.2	69	69.48	9.36	134 J	133.95	30.03	31 J	31.26	11.06
BG-11-5 12-18	06/27/10	17,075	17074.5	329.34	25,323	25323.3	547.84	1,057 U	< LOD	704.73	706	705.5	37.29	82	81.91	9.84	150 J	149.59	31.5	30 J	30.19	11.54
Mean		13,322			18,462			1,067			617			72			138			33		
BG-11 12-18 COMP	06/27/10	14,094	14094.1	319.12	20,123	20123.2	520.77	1,068 U	< LOD	711.95	724	723.72	37.2	74	74.36	9.75	130 J	129.91	31.13	34 J	33.9	11.5
%RPD		6%			9%			0%			16%			2%			6%			4%		

BG-12-1 0-2	06/26/10	15,302	15301.6	303.22	18,393	18392.8	461.77	980 U	< LOD	653.3	759	759.09	36.92	71	70.7	9.6	135 J	135.18	30.75	22 J	22.18	11.22
BG-12-2 0-2	06/26/10	11,229	11229.2	281.75	18,180	18179.9	484.32	1,016 U	< LOD	677.07	543	542.63	34.54	65	64.72	9.29	128 J	128.05	29.82	33 J	32.99	11.03
BG-12-3 0-2	06/26/10	12,368	12367.6	283.5	14,287	14287	424.85	928 U	< LOD	618.34	628	627.81	34.56	62	62.01	9.14	99 J	98.52	29.12	36 J	35.82	10.89
BG-12-4 0-2	06/26/10	12,905	12904.7	282.96	16,249	16248.8	439.69	968 U	< LOD	645.5	510	509.68	34.37	62	61.5	9.3	121 J	121.34	29.81	41 J	41.22	11.14
BG-12-5 0-2	06/26/10	9,751	9750.93	252.44	14,112	14111.5	415.15	972 U	< LOD	647.97	439	438.6	32.96	38 J	38.28	8.92	71 J	71.32	28.51	17 J	17.32	10.55
Mean		12,311			16,244			973			576			60			111			30		
BG-12 0-2 COMP	06/26/10	12,144	12143.8	281.14	16,355	16355.4	448.63	738 J	738.42	484.59	527	527.11	34.74	57	56.97	9.34	102 J	101.54	29.84	26 J	26.02	11.04
%RPD		1%			1%			27%			9%			4%			8%			14%		

BG-12-1 2-12	06/26/10	15,833	15832.6	317.79	19,569	19568.8	489.07	965 U	< LOD	643.48	558	558.4	35.22	68	68.4	9.47	114 J	113.85	30.2	27 J	27.45	11.15
BG-12-2 2-12	06/26/10	14,077	14077.4	328.9	19,851	19851	532.99	1,118 U	< LOD	745.63	644	643.58	36.75	76	75.53	9.78	150 J	150.34	31.38	41 J	41.09	11.61
BG-12-3 2-12	06/26/10	13,172	13171.8	309.76	17,744	17743.7	492.81	1,114 U	< LOD	742.43	621	621.11	36.19	87	86.69	9.72	170	169.69	31.21	40 J	40.44	11.48
BG-12-4 2-12	06/26/10	12,554	12553.6	292.13	17,116	17115.9	468.1	985 U	< LOD	656.57	652	652.14	35.22	76	76.12	9.35	163	162.89	30.13	40 J	40.37	11.11
BG-12-5 2-12	06/26/10	11,037	11037.2	275.62	15,588	15588.2	448.03	1,003 U	< LOD	668.95	505	504.54	34.49	70	70.02	9.37	104 J	104.28	29.78	25 J	25.24	11.01
Mean		13,335			17,974			1,037			596			75			140			35		
BG-12 2-12 COMP	06/26/10	13,001	13001.3	303.69	18,111	18110.7	490.64	1,025 U	< LOD	683.25	1,085	1084.82	38.98	109	108.93	9.8	201	200.72	31.42	49 J	48.88	11.55
%RPD		3%			1%			1%			58%			36%			36%			34%		

BG-12-1 12-18	06/26/10	17,171	17171	321.41	19,463	19462.7	477.04	1,010 U	< LOD	673.14	664	664.16	36.52	91	90.73	9.75	162	162.29	31.2	35 J	34.99	11.43
BG-12-2 12-18	06/26/10	13,642	13642.1	325.56	22,555	22554.7	563.75	1,100 U	< LOD	733.55	808	807.97	37.78	85	84.81	9.81	141 J	140.91	31.27	38 J	38.01	11.56
BG-12-3 12-18	06/26/10	14,178	14178	316.97	19,236	19235.6	506.41	1,191 U	< LOD	793.85	596	596.13	36.35	84	84.48	9.79	143 J	142.98	31.24	37 J	36.8	11.53
BG-12-4 12-18	06/26/10	14,973	14973.5	325.08	19,350	19349.6	508.88	1,117 U	< LOD	744.4	604	603.81	35.75	86	85.85	9.62	178	177.79	31	42 J	42.2	11.4
BG-12-5 12-18	06/26/10	11,008	11008.2	310.82	13,566	13565.7	473.94	983 U	< LOD	655.55	607	607.1	37.07	90	89.63	9.99	154 J	153.98	31.91	42 J	42.38	11.81
Mean		14,194			18,834			1,080			656			87			156			39		
BG-12 12-18 COMP	06/26/10	14,051	14050.7	319.49	20,660	20660	527.75	1,149 U	< LOD	766.15	685	685.3	37.34	99	98.75	9.97	180	180.18	31.94	45 J	44.77	11.75
%RPD		1%			9%			6%			4%			13%			15%			15%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Calcium			Potassium			Sulfur			Barium			Cesium			Tellurium			Antimony		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-13-1 0-2	06/22/10	16,948	16948.2	348.2	17,879	17878.7	499.71	1,135 U	< LOD	756.35	510	510.38	37.78	49 J	48.68	10.16	51 J	50.65	32.06	27 U	< LOD	17.82
BG-13-2 0-2	06/22/10	14,012	14011.5	297.46	15,608	15608.1	438.44	984 U	< LOD	655.75	568	568.23	35.19	57	57	9.39	95 J	95.28	29.95	27 J	27.3	11.12
BG-13-3 0-2	06/22/10	10,143	10142.8	243.02	15,860	15859.5	413.95	950 U	< LOD	633.4	625	624.82	34.97	63	62.72	9.27	141 J	141.38	29.87	45 J	45.03	11.12
BG-13-4 0-2	06/22/10	12,506	12506.4	263.41	16,694	16694.2	419.89	909 U	< LOD	606.19	696	696.25	35.23	66	66.15	9.23	133 J	132.69	29.64	32 J	31.99	10.94
BG-13-5 0-2	06/22/10	9,677	9676.64	231.91	15,008	15008	394.04	848 U	< LOD	565.64	992	991.8	37.47	96	96.2	9.49	156	156.46	30.25	47 J	46.85	11.25
Mean		12,657			16,210			965			678			66			115			36		
BG-13 0-2 COMP	06/22/10	11,591	11590.7	259.8	15,708	15708.4	416.65	954 U	< LOD	635.69	699	698.96	35.61	74	74.3	9.37	137 J	136.54	29.99	38 J	37.85	11.1
%RPD		9%			3%			1%			3%			11%			17%			7%		
BG-13-1 2-12	06/22/10	16,775	16774.8	384.46	18,255	18255.2	556.77	1,237 U	< LOD	824.92	698	698.42	39.83	83	83.46	10.54	121 J	120.63	33.41	37 J	36.82	12.41
BG-13-2 2-12	06/22/10	14,694	14693.6	325.93	14,702	14701.5	457.73	1,079 U	< LOD	719.44	630	630.21	35.87	79	79.12	9.57	139 J	139.13	30.6	33 J	33.39	11.28
BG-13-3 2-12	06/22/10	12,233	12233.3	258.77	16,721	16721.4	416.92	837 U	< LOD	558.3	703	702.61	35.99	79	78.53	9.49	150 J	149.56	30.41	47 J	46.97	11.31
BG-13-4 2-12	06/22/10	12,882	12882	260.02	14,366	14366	385.01	867 U	< LOD	578.33	633	632.79	36.1	82	81.87	9.65	173	173.43	31.09	47 J	46.75	11.49
BG-13-5 2-12	06/22/10	14,517	14517	294.68	18,501	18501.4	460.12	836 U	< LOD	557.54	606	606.05	35.33	76	75.6	9.45	146 J	145.6	30.33	40 J	40.3	11.23
Mean		14,220			16,509			971			654			80			146			41		
BG-13 2-12 COMP	06/22/10	14,767	14767	318.42	16,121	16120.6	464.58	1,081 U	< LOD	720.89	596	596.3	36.33	75	74.6	9.74	140 J	139.65	31.19	36 J	35.59	11.51
%RPD		4%			2%			11%			9%			6%			4%			13%		
BG-13-1 12-18	06/22/10	42,207	42206.9	536.42	15,056	15056.1	478.53	1,438 J	1437.67	671.2	666	665.9	37.43	81	80.97	9.94	158 J	157.92	31.91	46 J	46.16	11.84
BG-13-2 12-18	06/22/10	43,326	43326.5	516.29	13,999	13998.7	441.54	935 J	935.13	601.14	654	653.87	36.6	75	74.94	9.71	139 J	138.99	31.09	33 J	33.3	11.46
BG-13-3 12-18	06/22/10	72,988	72987.6	642.5	12,266	12265.9	413.67	1,337 U	< LOD	891.08	550	549.8	35.94	74	73.53	9.71	161	160.82	31.31	35 J	35.05	11.49
BG-13-4 12-18	06/22/10	18,252	18251.7	325.91	16,794	16793.7	442.48	989 U	< LOD	659.51	802	801.94	36.69	96	96.29	9.58	179	178.52	30.74	53 J	53.28	11.41
BG-13-5 12-18	06/22/10	15,090	15089.7	315.86	15,578	15578.3	450.1	993 U	< LOD	661.75	489	489.27	34.26	65	64.97	9.31	98 J	98.3	29.61	32 J	32.3	11.03
Mean		38,373			14,739			1,138			632			78			147			40		
BG-13 12-18 COMP	06/22/10	43,770	43770.2	518.34	14,968	14968.5	453.82	1,264 U	< LOD	842.39	746	745.87	37.31	93	92.78	9.83	165	165.25	31.44	50 J	49.89	11.68
%RPD		13%			2%			10%			17%			17%			12%			23%		
BG-14-1 0-2	06/23/10	15,135	15135.5	306.22	18,891	18890.8	473.33	946 J	946.01	506.53	649	648.82	37.21	67	67.06	9.85	123 J	122.78	31.48	30 J	29.82	11.61
BG-14-2 0-2	06/23/10	14,379	14379.4	305.38	17,526	17525.6	467.05	1,027 U	< LOD	684.66	654	654.32	36.53	72	71.97	9.68	143 J	142.91	31.06	36 J	35.71	11.46
BG-14-3 0-2	06/23/10	8,891	8890.7	232.21	15,218	15217.7	409.99	865 U	< LOD	576.83	556	556.19	33.95	52	51.98	9.05	89 J	88.81	28.89	21 J	21.27	10.69
BG-14-4 0-2	06/23/10	10,840	10839.5	259.03	16,291	16290.8	433.28	955 U	< LOD	636.73	660	660.29	35.66	67	67.28	9.41	118 J	118.25	30.07	21 J	20.89	11.02
BG-14-5 0-2	06/23/10	12,683	12683.4	261.89	17,944	17943.9	428.32	864 U	< LOD	576.24	885	885.46	36.59	80	79.79	9.35	135 J	134.85	29.84	37 J	37.17	11.05
Mean		12,386			17,174			931			681			68			122			29		
BG-14 0-2 COMP	06/23/10	11,071	11070.7	253.03	16,625	16624.9	424.01	937 U	< LOD	624.46	559	559.24	34.99	73	72.72	9.43	126 J	125.53	30.11	38 J	38.33	11.2
%RPD		11%			3%			1%			20%			8%			4%			27%		
BG-14-1 2-12	06/23/10	15,920	15920.3	318.89	16,779	16779.4	458.52	1,027 U	< LOD	684.44	512	511.52	36.12	84	83.5	9.87	142 J	141.79	31.51	32 J	32.15	11.59
BG-14-2 2-12	06/23/10	14,212	14212.1	290.94	17,063	17062.9	443.06	888 U	< LOD	591.79	625	624.68	36.18	68	68.24	9.63	138 J	137.99	30.9	40 J	39.67	11.44
BG-14-3 2-12	06/23/10	11,969	11968.8	271.29	20,136	20136.3	475.94	877 U	< LOD	584.75	615	614.63	35.19	85	84.87	9.45	163	163.2	30.32	50 J	49.83	11.27
BG-14-4 2-12	06/23/10	9,777	9776.81	271.6	17,580	17580.4	486.27	990 J	989.94	530.93	631	631.26	36.62	71	71.11	9.74	112 J	111.69	30.98	19 J	18.63	11.35
BG-14-5 2-12	06/23/10	12,010	12010.3	256.14	22,885	22885.2	474.28	846 U	< LOD	564.3	698	698.08	35.61	77	77.15	9.38	151	151.46	30.13	41 J	41.24	11.14
01/00/00		12,778			18,889			926			616			77			141			36		
BG-14 2-12 COMP	06/23/10	11,639	11638.7	262.84	20,212	20212.4	467.28	994 U	< LOD	662.51	626	625.8	35.71	81	81.17	9.55	153 J	152.81	30.61	40 J	39.87	11.31
%RPD		9%			7%			7%			2%			5%			8%			9%		
BG-14-1 12-18	06/23/10	17,298	17298.5	279.64	17,914	17914.2	401.42	759 U	< LOD	505.81	548	548.35	34.35	81	81.28	9.31	179	178.86	30.09	46 J	45.56	11.1
BG-14-2 12-18	06/23/10	11,293	11292.7	238.54	15,896	15896.4	390.32	765 U	< LOD	510.11	673	672.51	36.41	75	75.18	9.64	155	155.26	30.98	34 J	34	11.38
BG-14-3 12-18	06/23/10	10,981	10981.2	280.31	20,167	20166.8	507.5	1,121 U	< LOD	747.43	589	589.47	35.14	65	64.6	9.38	146 J	146.01	30.24	31 J	31.32	11.11
BG-14-4 12-18	06/23/10	12,731	12731	308.87	20,002	20002.1	523.48	1,068 U	< LOD	712.05	786	786.1	36.73	51	50.85	9.41	106 J	105.85	30.18	23 J	22.97	11.11
BG-14-5 12-18	06/23/10	12,135	12134.8	292.24	19,928	19928.5	505.6	1,098 U	< LOD	731.92	642	641.98	36.44	85	84.76	9.74	162	162	31.23	38 J	38.4	11.5
Mean		12,888			18,781			962			648			71			150			34		
BG-14 12-18 COMP	06/23/10	13,515	13514.9	304.46	19,739	19739.4	501.9	1,025 U	< LOD	683.15	659	658.52	35.96	77	76.7	9.54	154	154.11	30.65	30 J	29.85	11.21
%RPD		5%			5%			6%			2%			8%			3%			14%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Calcium			Potassium			Sulfur			Barium			Cesium			Tellurium			Antimony		
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
BG-15-1 0-2	06/25/10	14,388	14387.9	311.48	14,880	14880.1	444.16	972 U	< LOD	648	511	511.3	34.3	57	57.08	9.25	94 J	94.14	29.48	34 J	33.82	11.01
BG-15-2 0-2	06/25/10	12,857	12856.8	271.32	18,582	18581.8	447.18	984 U	< LOD	656.31	713	713.15	35.59	81	81.03	9.36	136 J	136.18	29.89	30 J	30.49	10.99
BG-15-3 0-2	06/25/10	11,703	11703.2	260.7	16,204	16204.1	422.07	951 U	< LOD	633.96	592	591.64	34.67	45 J	45.1	9.16	88 J	87.56	29.31	35 J	35.02	10.99
BG-15-4 0-2	06/25/10	10,792	10791.8	255.49	19,992	19991.9	466.21	904 U	< LOD	602.41	655	655	34.71	75	74.78	9.2	123 J	123.16	29.33	35 J	34.72	10.88
BG-15-5 0-2	06/25/10	17,436	17435.6	309.46	14,387	14387.1	401.32	960 U	< LOD	639.71	417	417.17	31.65	19 U	< LOD	12.71	61 U	< LOD	40.53	23 U	< LOD	15.09
Mean		13,435			16,809			954			578			55			100			31		
BG-15 0-2 COMP	06/25/10	13,818	13818.3	273.02	16,658	16658.5	417.15	898 U	< LOD	598.57	649	648.93	35.2	77	76.94	9.35	133 J	133.13	29.87	37 J	37.18	11.06
%RPD		3%			1%			6%			12%			33%			28%			16%		
BG-15-1 2-12	06/25/10	13,150	13150.4	282.23	17,676	17675.8	450.79	876 U	< LOD	584.17	664	664.17	35.17	78	77.57	9.32	161	161	30.01	42 J	41.7	11.08
BG-15-2 2-12	06/25/10	10,941	10941.4	245.9	17,738	17738.2	425.5	831 U	< LOD	554.07	898	897.82	37.11	92	92.13	9.52	168	167.93	30.51	43 J	43.19	11.26
BG-15-3 2-12	06/25/10	12,837	12836.5	280.83	17,445	17445.4	450.34	956 U	< LOD	637.22	596	596.41	35.26	62	62.11	9.39	104 J	104.4	29.95	36 J	35.84	11.17
BG-15-4 2-12	06/25/10	8,253	8252.84	213.63	17,064	17063.7	408.41	815 U	< LOD	543.62	654	653.83	35.29	80	79.85	9.38	161	160.58	30.16	41 J	41.21	11.13
BG-15-5 2-12	06/25/10	14,873	14872.6	285.06	16,684	16684.2	421.92	914 U	< LOD	609.41	611	610.53	34.11	57	56.7	9.02	99 J	98.91	28.83	25 J	24.55	10.66
Mean		12,011			17,321			878			685			74			139			37		
BG-15 2-12 COMP	06/25/10	13,465	13465.3	285.6	17,214	17213.8	446.59	974 U	< LOD	649.55	625	625.39	34.88	64	63.75	9.24	115 J	115.16	29.55	24 J	23.68	10.86
%RPD		11%			1%			10%			9%			14%			19%			44%		
BG-15-1 12-18	06/25/10	13,436	13436.2	263.33	19,983	19982.9	440.08	875 U	< LOD	583.28	702	701.88	34.74	89	88.84	9.2	187	186.92	29.67	53 J	52.51	10.98
BG-15-2 12-18	06/25/10	13,882	13882.2	272.84	21,904	21904	467.12	866 U	< LOD	577.15	815	815.24	36.1	103	102.71	9.44	181	181.1	30.21	45 J	45.49	11.13
BG-15-3 12-18	06/25/10	20,694	20694.4	370.72	16,980	16980.1	477.97	1,088 U	< LOD	725.49	536	535.59	35.93	80	80.37	9.76	137 J	136.9	31.16	40 J	39.98	11.56
BG-15-4 12-18	06/25/10	10,490	10489.8	257.72	19,312	19311.9	468.55	912 U	< LOD	607.81	696	695.73	35.62	78	78.31	9.39	126 J	126.22	29.92	40 J	40.09	11.13
BG-15-5 12-18	06/25/10	12,999	12998.7	271.5	15,178	15177.9	409.1	909 U	< LOD	605.71	566	565.97	34.09	55	54.51	9.09	113 J	112.87	29.17	25 J	25.18	10.74
Mean		14,300			18,671			930			663			81			149			41		
BG-15 12-18 COMP	06/25/10	12,897	12897.3	287.06	19,014	19014.1	476.06	981 U	< LOD	653.84	680	679.77	35.91	87	86.51	9.53	148 J	148.02	30.45	40 J	39.58	11.27
%RPD		10%			2%			5%			3%			7%			1%			1%		
BG-16-1 0-2	06/25/10	13,017	13016.9	281.47	17,370	17370.5	448.23	1,044 U	< LOD	695.7	406	406.16	33.8	24 J	23.71	9.14	51 J	51.13	29.23	24 U	< LOD	16.11
BG-16-2 0-2	06/25/10	14,864	14864.1	302.86	21,875	21874.6	502.26	974 U	< LOD	649.59	640	639.93	37.09	90	89.92	9.95	170	169.8	31.89	48 J	47.5	11.8
BG-16-3 0-2	06/26/10	11,454	11453.9	263.19	18,202	18202.1	450.48	928 U	< LOD	618.38	782	782.47	35.41	72	71.93	9.16	135 J	134.67	29.36	35 J	35.31	10.85
BG-16-4 0-2	06/26/10	15,133	15132.7	310.82	20,975	20975.4	502.27	1,078 U	< LOD	718.69	499	498.68	34.31	63	62.94	9.3	124 J	124.32	29.83	31 J	31.29	11.02
BG-16-5 0-2	06/26/10	10,186	10186.2	247.03	18,196	18196.3	444.16	891 U	< LOD	593.95	744	744.11	35.71	72	72	9.31	147 J	147.15	29.92	41 J	41.45	11.09
Mean		12,931			19,324			983			614			64			125			36		
BG-16 0-2 COMP	06/26/10	12,423	12422.9	272.12	18,768	18768.4	456.3	964 U	< LOD	642.61	531	531.36	34.64	61	61.23	9.33	124 J	123.79	29.93	29 J	29.13	11.04
%RPD		4%			3%			2%			15%			5%			1%			21%		
BG-16-1 2-12	06/25/10	11,855	11854.9	276.24	17,833	17832.5	461.67	922 U	< LOD	614.51	542	542.13	35.17	52	52.36	9.42	87 J	86.51	30	31 J	31.39	11.21
BG-16-2 2-12	06/25/10	13,675	13674.9	261.16	19,167	19166.6	426.32	832 U	< LOD	554.82	501	500.54	34.78	76	76.13	9.49	129 J	128.93	30.29	41 J	41.3	11.27
BG-16-3 2-12	06/26/10	11,096	11096.5	262.9	19,655	19654.8	470.73	901 U	< LOD	600.89	729	728.74	35.15	78	78.04	9.21	117 J	117.15	29.27	36 J	36.28	10.89
BG-16-4 2-12	06/26/10	15,648	15647.5	318.79	22,614	22614.2	523.98	1,030 U	< LOD	686.72	587	586.84	35.45	86	85.62	9.56	168	168.15	30.74	32 J	32.37	11.23
BG-16-5 2-12	06/26/10	9,947	9947.37	263.91	16,558	16557.9	458.95	935 U	< LOD	623.27	615	614.73	35.82	72	71.9	9.55	143 J	142.94	30.67	30 J	30.17	11.25
Mean		12,444			19,165			924			595			73			129			34		
BG-16 2-12 COMP	06/26/10	12,191	12191.5	281.66	19,012	19011.8	478	983 U	< LOD	655.51	590	589.94	35.12	67	66.93	9.38	115 J	115.22	29.95	25 J	24.93	11.02
%RPD		2%			1%			6%			1%			8%			11%			31%		
BG-16-1 12-18	06/25/10	11,178	11178.1	277.86	19,708	19707.8	495.45	989 U	< LOD	659.2	663	662.78	35.92	72	71.75	9.5	166	166.14	30.71	38 J	38.09	11.29
BG-16-2 12-18	06/25/10	11,319	11318.6	244.64	21,363	21363.1	451.67	774 U	< LOD	516.27	466	465.59	33.93	57	57.35	9.23	148 J	147.52	29.9	32 J	31.8	10.98
BG-16-3 12-18	06/26/10	10,957	10956.9	256.23	18,865	18864.9	453.69	949 U	< LOD	632.59	747	747.39	35.68	73	72.83	9.29	114 J	113.97	29.59	30 J	29.75	10.94
BG-16-4 12-18	06/26/10	15,025	15024.7	301.09	22,562	22561.9	503.94	938 U	< LOD	625.62	620	620.46	36.2	85	85	9.71	195	195.13	31.45	38 J	38	11.46
BG-16-5 12-18	06/26/10	12,356	12355.6	310.74	17,061	17061.4	498.62	1,114 U	< LOD	742.52	657	657.23	37.08	85	85.16	9.89	148 J	147.5	31.57	38 J	38.02	11.66
Mean		12,167			19,912			953			631			74			154			35		
BG-16 12-18 COMP	06/26/10	11,590	11590.4	270.74	19,856	19855.5	477.95	966 U	< LOD	644.15	672	672.15	35.6	77	77.48	9.42	158	157.55	30.31	40 J	39.68	11.18
%RPD		5%			0%			1%			6%			3%			2%			13%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Tin			Cadmium			Silver		
					Threshold = 140 mg/Kg					
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ
BG-1-1 0-2	06/29/10	61	60.82	10.3	15 U	< LOD	10.25	11 U	< LOD	7.31
BG-1-2 0-2	06/29/10	25 J	25.28	9.48	13 J	12.76	6.67	11 U	< LOD	7.21
BG-1-3 0-2	06/29/10	45 J	45.4	10.17	11 J	10.5	6.93	12 U	< LOD	7.67
BG-1-4 0-2	06/29/10	34 J	34.33	10.05	15 U	< LOD	10.06	11 U	< LOD	7.59
BG-1-5 0-2	06/29/10	38 J	37.92	11.06	16 U	< LOD	10.98	12 U	< LOD	8.28
Mean		41			14			11		
BG-1 0-2 COMP	06/29/10	18 J	18.19	9.66	15 U	< LOD	10.04	11 U	< LOD	7.08
%RPD		77%			7%			4%		
BG-1-1 2-12	06/29/10	30 J	29.72	9.83	15 U	< LOD	10.15	11 U	< LOD	7.34
BG-1-2 2-12	06/29/10	23 J	23.11	9.59	15 U	< LOD	9.86	8 J	8.24	4.98
BG-1-3 2-12	06/29/10	33 J	33.15	9.97	15 U	< LOD	10.23	11 U	< LOD	7.28
BG-1-4 2-12	06/29/10	24 J	23.55	10.42	16 U	< LOD	10.56	12 U	< LOD	7.92
BG-1-5 2-12	06/29/10	28 J	27.94	10.8	16 U	< LOD	10.57	12 U	< LOD	8.16
Mean		28			15			11		
BG-1 2-12 COMP	06/29/10	21 J	21.17	9.84	15 U	< LOD	9.87	11 U	< LOD	7.53
%RPD		27%			3%			2%		
BG-1-1 12-18	06/29/10	23 J	23.21	9.62	15 U	< LOD	9.85	11 U	< LOD	7.29
BG-1-2 12-18	06/29/10	21 J	20.91	9.69	15 U	< LOD	9.95	11 U	< LOD	7.46
BG-1-3 12-18	06/29/10	22 J	21.95	9.79	15 U	< LOD	10.04	11 U	< LOD	7.32
BG-1-4 12-18	06/29/10	22 J	22.25	9.79	15 U	< LOD	10.17	11 U	< LOD	7.23
BG-1-5 12-18	06/29/10	30 J	30.26	9.81	15 U	< LOD	10.08	11 U	< LOD	7.49
Mean		24			15			11		
BG-1 12-18 COMP	06/29/10	30 J	29.5	9.87	15 U	< LOD	10.01	8 J	8.05	5.07
%RPD		24%			0%			32%		
BG-2-1 0-2	06/30/10	30 J	30.43	9.81	15 U	< LOD	9.87	11 U	< LOD	7.41
BG-2-2 0-2	06/30/10	26 J	25.58	9.34	15 U	< LOD	9.77	10 U	< LOD	6.97
BG-2-3 0-2	06/30/10	30 J	29.94	9.86	15 U	< LOD	10.15	11 U	< LOD	7.57
BG-2-4 0-2	06/30/10	27 J	26.5	9.45	15 U	< LOD	9.71	11 U	< LOD	7.08
BG-2-5 0-2	06/30/10	20 U	< LOD	13.18	14 U	< LOD	9.11	10 U	< LOD	6.76
Mean		27			15			11		
BG-2 0-2 COMP	06/30/10	26 J	25.87	9.56	15 U	< LOD	9.72	11 U	< LOD	7.2
%RPD		2%			1%			4%		
BG-2-1 2-12	06/30/10	34 J	33.73	10.03	15 U	< LOD	10.14	11 U	< LOD	7.58
BG-2-2 2-12	06/30/10	38 J	38.37	9.85	15 U	< LOD	10.02	11 U	< LOD	7.47
BG-2-3 2-12	06/30/10	19 J	18.63	9.44	15 U	< LOD	9.76	11 U	< LOD	7.18
BG-2-4 2-12	06/30/10	30 J	30.28	9.72	15 U	< LOD	9.95	11 U	< LOD	7.31
BG-2-5 2-12	06/30/10	23 J	22.82	9.39	15 U	< LOD	9.73	11 U	< LOD	7.05
Mean		29			15			11		
BG-2 2-12 COMP	06/30/10	35 J	34.7	9.77	15 U	< LOD	9.77	11 U	< LOD	7.22
%RPD		19%			0%			0%		
BG-2-1 12-18	06/30/10	30 J	29.58	9.63	15 U	< LOD	9.88	11 U	< LOD	7.24
BG-2-2 12-18	06/30/10	24 J	23.67	9.74	15 U	< LOD	10.15	11 J	11.12	5.13
BG-2-3 12-18	06/30/10	29 J	28.69	9.73	15 U	< LOD	10	11 U	< LOD	7.19
BG-2-4 12-18	06/30/10	34 J	33.88	10.16	16 U	< LOD	10.39	10 J	9.68	5.24
BG-2-5 12-18	06/30/10	19 J	18.76	9.45	14 U	< LOD	9.49	11 U	< LOD	7.09
Mean		27			15			11		
BG-2 12-18 COMP	06/30/10	36 J	35.56	9.93	15 U	< LOD	10.06	11 U	< LOD	7.36
%RPD		28%			0%			2%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Tin			Cadmium			Silver		
					Threshold = 140 mg/Kg					
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ
BG-3-1 0-2	06/29/10	30 J	29.53	9.84	11 J	10.86	6.85	11 U	< LOD	7.44
BG-3-2 0-2	06/29/10	37 J	36.61	9.78	13 J	13.24	6.8	11 U	< LOD	7.36
BG-3-3 0-2	06/29/10	16 J	16.09	9.24	14 U	< LOD	9.36	10 U	< LOD	6.92
BG-3-4 0-2	06/29/10	24 J	24.37	9.59	15 U	< LOD	9.77	11 U	< LOD	7.28
BG-3-5 0-2	06/29/10	31 J	31.09	9.66	15 U	< LOD	9.93	11 U	< LOD	7.34
Mean		28			14			11		
BG-3 0-2 COMP	06/29/10	28 J	27.91	9.61	15 U	< LOD	9.7	11 U	< LOD	7.23
%RPD		1%			10%			2%		
BG-3-1 2-12	06/29/10	22 J	21.51	9.77	15 U	< LOD	10.01	11 U	< LOD	7.51
BG-3-2 2-12	06/29/10	26 J	25.76	9.58	15 U	< LOD	9.79	11 U	< LOD	7.1
BG-3-3 2-12	06/29/10	30 J	29.53	9.76	15 U	< LOD	10.15	11 U	< LOD	7.3
BG-3-4 2-12	06/29/10	33 J	32.81	9.93	15 U	< LOD	10.19	11 U	< LOD	7.52
BG-3-5 2-12	06/29/10	30 J	30.47	9.92	15 U	< LOD	9.88	11 U	< LOD	7.56
Mean		28			15			11		
BG-3 2-12 COMP	06/29/10	29 J	29.13	9.81	15 U	< LOD	10.09	11 U	< LOD	7.42
%RPD		3%			0%			0%		
BG-3-1 12-18	06/29/10	32 J	32.13	10.17	16 U	< LOD	10.44	11 U	< LOD	7.57
BG-3-2 12-18	06/29/10	35 J	34.65	9.59	14 U	< LOD	9.64	11 U	< LOD	7.27
BG-3-3 12-18	06/29/10	25 J	24.59	9.83	15 U	< LOD	10.17	11 U	< LOD	7.45
BG-3-4 12-18	06/29/10	42 J	42.24	10.05	12 J	12.06	6.91	11 U	< LOD	7.54
BG-3-5 12-18	06/29/10	39 J	38.56	9.96	16 J	16.07	6.95	11 U	< LOD	7.58
Mean		35			15			11		
BG-3 12-18 COMP	06/29/10	34 J	34.11	9.92	15 U	< LOD	9.98	11 U	< LOD	7.41
%RPD		2%			3%			0%		
BG-4-1 0-2	06/28/10	17 J	16.67	9.48	15 U	< LOD	9.74	11 U	< LOD	7.32
BG-4-2 0-2	06/28/10	22 J	22.41	9.44	15 U	< LOD	9.87	11 U	< LOD	7.08
BG-4-3 0-2	06/28/10	21 J	21.03	9.45	11 J	10.99	6.65	11 U	< LOD	7.09
BG-4-4 0-2	06/28/10	21 U	< LOD	13.93	14 U	< LOD	9.53	11 U	< LOD	7.02
BG-4-5 0-2	06/28/10	20 U	< LOD	13.16	14 U	< LOD	9.06	10 U	< LOD	6.68
Mean		20			14			11		
BG-4 0-2 COMP	06/28/10	14 J	14.43	9.5	15 U	< LOD	9.86	11 U	< LOD	7.26
%RPD		36%			8%			2%		
BG-4-1 2-12	06/28/10	31 J	31.44	10.29	16 U	< LOD	10.67	12 U	< LOD	7.89
BG-4-2 2-12	06/28/10	23 J	23.29	9.65	15 U	< LOD	9.89	11 U	< LOD	7.46
BG-4-3 2-12	06/28/10	37 J	36.76	9.79	15 U	< LOD	10.07	11 U	< LOD	7.33
BG-4-4 2-12	06/28/10	25 J	25.11	9.97	15 U	< LOD	10.23	11 U	< LOD	7.4
BG-4-5 2-12	06/28/10	19 J	18.85	9.07	14 U	< LOD	9.4	10 U	< LOD	6.78
Mean		27			15			11		
BG-4 2-12 COMP	06/28/10	28 J	28.31	9.82	15 U	< LOD	10.15	11 U	< LOD	7.46
%RPD		4%			0%			0%		
BG-4-1 12-18	06/28/10	29 J	28.81	9.84	15 U	< LOD	10.12	11 U	< LOD	7.58
BG-4-2 12-18	06/28/10	35 J	34.79	9.66	15 U	< LOD	9.76	11 U	< LOD	7.1
BG-4-3 12-18	06/28/10	33 J	32.71	9.97	15 U	< LOD	10	11 U	< LOD	7.59
BG-4-4 12-18	06/28/10	40 J	40.09	10.56	16 U	< LOD	10.67	12 U	< LOD	7.92
BG-4-5 12-18	06/28/10	28 J	27.83	9.44	15 U	< LOD	9.73	10 U	< LOD	6.97
Mean		33			15			11		
BG-4 12-18 COMP	06/28/10	38 J	37.85	10.09	15 U	< LOD	10.09	11 U	< LOD	7.57
%RPD		14%			1%			0%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Tin			Cadmium			Silver		
					Threshold = 140 mg/Kg					
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ
BG-5-1 0-2	06/22/10	21 J	21.38	9.4	15 U	< LOD	9.73	11 U	< LOD	7.01
BG-5-2 0-2	06/22/10	28 J	27.9	9.35	15 U	< LOD	9.73	11 U	< LOD	7.17
BG-5-3 0-2	06/22/10	39 J	39.2	9.92	15 U	< LOD	10.18	11 U	< LOD	7.45
BG-5-4 0-2	06/22/10	27 J	27.18	9.67	15 U	< LOD	10	11 U	< LOD	7.37
BG-5-5 0-2	06/22/10	17 J	16.72	9.25	14 U	< LOD	9.51	11 U	< LOD	7.09
Mean		26			15			11		
BG-5 0-2 COMP	06/22/10	23 J	22.74	9.47	15 U	< LOD	9.71	11 U	< LOD	7.3
%RPD		14%			1%			0%		

BG-5-1 2-12	06/22/10	37 J	37.27	9.87	15 U	< LOD	10.04	11 U	< LOD	7.19
BG-5-2 2-12	06/22/10	30 J	30.19	9.57	15 U	< LOD	9.88	11 U	< LOD	7.27
BG-5-3 2-12	06/22/10	34 J	33.6	9.72	15 U	< LOD	9.83	11 U	< LOD	7.39
BG-5-4 2-12	06/22/10	36 J	36.32	9.98	15 U	< LOD	10.24	11 U	< LOD	7.41
BG-5-5 2-12	06/22/10	35 J	34.69	10.06	15 U	< LOD	10.23	11 U	< LOD	7.66
Mean		34			15			11		
BG-5 2-12 COMP	06/22/10	22 J	22.3	9.68	15 U	< LOD	9.84	11 U	< LOD	7.31
%RPD		44%			0%			0%		

BG-5-1 12-18	06/22/10	39 J	38.53	9.95	15 U	< LOD	10.12	11 U	< LOD	7.42
BG-5-2 12-18	06/22/10	45 J	44.81	9.8	15 U	< LOD	9.9	11 U	< LOD	7.34
BG-5-3 12-18	06/22/10	23 J	23.11	9.7	15 U	< LOD	9.95	11 U	< LOD	7.39
BG-5-4 12-18	06/22/10	32 J	32.17	9.97	15 U	< LOD	10.23	11 U	< LOD	7.59
BG-5-5 12-18	06/22/10	26 J	26.1	10.47	16 U	< LOD	10.76	8 J	8.21	5.4
Mean		33			15			10		
BG-5 12-18 COMP	06/22/10	43 J	42.87	10.07	15 U	< LOD	10.03	11 U	< LOD	7.4
%RPD		26%			1%			6%		

BG-6-1 0-2	06/28/10	26 J	26.36	9.36	14 U	< LOD	9.56	11 U	< LOD	7.02
BG-6-2 0-2	06/28/10	30 J	30.43	10.66	16 U	< LOD	10.8	12 U	< LOD	7.82
BG-6-3 0-2	06/28/10	26 J	26.16	10.12	16 U	< LOD	10.36	11 U	< LOD	7.61
BG-6-4 0-2	06/28/10	29 J	28.87	9.48	10 J	10.13	6.58	9 J	9.1	4.91
BG-6-5 0-2	06/28/10	18 J	17.76	9.27	14 U	< LOD	9.6	10 U	< LOD	6.95
Mean		26			14			11		
BG-6 0-2 COMP	06/28/10	31 J	30.85	9.75	15 U	< LOD	9.99	11 U	< LOD	7.43
%RPD		18%			7%			4%		

BG-6-1 2-12	06/28/10	29 J	29.19	9.59	11 J	10.81	6.66	8 J	7.85	4.93
BG-6-2 2-12	06/28/10	35 J	35.28	9.8	15 U	< LOD	10.04	11 U	< LOD	7.34
BG-6-3 2-12	06/28/10	23 J	22.6	9.79	15 U	< LOD	10	11 U	< LOD	7.28
BG-6-4 2-12	06/28/10	26 J	25.56	9.7	15 U	< LOD	9.99	10 J	10.26	5.07
BG-6-5 2-12	06/28/10	33 J	33.02	9.77	15 U	< LOD	9.99	11 U	< LOD	7.29
Mean		29			14			10		
BG-6 2-12 COMP	06/28/10	25 J	25	9.68	15 U	< LOD	10.04	11 U	< LOD	7.25
%RPD		15%			5%			8%		

BG-6-1 12-18	06/28/10	35 J	35.13	10	15 U	< LOD	10.2	11 U	< LOD	7.5
BG-6-2 12-18	06/28/10	26 J	25.59	9.96	16 U	< LOD	10.34	11 U	< LOD	7.43
BG-6-3 12-18	06/28/10	35 J	35.22	10.02	15 U	< LOD	10.19	11 U	< LOD	7.41
BG-6-4 12-18	06/28/10	27 J	26.91	9.99	16 U	< LOD	10.37	11 U	< LOD	7.63
BG-6-5 12-18	06/28/10	22 J	21.64	9.69	15 U	< LOD	10.03	11 U	< LOD	7.26
Mean		29			15			11		
BG-6 12-18 COMP	06/28/10	41 J	41.1	10.13	17 J	16.71	7.06	11 U	< LOD	7.46
%RPD		34%			10%			0%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Tin			Cadmium			Silver		
					Threshold = 140 mg/Kg					
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ
BG-7-1 0-2	06/27/10	25 U	< LOD	16.45	16 U	< LOD	10.97	12 U	< LOD	8.21
BG-7-2 0-2	06/27/10	31 J	30.9	9.71	15 U	< LOD	10.05	11 U	< LOD	7.32
BG-7-3 0-2	06/27/10	40 J	40.41	9.93	15 U	< LOD	10.1	11 U	< LOD	7.33
BG-7-4 0-2	06/27/10	20 J	20.25	9.41	14 U	< LOD	9.65	11 U	< LOD	7.21
BG-7-5 0-2	06/27/10	32 J	32.11	10.2	16 U	< LOD	10.45	11 U	< LOD	7.6
Mean		30			15			11		
BG-7 0-2 COMP	06/27/10	23 J	23.2	10.17	16 U	< LOD	10.37	11 U	< LOD	7.58
%RPD		25%			5%			2%		
BG-7-1 2-12	06/27/10	24 J	23.85	10.76	16 U	< LOD	10.89	12 U	< LOD	8.08
BG-7-2 2-12	06/27/10	37 J	37.04	10.21	15 U	< LOD	10.26	11 U	< LOD	7.66
BG-7-3 2-12	06/27/10	40 J	39.62	10.01	15 U	< LOD	10.07	11 U	< LOD	7.47
BG-7-4 2-12	06/27/10	19 J	19.29	9.53	15 U	< LOD	9.87	11 U	< LOD	7.33
BG-7-5 2-12	06/27/10	25 J	24.67	9.69	15 U	< LOD	9.84	11 U	< LOD	7.2
Mean		29			15			11		
BG-7 2-12 COMP	06/27/10	26 J	26.18	9.82	15 U	< LOD	9.87	11 U	< LOD	7.28
%RPD		11%			1%			2%		
BG-7-1 12-18	06/27/10	30 U	< LOD	20.09	20 U	< LOD	13.37	15 U	< LOD	9.8
BG-7-2 12-18	06/27/10	32 J	31.83	10.04	16 U	< LOD	10.35	11 U	< LOD	7.36
BG-7-3 12-18	06/27/10	40 J	39.79	10.08	15 U	< LOD	10	11 U	< LOD	7.47
BG-7-4 12-18	06/27/10	26 J	26.31	9.75	15 U	< LOD	9.97	11 U	< LOD	7.25
BG-7-5 12-18	06/27/10	38 J	38.01	9.79	15 U	< LOD	10.01	11 U	< LOD	7.24
Mean		33			16			12		
BG-7 12-18 COMP	06/27/10	22 U	< LOD	14.94	15 U	< LOD	10.28	11 U	< LOD	7.3
%RPD		41%			8%			7%		
BG-8-1 0-2	06/26/10	20 U	< LOD	13.47	14 U	< LOD	9.22	8 J	7.73	4.75
BG-8-2 0-2	06/26/10	38 J	37.68	10.08	15 U	< LOD	10.28	11 U	< LOD	7.53
BG-8-3 0-2	06/26/10	21 J	20.9	9.21	14 U	< LOD	9.56	10 U	< LOD	6.92
BG-8-4 0-2	06/26/10	23 J	23.11	9.55	15 U	< LOD	9.77	11 U	< LOD	7.1
BG-8-5 0-2	06/26/10	34 J	33.76	9.95	15 U	< LOD	10.09	11 U	< LOD	7.55
Mean		27			15			10		
BG-8 0-2 COMP	06/26/10	21 J	20.55	9.52	15 U	< LOD	9.88	11 U	< LOD	7.27
%RPD		26%			3%			8%		
BG-8-1 2-12	06/26/10	25 J	24.95	9.45	15 U	< LOD	9.68	11 U	< LOD	7.21
BG-8-2 2-12	06/26/10	27 J	27.37	10.02	15 U	< LOD	10.06	11 U	< LOD	7.52
BG-8-3 2-12	06/26/10	28 J	27.95	9.82	15 U	< LOD	10.21	11 U	< LOD	7.39
BG-8-4 2-12	06/26/10	31 J	30.66	9.7	15 U	< LOD	9.9	11 U	< LOD	7.24
BG-8-5 2-12	06/26/10	28 J	27.61	9.87	15 U	< LOD	9.89	9 J	8.89	5.1
Mean		28			15			11		
BG-8 2-12 COMP	06/26/10	29 J	29.09	9.86	15 U	< LOD	10.05	11 U	< LOD	7.54
%RPD		4%			0%			4%		
BG-8-1 12-18	06/26/10	28 J	28.06	9.39	14 U	< LOD	9.6	8 J	7.72	4.84
BG-8-2 12-18	06/26/10	40 J	40.43	10.47	16 U	< LOD	10.62	12 U	< LOD	7.88
BG-8-3 12-18	06/26/10	31 J	31.17	9.82	15 U	< LOD	9.92	11 U	< LOD	7.38
BG-8-4 12-18	06/26/10	35 J	35.33	9.96	13 J	12.96	6.93	11 U	< LOD	7.62
BG-8-5 12-18	06/26/10	36 J	36.22	10	15 U	< LOD	10.08	11 U	< LOD	7.56
Mean		34			15			11		
BG-8 12-18 COMP	06/26/10	38 J	38.45	10.03	15 U	< LOD	10.18	11 U	< LOD	7.58
%RPD		11%			3%			4%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Tin			Cadmium			Silver		
					Threshold = 140 mg/Kg					
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ
BG-9-1 0-2	06/22/10	37 J	36.85	9.61	11 J	10.73	6.63	11 U	< LOD	7.18
BG-9-2 0-2	06/22/10	30 J	30.07	9.48	11 J	10.61	6.59	11 U	< LOD	7.12
BG-9-3 0-2	06/22/10	18 J	17.86	11.58	18 U	< LOD	11.82	13 U	< LOD	8.8
BG-9-4 0-2	06/22/10	31 J	30.85	9.67	15 U	< LOD	9.94	8 J	7.99	4.97
BG-9-5 0-2	06/22/10	32 J	31.63	10.07	15 U	< LOD	10.1	11 U	< LOD	7.5
Mean		30			14			11		
BG-9 0-2 COMP	06/22/10	24 J	23.97	10.05	15 U	< LOD	10.31	11 U	< LOD	7.63
%RPD		21%			7%			2%		

BG-9-1 2-12	06/22/10	33 J	32.86	9.61	15 U	< LOD	9.77	11 U	< LOD	7.1
BG-9-2 2-12	06/22/10	36 J	35.89	9.57	10 J	10.12	6.59	11 U	< LOD	7.15
BG-9-3 2-12	06/22/10	41 J	40.94	10.06	15 U	< LOD	10.16	11 U	< LOD	7.47
BG-9-4 2-12	06/22/10	37 J	36.91	10.08	15 U	< LOD	10.27	11 U	< LOD	7.51
BG-9-5 2-12	06/22/10	43 J	43.16	10.15	15 U	< LOD	10.18	11 U	< LOD	7.49
Mean		38			14			11		
BG-9 2-12 COMP	06/22/10	32 J	31.86	9.98	15 U	< LOD	10.25	11 U	< LOD	7.54
%RPD		17%			7%			0%		

BG-9-1 12-18	06/22/10	35 J	34.68	9.8	15 U	< LOD	10.04	11 U	< LOD	7.29
BG-9-2 12-18	06/22/10	28 J	27.8	9.6	15 U	< LOD	9.96	11 U	< LOD	7.31
BG-9-3 12-18	06/22/10	35 J	34.68	10.22	16 U	< LOD	10.35	12 U	< LOD	7.79
BG-9-4 12-18	06/22/10	29 J	28.89	10.03	15 U	< LOD	10.28	11 U	< LOD	7.59
BG-9-5 12-18	06/22/10	23 J	23.24	9.85	15 U	< LOD	10.21	11 U	< LOD	7.45
Mean		30			15			11		
BG-9 12-18 COMP	06/22/10	32 J	32.45	9.83	15 U	< LOD	9.92	11 U	< LOD	7.32
%RPD		6%			1%			2%		

BG-10-1 0-2	06/23/10	28 J	28.11	9.43	14 U	< LOD	9.63	11 U	< LOD	7.09
BG-10-2 0-2	06/23/10	17 J	17.26	9.71	15 U	< LOD	10	11 U	< LOD	7.32
BG-10-3 0-2	06/23/10	25 J	24.96	9.85	15 U	< LOD	10.09	11 U	< LOD	7.37
BG-10-4 0-2	06/23/10	35 J	34.97	9.91	15 U	< LOD	10.05	11 U	< LOD	7.44
BG-10-5 0-2	06/23/10	28 J	27.95	10.34	16 U	< LOD	10.62	12 U	< LOD	7.85
Mean		27			15			11		
BG-10 0-2 COMP	06/23/10	26 J	26.11	9.65	15 U	< LOD	9.81	11 U	< LOD	7.06
%RPD		2%			0%			2%		

BG-10-1 2-12	06/23/10	31 J	31.26	9.58	13 J	12.7	6.68	10 J	9.55	4.96
BG-10-2 2-12	06/23/10	23 J	23.04	9.89	15 U	< LOD	10.08	11 U	< LOD	7.34
BG-10-3 2-12	06/23/10	19 J	19.37	9.23	14 U	< LOD	9.29	10 U	< LOD	6.98
BG-10-4 2-12	06/23/10	33 J	33.09	9.82	15 U	< LOD	10.09	11 U	< LOD	7.34
BG-10-5 2-12	06/23/10	24 J	24.4	9.76	15 U	< LOD	9.77	11 U	< LOD	7.33
Mean		26			14			11		
BG-10 2-12 COMP	06/23/10	28 J	28.02	9.79	15 U	< LOD	10.1	11 U	< LOD	7.51
%RPD		7%			4%			4%		

BG-10-1 12-18	06/23/10	36 J	36.17	10.13	15 U	< LOD	10.32	9 J	8.98	5.18
BG-10-2 12-18	06/23/10	15 J	14.6	9.66	15 U	< LOD	10.12	11 U	< LOD	7.29
BG-10-3 12-18	06/23/10	24 J	24.09	9.43	15 U	< LOD	9.71	11 U	< LOD	7.14
BG-10-4 12-18	06/23/10	35 J	34.76	9.81	15 U	< LOD	10.09	11 U	< LOD	7.19
BG-10-5 12-18	06/23/10	41 J	40.55	10.06	13 J	13.25	6.96	11 U	< LOD	7.43
Mean		30			15			11		
BG-10 12-18 COMP	06/23/10	27 J	27.02	9.79	15 U	< LOD	10.18	11 U	< LOD	7.42
%RPD		11%			3%			4%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Tin			Cadmium			Silver		
					Threshold = 140 mg/Kg					
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ
BG-11-1 0-2	06/27/10	30 J	30.01	9.48	15 U	< LOD	9.75	11 U	< LOD	7.05
BG-11-2 0-2	06/27/10	17 J	16.8	9.3	14 U	< LOD	9.6	11 U	< LOD	7.06
BG-11-3 0-2	06/27/10	27 J	26.68	9.48	15 U	< LOD	9.78	11 U	< LOD	7.13
BG-11-4 0-2	06/27/10	25 J	25.24	9.33	14 U	< LOD	9.6	10 U	< LOD	6.98
BG-11-5 0-2	06/27/10	26 J	26.46	9.7	15 U	< LOD	9.97	11 U	< LOD	7.22
Mean		25			15			11		
BG-11 0-2 COMP	06/27/10	31 J	30.83	9.65	15 U	< LOD	9.95	11 U	< LOD	7.2
%RPD		21%			3%			2%		

BG-11-1 2-12	06/27/10	23 J	22.77	9.37	14 U	< LOD	9.5	11 U	< LOD	7.02
BG-11-2 2-12	06/27/10	27 J	27.13	9.7	15 U	< LOD	10.08	11 U	< LOD	7.47
BG-11-3 2-12	06/27/10	30 J	29.76	9.84	15 U	< LOD	10	11 U	< LOD	7.47
BG-11-4 2-12	06/27/10	29 J	29	9.6	15 U	< LOD	9.91	11 U	< LOD	7.07
BG-11-5 2-12	06/27/10	31 J	30.72	9.98	15 U	< LOD	10.31	11 U	< LOD	7.66
Mean		28			15			11		
BG-11 2-12 COMP	06/27/10	30 J	30.4	9.79	15 U	< LOD	9.97	11 U	< LOD	7.46
%RPD		7%			1%			0%		

BG-11-1 12-18	06/27/10	23 J	23.04	9.37	14 U	< LOD	9.56	10 U	< LOD	6.98
BG-11-2 12-18	06/27/10	39 J	38.75	10.07	15 U	< LOD	10.3	11 U	< LOD	7.3
BG-11-3 12-18	06/27/10	42 J	42	10.08	15 U	< LOD	10.21	11 U	< LOD	7.25
BG-11-4 12-18	06/27/10	29 J	29.2	9.61	15 U	< LOD	9.82	11 U	< LOD	7.23
BG-11-5 12-18	06/27/10	34 J	33.75	10.1	16 U	< LOD	10.39	11 U	< LOD	7.6
Mean		33			15			11		
BG-11 12-18 COMP	06/27/10	29 J	28.8	9.98	15 U	< LOD	10.07	11 U	< LOD	7.35
%RPD		14%			0%			2%		

BG-12-1 0-2	06/26/10	39 J	38.78	9.96	15 U	< LOD	10.07	11 U	< LOD	7.45
BG-12-2 0-2	06/26/10	28 J	27.65	9.54	15 U	< LOD	9.84	11 U	< LOD	7.13
BG-12-3 0-2	06/26/10	24 J	24.47	9.37	14 U	< LOD	9.64	11 U	< LOD	7.09
BG-12-4 0-2	06/26/10	29 J	29.36	9.58	15 U	< LOD	9.96	8 J	8.39	4.94
BG-12-5 0-2	06/26/10	20 U	< LOD	13.6	14 U	< LOD	9.35	10 U	< LOD	6.83
Mean		28			15			10		
BG-12 0-2 COMP	06/26/10	21 J	21.47	9.55	15 U	< LOD	9.9	11 U	< LOD	7.36
%RPD		29%			3%			8%		

BG-12-1 2-12	06/26/10	25 J	25.34	9.68	15 U	< LOD	9.97	11 U	< LOD	7.36
BG-12-2 2-12	06/26/10	32 J	32.16	10.03	15 U	< LOD	10.3	11 U	< LOD	7.48
BG-12-3 2-12	06/26/10	32 J	32.47	9.93	15 U	< LOD	10.26	11 U	< LOD	7.43
BG-12-4 2-12	06/26/10	30 J	29.97	9.59	11 J	10.99	6.66	11 U	< LOD	7.3
BG-12-5 2-12	06/26/10	35 J	34.66	9.67	15 U	< LOD	9.89	11 U	< LOD	7.22
Mean		31			14			11		
BG-12 2-12 COMP	06/26/10	37 J	37.07	10.02	15 U	< LOD	10.26	11 U	< LOD	7.62
%RPD		18%			5%			0%		

BG-12-1 12-18	06/26/10	34 J	34.47	9.98	15 U	< LOD	10.07	11 U	< LOD	7.57
BG-12-2 12-18	06/26/10	38 J	37.79	10.11	15 U	< LOD	10.22	11 U	< LOD	7.48
BG-12-3 12-18	06/26/10	30 J	29.62	9.99	15 U	< LOD	10.22	8 J	8.35	5.14
BG-12-4 12-18	06/26/10	38 J	38.03	9.91	15 U	< LOD	10.14	11 U	< LOD	7.47
BG-12-5 12-18	06/26/10	41 J	40.99	10.3	16 U	< LOD	10.54	12 U	< LOD	7.71
Mean		36			15			11		
BG-12 12-18 COMP	06/26/10	44 J	44.46	10.28	15 U	< LOD	10.32	11 U	< LOD	7.56
%RPD		19%			1%			4%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Tin			Cadmium			Silver		
					Threshold = 140 mg/Kg					
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ
BG-13-1 0-2	06/22/10	23 U	< LOD	15.41	16 U	< LOD	10.64	12 U	< LOD	7.73
BG-13-2 0-2	06/22/10	24 J	23.56	9.63	15 U	< LOD	9.9	11 U	< LOD	7.33
BG-13-3 0-2	06/22/10	22 J	21.6	9.47	15 U	< LOD	9.74	9 J	9.42	4.95
BG-13-4 0-2	06/22/10	39 J	39.1	9.61	15 U	< LOD	9.8	11 U	< LOD	7.22
BG-13-5 0-2	06/22/10	36 J	36.32	9.75	13 J	13.4	6.75	11 U	< LOD	7.31
Mean		29			15			11		
BG-13 0-2 COMP	06/22/10	28 J	28.49	9.59	15 U	< LOD	9.75	11 U	< LOD	7.11
%RPD		3%			1%			2%		

BG-13-1 2-12	06/22/10	35 J	34.99	10.81	16 U	< LOD	10.89	12 U	< LOD	8.03
BG-13-2 2-12	06/22/10	38 J	38.25	9.89	15 U	< LOD	10.13	11 U	< LOD	7.36
BG-13-3 2-12	06/22/10	28 J	27.68	9.68	15 U	< LOD	9.92	11 U	< LOD	7.21
BG-13-4 2-12	06/22/10	37 J	37.41	9.95	15 U	< LOD	10.18	11 U	< LOD	7.54
BG-13-5 2-12	06/22/10	38 J	37.5	9.77	15 U	< LOD	9.92	11 U	< LOD	7.26
Mean		35			15			11		
BG-13 2-12 COMP	06/22/10	25 J	24.51	9.91	15 U	< LOD	10.15	11 U	< LOD	7.45
%RPD		34%			1%			2%		

BG-13-1 12-18	06/22/10	43 J	43.06	10.31	16 U	< LOD	10.41	11 U	< LOD	7.51
BG-13-2 12-18	06/22/10	42 J	42	10.09	15 U	< LOD	10.23	11 U	< LOD	7.45
BG-13-3 12-18	06/22/10	33 J	33.17	9.98	11 J	11.45	6.93	11 U	< LOD	7.41
BG-13-4 12-18	06/22/10	39 J	38.62	9.85	15 U	< LOD	10	11 U	< LOD	7.26
BG-13-5 12-18	06/22/10	23 J	23.19	9.5	15 U	< LOD	9.68	11 U	< LOD	7.22
Mean		36			14			11		
BG-13 12-18 COMP	06/22/10	39 J	39.11	10.12	15 U	< LOD	10.25	8 J	7.96	5.14
%RPD		8%			4%			32%		

BG-14-1 0-2	06/23/10	28 J	28.48	10.1	16 U	< LOD	10.36	11 U	< LOD	7.62
BG-14-2 0-2	06/23/10	31 J	31.49	9.95	15 U	< LOD	10.15	11 U	< LOD	7.5
BG-14-3 0-2	06/23/10	14 J	13.96	9.19	11 J	10.64	6.52	11 U	< LOD	7.08
BG-14-4 0-2	06/23/10	29 J	29.43	9.67	15 U	< LOD	9.95	11 U	< LOD	7.29
BG-14-5 0-2	06/23/10	38 J	37.84	9.67	15 U	< LOD	9.75	11 U	< LOD	7.14
Mean		28			14			11		
BG-14 0-2 COMP	06/23/10	26 J	26.24	9.62	15 U	< LOD	9.96	11 U	< LOD	7.11
%RPD		7%			4%			0%		

BG-14-1 2-12	06/23/10	28 J	28.36	10.05	16 U	< LOD	10.34	12 U	< LOD	7.67
BG-14-2 2-12	06/23/10	22 J	21.68	9.8	15 U	< LOD	9.88	11 U	< LOD	7.55
BG-14-3 2-12	06/23/10	39 J	38.52	9.75	15 U	< LOD	9.88	8 J	7.95	4.96
BG-14-4 2-12	06/23/10	30 J	29.63	9.98	16 U	< LOD	10.34	11 U	< LOD	7.52
BG-14-5 2-12	06/23/10	29 J	29.24	9.62	15 U	< LOD	9.73	8 J	8.47	4.95
01/00/00		30			15			10		
BG-14 2-12 COMP	06/23/10	30 J	30.22	9.77	15 U	< LOD	10.02	9 J	9.01	5.04
%RPD		1%			3%			11%		

BG-14-1 12-18	06/23/10	30 J	30.44	9.53	15 U	< LOD	9.87	11 U	< LOD	7.29
BG-14-2 12-18	06/23/10	39 J	38.99	9.98	15 U	< LOD	10.26	11 U	< LOD	7.51
BG-14-3 12-18	06/23/10	25 J	24.89	9.59	15 U	< LOD	9.97	11 U	< LOD	7.19
BG-14-4 12-18	06/23/10	17 J	16.54	9.6	15 U	< LOD	9.8	11 U	< LOD	7.29
BG-14-5 12-18	06/23/10	37 J	36.78	10.01	12 J	12.12	6.92	11 U	< LOD	7.46
Mean		30			14			11		
BG-14 12-18 COMP	06/23/10	39 J	38.78	9.86	15 U	< LOD	10.12	11 U	< LOD	7.24
%RPD		27%			4%			0%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

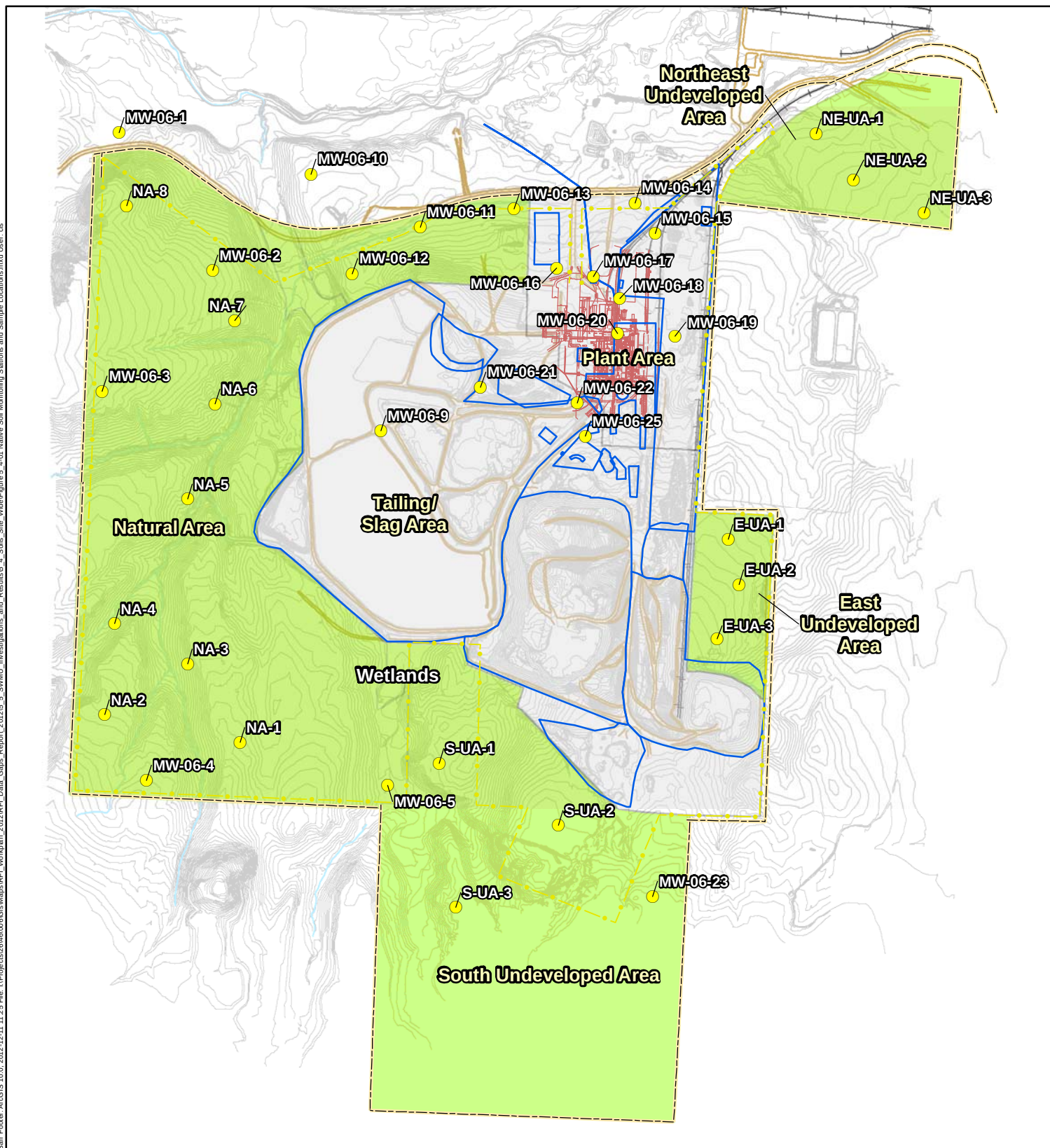
Station	Date Collected	Tin			Cadmium			Silver		
					Threshold = 140 mg/Kg					
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ
BG-15-1 0-2	06/25/10	26 J	26.01	9.5	15 U	< LOD	9.68	11 U	< LOD	7.19
BG-15-2 0-2	06/25/10	27 J	26.95	9.55	15 U	< LOD	9.73	11 U	< LOD	7.21
BG-15-3 0-2	06/25/10	29 J	29.32	9.51	15 U	< LOD	9.69	11 U	< LOD	7.2
BG-15-4 0-2	06/25/10	37 J	36.95	9.51	15 U	< LOD	9.68	11 U	< LOD	7.07
BG-15-5 0-2	06/25/10	19 U	< LOD	12.94	14 U	< LOD	9.05	10 U	< LOD	6.4
Mean		28			15			11		
BG-15 0-2 COMP	06/25/10	23 J	22.89	9.51	15 U	< LOD	9.71	11 U	< LOD	7.3
%RPD		18%			1%			2%		
BG-15-1 2-12	06/25/10	34 J	34.38	9.6	15 U	< LOD	9.81	11 U	< LOD	7.16
BG-15-2 2-12	06/25/10	42 J	41.97	9.85	15 U	< LOD	10.01	11 U	< LOD	7.3
BG-15-3 2-12	06/25/10	36 J	36.07	9.74	15 U	< LOD	9.76	11 U	< LOD	7.17
BG-15-4 2-12	06/25/10	33 J	32.82	9.64	15 U	< LOD	9.87	11 U	< LOD	7.35
BG-15-5 2-12	06/25/10	18 J	18.04	9.2	14 U	< LOD	9.59	11 U	< LOD	7.05
Mean		33			15			11		
BG-15 2-12 COMP	06/25/10	32 J	31.85	9.54	15 U	< LOD	9.71	11 U	< LOD	7.18
%RPD		2%			1%			0%		
BG-15-1 12-18	06/25/10	48	48.05	9.59	14 U	< LOD	9.63	9 J	9.03	4.85
BG-15-2 12-18	06/25/10	40 J	39.98	9.69	15 U	< LOD	9.83	11 U	< LOD	7.27
BG-15-3 12-18	06/25/10	40 J	40.09	10.1	15 U	< LOD	10.21	11 U	< LOD	7.65
BG-15-4 12-18	06/25/10	41 J	40.92	9.74	15 U	< LOD	9.72	11 U	< LOD	7.19
BG-15-5 12-18	06/25/10	21 U	< LOD	13.82	14 U	< LOD	9.45	11 U	< LOD	7.08
Mean		38			15			11		
BG-15 12-18 COMP	06/25/10	36 J	35.74	9.79	12 J	12.1	6.78	11 U	< LOD	7.25
%RPD		5%			20%			4%		
BG-16-1 0-2	06/25/10	21 U	< LOD	13.9	14 U	< LOD	9.34	11 U	< LOD	7.01
BG-16-2 0-2	06/25/10	41 J	40.57	10.24	16 U	< LOD	10.46	11 U	< LOD	7.61
BG-16-3 0-2	06/26/10	22 J	22.09	9.33	14 U	< LOD	9.54	10 U	< LOD	6.99
BG-16-4 0-2	06/26/10	23 J	23.48	9.51	15 U	< LOD	9.8	11 U	< LOD	7.36
BG-16-5 0-2	06/26/10	34 J	33.81	9.61	15 U	< LOD	9.9	11 U	< LOD	7.32
Mean		28			15			11		
BG-16 0-2 COMP	06/26/10	23 J	22.85	9.53	15 U	< LOD	9.85	11 U	< LOD	7.17
%RPD		20%			1%			2%		
BG-16-1 2-12	06/25/10	17 J	17.16	9.58	15 U	< LOD	9.99	11 U	< LOD	7.23
BG-16-2 2-12	06/25/10	31 J	31.46	9.74	15 U	< LOD	9.8	11 U	< LOD	7.44
BG-16-3 2-12	06/26/10	38 J	38.05	9.52	15 U	< LOD	9.73	10 U	< LOD	6.95
BG-16-4 2-12	06/26/10	34 J	33.58	9.8	15 U	< LOD	10.07	11 U	< LOD	7.47
BG-16-5 2-12	06/26/10	30 J	29.94	9.8	15 U	< LOD	9.93	11 U	< LOD	7.39
Mean		30			15			11		
BG-16 2-12 COMP	06/26/10	14 J	14.34	9.47	15 U	< LOD	9.83	7 J	7.44	4.94
%RPD		73%			0%			43%		
BG-16-1 12-18	06/25/10	34 J	33.68	9.8	11 J	11	6.78	11 U	< LOD	7.39
BG-16-2 12-18	06/25/10	33 J	32.61	9.56	15 U	< LOD	9.8	11 U	< LOD	7.32
BG-16-3 12-18	06/26/10	24 J	23.59	9.48	15 U	< LOD	9.68	11 U	< LOD	7.21
BG-16-4 12-18	06/26/10	39 J	39.25	10.02	15 U	< LOD	10.2	8 J	8.02	5.09
BG-16-5 12-18	06/26/10	43 J	42.72	10.23	16 U	< LOD	10.38	11 U	< LOD	7.52
Mean		35			14			10		
BG-16 12-18 COMP	06/26/10	29 J	28.78	9.65	15 U	< LOD	9.86	11 U	< LOD	7.39
%RPD		18%			4%			6%		

Table 5.4.2-1

Evaluation of Composite Samples
Background/Reference Area Soil Investigation
Rhodia Silver Bow Plant

Station	Date Collected	Tin			Cadmium			Silver		
					Threshold = 140 mg/Kg					
		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
			Reading	2σ		Reading	2σ		Reading	2σ
BG-15-1 0-2	06/25/10	26 J	26.01	9.5	15 U	< LOD	9.68	11 U	< LOD	7.19
BG-15-2 0-2	06/25/10	27 J	26.95	9.55	15 U	< LOD	9.73	11 U	< LOD	7.21
BG-15-3 0-2	06/25/10	29 J	29.32	9.51	15 U	< LOD	9.69	11 U	< LOD	7.2
BG-15-4 0-2	06/25/10	37 J	36.95	9.51	15 U	< LOD	9.68	11 U	< LOD	7.07
BG-15-5 0-2	06/25/10	19 U	< LOD	12.94	14 U	< LOD	9.05	10 U	< LOD	6.4
Mean		28			15			11		
BG-15 0-2 COMP	06/25/10	23 J	22.89	9.51	15 U	< LOD	9.71	11 U	< LOD	7.3
%RPD		18%			1%			2%		
BG-15-1 2-12	06/25/10	34 J	34.38	9.6	15 U	< LOD	9.81	11 U	< LOD	7.16
BG-15-2 2-12	06/25/10	42 J	41.97	9.85	15 U	< LOD	10.01	11 U	< LOD	7.3
BG-15-3 2-12	06/25/10	36 J	36.07	9.74	15 U	< LOD	9.76	11 U	< LOD	7.17
BG-15-4 2-12	06/25/10	33 J	32.82	9.64	15 U	< LOD	9.87	11 U	< LOD	7.35
BG-15-5 2-12	06/25/10	18 J	18.04	9.2	14 U	< LOD	9.59	11 U	< LOD	7.05
Mean		33			15			11		
BG-15 2-12 COMP	06/25/10	32 J	31.85	9.54	15 U	< LOD	9.71	11 U	< LOD	7.18
%RPD		2%			1%			0%		
BG-15-1 12-18	06/25/10	48	48.05	9.59	14 U	< LOD	9.63	9 J	9.03	4.85
BG-15-2 12-18	06/25/10	40 J	39.98	9.69	15 U	< LOD	9.83	11 U	< LOD	7.27
BG-15-3 12-18	06/25/10	40 J	40.09	10.1	15 U	< LOD	10.21	11 U	< LOD	7.65
BG-15-4 12-18	06/25/10	41 J	40.92	9.74	15 U	< LOD	9.72	11 U	< LOD	7.19
BG-15-5 12-18	06/25/10	21 U	< LOD	13.82	14 U	< LOD	9.45	11 U	< LOD	7.08
Mean		38			15			11		
BG-15 12-18 COMP	06/25/10	36 J	35.74	9.79	12 J	12.1	6.78	11 U	< LOD	7.25
%RPD		5%			20%			4%		
BG-16-1 0-2	06/25/10	21 U	< LOD	13.9	14 U	< LOD	9.34	11 U	< LOD	7.01
BG-16-2 0-2	06/25/10	41 J	40.57	10.24	16 U	< LOD	10.46	11 U	< LOD	7.61
BG-16-3 0-2	06/26/10	22 J	22.09	9.33	14 U	< LOD	9.54	10 U	< LOD	6.99
BG-16-4 0-2	06/26/10	23 J	23.48	9.51	15 U	< LOD	9.8	11 U	< LOD	7.36
BG-16-5 0-2	06/26/10	34 J	33.81	9.61	15 U	< LOD	9.9	11 U	< LOD	7.32
Mean		28			15			11		
BG-16 0-2 COMP	06/26/10	23 J	22.85	9.53	15 U	< LOD	9.85	11 U	< LOD	7.17
%RPD		20%			1%			2%		
BG-16-1 2-12	06/25/10	17 J	17.16	9.58	15 U	< LOD	9.99	11 U	< LOD	7.23
BG-16-2 2-12	06/25/10	31 J	31.46	9.74	15 U	< LOD	9.8	11 U	< LOD	7.44
BG-16-3 2-12	06/26/10	38 J	38.05	9.52	15 U	< LOD	9.73	10 U	< LOD	6.95
BG-16-4 2-12	06/26/10	34 J	33.58	9.8	15 U	< LOD	10.07	11 U	< LOD	7.47
BG-16-5 2-12	06/26/10	30 J	29.94	9.8	15 U	< LOD	9.93	11 U	< LOD	7.39
Mean		30			15			11		
BG-16 2-12 COMP	06/26/10	14 J	14.34	9.47	15 U	< LOD	9.83	7 J	7.44	4.94
%RPD		73%			0%			43%		
BG-16-1 12-18	06/25/10	34 J	33.68	9.8	11 J	11	6.78	11 U	< LOD	7.39
BG-16-2 12-18	06/25/10	33 J	32.61	9.56	15 U	< LOD	9.8	11 U	< LOD	7.32
BG-16-3 12-18	06/26/10	24 J	23.59	9.48	15 U	< LOD	9.68	11 U	< LOD	7.21
BG-16-4 12-18	06/26/10	39 J	39.25	10.02	15 U	< LOD	10.2	8 J	8.02	5.09
BG-16-5 12-18	06/26/10	43 J	42.72	10.23	16 U	< LOD	10.38	11 U	< LOD	7.52
Mean		35			14			10		
BG-16 12-18 COMP	06/26/10	29 J	28.78	9.65	15 U	< LOD	9.86	11 U	< LOD	7.39
%RPD		18%			4%			6%		

Figures



- | | |
|--|--|
| ● Sample Location | Property Boundary |
| SWMUs | ● Fence Line |
| — Elevation Contour | Developed Area |
| — Drainage | Undeveloped Area |
| — Railroad | |
| — Road | |
| — Former Plant Structures | |

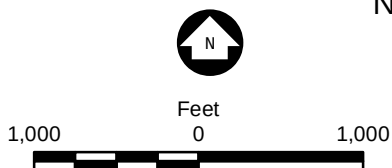
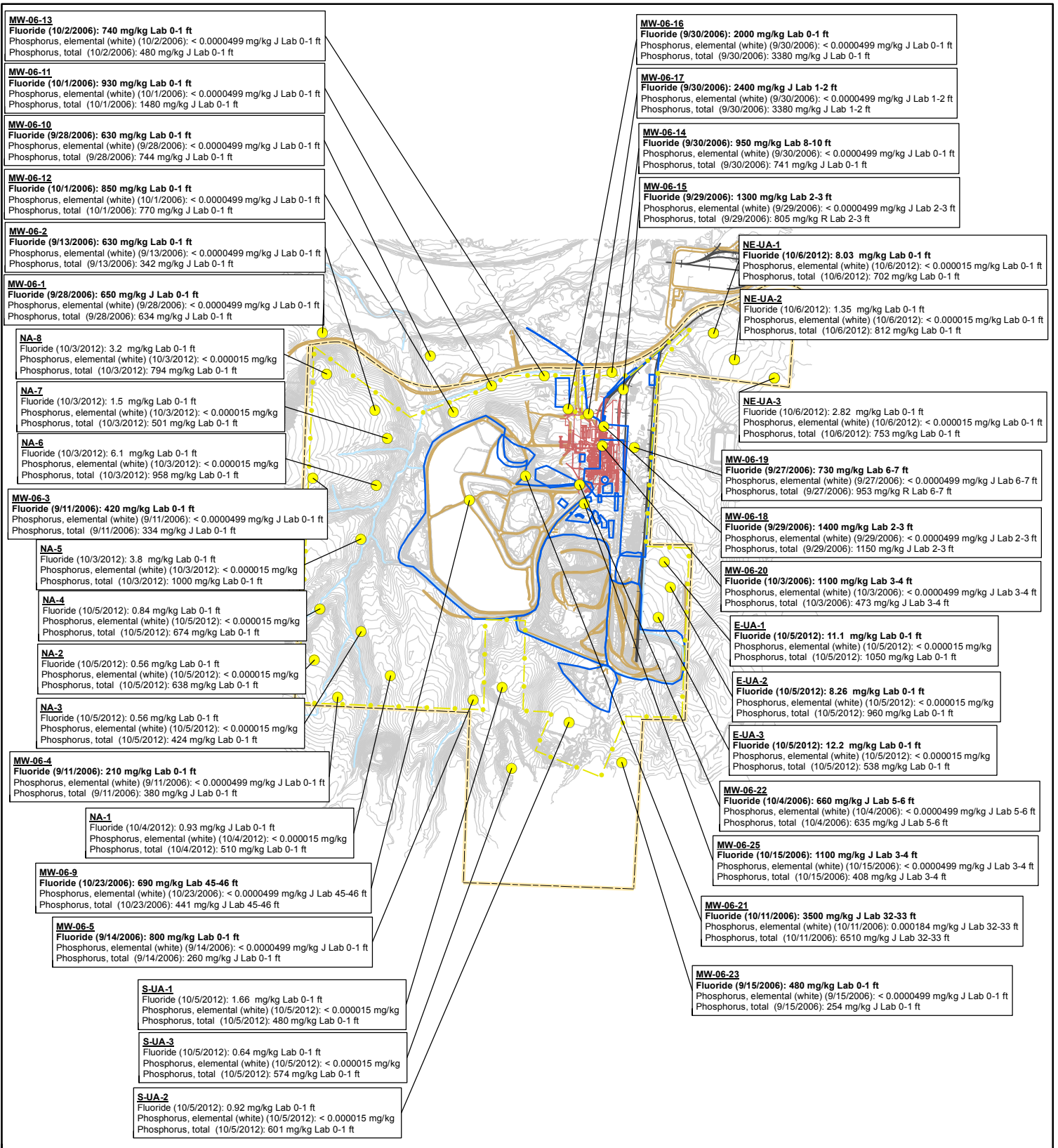


Figure 5.4-1

NATIVE SOIL MONITORING STATIONS
AND SAMPLE LOCATIONS
Rhodia Silver Bow Plant
Montana



- Sample Location
- Property Boundary
- SWMU
- Fence Line
- Elevation Contour
- Drainage
- Railroad
- Road
- Former Plant Structures

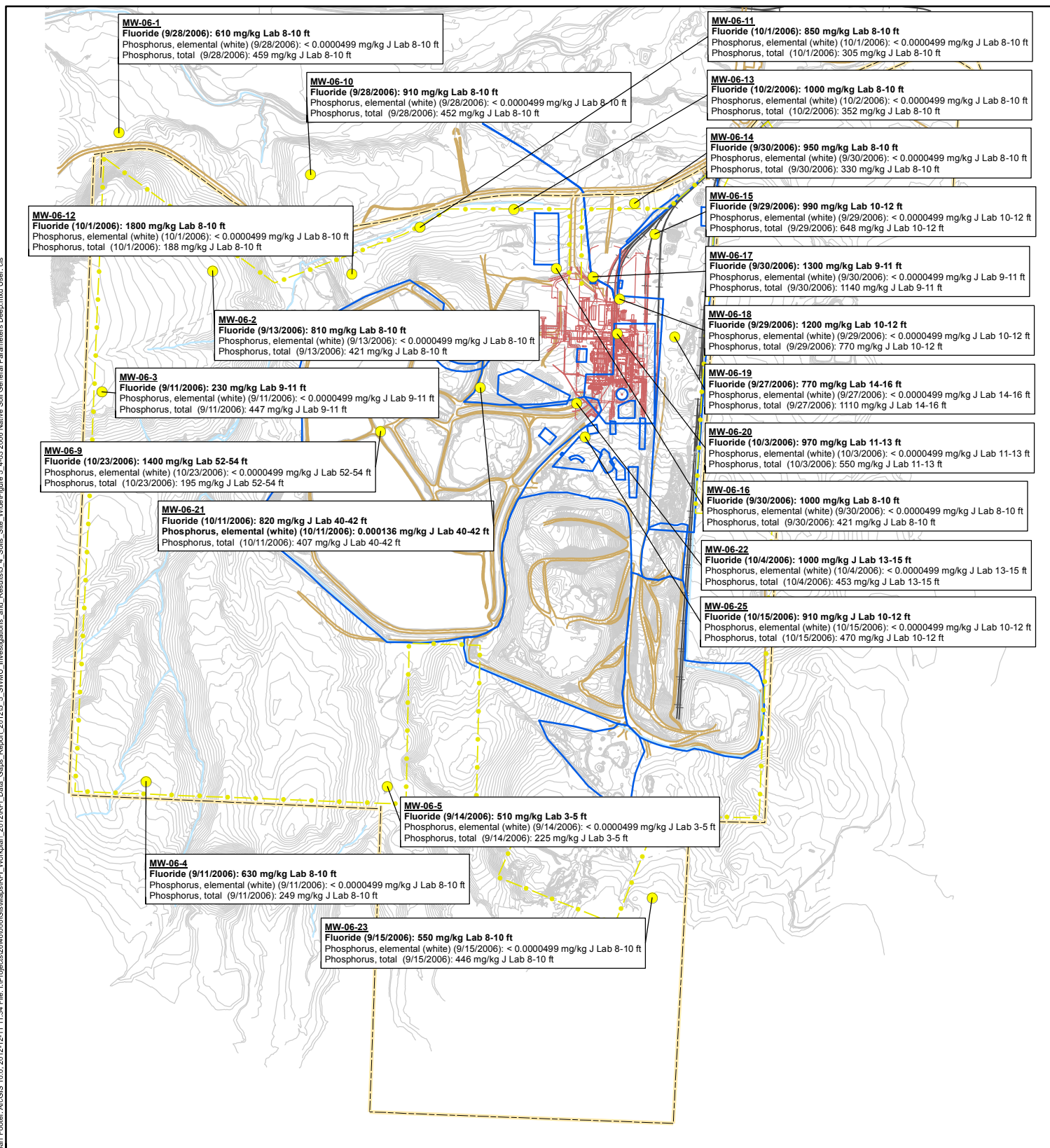
Bold font indicates that sample concentration is greater than the 95% UCL of mean Reference Area Concentration.

2,000 0 2,000



Figure 5.4-2

NATIVE SOIL RESULTS:
GENERAL PARAMETERS,
SHALLOW
Rhodia Silver Bow Plant
Montana

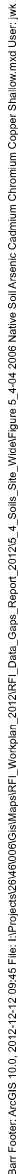


- Sample Location
 - Property Boundary
 - SWMUs
 - Fence Line
 - Elevation Contour
 - Drainage
 - Railroad
 - Road
 - Former Plant Structures
- Bold font indicates that sample concentration is greater than the 95% UCL of mean Reference Area Concentration.**

1,000 Feet 0 1,000

Figure 5.4-3

NATIVE SOIL RESULTS:
GENERAL PARAMETERS,
DEEP
Rhodia Silver Bow Plant
Montana



- Bold** font indicates that sample concentration is greater than the 95% UCL of mean Reference Area Concentration.



NATIVE SOIL RESULTS:
ARSENIC, CADMIUM, CHROMIUM,
AND COPPER, SHALLOW
Rhodia Silver Bow Plant
Montana

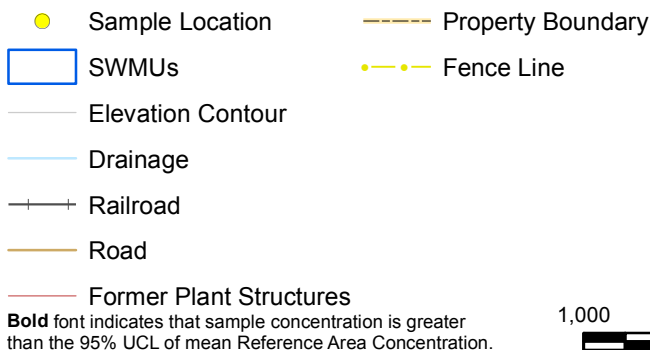
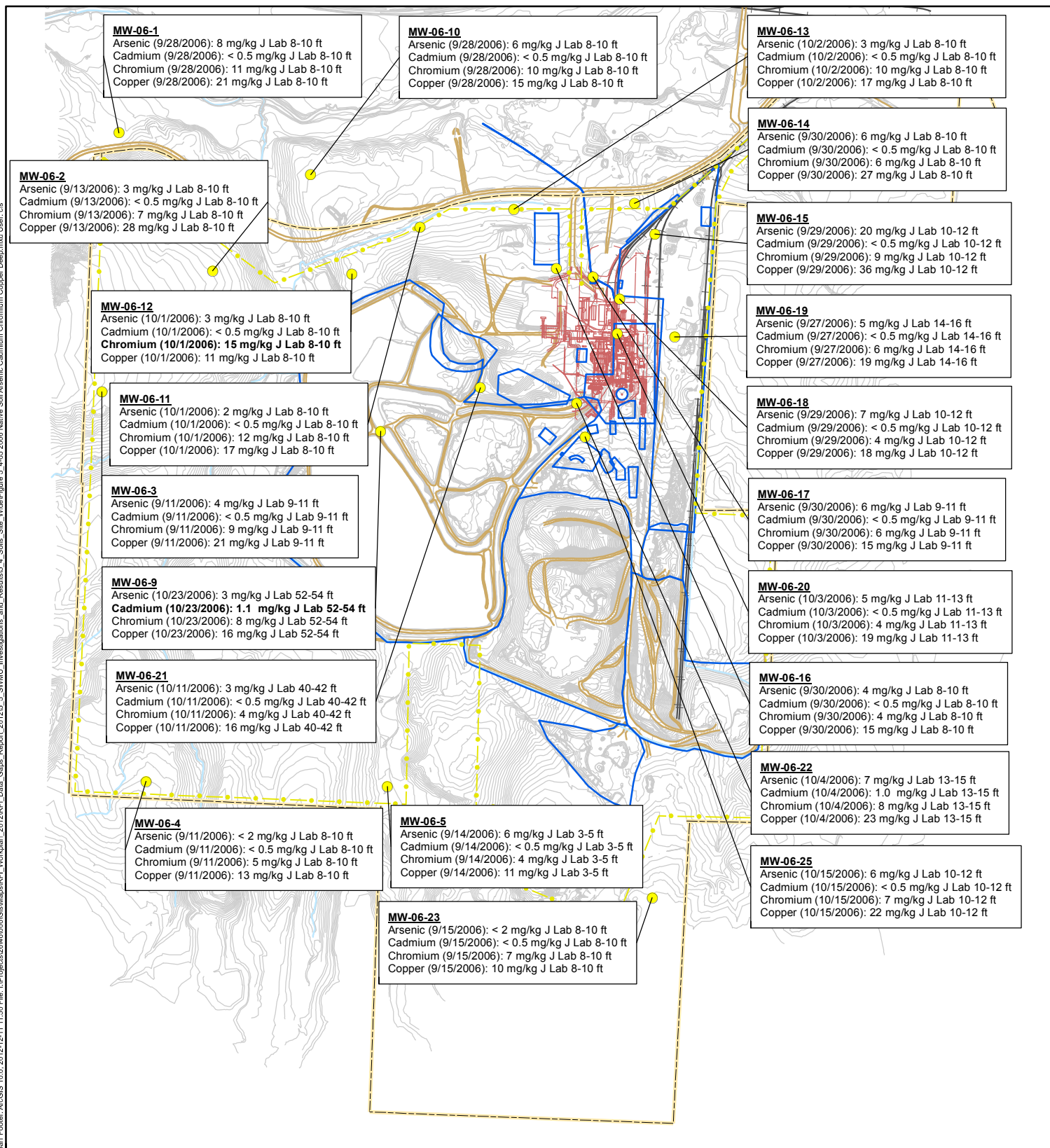
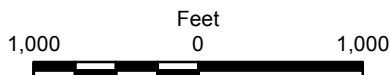
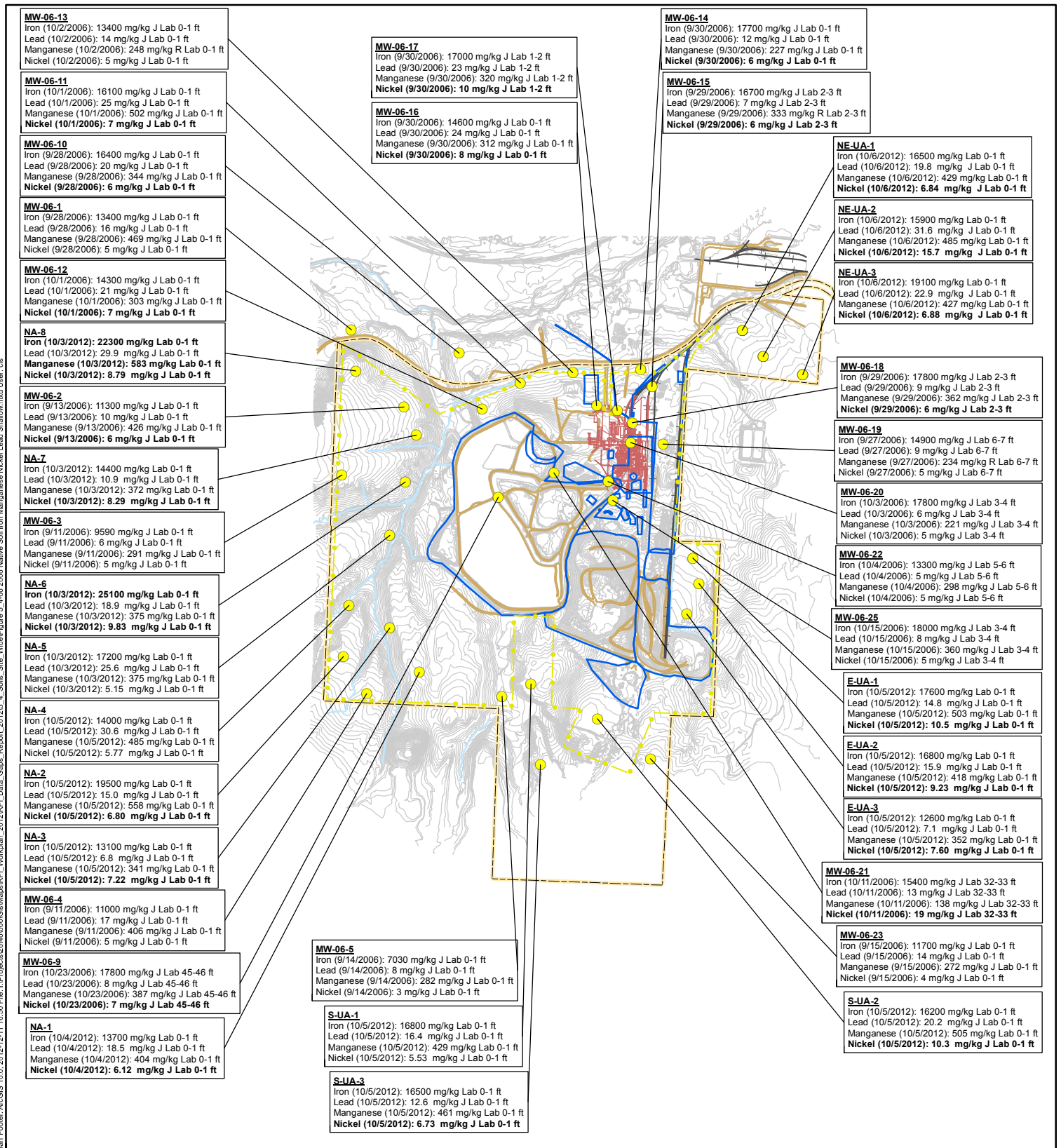


Figure 5.4-5

NATIVE SOIL RESULTS:
ARSENIC, CADMIUM, CHROMIUM,
AND COPPER, DEEP
Rhodia Silver Bow Plant
Montana





- Sample Location
- Property Boundary
- SWMU
- Fence Line
- Elevation Contour
- Drainage
- Railroad
- Road
- Former Plant Structures

Bold font indicates that sample concentration is greater than the 95% UCL of mean Reference Area Concentration.

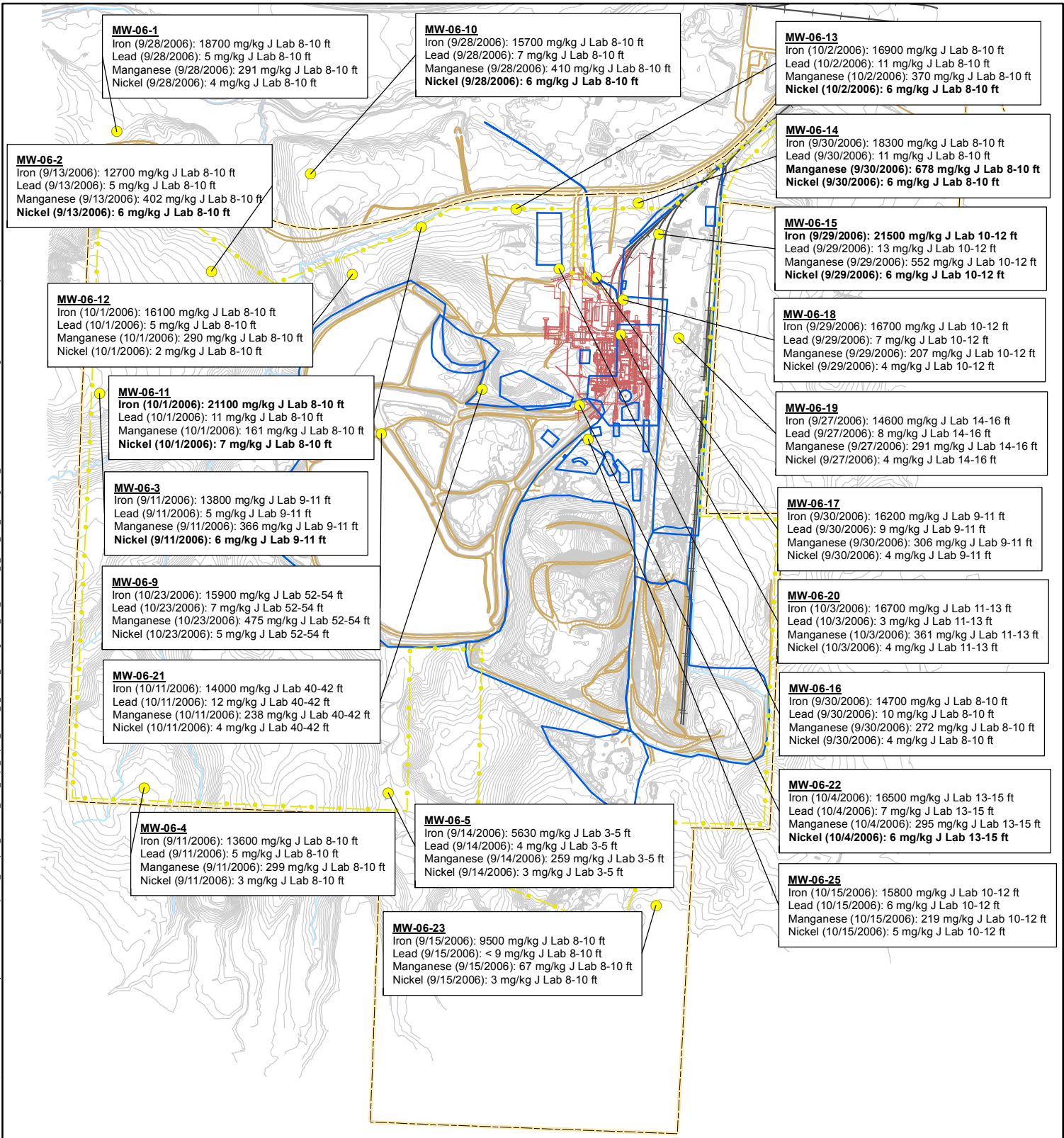
2,000 0 2,000



Figure 5.4-6

NATIVE SOIL RESULTS:
IRON, MANGANESE, NICKEL,
AND LEAD, SHALLOW
Rhodia Silver Bow Plant
Montana

Bar Footer: ArcGIS 10.0, 2012-12-11 11:50 File: I:\Projects\2646\06\GIS\MapSRF1_Worship_2012\Figure 5.4 Native Soil Iron Manganese Nickel Lead Deep.mxd User: ds



- Sample Location
 - Property Boundary
 - SWMUs
 - Fence Line
 - Elevation Contour
 - Drainage
 - Railroad
 - Road
 - Former Plant Structures
- Bold font indicates that sample concentration is greater than the 95% UCL of mean Reference Area Concentration.**

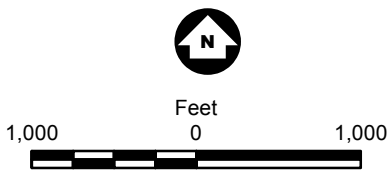
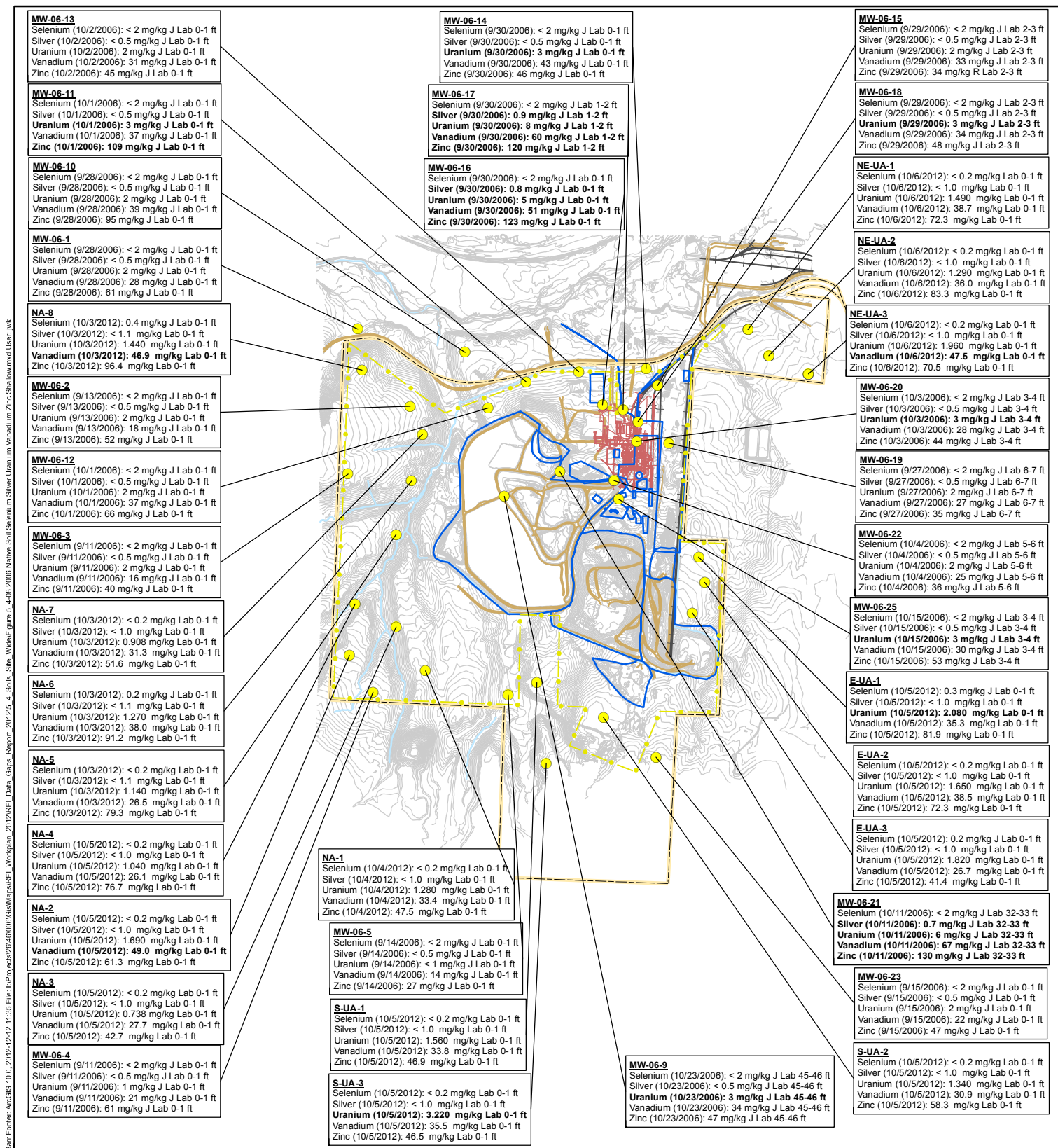


Figure 5.4-7
NATIVE SOIL RESULTS:
IRON, MANGANESE, NICKEL,
AND LEAD, DEEP
Rhodia Silver Bow Plant
Montana



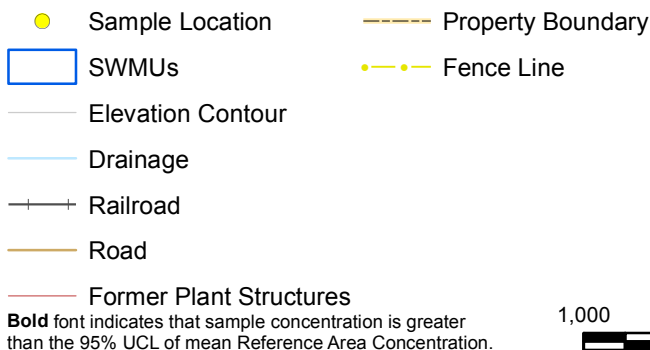
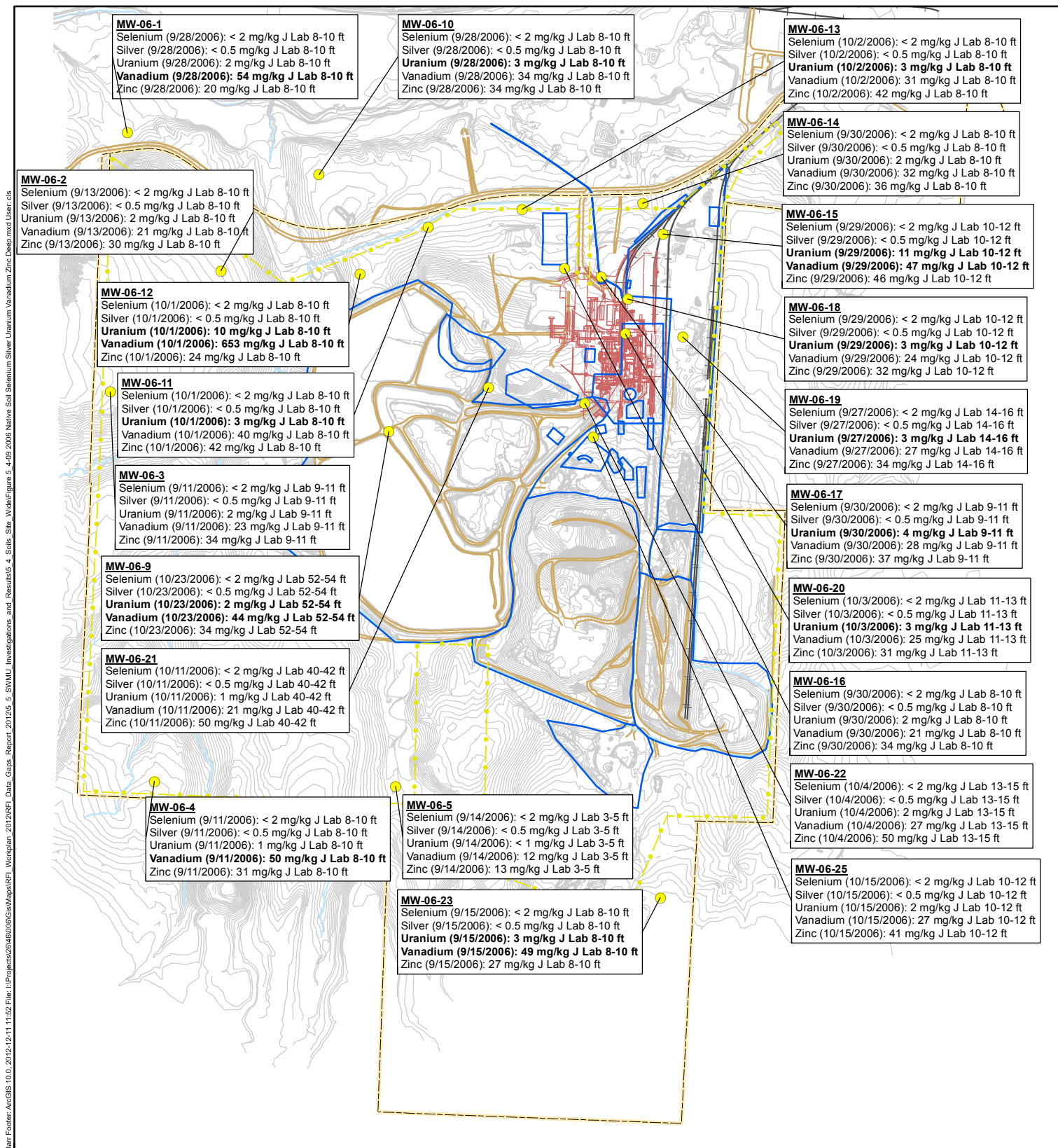
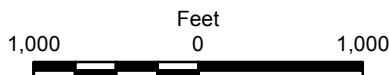
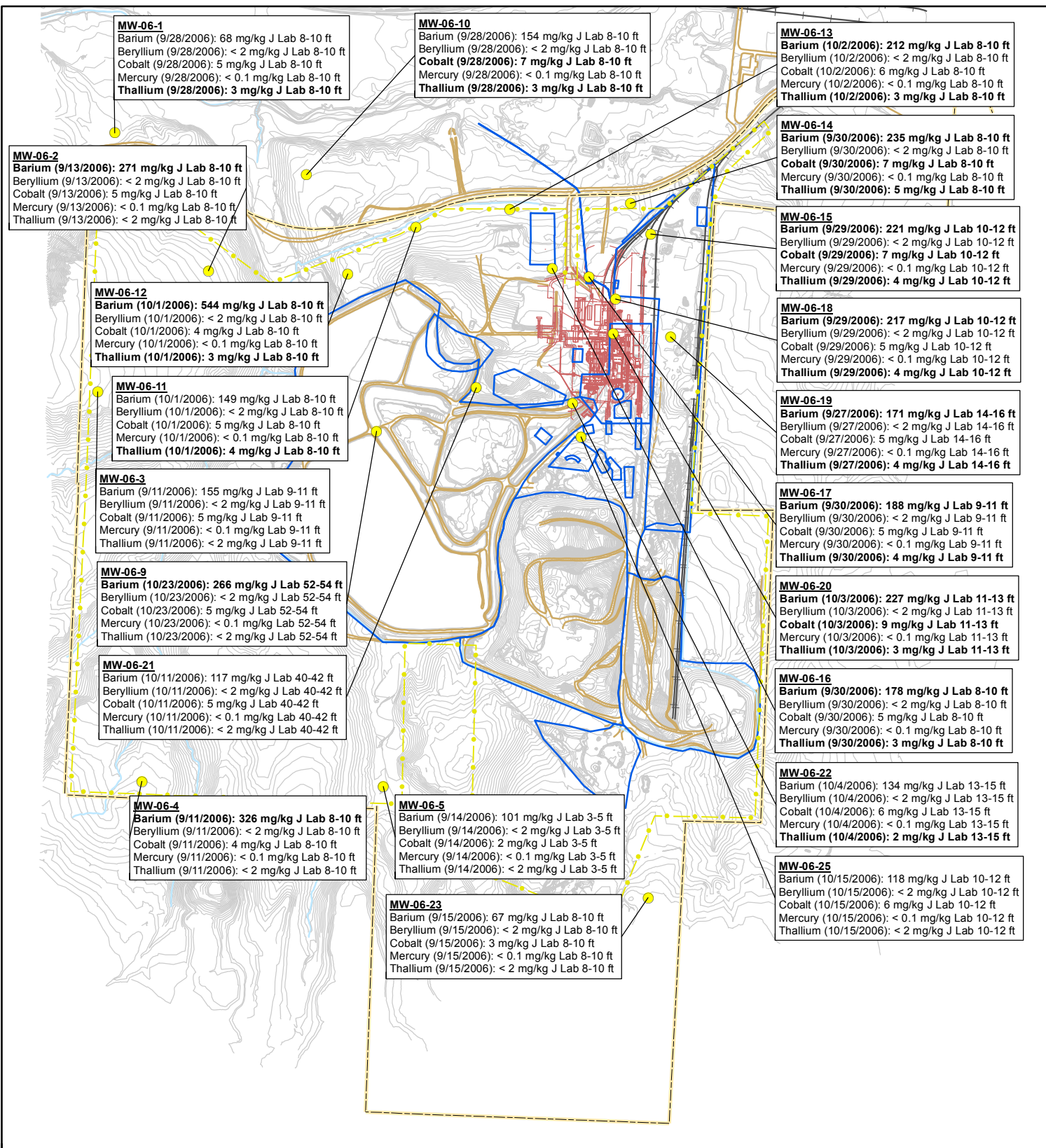


Figure 5.4-9

NATIVE SOIL RESULTS:
SELENIUM, SILVER, URANIUM,
VANADIUM, AND ZINC, DEEP
Rhodia Silver Bow Plant
Montana





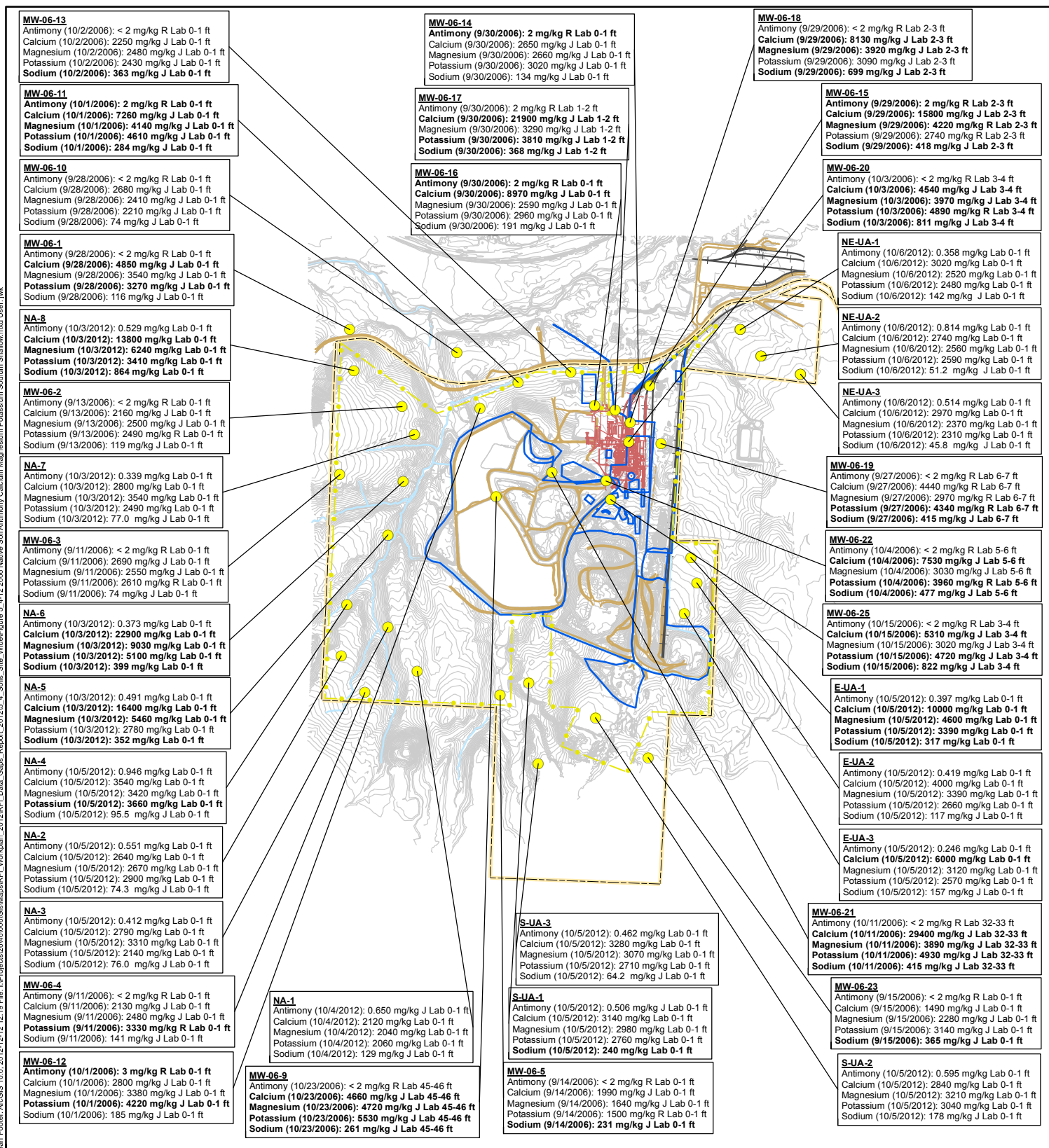
- Sample Location
- Property Boundary
- SWMUs
- Fence Line
- Elevation Contour
- Drainage
- Railroad
- Road
- Former Plant Structures

Bold font indicates that sample concentration is greater than the 95% UCL of mean Reference Area Concentration.

1,000 Feet 0 1,000

Figure 5.4-11

NATIVE SOIL RESULTS:
BARIUM, BERYLLIUM, COBALT,
MERCURY, AND THALLIUM, DEEP
Rhodia Silver Bow Plant
Montana



- Sample Location
- Property Boundary
- SWMU
- Fence Line
- Elevation Contour
- Drainage
- Railroad
- Road
- Former Plant Structures

Bold font indicates that sample concentration is greater than the 95% UCL of mean Reference Area Concentration.

2,000 0 2,000



Figure 5.4-12

NATIVE SOIL RESULTS:
ANTIMONY, CALCIUM, MAGNESIUM,
POTASSIUM, AND SODIUM, SHALLOW
Rhodia Silver Bow Plant
Montana

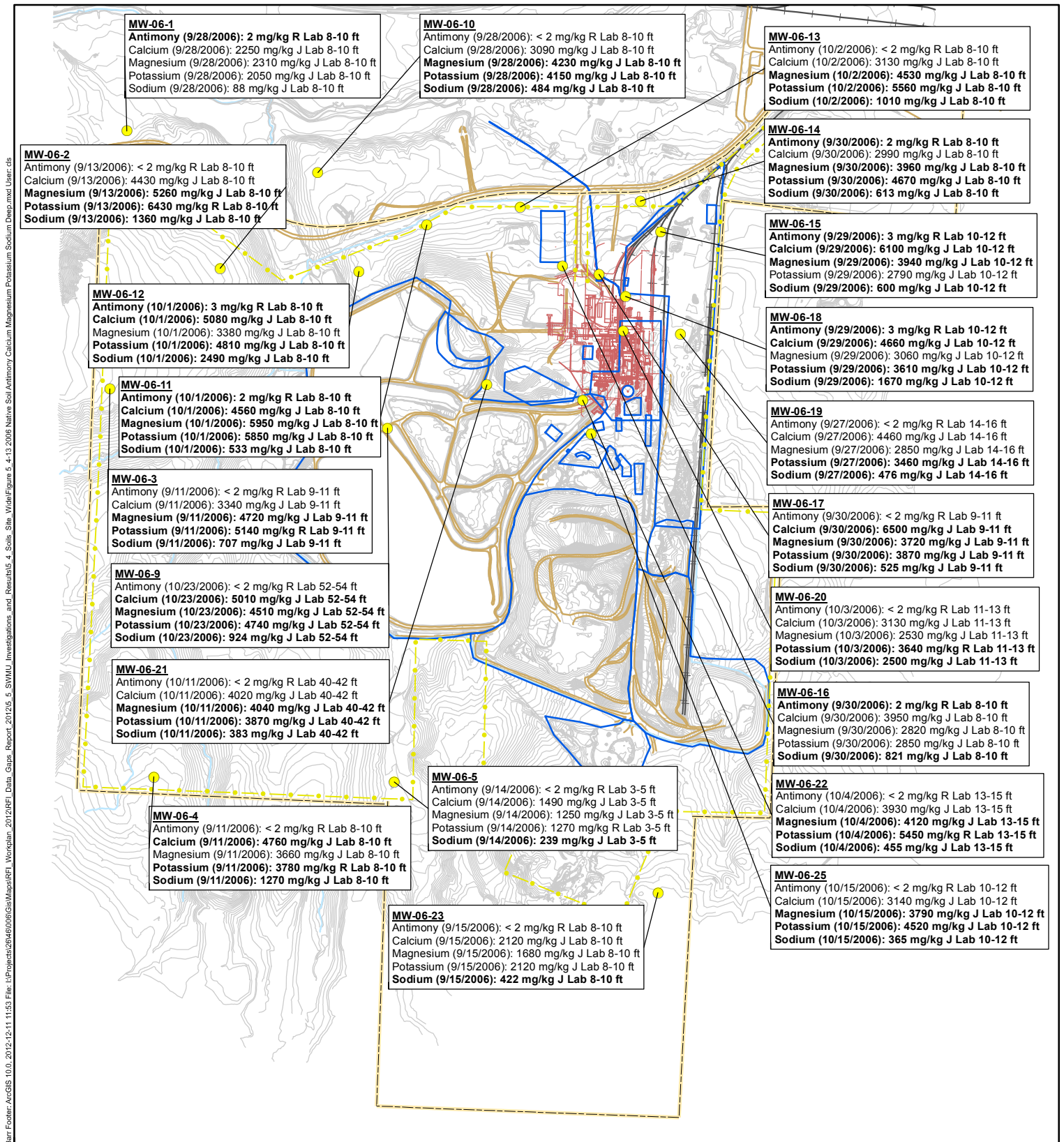


Figure 5.4-13

NATIVE SOIL RESULTS:
ANTIMONY, CALCIUM, MAGNESIUM,
POTASSIUM, AND SODIUM, DEEP
Rhodia Silver Bow Plant
Montana

Bold font indicates that sample concentration is greater than the 95% UCL of mean Reference Area Concentration.

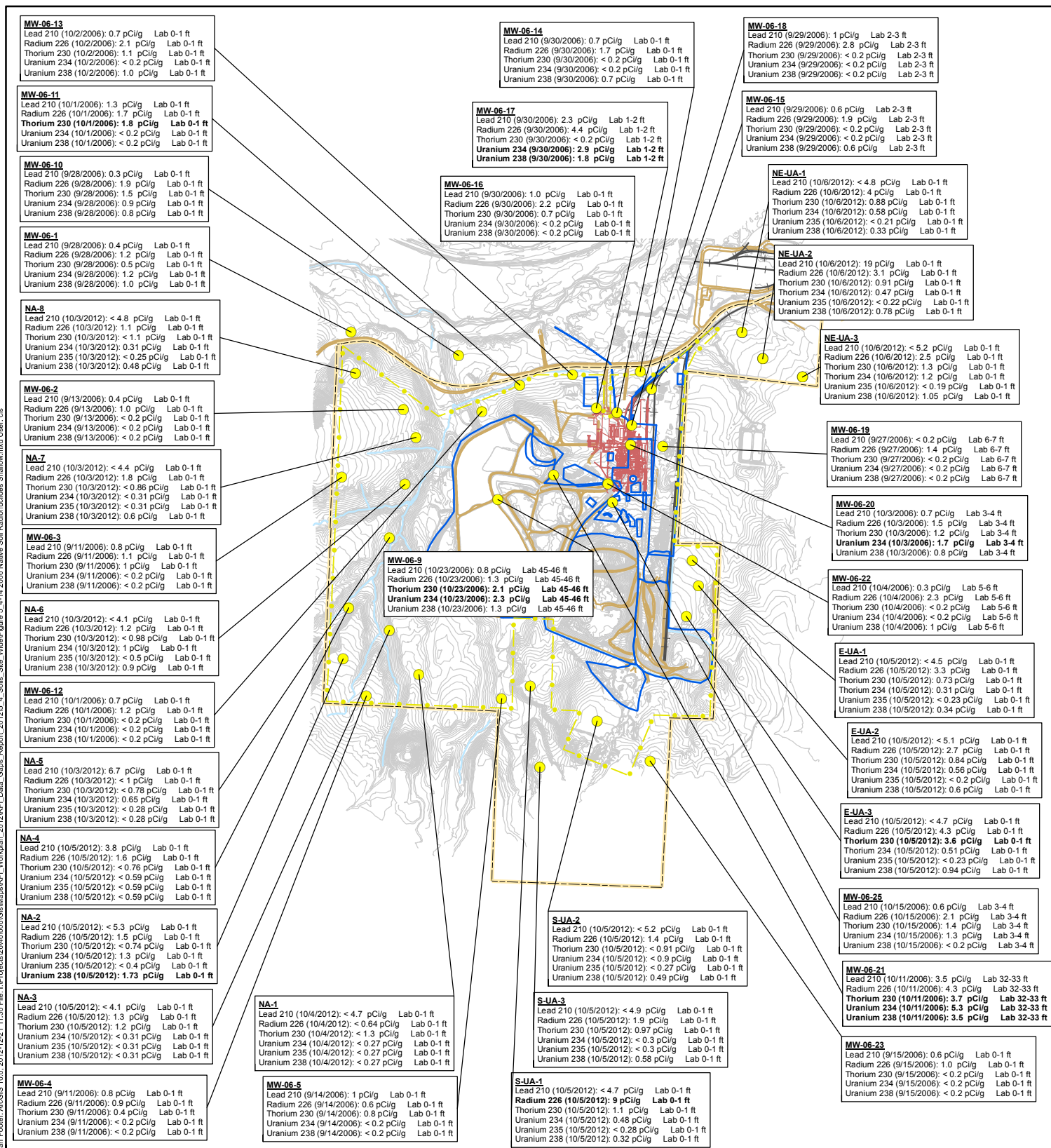
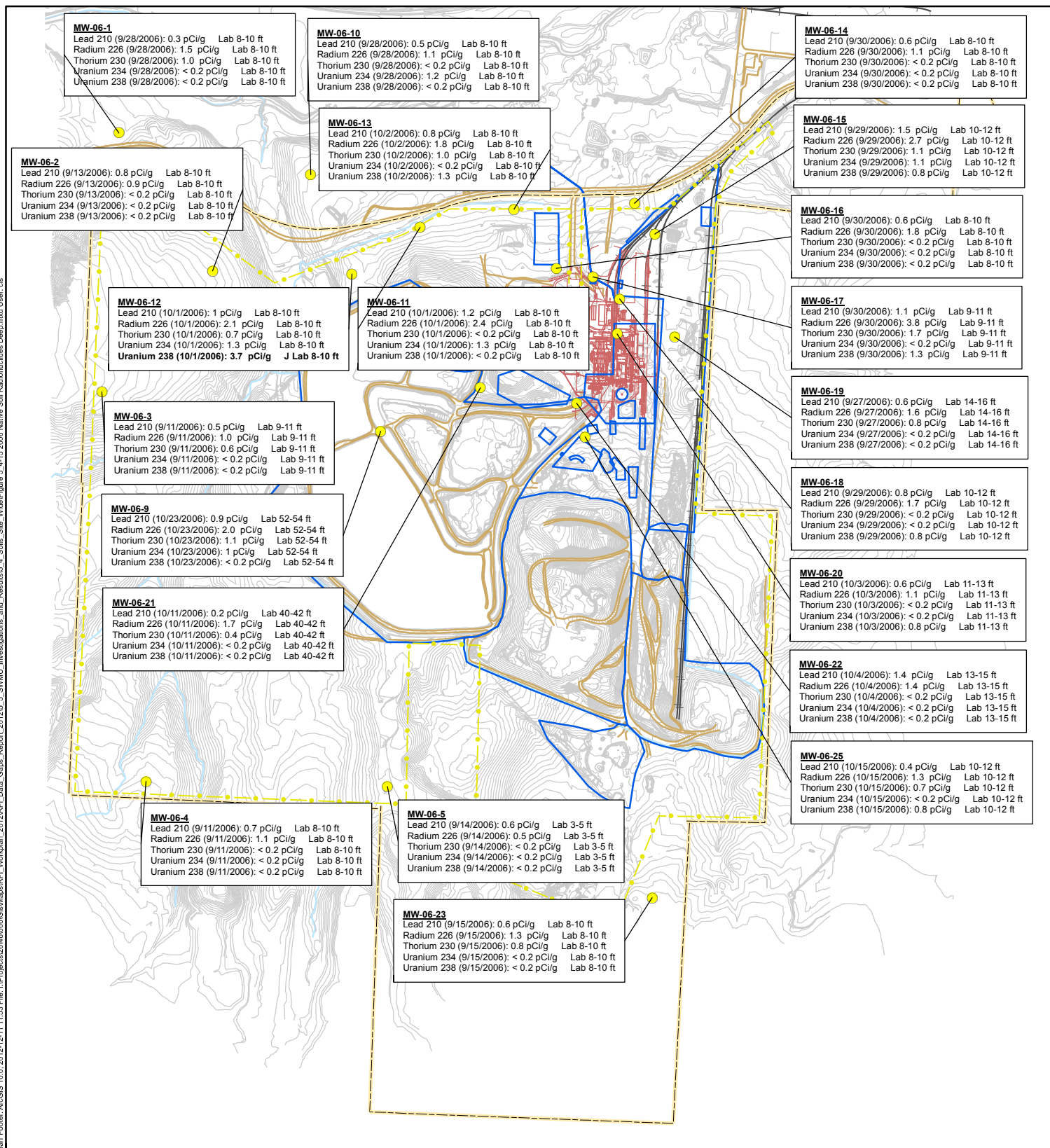


Figure 5.4-14

NATIVE SOIL RESULTS:
RADIONUCLIDES,
SHALLOW
Rhodia Silver Bow Plant
Montana

Bold font indicates that sample concentration is greater than the 95% UCL of mean Reference Area Concentration.



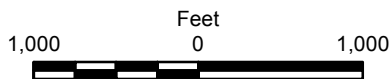


● Sample Location
 SWMUs
 Elevation Contour
 Drainage
 Railroad
 Road
 Former Plant Structures
 Property Boundary
 Fence Line

Bold font indicates that sample concentration is greater than the 95% UCL of mean Reference Area Concentration.

Figure 5.4-15

NATIVE SOIL RESULTS:
 RADIONUCLIDES,
 DEEP
 Rhodia Silver Bow Plant
 Montana



Appendices

Appendix 5.4.2-A

XRF Pilot Test Program (2006)



Barr Engineering Company
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Minneapolis, MN • Hibbing, MN • Duluth, MN • Ann Arbor, MI • Jefferson City, MO

Memorandum

To: Rhodia File
From: Tom Mattison
Subject: XRF Analytical Program
Date: March 16, 2007
Project: 26/46-006 Y07
c: Dan Bersanti, Cam Balentine

This memorandum presents the correlation between the soil data from the XRF and confirmatory samples that were collected at the Silver Bow Plant. The data pairs were evaluated with a least squares linear regression analysis for 8 metals and correlation coefficients of approximately 0.7 or greater were obtained. This memorandum explains our evaluation of the XRF data and correlations, and proposes a program for the use of XRF and laboratory analysis for soil samples going forward. The proposed program is to analyze a large number of soil samples using XRF and send 5% of the samples for confirmatory laboratory analysis. Samples for which XRF analysis shows concentrations exceeding a threshold will also be split for confirmatory analysis. This memorandum explains the selection of the thresholds for each of the 8 metals. These thresholds are expected to result in an additional 5 to 10% of the XRF samples being subject to confirmatory analysis. As a result, approximately 10 to 15% of the soil samples will undergo laboratory analysis to complement the large number of samples that will undergo XRF analysis. The program proposed here allows the full suite of data to be used for site decision-making by producing a large amount of data for the site and at the same time providing high confidence that the most critical data are confirmed by laboratory analysis. The program has the advantage of producing real-time data that will allow decisions to be made in the field on expanding the investigation area or collecting additional samples.

Sample Collection

Surface soil samples were collected from the raw materials area, coke fines area, and coal stockpile area at the Silver Bow Plant. The soil samples were collected from the 0- to 2-inch and 2- to 12-inch depth intervals. Each soil sample was mixed in a stainless steel bowl prior to filling 2 sample containers. One container was sent to the field laboratory and the other was held at the Plant pending selection of analytical samples. One of six field samples were randomly selected and sent to Energy Laboratories for

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metals analysis (EPA Method 6010B, 6020, 7471A) for confirmatory analysis. EPA observed portions of the sample collection and analysis operations.

The field laboratory was set up to analyze the soil samples for metals at the Silver Bow Plant. Niton staff operated the XRF instrument. One hundred forty five (145) soil samples were analyzed in the field laboratory using an XRF field instrument supplied by Niton. The XRF measurements were taken for 60 seconds and were done in X-Ray cups in a test stand. The instrument was calibrated against NIST 2710 both before and after the measurements were taken each day as provided in Niton's Standard Operating Procedure.

Niton transferred the instrument data to a spreadsheet that included the instrument results and the instrument reading error (a $\pm$ value, which is the 2 times the standard deviation of the result value). These readings were provided for each parameter analyzed for each sample. Samples from stations RM-1-1 through RM-5-6 were measured in triplicate, and the average instrument result and the instrument reading error were used.

The results from the field laboratory testing are provided in Table 1. The table shows the concentration, instrument reading and 2 times the standard deviation designated as 2σ .

Barr used the raw data provided in the spreadsheet to calculate the limit of detection (defined as 3 times the standard deviation (σ)) and the practical quantitation limit (PQL) (defined as 10 times the standard deviation) for each element. If the instrument reading was less than the limit of detection, the limit of detection is reported and is qualified with a "U". If the reading was greater than the limit of detection but less than the PQL, the reading was reported as a detected concentration and qualified with a "J" (estimated value). If the instrument reading was greater than the PQL, then the reading was reported as the detected concentration. The results from the field laboratory testing are provided in Table 1.

Confirmatory (i.e., split) samples were analyzed for metals at Energy Laboratories Inc and the analytical data are summarized in Table 2. This confirmatory analytical data along with the XRF data are summarized in Table 3. These paired data were used to evaluate the correlation between the XRF and laboratory data sets.

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Data Distribution and Correlation

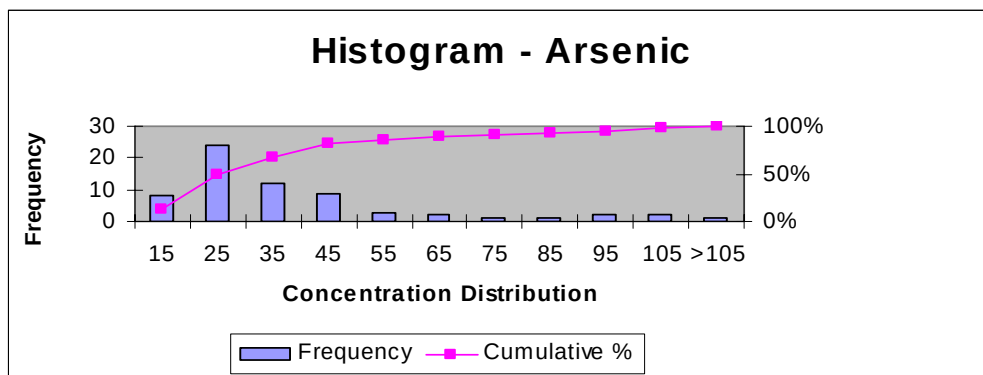
The distribution of the XRF data was evaluated using histograms constructed with 10 intervals across the range of detected values. The correlation between XRF and laboratory data was evaluated with a least squares linear regression analysis. Paired values were plotted on a XY graph and the best fit line was drawn based on the linear regression model. The linear regression only considered paired values that were detected in both data sets.

The correlation coefficient (i.e., R^2) for the linear regression model was calculated. EPA method 6200 recommends that if the correlation coefficient is greater than or equal to 0.7, the XRF data should be considered “screening level” data. If the correlation coefficient is 0.9 or greater and inferential statistics indicate the XRF data and the confirmatory data are statistically equivalent at a 99 percent confidence level, the data could potentially meet definitive level data criteria. (See Section 9.7 of EPA Method 6200).

The distribution, correlation with laboratory data, and likely concentration of interest were used to select a threshold for selecting samples to be sent to the laboratory for confirmatory analysis. The following sections detail the data distribution and correlation for elements that were sufficiently correlated to the laboratory data.

Arsenic

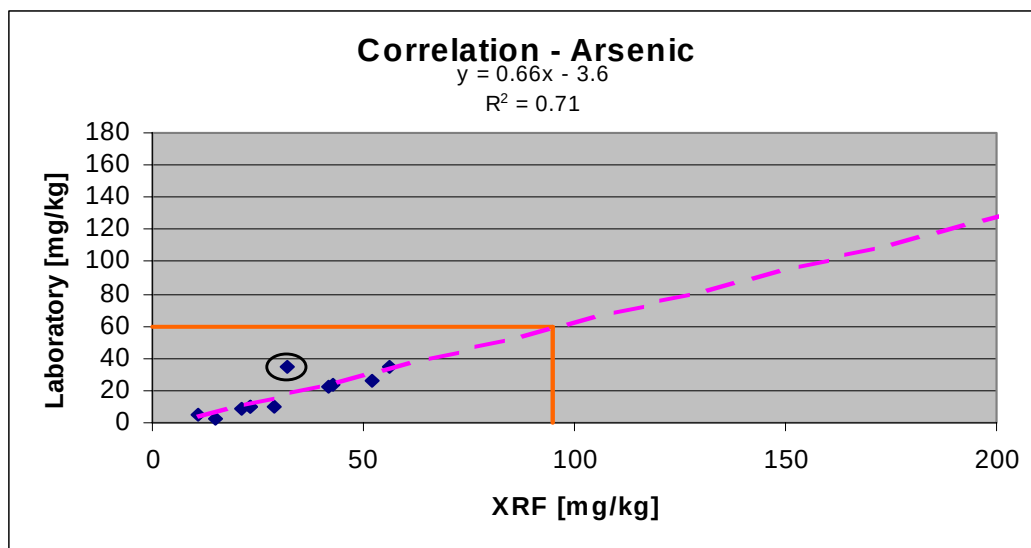
Arsenic was detected in 65 of the 145 soil samples. The XRF concentrations ranged from 10 to 120 mg/kg in the XRF data set and are distributed as shown below.



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The values shown on the horizontal axis represents the right-hand tick mark for each interval. Thus, there are nine samples with XRF concentrations reported between 0 and 15 mg/kg and 25 samples between 15 and 25 mg/kg. The cumulative distribution reaches 95% at about 95 mg/kg.

Least squares linear regression analysis of the paired data set for arsenic provides a correlation coefficient of 0.71. The paired data and linear equation are shown below:



One data point where the XRF concentration was essentially equal to the laboratory concentration significantly changes the correlation coefficient for the paired data set without materially changing the linear equation. If the highlighted data point is removed from the regression analysis, the correlation coefficient increases to 0.95 and the linear equation becomes $y = 0.65x - 5.2$. The raw XRF concentrations provide a conservative value since the instrument overestimates the actual concentration for arsenic in the soil samples.

About 5 % of the arsenic concentrations are above an XRF concentration of 95 mg/kg, which corresponds to a laboratory concentration of about 60 mg/kg. The proposed threshold for arsenic is 95 mg/kg. If the XRF detects an arsenic concentration greater than 95 mg/kg, the sample will be shipped to the laboratory for analysis. The threshold XRF concentration of 95 mg/kg, which corresponds to a laboratory concentration of 60 mg/kg, is below the soil background concentration for arsenic calculated in the CCRA of 71 mg/kg, providing confidence that samples exceeding background will be subject to confirmatory analysis. The threshold is above the Montana action level for arsenic in surface soils of 40

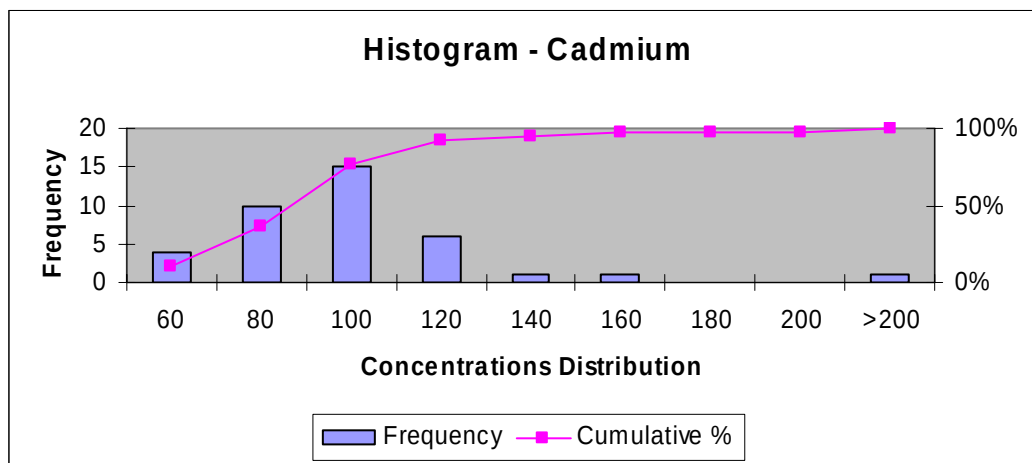
To: Rhodia File
From: Tom Mattison
Subject: XRF Analytical Program
Date: March 16, 2007
Project: 26/46-006 Y07
c: Dan Bersanti, Cam Balentine

mg/kg, but is well below the cleanup levels specified for arsenic at Superfund sites in the region (for example, SSTOU: approximately 200 mg/kg along Silver Bow Creek and 2,000 mg/kg (recreational exposure) along railroad beds; and Clark Fork River OU at 150 mg/kg for residential, 620 mg/kg for rancher/farmer exposures, and 680 mg/kg for children at Arrowstone Park and other similar recreational scenarios). The proposed sampling program will provide definitive laboratory data for samples with arsenic likely to exceed background concentrations.

As described at the end of this memorandum, a selection of samples with XRF readings above 95 mg/kg will be resampled for confirmation. In addition, the soil sample that exhibited the anomalous data pair in the correlation will be resampled and analyzed by XRF and at the laboratory.

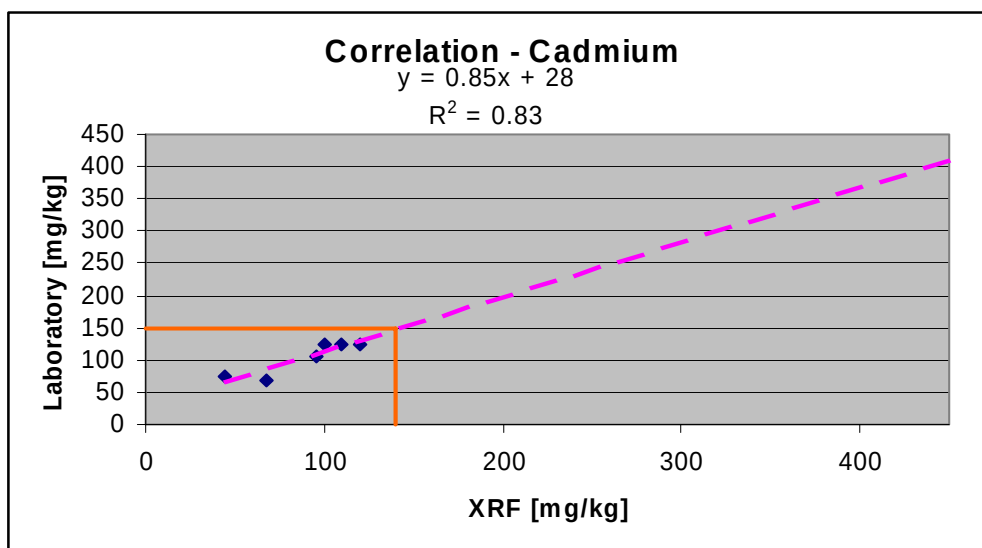
Cadmium

Cadmium was detected in 38 of the 145 soil samples. The XRF concentrations ranged from 44 to 410 mg/kg in the XRF Data set with all but one sample below 200 mg/kg. The sample at the maximum end of the range depicted in the histogram is 410 mg/kg.



Least squares linear regression analysis of the paired data set for cadmium provides a correlation coefficient of 0.83. The paired data and linear equation are shown below:

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Project: 26/46-006 Y07
c: Dan Bersanti, Cam Balentine

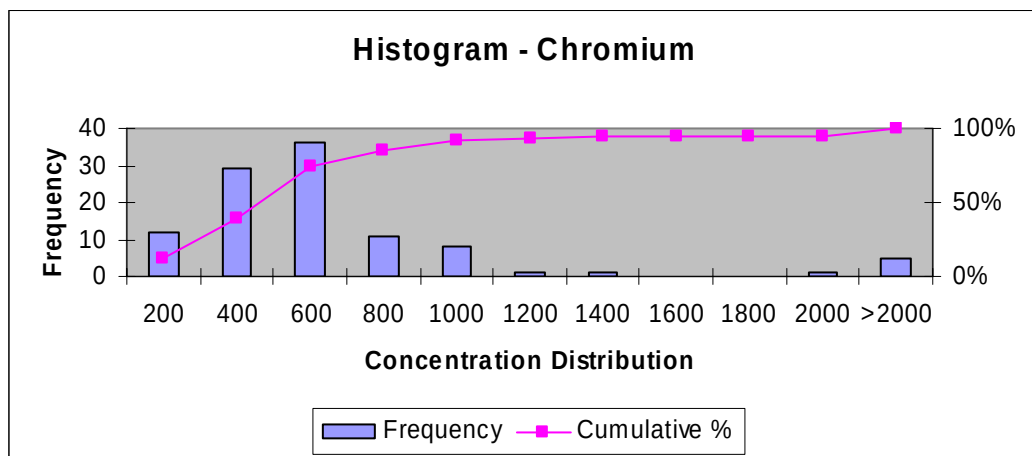


About 5% of the cadmium concentrations are above an XRF concentration of 140 mg/Kg which corresponds to a laboratory concentration of about 150 mg/kg. The proposed threshold for cadmium is 140 mg/kg. If the XRF detects a cadmium concentration greater than 140 mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Region 9 PRG) of 450 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples if cadmium concentrations approach the generic risk-based screening level.

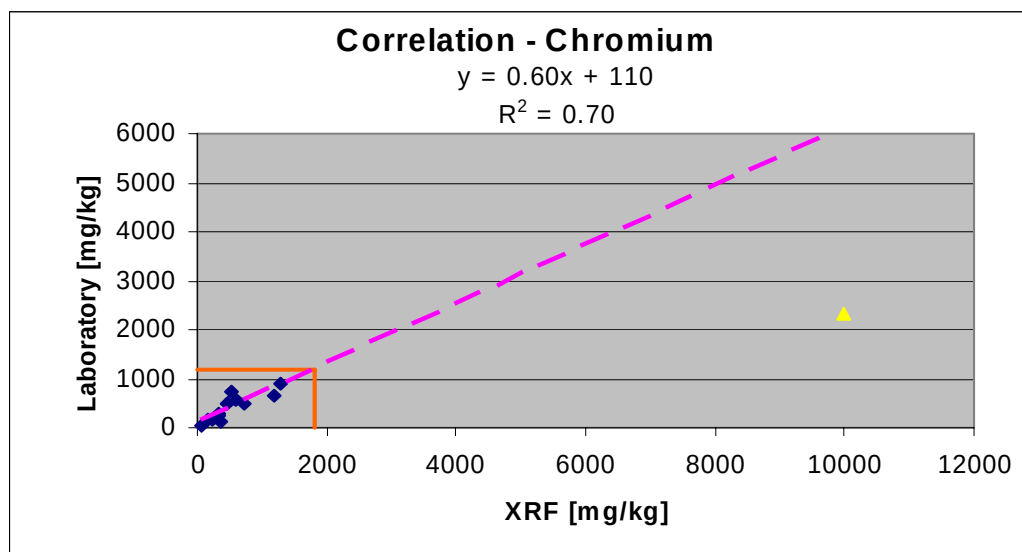
Chromium

Chromium was detected 104 of the 145 soil samples. The XRF concentrations range between 79 and 14,000 mg/kg in the XRF Data set and are distributed as shown below. The samples that exceeded 2,000 mg/kg were at 2,200 mg/kg, 2,800mg/kg, 10,000 mg/kg, 11,000 mg/kg and 14,000 mg/kg.

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Least squares linear regression analysis of the paired data set for chromium provides a correlation coefficient of 0.70 if the one anomalous data pair, shown as a yellow triangle, is removed from the regression analysis. Although inclusion of this anomalous data pair significantly improves the correlation coefficient (i.e., $R^2 = 0.88$), the corresponding linear equation does not fit the lower concentration range of the data set. The paired data and linear equation are shown below:



About 5% of the chromium concentrations are above an XRF concentration of 1,800 mg/kg, which corresponds to a laboratory concentration of about 1,200 mg/kg. The proposed threshold for chromium is 1,800 mg/kg. If the XRF detects a chromium concentration greater than 1,800 mg/kg, the sample will be shipped to the laboratory for analysis.

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The EPA Region 9 Preliminary Remediation Goals (PRGs) provide a risk-based concentration for chromium based on the valence state of the element and an assumed ratio as summarized below:

Valence State	EPA Region 9 PRG (Risk-based) [mg/Kg]
Chromium VI ⁺⁺⁺	64
Total Chromium (1:6 ratio Cr VI: Cr III) ⁺⁺⁺	450
Chromium III	1,500,000 ¹

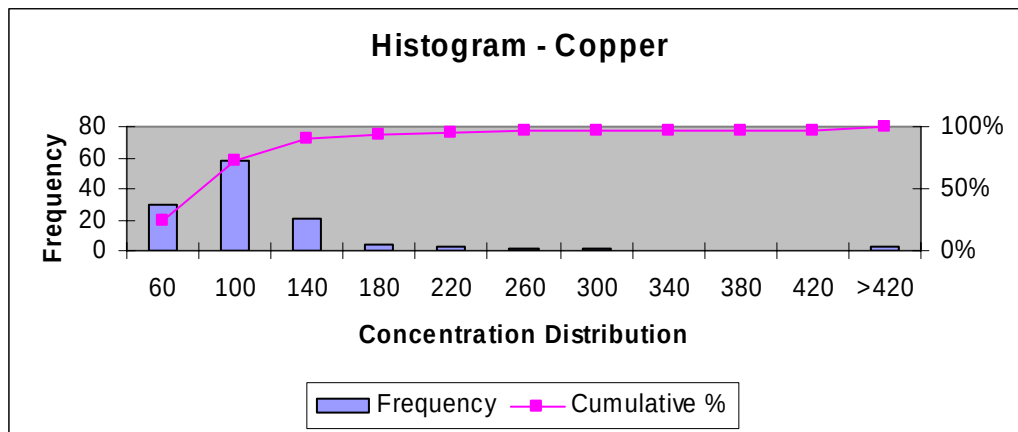
⁺⁺⁺ Non-Standard Method Applied

¹ Concentration that represents a hazard quotient of 1. Note this concentration is greater than 100% chromium.

Chromium in the surface and near-surface soils is expected to be present as chromium III. Due to the significant difference in toxicity of chromium VI and chromium III and the nonstandard method applied by EPA Region 9, Rhodia will include chromium IV analysis for the samples that are identified for total chromium analysis. The concentration of chromium III will be the difference between total chromium and chromium VI. The Phase 1 RFI Report will evaluate the importance of chromium data related to a future risk assessment.

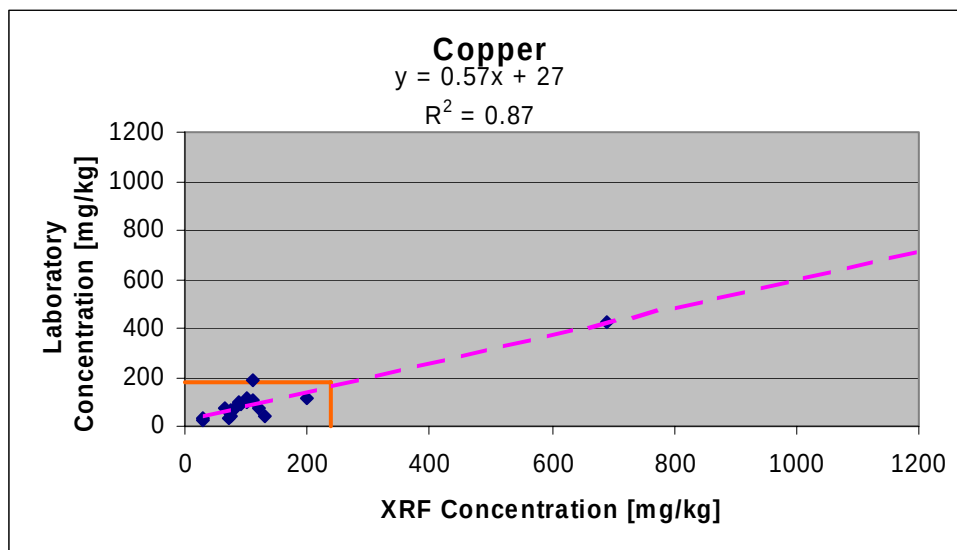
Copper

Copper was detected in 121 of the 145 samples. The XRF concentrations range between 18 and 870 mg/kg in the XRF data set and are distributed as shown below. The samples that exceeded 420 mg/kg were at 690 mg/kg, 750 mg/kg and 870 mg/kg.



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Least squares linear regression analysis of the paired data set for copper provides a correlation coefficient of 0.87. The paired data and linear equation are shown below:

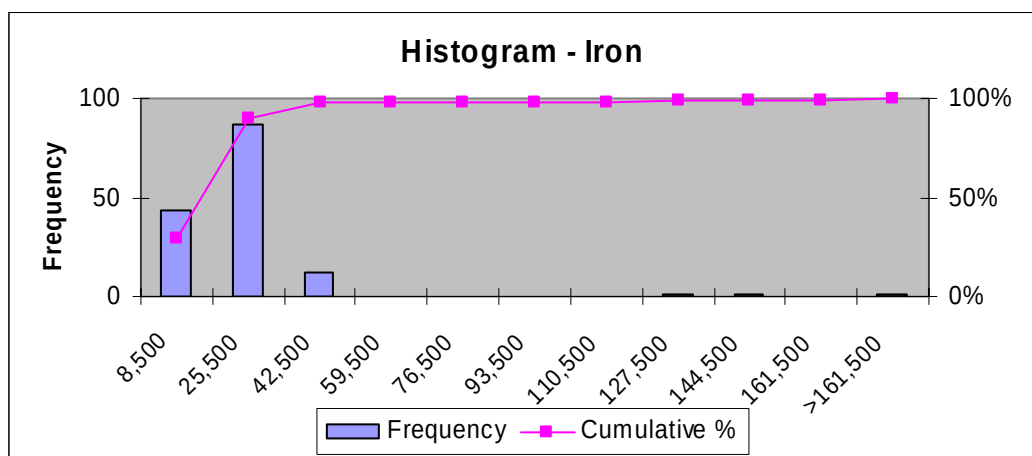


About 5% of the copper concentrations are above an XRF concentration of 240 mg/kg which corresponds to a laboratory concentration of 180 mg/kg. The proposed threshold for copper is 240 mg/kg. If the XRF detects a copper concentration greater than 180 mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Region 9 PRG) of 41,000 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples for copper concentrations far below the generic risk-based screening level.

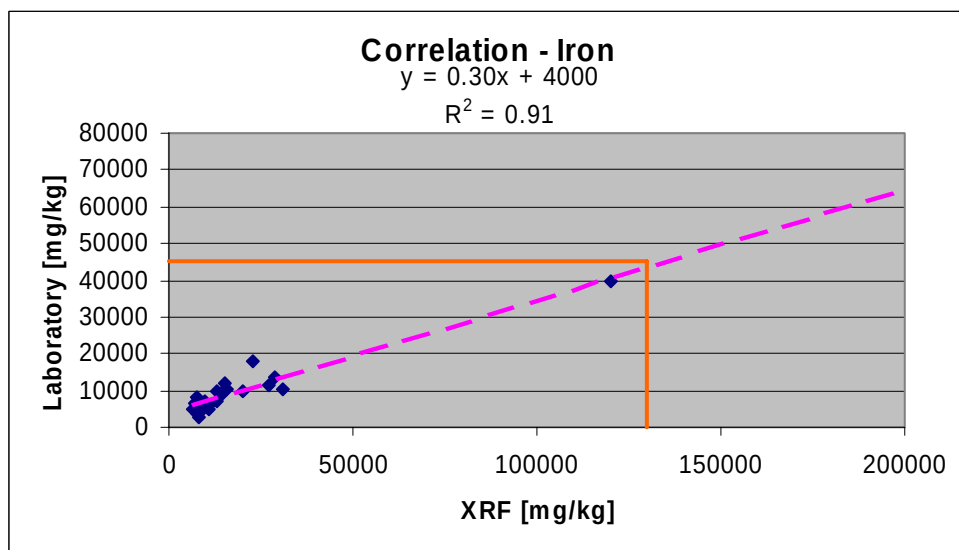
Iron

Iron was detected in all 145 samples. The XRF concentrations range between 490 and 170,000 mg/kg in the XRF data set and are distributed as shown below.

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Least squares linear regression analysis of the paired data set for iron provides a correlation coefficient of 0.91. The paired data and linear equation are shown below:

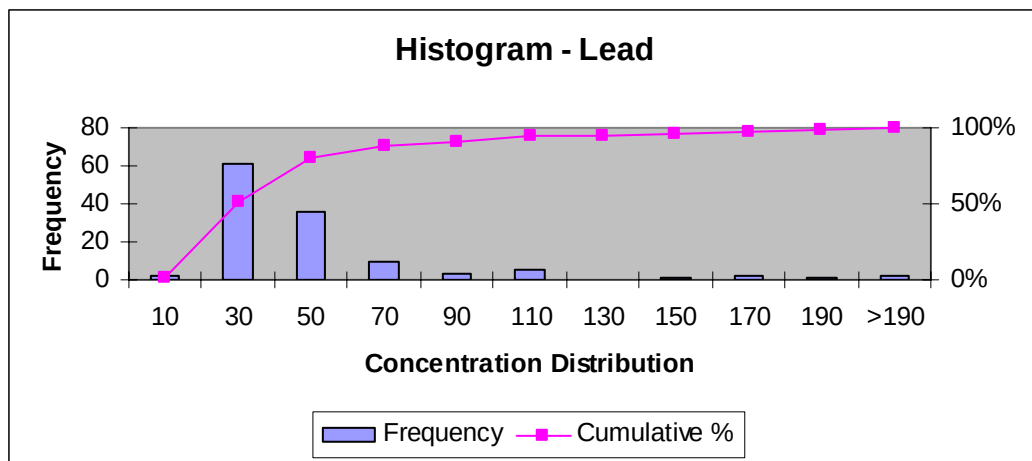


The correlation coefficient (i.e., greater than 0.90) provides sufficient confidence to raise the distribution threshold to the 99% level rather than the 95% level. About 1% of the iron concentrations are above an XRF concentration of 130,000 mg/kg which corresponds to a laboratory concentration of about 45,000 mg/kg. If the XRF detects an iron concentration greater than 130,000 mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Region 9 PRG) of 310,000 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples for iron concentrations far below the generic risk-based screening level.

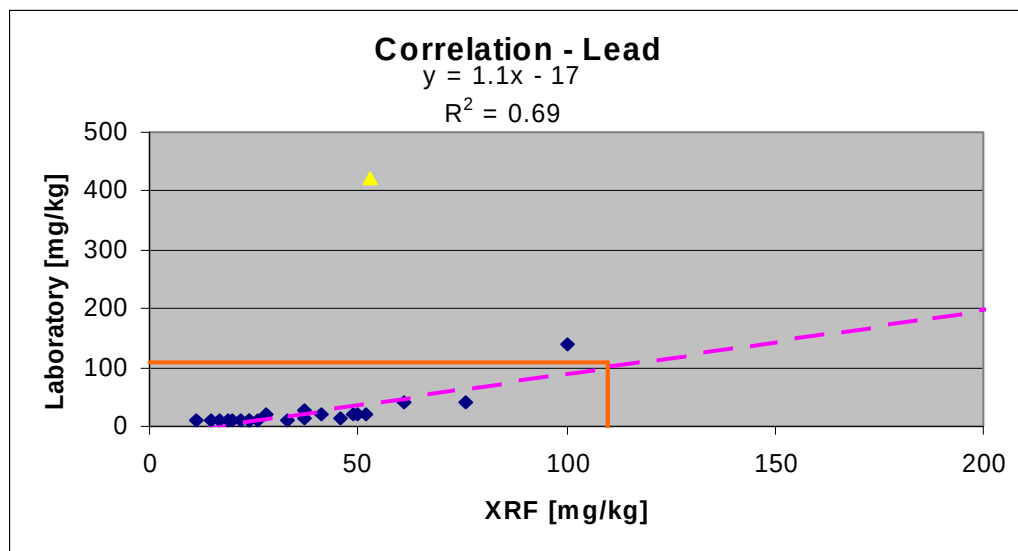
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Lead

Lead was detected in 123 of 145 samples. The XRF concentrations range between 8 and 230 mg/kg in the XRF data set and are distributed as shown below.



Least squares linear regression analysis of the paired data set for lead provides a correlation coefficient of 0.69 if the one anomalous data pair, shown as a yellow triangle, is removed from the regression analysis. If the anomalous data pair is included, the correlation coefficient drops to 0.16 mg/kg. The paired data and linear equation are shown below:



About 5% of the lead concentrations are above an XRF concentration of 110 mg/kg, which corresponds to a laboratory concentration of about 110 mg/kg. If the XRF detects a lead concentration greater than 110

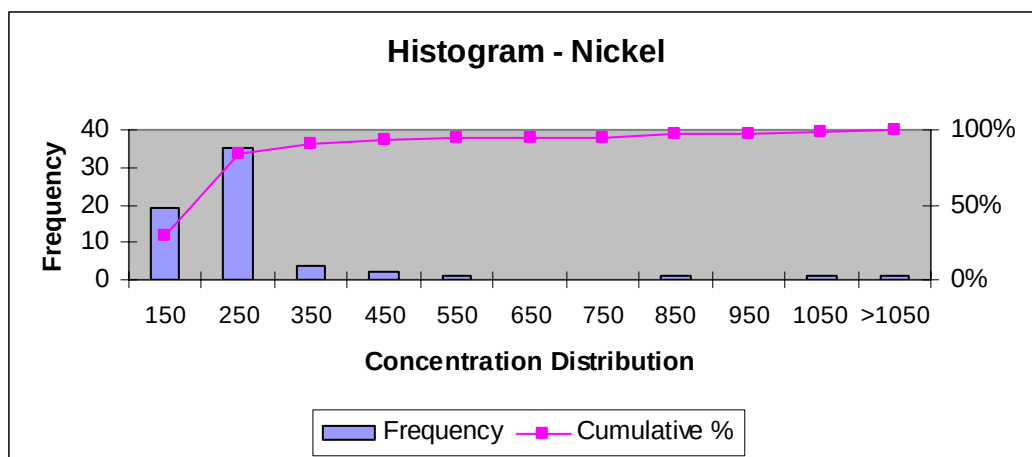
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mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Region 9 PRG) of 800 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples for lead concentrations far below the generic risk-based screening level.

In addition, the soil sample that exhibited the anomalous data pair will be resampled and analyzed by XRF and at the laboratory. The data distribution and correlation for lead will be reevaluated in the Phase 1 RFI report.

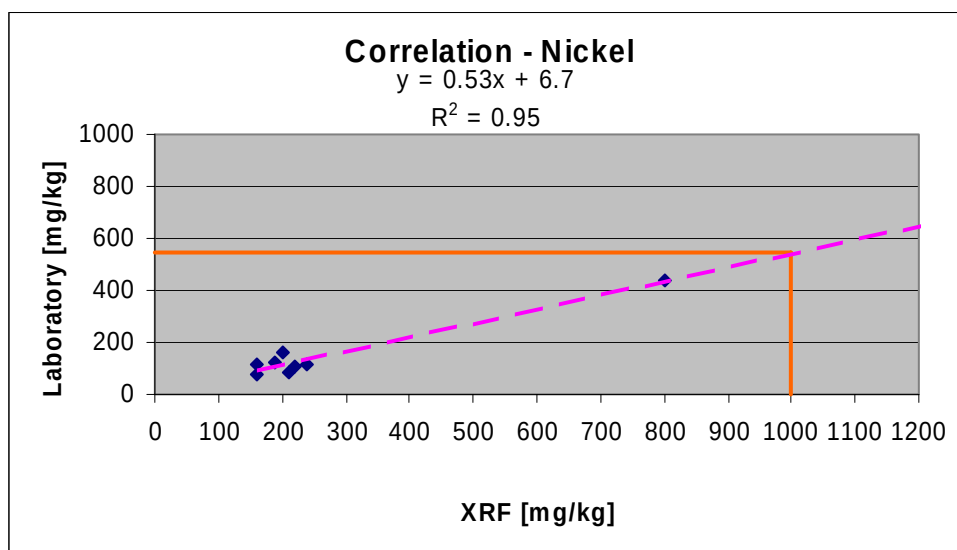
Nickel

Nickel was detected in all 145 samples. The XRF concentrations range between 100 and 1,100 mg/kg in the XRF data set and are distributed as shown below.



Least squares linear regression analysis of the paired data set for iron provides a correlation coefficient of 0.95. The paired data and linear equation are shown below:

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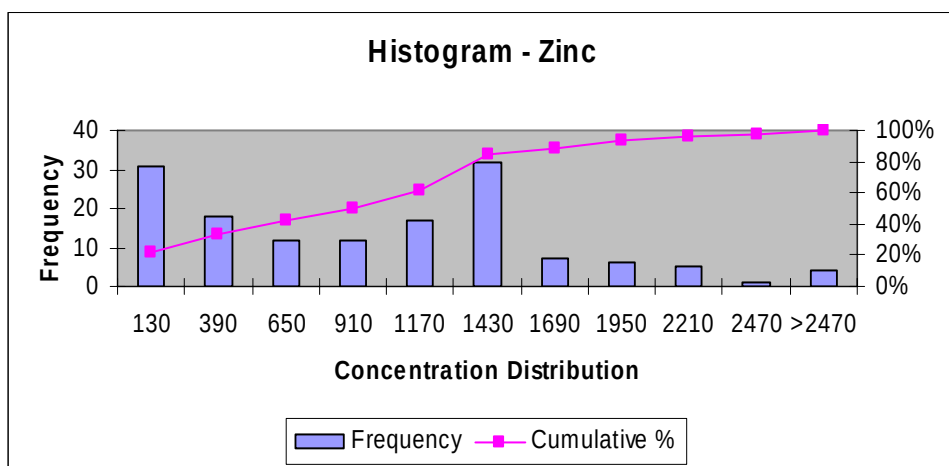


The correlation coefficient (i.e., greater than 0.90) provides sufficient confidence to raise the distribution threshold to the 99% level. About 1% of the nickel concentrations are above an XRF concentration of 1,000 mg/kg, which corresponds to a laboratory concentration of about 550 mg/kg. If the XRF detects a nickel concentration greater than 550 mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Region 9 PRG) of 20,000 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples for nickel concentrations well below the generic risk-based screening level.

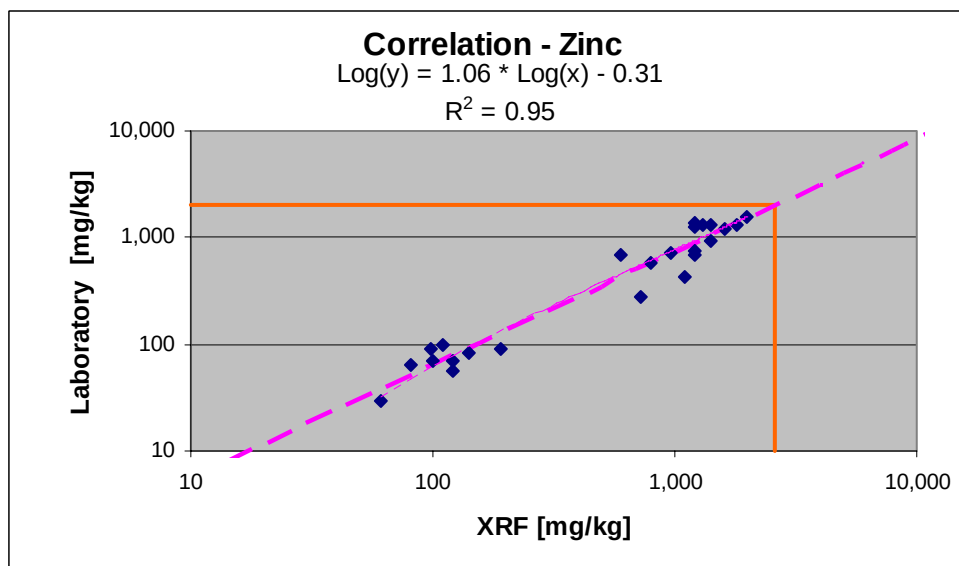
Zinc

Zinc was detected in all 145 samples. The XRF concentrations range between 29 and 2,700 mg/kg in the XRF data set and are distributed as shown below.

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Since the range of detected values for the zinc covers two orders of magnitude, the paired data set was log-transformed. Least squares linear regression analysis of the log-transformed paired data set for zinc provides a correlation coefficient of 0.95. The paired data and linear equation are shown below:



The correlation coefficient (i.e., greater than 0.90) provides sufficient confidence to raise the distribution threshold to the 99% level rather than the 95% level.. About 1% of the zinc concentrations are above an XRF concentration of 2,600 mg/kg, which corresponds to a laboratory concentration of about 2,000 mg/kg. If the XRF detects a zinc concentration greater than 2,600 mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Region 9 PRG) of 310,000 mg/kg. The proposed sampling and analysis

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program will provide definitive laboratory data for samples for zinc concentrations well below the generic risk-based screening level.

Other Elements

Niton provided XRF data for other elements, as seen in Table 1. These elements were either not detected in a sufficient number of samples; the paired data sets did not correlate very well; or the detected concentrations were several orders of magnitude below generic risk-based screening levels as summarized below.

Element	XRF Data Set		Confirmatory Data Set		Conclusion
	Detected	Not Detected	Detected	Not Detected	
Antimony	2	143			Not sufficiently detected by XRF
Tin	4	141			Not sufficiently detected by XRF
Silver	53	92	5	19	Not sufficiently detected by lab
Strontium	145	0			Not included in confirmatory analysis
Rubidium	145	0			Not included in confirmatory analysis
Gold	3	142			Not sufficiently detected by XRF. Not included in confirmatory analysis
Platinum	43	102			Not included in confirmatory analysis
Mercury	2	143	13	11	Not sufficiently detected by XRF
Cobalt	0	145	13	11	Not sufficiently detected by XRF
Manganese	66	79	24	0	Not sufficiently correlated to lab data. Maximum concentration below generic risk-based screening level.

XRF Analytical Program

The XRF pilot program demonstrated that XRF is a useful tool to provide reliable, real-time metals data during investigation activities at the Silver Bow Plant. A large number of samples can be evaluated using the XRF and the proposed program of confirmatory samples will provide confidence that the critical data are confirmed by laboratory analysis. The XRF analytical program will provide a large and reliable data set to support corrective measures decisions. As compared with laboratory-only analysis, this XRF program can evaluate enough samples to provide good representation of the soil quality and distribution (in 3 dimensions) of metals of interest. The large number of XRF analyses increases the overall reliability

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of the data set for making corrective measures decisions. The real-time XRF results will allow decisions to be made in the field on expanding the investigation area or collecting additional samples.

An XRF instrument will be used on future investigation activities to evaluate the concentration of metals in soil samples. At a minimum, confirmatory samples will be analyzed at the laboratory at a rate of one per twenty (5%) samples analyzed by XRF. In addition, spilt samples will be analyzed at the laboratory if the XRF reports a concentration greater than the threshold concentrations described above and summarized below:

Element	XRF Concentration Threshold [mg/kg]	Correlation Coefficient	Linear Equation	XRF-Reported Concentration Range [mg/kg]
Arsenic	95	0.71	$y = 0.66x - 3.6$	10 to 120
Cadmium	140	0.83	$y = 0.85x + 28$	44 to 410
Chromium	1,800	0.70	$y = 0.60x + 110$	79 to 14,000
Copper	240	0.87	$y = 0.57x + 27$	18 to 870
Iron	130,000	0.91	$y = 0.30x + 4000$	490 to 170,000
Lead	110	0.69	$y = 1.1x - 17$	8 to 230
Nickel	1,000	0.95	$y = 0.53 + 6.7$	100 to 1,100
Zinc	2,600	0.95	$y = 10^{(1.06 \text{ Log}(x) - 16)}$	29 to 2,700

The current data set is sufficient to provide confidence in the use of XRF analysis and to indicate the range of samples most important to confirm with laboratory analysis. As such, Rhodia has identified follow-up investigation activities to provide additional confirmatory data for stations near the upper end of detected concentrations based on the distribution of the XRF data set and the correlation from the least squares linear regression analysis.

Additional soil samples will be collected from the locations that exhibited XRF concentrations greater than the threshold limit(s) identified above, and will be analyzed for the respective parameter(s).

Wherever chromium is identified for analysis by the XRF, the sample will also be analyzed for chromium VI to aid in accurate risk evaluation for this constituent.

Vanadium was reported at higher concentrations in confirmatory samples collected in the Raw Materials Area than the other surface soil analyzed during the fall 2006 field work. The maximum concentration

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was more than 2 times the EPA Region 9 PRG for industrial soil. High concentrations of vanadium interfere with the quantitation of chromium (see Section 4.6, EPA Method 6200). Therefore, Rhodia will analyze the soil samples collected in the follow-up sampling program at the Raw Materials Area for vanadium.

The follow-up sampling program is summarized below:

Station	Sample Interval	Parameter(s)
Coke Fines Area		
CF-8	2-12 in	As
Coal Stockpile Area		
CS-1	0-2 in	Pb
CS-4	0-2 in	Cd, Pb
CS-4	2-12 in	Cd, Pb
Raw Materials Area		
RM-4-3	2-12 in	Pb, V
RM-6-1	0-2 in	As, V
RM-6-4	2-12 in	Zn, V
RM-8-1	0-2 in	Cr, Cr ⁺⁶ , V
RM-8-3	0-2 in	As
RM-8-3	2-12 in	Cr, Cr ⁺⁶ , Cu, Fe, V
RM-8-4	0-2 in	Cr, Cr ⁺⁶ , Cu, V
RM-8-4	2-12 in	Pb, Zn, V
RM-8-5	0-2 in	As, Cr, Cr ⁺⁶ , Cu, Pb, Zn, V
RM-8-5	2-12 in	Pb, Zn, V
RM-8-6	0-2 in	Cr, Cr ⁺⁶ , Cu, Fe, V
RM-8-6	2-12 in	Cr, Cr ⁺⁶ , Cu, Fe, Ni, V

This follow-up investigation program includes collection of additional samples at the stations that exhibited anomalous chromium and lead concentration.

XRF data and correlated concentrations will be summarized in report tables for the Phase 1 RFI Report. The most current linear equations for the paired data set will be used to convert the XRF data to correlated concentrations. The correlation coefficient will also be summarized when reporting the

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correlated concentrations. Only correlated concentrations will be used for comparison to appropriate risk-based screening levels.

Tables

Table 1 - Soil Quality Data - XRF

Station	Antimony			Tin			Cadmium			Silver			Strontium			Rubidium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-1-1-(0-2)	57 U	-247.51	37.7	50 U	-209.24	33.49	25 U	-80.59	16.75	22 U	-96.88	14.58	210	209.48	8.53	16	16.15	2.75
RM-1-1-(2-12)	83 U	-110.28	55.18	74 U	-97.71	49.02	37 U	-33.7	24.34	32 U	-28.91	21.56	440	443.15	16.19	30	30.1	4.74
RM-1-2-(0-2)	71 U	-175.48	47.58	64 U	-136.81	42.53	32 U	-55.15	21.06	28 U	-38.78	18.76	340	338.47	12.79	26	25.64	3.97
RM-1-2-(2-12)	94 U	12.16	62.99	84 U	9.71	56.07	44 J	44.09	28.14	37 U	26.52	24.7	520	521.5	19.04	54	54.09	6.54
RM-1-3-(0-2)	48 U	-350.24	32.28	43 U	-277.62	28.74	22 U	-102.92	14.52	19 U	-135.91	12.45	170	166.07	6.87	13	12.76	2.25
RM-1-3-(2-12)	66 U	-224.73	44.26	59 U	-194.24	39.3	29 U	-80.36	19.53	26 U	-76.98	17.24	280	282.45	11.17	18	18.41	3.33
RM-1-4-(0-2)	52 U	-292.88	34.44	46 U	-243.05	30.61	23 U	-79.12	15.49	20 U	-109.69	13.34	180	179.31	7.42	12	12.28	2.34
RM-1-4-(2-12)	77 U	-160.93	51.26	69 U	-127.96	45.71	34 U	-39.55	22.79	30 U	-34.1	20.18	350	349.17	13.77	34	33.7	4.67
RM-1-5-(0-2)	100 U	-18.75	68.56	92 U	-13.96	61.01	56 J	55.55	30.89	51 J	51.03	27.29	660	656.68	22.83	40	40.45	6.35
RM-1-5-(0-2F)	130 J	134.96	85.93	140 J	144.07	77.09	56 U	33.9	37.35	120 J	120.94	34.36	860	857.43	30.35	57	57.36	8.64
RM-1-5-(2-12)	110 U	61.54	75.18	100 U	58.14	67.05	49 U	13.27	32.79	63 J	63.1	29.73	740	744.79	25.83	45	44.88	7.1
RM-1-6-(0-2)	89 U	-27.78	59.02	79 U	-39.24	52.58	39 U	-9.12	25.93	35 U	27.47	23.38	440	443.03	16.88	56	56.49	6.33
RM-1-6-(2-12)	89 U	-28.78	59.05	79 U	-18.01	52.78	39 U	-7.4	25.98	35 U	20.04	23.31	430	425.22	16.55	58	57.89	6.38
RM-2-1-(0-2)	95 U	-74.71	63.12	85 U	-47.28	56.45	42 U	-19.67	27.8	38 U	16.84	25.05	630	633.61	21.24	37	36.9	5.79
RM-2-1-(2-12)	110 U	-54.72	71.13	96 U	-17.95	63.74	46 U	-43.03	30.85	43 U	35.09	28.35	800	796.59	25.97	34	34.37	6.26
RM-2-2-(0-2)	110 U	20.15	70.61	94 U	21.96	62.73	94 J	93.91	32.09	50 J	49.93	27.86	690	688.56	23.73	40	39.52	6.4
RM-2-2-(2-12)	100 U	35.32	67.46	90 U	25.03	60	61 J	61.29	30.21	51 J	51.48	26.63	620	622.13	21.79	49	49.39	6.68
RM-2-3-(0-2)	100 U	-24.19	66.62	89 U	-24.12	59.34	44 U	-19.26	29.08	40 U	27.68	26.34	670	665.93	22.55	41	41.06	6.24
RM-2-3-(2-12)	100 U	-11.9	68.76	92 U	-17.21	61.21	44 U	-48.19	29.54	41 U	20.8	27.06	700	701.47	23.68	32	32.02	5.85
RM-2-4-(0-2)	100 U	-64.03	67.59	90 U	-47.97	60.33	44 U	-50.44	29.27	40 U	18.72	26.8	710	709.13	23.65	36	35.62	6.05
RM-2-4-(2-12)	110 U	-29.83	70.48	94 U	-29.29	62.81	46 U	-49.11	30.36	42 U	30.03	27.93	760	763.93	25.2	32	32.1	6.03
RM-2-5-(0-2)	110 U	71.21	72.92	97 U	55.53	64.9	48 U	17.06	31.82	55 J	54.53	28.69	670	674.67	24.02	48	47.87	7.07
RM-2-5-(0-2F)	110 U	50.4	72.52	97 U	25.05	64.63	48 U	19.89	31.8	98 J	98.19	29.19	770	770.09	25.58	44	44.08	6.86
RM-2-5-(2-12)	110 U	-30.73	71	96 U	5.55	63.67	47 U	0.1	31.27	56 J	55.71	28.42	700	701.01	24.29	36	36	6.28
RM-2-6-(0-2)	110 U	46.11	72.82	97 U	39.82	64.74	82 J	82.01	32.78	65 J	65.21	28.83	730	725.34	24.85	42	42.22	6.75
RM-2-6-(2-12)	99 U	53.37	65.92	88 U	33.75	58.53	51 J	50.58	29.31	39 U	32.84	25.74	560	555.57	20.24	53	52.69	6.67
RM-3-1-(0-2)	72 U	-171.8	48.03	64 U	-151.16	42.59	32 U	-33.37	21.49	28 U	-54.53	18.72	320	324.49	12.61	23	22.91	3.84
RM-3-1-(2-12)	73 U	-144.75	48.77	65 U	-126.76	43.27	33 U	-31.47	21.72	28 U	-49.62	18.96	350	348.2	13.14	25	24.91	3.99
RM-3-2-(0-2)	100 U	-40.53	66.65	89 U	-11.61	59.63	44 U	-10.09	29.3	40 U	27.57	26.41	610	606.48	21.61	48	47.8	6.62
RM-3-2-(2-12)	93 U	-71.34	62.33	84 U	-39.69	55.82	41 U	-25.33	27.37	37 U	10.04	24.65	520	521.67	19.17	60	60.49	6.87
RM-3-3-(0-2)	93 U	-43.61	62.33	83 U	-27.36	55.63	41 U	0.92	27.58	37 U	25.35	24.69	580	581.95	20.09	37	36.74	5.66
RM-3-3-(2-12)	92 U	22.99	61.65	82 U	8.3	54.73	41 U	25.25	27.28	36 U	21.06	24.09	540	537.65	18.98	34	34.32	5.4
RM-3-4-(0-2)	88 U	-21.73	58.37	77 U	-48.68	51.57	39 U	8.88	25.85	34 U	-1.39	22.73	490	487.69	17.46	33	33.17	5.12
RM-3-4-(2-12)	95 U	-11.33	63.01	84 U	-18.46	55.98	42 U	25.89	28.04	37 U	26.11	24.81	580	580.64	20.14	40	39.67	5.84
RM-3-5-(0-2)	93 U	-18.39	61.9	82 U	-35.24	54.85	41 U	12.72	27.42	36 U	17.01	24.31	560	563.18	19.6	33	33.1	5.37
RM-3-5-(2-12)	96 U	8.03	63.76	85 U	14.3	56.86	43 U	35.3	28.4	38 U	36.73	25.15	530	528.73	19.38	31	30.99	5.36
RM-3-6-(0-2)	100 U	41.24	66.55	88 U	10.96	58.89	78 J	77.91	29.99	45 J	44.93	26.15	600	600.74	21.17	42	41.57	6.19
RM-3-6-(2-12)	93 U	13.63	61.73	83 U	7.44	55.06	41 U	27.87	27.39	37 J	36.75	24.35	430	433.39	17.17	71	70.5	7.15
RM-4-1-(0-2)	110 U	44.34	72.97	97 U	22.89	64.57	100 J	99.55	33.08	53 J	53.39	28.72	730	725.76	24.88	43	43.45	6.82
RM-4-1-(2-12)	110 U	58.31	73.94	99 U	68.39	65.88	120 J	115.38	33.65	70 J	69.66	29.23	730	734.53	25.23	42	42.04	6.8
RM-4-2-(0-2)	100 U	-25.18	69.13	92 U	-17.32	61.45	75 J	75.37	31.43	48 J	47.58	27.47	670	673.92	23.25	40	39.87	6.35
RM-4-2-(2-12)	110 U	5.85	71.67	96 U	15.4	63.68	100 J	102.85	32.75	48 J	47.91	28.31	720	719.2	24.55	43	43.3	6.74
RM-4-3-(0-2)	100 U	35.5	68.55	91 U	10.92	60.89	45 U	28.27	30.26	55 J	55.21	27.14	660	655.64	22.66	42	41.59	6.37
RM-4-3-(2-12)	100 U	48.85	69.82	93 U	15.44	61.94	46 U	18.84	30.62	59 J	58.7	27.63	660	659.48	23.04	37	37.06	6.19
RM-4-4-(0-2)	110 U	68.9	71.32	95 U	41.19	63.38	47 U	7.08	31.01	58 J	57.58	28.13	690	693.03	23.91	48	48.02	6.94
RM-4-4-(2-12)	100 U	3.55	69.94	93 U	5.53	62.27	47 U	40	31.18	51 J	51.2	27.75	700	703.83	23.9	40	39.62	6.42
RM-4-5-(0-2)	98 U	-15.24	65.27	87 U	-29.27	57.98	43 U	14.91	28.9	39 U	34.53	25.83	630	629.3	21.5	35	35.35	5.81
RM-4-5-(2-12)	-- --	--	--	-- --	--	--	-- --	--	--	-- --	--	--	-- --	--	--	-- --	--	--
RM-4-6-(0-2)	95 U	-42.41	63.6	85 U	-18.28	56.7	61 J	61.2	28.89	38 U	22.81	25.09	570	573.02	20.22	35	34.52	5.61
RM-4-6-(2-12)	93 U	-43.29	61.81	82 U	-32.66	54.92	64 J	64.17	28.13	36 U	15.18	24.3	540	543.39	19.27	37	37.1	5.63
RM-5-1-(0-2)	110 U	49.68	71.99	96 U	25.96	63.71	110 J	113.53	32.8	63 J	62.68	28.42	700	699.34	24.16	45	44.51	6.8
RM-5-1-(2-12)	100 U	-31.03	69.63	93 U	-6.56	62.23	47 U	38.85	31.2	58 J	57.74	27.87	700	701.42	23.91	41	40.89	6.51
RM-5-2-(0-2)	111 U	86.4	73.78	98 U	47.55	65.24	110 J	113.17	33.4	75 J	75.06	29.12	720	717.17	24.81	45	45	6.94
RM-5-2-(2-12)	110 U	35.34	70.27	94 U	33.63	62.42	96 J	95.71	31.89	51 J	50.96	27.68	670	666.17	23.22	40	40.41	6.42
RM-5-3-(0-2)	110 U	2.78	72.08	96 U	22.16	64.25	92 J	91.58	32.8	58 J	58.13	28.63	780	776.32	25.61	44	43.96	6.85
RM-5-3-(2-12)	100 U	3.58	69.88	93 U	-23.74	61.75	47 U	46.22	31.22	41 U	34.67	27.51	670	667.88	23.28	44	44.48	6.68

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation

Table 1 - Soil Quality Data - XRF

Station	Antimony			Tin			Cadmium			Silver			Strontium			Rubidium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-5-4-(0-2)	110 U	60.17	70.72	94 U	43.82	62.74	95 J	94.99	31.95	59 J	58.88	27.85	650	651.52	23.02	38	37.54	6.27
RM-5-4-(2-12)	110 U	50.63	73.8	98 U	18.13	65.28	67 J	67.42	32.99	61 J	61.43	29.15	730	725.64	25.11	37	36.99	6.49
RM-5-5-(0-2)	110 U	36.65	70.59	94 U	21.67	62.6	84 J	83.93	31.87	52 J	52.28	27.83	660	655.53	23.14	49	48.51	6.91
RM-5-5-(2-12)	82 U	-101.09	54.72	73 U	-98.44	48.52	37 U	17.95	24.72	32 U	-5.51	21.57	470	473.95	16.54	29	28.71	4.63
RM-5-6-(0-2)	110 U	11.24	71.35	95 U	27.64	63.48	120 J	122.32	32.83	55 J	55.08	28.23	690	692.8	23.99	43	43.48	6.71
RM-5-6-(2-12)	110 U	23.15	70.63	94 U	18.69	62.73	100 J	99.98	32.17	62 J	61.82	28.01	660	656.8	23.2	42	42.33	6.56
RM-6-1-(0-2)	86 U	-8.86	57.41	77 U	0.18	51.56	38 U	-6.68	25.19	35 J	34.99	22.77	300	298.29	13.69	110	113.86	8.3
RM-6-1-(2-12)	87 U	42.25	58.31	78 U	29.68	52.31	38 U	-23.59	25.14	37 J	37.27	22.98	330	325.48	14.3	97	96.75	7.75
RM-6-2-(0-2)	100 U	46.06	69.69	93 U	16.19	61.67	92 J	91.54	31.53	63 J	63.06	27.57	630	631.52	22.46	39	39.1	6.27
RM-6-2-(2-12)	110 U	11	71.19	96 U	36.07	63.71	48 U	39.92	31.69	64 J	64.03	28.37	720	716.85	24.43	35	35.25	6.27
RM-6-3-(0-2)	100 U	24.73	69.87	93 U	26.21	62.14	75 J	74.61	31.49	41 U	39.79	27.46	690	688.52	23.53	54	54.3	7.15
RM-6-3-(2-12)	100 U	35.09	68.33	91 U	33.04	60.79	94 J	93.71	31	55 J	55.19	26.99	610	610.84	21.79	48	48.49	6.7
RM-6-4-(0-2)	100 U	-41.16	66.76	90 U	-6.73	59.75	45 U	21.73	29.76	39 U	17.74	26.31	610	610.59	21.68	46	46.46	6.57
RM-6-4-(2-12)	110 U	10.34	70.34	94 U	-22.18	62.53	45 U	-33.23	30.31	51 J	50.52	27.97	700	702.44	24.06	39	38.66	6.42
RM-6-5-(0-2)	110 U	92.44	73.59	97 U	12.66	64.55	120 J	117.73	33.34	67 J	67.46	28.92	720	724.53	24.86	50	50.38	7.25
RM-6-5-(2-12)	100 U	-47.84	67.42	91 U	-7.69	60.49	45 U	18.92	30.05	47 J	46.72	26.96	650	652.66	22.6	46	45.58	6.61
RM-6-6-(0-2)	100 U	58.52	69.48	92 U	30.61	61.54	85 J	84.51	31.28	53 J	53	27.32	600	601.72	21.86	42	42.47	6.45
RM-6-6-(2-12)	100 U	24.55	69.64	93 U	13.82	61.83	74 J	73.9	31.39	57 J	56.8	27.58	610	610.6	22.17	44	44.29	6.57
RM-7-1-(0-2)	100 U	-31.26	66.83	89 U	-49.97	59.19	45 U	33.34	29.89	40 U	23.43	26.35	570	569.14	20.95	42	41.52	6.26
RM-7-1-(2-12)	98 U	-75.23	65.39	87 U	-76.59	58.05	43 U	-6.01	28.97	39 U	10.05	25.84	570	569.13	20.76	34	34.06	5.76
RM-7-2-(0-2)	110 U	-7.95	74.04	100 U	39.51	66.52	68 J	68.2	33.41	73 J	72.62	29.67	710	713	25.16	40	40.06	6.78
RM-7-2-(2-12)	110 U	-20.13	70.63	95 U	24.49	63.28	47 U	34.58	31.52	42 U	33.79	27.91	690	688.13	23.91	42	41.78	6.59
RM-7-3-(0-2)	89 U	-67.75	59.63	79 U	-66.23	52.97	40 U	20.31	26.74	35 U	-4.4	23.37	430	431.31	16.87	35	35.46	5.38
RM-7-3-(2-12)	77 U	-155.7	51.4	68 U	-168.91	45.35	34 U	-29.06	22.94	30 U	-37.86	20.16	360	359.96	13.95	26	25.95	4.27
RM-7-4-(0-2)	100 U	36.18	69.03	91 U	5.65	60.99	130 J	133.32	31.8	56 J	55.93	27.23	600	599.47	21.75	49	48.94	6.83
RM-7-4-(2-12)	99 U	-41.33	66.28	88 U	-37.07	58.85	45 U	36.86	29.75	39 U	20.2	26.12	610	607.16	21.49	38	38.26	6.09
RM-7-5-(0-2)	110 U	2.54	70.78	95 U	24.98	63.17	87 J	87.37	32.17	56 J	55.86	28.1	680	675.57	23.64	41	40.72	6.53
RM-7-5-(2-12)	110 U	5.39	72.4	97 U	41.22	64.75	100 J	102.11	33.06	60 J	60.46	28.76	730	725.27	24.85	39	38.8	6.55
RM-7-6-(0-2)	100 U	23.06	68.31	91 U	-8.07	60.35	90 J	90.11	31.01	48 J	47.64	26.94	600	601.85	21.68	49	49.12	6.84
RM-7-6-(2-12)	100 U	67.53	69.59	110 J	105.25	62.43	110 J	114.02	31.67	69 J	68.67	27.49	560	558.45	21.09	44	43.8	6.55
RM-8-1-(0-2)	110 U	-7.47	72.2	96 U	-44.04	64.08	47 U	-1.25	31.64	49 J	48.7	28.72	670	665.82	23.94	34	34.26	6.23
RM-8-1-(2-12)	100 U	-40.37	67.53	91 U	-20.21	60.45	44 U	-16.38	29.59	45 J	44.52	26.99	620	616.66	22.04	30	30.28	5.67
RM-8-2-(0-2)	88 U	-61.87	58.42	78 U	-86.99	51.87	38 U	-37.31	25.47	34 U	-2.52	22.97	380	384.82	15.77	77	76.58	7.17
RM-8-2-(2-12)	87 U	31.21	57.76	78 U	42.75	51.99	37 U	-20.33	24.99	34 U	21.96	22.63	460	460.13	16.72	100	104.4	8.01
RM-8-3-(0-2)	100 U	-34.31	68.09	91 U	-54.42	60.55	45 U	-5.39	29.93	40 U	29.69	26.99	650	648.37	22.7	47	47.25	6.76
RM-8-3-(2-12)	130 U	-117.97	84.74	110 U	-212.72	75.25	55 U	-40.91	36.98	51 U	48.59	34.33	440	443.68	22.73	30 J	30.07	6.92
RM-8-4-(0-2)	110 U	-69.07	76.44	100 U	-68.31	68.03	51 U	16.94	34.04	45 U	22.3	30.3	510	508.07	22.19	35	34.95	6.6
RM-8-4-(2-12)	100 U	-77.91	67.42	90 U	-72.45	60.16	45 U	-18.94	29.69	45 J	44.72	27.12	550	551.76	21	32	31.59	5.75
RM-8-5-(0-2)	110 U	6.6	73.98	98 U	-36.06	65.64	49 U	21.91	32.65	65 J	64.81	29.55	630	627.84	23.68	38	37.74	6.58
RM-8-5-(2-12)	100 U	-1.97	67.76	89 U	-77.82	59.45	45 U	43.98	30.3	52 J	52.4	26.95	590	593.5	21.54	31	31.21	5.75
RM-8-6-(0-2)	130 U	-192.29	86.31	120 U	-191.86	77.86	56 U	-72.88	37.56	52 U	20.77	34.97	440	436.07	23.06	34 J	34.33	7.45
RM-8-6-(2-12)	130 U	-183.31	89.63	120 U	-296.02	79.7	58 U	-69.06	38.97	55 U	42.44	36.59	370	368.05	21.94	32 J	32.21	7.34
CF-4-(0-2)	54 U	-277.82	35.81	48 U	-215.93	31.97	24 U	-80.38	16.03	21 U	-108.63	13.84	200	196.79	7.98	19	19.09	2.79
CF-4-(2-12)	69 U	-104.74	46.2	62 U	-88.66	41.35	31 U	-33.42	20.41	27 U	-3.19	18.33	280	282.03	11.3	55	54.83	5.09
CF-6-(0-2)	87 U	-78.65	57.7	76 U	-102.21	50.98	39 U	13.47	25.87	34 U	12.2	22.85	520	515.26	17.91	33	32.51	5.07
CF-6-(2-12)	76 U	-96.93	50.48	67 U	-86.14	44.93	34 U	-22.71	22.37	30 U	-23.24	19.74	380	381.45	13.99	38	38.04	4.77
CF-8-(0-2)	77 U	-38.83	51.48	69 U	-10.85	46.27	34 U	-24.83	22.53	30 U	-2.06	20.16	300	297.67	12.53	72	72.08	6.21
CF-8-(2-12)	78 U	2.59	52.19	70 U	-6.06	46.65	34 U	-20.11	22.72	31 U	15.33	20.47	290	291.8	12.48	72	71.59	6.22
CF-9-(0-2)	47 U	-362.65	31.56	42 U	-313.69	27.93	21 U	-116.15	14.12	18 U	-138.36	12.2	160	156.84	6.59	13	13.48	2.24
CF-9-(2-12)	40 U	-465.6	26.7	35 U	-379.99	23.65	18 U	-134.81	12.14	15 U	-176.31	10.29	110	108.97	4.97	7 J	7.04	1.63
CF-10-(0-2)	72 U	-101.93	48.09	65 U	-71.62	43.17	32 U	-45.33	21.09	28 U	-15.35	18.94	250	245.84	10.98	67	67.1	5.72
CF-10-(2-12)	71 U	-105.36	47.65	64 U	-62.83	42.89	31 U	-57.84	20.77	28 U	-24.97	18.69	240	239.18	10.78	68	68.16	5.73
CF-12-(0-2)	72 U	-84.29	47.89	64 U	-79.42	42.66	32 U	-34.81	21.04	28 U	-29.24	18.64	330	329.07	12.46	54	53.51	5.19
CF-12-(2-12)	83 U	23.9	55.64	75 U	30.69	49.99	36 U	-4.28	24.31	42 J	42.38	22.03	330	330.98	13.9	93	93.34	7.35
CF-14-(0-2)	52 U	-297.64	34.57	46 U	-230.41	30.9	23 U	-85.51	15.51	20 U	-106.89	13.44	180	184.25	7.54	11 J	10.94	2.27
CF-14-(2-12)	61 U	-212.96	40.56	54 U	-174.3	36.17	27 U	-71.24	17.96	24 U	-75.75	15.78	210	214.96	9.13	43	43.24	4.18

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation

Table 1 - Soil Quality Data - XRF

Station	Antimony			Tin			Cadmium			Silver			Strontium			Rubidium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
CF-15-(0-2)	74 U	-34.4	49.54	66 U	-63.86	43.99	32 U	-26.09	21.66	29 U	-0.44	19.41	250	252.7	11.26	66	65.84	5.76
CF-15-(2-12)	73 U	-74.75	48.68	65 U	-75.1	43.42	32 U	-42.88	21.26	29 U	-16.01	19.07	280	276.57	11.65	72	71.71	5.94
CF-16-(0-2)	53 U	-272.39	35.28	47 U	-199.2	31.63	24 U	-80.46	15.77	20 U	-105.56	13.64	160	160.25	7.18	31	30.56	3.25
CF-16-(2-12)	77 U	30.59	51.41	69 U	14.06	45.9	33 U	-41.71	22.02	30 U	-5.07	19.87	350	351.57	13.38	77	77.35	6.34
CF-17-(0-2)	47 U	-385.08	31.2	42 U	-297.82	27.86	21 U	-107.75	14.11	18 U	-144.17	12.06	150	152.63	6.47	14	13.7	2.23
CF-17-(2-12)	43 U	-420.54	28.48	38 U	-344.6	25.28	19 U	-113.02	12.97	17 U	-149.33	11.07	130	129.74	5.61	11	10.99	1.93
CF-18-(0-2)	44 U	-366.86	29.26	39 U	-276.3	26.21	20 U	-105.2	13.21	17 U	-133.09	11.36	120	121.98	5.52	16	15.97	2.2
CF-18-(2-12)	60 U	-190.75	40.14	54 U	-134.55	35.99	27 U	-51.08	17.9	23 U	-65.17	15.63	190	194.79	8.62	41	41.33	4.05
CF-19-(0-2)	71 U	-113.71	47.35	64 U	-90.05	42.46	31 U	-53.25	20.73	28 U	-15.52	18.7	250	250.74	10.96	62	61.79	5.47
CF-19-(2-12)	81 U	-54.27	53.98	73 U	-33.65	48.43	36 U	-20.71	23.72	32 U	-0.98	21.21	350	354.28	14.18	85	84.56	6.97
CF-20-(0-2)	54 U	-262.14	36.19	48 U	-206.93	32.23	24 U	-71.96	16.22	21 U	-108.78	13.92	190	193.98	7.98	26	25.6	3.12
CF-20-(2-12)	61 U	-167.43	40.52	54 U	-172.17	35.77	27 U	-50.63	17.98	23 U	-72.17	15.63	210	213.55	9	38	37.93	3.92
CF-25-(0-2)	61 U	-166.83	40.6	54 U	-134.2	36.22	27 U	-45.53	18.07	24 U	-63.39	15.75	210	207.34	8.9	45	45.44	4.23
CF-25-(2-12)	42 U	-419.84	28.1	38 U	-327.64	25.07	19 U	-132.41	12.64	16 U	-158.31	10.86	100	103.17	5.04	14	13.59	2.04
CF-28-(0-2)	52 U	-309.73	34.75	47 U	-226.83	31.21	23 U	-98.25	15.51	20 U	-107.15	13.55	190	194.13	7.78	14	14.45	2.49
CF-28-(2-12)	73 U	-67.57	48.46	65 U	-61.11	43.28	32 U	-44.46	21.12	28 U	-21.1	18.9	270	265.79	11.37	61	61.14	5.52
CF-27-(0-2)	54 U	-272.89	36.24	49 U	-209.71	32.39	24 U	-87.49	16.13	21 U	-101.51	14.06	200	201.26	8.14	16	15.81	2.64
CF-27-(0-2F)	52 U	-256.17	34.75	46 U	-203.4	30.98	23 U	-91.44	15.38	20 U	-109.69	13.36	200	202	7.84	14	13.9	2.44
CF-27-(2-12)	76 U	-60.54	50.36	68 U	-17.72	45.3	33 U	-18.99	22.2	29 U	-15.53	19.65	290	292.09	12.25	73	72.79	6.14
CF-29-(0-2)	38 U	-438.41	25.35	34 U	-348.42	22.57	17 U	-132.61	11.47	15 U	-168.61	9.76	92	92.45	4.41	10	10.14	1.69
CF-29-(2-12)	63 U	-143.32	41.9	56 U	-87.81	37.59	28 U	-27.73	18.73	24 U	-60.36	16.19	180	183.81	8.62	45	44.57	4.28
CS-1-(0-2)	100 U	-24.2	66.39	89 U	-37.29	59.08	53 J	52.92	29.91	39 U	37.85	26.33	550	546.6	20.42	58	57.52	7.09
CS-1-(2-12)	77 U	-43.78	51.61	68 U	-87.27	45.62	34 U	-22.32	22.63	30 U	-12.92	20.11	330	330.81	13.2	54	54.22	5.55
CS-2-(0-2)	91 U	-58.84	60.91	82 U	-41.71	54.36	41 U	19.14	27.25	36 U	0.79	23.9	480	483.63	18.08	61	61.3	6.78
CS-2-(2-12)	56 U	-268.31	37.41	50 U	-220.41	33.27	25 U	-74.16	16.76	22 U	-97.52	14.52	210	205.76	8.44	20	19.95	2.93
CS-3-(0-2)	82 U	-69.14	54.38	73 U	-30.6	48.88	36 U	-13.77	24.05	32 U	-1.5	21.4	210	214.45	11.38	89	88.79	7.15
CS-3-(2-12)	80 U	0.27	53.14	71 U	-2.57	47.48	35 U	-27.13	23.06	31 U	-4.64	20.64	190	190.16	10.48	76	76.14	6.47
CS-4-(0-2)	100 U	-11.97	66.38	87 U	-44.48	57.77	410	412.14	34.01	39 U	23.06	25.71	510	511.38	19.49	57	56.96	6.92
CS-4-(2-12)	74 U	-108.34	49.55	65 U	-101.23	43.65	150	154.56	23.88	29 U	-33	19.16	330	332.65	12.85	34	33.81	4.47
CS-5-(0-2)	97 U	26.83	64.97	86 U	-17.47	57.3	71 J	70.61	29.27	38 U	25.26	25.37	560	563.72	20.22	43	43.47	6.17
CS-5-(2-12)	84 U	-50.28	55.83	75 U	-60.14	49.71	37 U	-18.73	24.53	33 U	0.67	21.92	390	390.64	15.24	66	65.64	6.44
CS-6-(0-2)	85 U	36.66	56.93	76 U	24.22	50.97	37 U	-19.22	24.62	33 U	22.28	22.28	330	327.92	14.09	99	99.39	7.72
CS-6-(2-12)	85 U	69	56.6	82 J	82.47	50.98	37 U	18.63	24.8	53 J	53.09	22.34	410	407.81	15.44	120	117.98	8.27
Slag	210 J	207.36	85.79	170 J	165.17	76.54	55 U	32.22	36.9	150 J	148.74	34.34	1,000	1046.54	33.08	52	52.22	8.33
< DL	143			141			107			92			0			0		
J-Qualified	2			4			36			53			0			5		
Detected	1			1			3			1			146			141		

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation

Table 1 - Soil Quality Data - XRF

Station	Lead			Gold			Platinum			Arsenic			Mercury			Zinc		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-1-1-(0-2)	11 J	11.46	6.79	17 U	3.06	11.17	18 U	1.85	12.13	10 J	10.35	6.57	8 U	0.88	5.38	160	162.06	21.05
RM-1-1-(2-12)	24 J	23.74	10.98	26 U	-2.06	17.55	33 U	24.15	22.04	16 U	10.67	10.57	14 U	1.39	9.17	530	528.67	45.54
RM-1-2-(0-2)	61 J	61.48	12.65	24 U	3.55	15.7	28 U	20.37	18.64	18 U	17.32	12.3	12 U	4.12	7.93	2,000	2034.98	72.93
RM-1-2-(2-12)	19 J	19.24	11.81	34 U	15.07	22.72	45 J	44.77	27.92	18 U	15.57	11.85	16 U	1.26	10.84	600	604.52	53.1
RM-1-3-(0-2)	8 U	2.66	5.2	13 U	-4.91	8.83	16 U	6.25	10.55	18 J	17.95	5.58	7 U	1.96	4.45	170	169.03	18.53
RM-1-3-(2-12)	12 U	10	7.81	21 U	-0.73	13.77	25 U	14.89	16.41	17 J	17.21	8.09	11 U	4.97	7.08	320	317.81	31.11
RM-1-4-(0-2)	9 U	7.39	5.92	15 U	-1.95	9.78	17 U	9.29	11.66	19 J	18.88	6.3	7 U	0.5	4.71	170	171.98	19.72
RM-1-4-(2-12)	24 J	23.91	10.36	26 U	6.96	17.44	30 U	16.29	19.74	15 U	13.5	10.19	13 U	8.23	8.96	1,400	1395.14	65.07
RM-1-5-(0-2)	25 J	24.91	13.47	39 U	22.08	25.89	45 U	35.69	30.02	20 U	11.62	13.08	19 U	1.75	12.5	1,200	1225.3	76.84
RM-1-5-(0-2F)	32 J	32.4	17.37	52 U	34.35	34.8	61 U	55.59	40.83	23 U	-2.95	15.46	25 U	3.76	16.93	1,500	1538.57	100.78
RM-1-5-(2-12)	29 J	29.28	15.1	45 U	34.41	29.67	48 U	26.9	32.21	21 U	3.94	13.95	21 U	1.66	14.13	1,400	1401.73	87.27
RM-1-6-(0-2)	61 J	60.62	14.91	31 U	9.59	20.48	34 U	14.17	22.71	21 U	5.56	13.81	16 U	8.1	10.53	1,600	1593.34	76.3
RM-1-6-(2-12)	31 J	31.12	12.35	29 U	0.75	19.6	36 U	25.49	23.8	18 U	11.45	11.92	16 U	7.42	10.4	1,300	1255.87	68.53
RM-2-1-(0-2)	48 J	47.82	14.83	35 U	17.41	23.53	43 J	43.38	28.51	21 U	8.5	13.95	17 U	2.18	11.3	1,000	1015.71	66.77
RM-2-1-(2-12)	27 J	26.74	14.28	40 U	16.38	26.36	44 U	15.81	29.05	19 U	2.45	12.99	20 U	5.03	13.44	360	357.32	50.15
RM-2-2-(0-2)	19 U	14.38	12.51	39 U	16.57	25.77	44 U	22.74	29.05	19 U	13.17	12.45	19 U	3.61	12.94	1,000	1037.94	72.9
RM-2-2-(2-12)	29 J	29.16	13.63	36 U	16.74	24.26	42 U	28.45	28.18	20 U	16.42	13.58	18 U	-1.14	11.77	980	981.82	68.37
RM-2-3-(0-2)	33 J	32.67	13.98	36 U	12.18	23.9	39 U	10.9	25.85	21 U	14.27	13.7	19 U	7.76	12.4	1,200	1226.49	75.25
RM-2-3-(2-12)	20 J	19.93	12.98	35 U	-2.11	23.51	44 U	32.29	29.26	19 U	11.53	12.66	19 U	8.03	12.83	720	720.02	62.02
RM-2-4-(0-2)	22 J	21.94	13.07	36 U	9.73	23.77	43 U	27.07	28.57	18 U	7.11	12.28	18 U	-4.75	11.83	620	624.8	58.28
RM-2-4-(2-12)	20 U	17.53	13	39 U	15.59	25.67	43 U	17.33	28.62	19 U	13.03	12.81	19 U	-0.91	12.79	500	498.57	55.5
RM-2-5-(0-2)	30 J	30.24	14.76	44 U	37.37	29.38	49 U	40.18	32.69	21 U	9.14	14.09	21 U	5.32	13.79	1,400	1447.21	86.07
RM-2-5-(0-2F)	41 J	41.07	15.98	42 U	10.19	27.89	66 J	65.69	35.11	23 U	10.64	15.29	22 J	22.46	14.77	2,000	2019.06	99.76
RM-2-5-(2-12)	27 J	27.08	14.22	39 U	12.51	25.83	45 U	25.64	29.99	20 U	5.45	13.24	20 U	3.04	13.33	1,800	1807.69	94.24
RM-2-6-(0-2)	30 J	30.48	14.8	42 U	24.62	28.01	60 J	60.05	34.56	20 U	2.04	13.49	20 U	0.09	13.33	1,300	1346.88	83.41
RM-2-6-(2-12)	20 J	19.78	12.33	33 U	2.23	22.32	40 U	25.7	26.69	22 J	22.21	12.9	18 U	6.38	11.73	810	814.61	61.87
RM-3-1-(0-2)	12 U	5.47	7.88	25 U	12.78	16.55	31 J	30.81	19.91	17 J	17.12	8.29	11 U	-0.22	7.6	610	612.51	42.91
RM-3-1-(2-12)	12 U	6.28	8.07	24 U	10.27	16.3	28 U	17.8	18.65	12 J	12.49	8.08	12 U	1.88	7.81	560	564.88	41.86
RM-3-2-(0-2)	26 J	26.08	13.3	37 U	21.17	24.79	41 U	20.3	27.34	19 U	5.53	12.37	18 U	2.67	12.11	660	660.28	58.45
RM-3-2-(2-12)	17 U	14.56	11.3	33 U	11.6	22.07	37 U	18.21	24.89	19 J	18.53	11.65	17 U	3.23	11.04	500	504.35	49.95
RM-3-3-(0-2)	37 J	37.05	13.6	34 U	16.79	22.51	38 U	22.34	25.34	19 U	2.86	12.4	17 U	3.54	11.09	1,200	1163.18	69.53
RM-3-3-(2-12)	46 J	45.62	14.07	33 U	17.21	21.68	38 U	26.64	25.21	19 U	2.18	12.81	15 U	-3.02	10.25	970	969.64	62.91
RM-3-4-(0-2)	17 J	16.64	10.72	33 U	28.34	21.7	34 U	17.24	22.87	16 U	14.71	10.74	15 U	-0.25	9.82	950	948.06	59.85
RM-3-4-(2-12)	20 J	19.72	11.93	33 U	8.56	22.22	41 U	37.64	27.18	17 U	11.33	11.6	17 U	7.56	11.31	640	641.58	54.57
RM-3-5-(0-2)	32 J	32.45	13.03	31 U	-2.2	20.72	43 J	42.85	27.04	19 U	12.02	12.59	17 U	7.03	11.03	1,100	1126.04	67.84
RM-3-5-(2-12)	34 J	33.5	13.4	34 U	12.84	22.85	41 U	35.39	27.29	21 J	20.82	13.62	17 U	3	11.24	1,300	1252.17	72.58
RM-3-6-(0-2)	22 J	22.3	12.73	37 U	18.15	24.84	76 J	76	32.82	19 U	16.66	12.82	17 U	-2.86	11.43	940	937.15	66.15
RM-3-6-(2-12)	24 J	24.45	12.06	32 U	17.34	21.57	37 U	20.66	24.52	17 U	5.84	11.28	15 U	-4.15	10.12	410	407.06	45.13
RM-4-1-(0-2)	22 J	21.59	13.82	42 U	23.29	28.14	58 J	57.63	34.41	20 U	12.06	13.51	20 U	3.02	13.54	1,300	1318.31	82.73
RM-4-1-(2-12)	24 J	24.14	14.24	42 U	25.32	28.33	48 U	35.84	32.19	21 U	10.98	13.8	21 U	3.94	13.79	1,400	1351.56	84.35
RM-4-2-(0-2)	22 J	22.48	13.37	38 U	10.13	25.44	52 J	52.28	31.97	20 U	13.25	13.12	19 U	6.97	12.93	1,200	1195.93	76.56
RM-4-2-(2-12)	26 J	25.8	14.12	41 U	23.36	27.53	48 U	40.3	32	19 U	2.19	12.88	20 U	7.61	13.61	1,300	1289.14	81.12
RM-4-3-(0-2)	92 J	91.82	19.36	38 U	17.46	25.24	44 U	30.87	29.24	28 U	12.7	18.34	18 U	-0.21	12.2	1,300	1293.37	78.09
RM-4-3-(2-12)	170	174.59	25.17	37 U	1.76	24.83	44 U	26.89	29.29	36 U	26.76	24.24	19 U	7.76	12.97	1,400	1391.47	81.74
RM-4-4-(0-2)	29 J	29.19	14.33	41 U	31.49	27.31	45 U	26.69	30.05	21 U	11.05	13.82	19 U	-3.2	12.67	890	894.79	68.87
RM-4-4-(2-12)	38 J	38.2	15.13	42 U	36.33	28.04	48 U	41.98	31.69	20 U	-1.62	13.48	19 U	2.78	12.94	1,100	1056.91	73.17
RM-4-5-(0-2)	71 J	71.19	17.11	37 U	21.53	24.99	43 U	37.86	28.76	25 U	17.06	16.59	18 U	7.25	12.09	1,800	1806.98	87.46
RM-4-5-(2-12)	-- --	--	--	-- --	--	--	-- --	--	--	-- --	--	--	-- --	--	--	-- --	--	--
RM-4-6-(0-2)	20 J	20.02	12.04	34 U	14.87	22.85	40 U	27.86	26.49	18 U	13.59	11.9	17 U	1.91	11.2	830	827.82	61.22
RM-4-6-(2-12)	23 J	23.32	12.07	34 U	21.04	22.84	43 J	42.89	27.5	18 U	12.93	11.82	16 U	-2.03	10.52	870	865.83	60.76
RM-5-1-(0-2)	26 J	26.48	14.2	43 U	31.75	28.61	60 J	59.87	34.29	21 U	13.82	13.96	20 U	2.27	13.31	1,600	1616.2	89.3
RM-5-1-(2-12)	34 J	33.92	14.76	42 U	25.49	27.91	59 J	58.57	33.46	23 U	21.64	15.01	20 U	9.64	13.5	1,900	1901.15	94.78
RM-5-2-(0-2)	26 J	26.42	14.41	44 U	34.59	29.14	50 U	47.63	33.65	21 U	13.99	14.22	20 U	-0.45	13.43	1,200	1212.21	80.06
RM-5-2-(2-12)	24 J	23.8	13.61	39 U	12.2	25.88	58 J	58.27	32.9	20 U	9.99	13.09	19 U	6.07	12.98	1,200	1171.89	76.22
RM-5-3-(0-2)	29 J	28.61	14.54	43 U	32.87	28.68	50 U	46.19	33.15	21 U	9.49	13.88	20 U	0.55	13.35	1,300	1340.9	83.04
RM-5-3-(2-12)	29 J	28.51	14.12	41 U	26.08	27.08	65 J	65.45	33.92	19 U	2.39	12.87	19 U	-2.12	12.58	1,400	1381.72	81.99

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation

Table 1 - Soil Quality Data - XRF

Station	Lead			Gold			Platinum			Arsenic			Mercury			Zinc		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-5-4-(0-2)	28 J	28.2	14.11	40 U	19.22	26.66	72 J	72.39	34.53	21 U	12.78	13.78	19 U	-0.91	12.64	1,500	1462.06	84.05
RM-5-4-(2-12)	26 J	26.06	14.45	41 U	19.53	27.38	47 U	30.87	31.57	21 U	12.68	14.11	20 U	-0.92	13.47	1,400	1368.72	84.86
RM-5-5-(0-2)	20 U	18.51	13.05	41 U	30.02	27.58	47 U	40.61	31.46	20 U	16.75	13.2	19 U	2.75	12.95	1,100	1108.19	74.81
RM-5-5-(2-12)	15 U	13.95	9.91	27 U	4.35	18.21	33 U	26.06	22.05	14 U	10.46	9.61	14 U	4.42	9.26	660	656.56	49.1
RM-5-6-(0-2)	24 J	23.91	13.85	41 U	22.49	27.48	52 J	52.3	33.08	20 U	7.48	13.09	20 U	7.05	13.44	1,200	1178.43	77.59
RM-5-6-(2-12)	29 J	28.71	14.22	39 U	12.75	26.04	56 J	56.48	32.86	19 U	1.33	12.89	20 U	6.37	13.13	1,200	1150.92	76.13
RM-6-1-(0-2)	41 J	40.6	12.88	27 U	-10.12	18.2	32 U	13.29	21.31	52 J	52.49	14.86	15 U	11.35	9.96	120 J	116.58	29.9
RM-6-1-(2-12)	52 J	52.26	13.89	27 U	-7.39	17.67	30 U	3.86	20.29	43 J	43.46	15.16	14 U	-1.36	9.19	120 J	123.07	30.55
RM-6-2-(0-2)	20 J	19.96	13	37 U	9.34	24.49	54 J	53.62	31.92	20 U	20.09	13.4	18 U	-7.86	11.82	1,300	1338.94	80.04
RM-6-2-(2-12)	33 J	32.65	14.8	43 U	37.95	28.86	68 J	68.18	35.2	20 U	0.36	13.33	19 U	-4.4	12.8	1,100	1128.82	76.3
RM-6-3-(0-2)	39 J	38.52	15.11	36 U	0.78	24.31	47 U	46.8	31.34	22 U	15.07	14.79	19 U	4.9	12.76	1,100	1138.28	75.19
RM-6-3-(2-12)	23 J	22.93	13.13	37 U	12.36	24.7	55 J	55.21	31.58	24 J	24.21	13.8	18 U	-3.39	11.9	1,600	1628.38	86.04
RM-6-4-(0-2)	48 J	48.45	15.57	40 U	25.75	26.41	50 J	49.54	31.08	41 J	41.48	16.9	18 U	0.68	12.21	2,100	2116.49	96.41
RM-6-4-(2-12)	65 J	64.78	17.73	42 U	28.12	27.97	47 U	38.79	31.63	29 J	28.58	18	20 U	3.07	13.31	2,700	2691.44	111.97
RM-6-5-(0-2)	38 J	37.85	15.67	45 U	28.47	29.7	120 J	118.87	40.81	23 U	11.04	15.06	20 U	-1.18	13.34	1,400	1409.22	85.21
RM-6-5-(2-12)	53 J	52.93	16.2	40 U	18.93	26.74	76 J	75.61	34.16	24 U	20.61	16.08	20 U	10.58	13.01	1,900	1883.88	92.23
RM-6-6-(0-2)	26 J	25.51	13.54	39 U	23.92	25.77	54 J	53.57	32.02	20 U	17.68	13.65	17 U	-12.08	11.49	1,100	1137.75	74.33
RM-6-6-(2-12)	29 J	28.57	13.96	37 U	16.71	24.81	41 U	13.91	27.42	20 U	11.79	13.52	18 U	-3.44	12.15	640	636.3	59.18
RM-7-1-(0-2)	37 J	37.3	14.48	36 U	6.35	24.25	71 J	71.3	32.88	21 U	9.45	13.77	18 U	3.42	12.13	1,100	1135.41	73.11
RM-7-1-(2-12)	19 J	18.85	12.32	37 U	19.28	24.49	41 U	25.11	27.47	18 U	10.78	11.95	18 U	5.35	12.1	1,000	1038.43	69.61
RM-7-2-(0-2)	49 J	49.47	17.08	45 U	33.05	30.19	62 J	62.14	36.13	25 U	12.21	16.4	21 U	1.93	14.09	1,800	1828.07	97.67
RM-7-2-(2-12)	50 J	49.74	16.45	39 U	12.58	26.23	48 U	43	31.89	24 U	17.41	16.14	20 U	3.43	13.19	1,600	1627.56	89.31
RM-7-3-(0-2)	36 J	36.19	12.99	35 U	21.8	23.02	74 J	73.72	29.83	27 J	26.85	13.57	15 U	-0.49	10.29	1,400	1372.55	72.41
RM-7-3-(2-12)	23 J	22.82	10.26	28 U	17.04	18.68	46 J	46.32	23.23	22 J	21.82	10.68	12 U	-2.12	8.31	930	934.52	54.56
RM-7-4-(0-2)	41 J	40.59	15.17	44 U	37.54	29.43	110 J	111.77	38.12	22 U	7.97	14.34	20 U	15.09	13.53	2,300	2302.46	101.37
RM-7-4-(2-12)	26 J	25.83	13.23	40 U	37.42	26.97	66 J	66.15	32.65	19 U	10.7	12.74	18 U	-2.47	11.82	1,300	1260.7	75.86
RM-7-5-(0-2)	32 J	32.24	14.67	42 U	28.68	27.86	47 U	36.94	31.35	22 U	17.86	14.66	20 U	5.69	13.34	1,500	1451.92	84.68
RM-7-5-(2-12)	38 J	37.56	15.54	42 U	22.78	28.18	63 J	62.78	34.95	21 U	2.06	14.18	21 U	5.31	13.68	1,400	1448.06	86.14
RM-7-6-(0-2)	38 J	38.42	14.82	69 J	69.44	31.25	100 J	101.53	37.37	20 U	-1.33	13.25	19 U	0.84	12.58	1,400	1403.56	80.71
RM-7-6-(2-12)	34 J	33.75	14.55	43 U	25.91	28.6	140 J	139.72	40.55	20 U	0.09	13.14	20 U	12.37	13.27	1,400	1365.7	80.38
RM-8-1-(0-2)	47 J	47.21	16.45	40 U	6.35	26.47	46 U	27.11	30.63	33 J	33.17	17.36	21 U	9.53	13.89	1,200	1157.63	78.95
RM-8-1-(2-12)	95 J	94.74	19.6	36 U	-8.77	23.75	66 J	65.87	32.81	42 J	42.28	20.22	19 U	6.58	12.66	2,000	1983.92	94.67
RM-8-2-(0-2)	69 J	69.04	15.51	32 U	4.87	21.18	37 U	33.65	24.93	42 J	41.6	16.41	16 U	15.17	10.84	830	830.25	57.62
RM-8-2-(2-12)	29 J	29.44	11.88	29 U	10.08	19.19	26 U	-16.82	17.58	17 U	5.24	11.03	15 U	10.19	9.97	140 J	144.41	31.35
RM-8-3-(0-2)	76 J	75.67	18.18	46 J	46.06	28.84	40 U	0.62	26.39	32 J	32.42	18.56	20 U	11.78	13.33	1,400	1371.28	81.14
RM-8-3-(2-12)	53 J	53.28	19.51	57 U	47.9	37.86	60 U	35.27	39.76	30 U	24.78	20.08	27 U	7.57	17.87	1,100	1135.52	94.16
RM-8-4-(0-2)	91 J	91.07	21.37	46 U	19.3	30.76	51 U	30.18	33.94	50 J	49.8	22.63	23 U	11.07	15.56	2,200	2198.33	110.58
RM-8-4-(2-12)	150	152.79	23.6	36 U	-6.11	24.06	43 U	25.8	28.59	35 J	35.21	23.25	20 U	15.83	13.43	2,600	2646.76	108.61
RM-8-5-(0-2)	110	112.98	22.42	42 U	-12.24	28.24	110 J	108.42	40.41	72 J	71.82	24.43	23 U	21.99	15.26	2,700	2704.94	116.94
RM-8-5-(2-12)	160	158.73	23.79	41 U	26.28	27.4	53 J	52.55	32.02	37 J	36.88	23.47	19 U	6.33	12.84	2,700	2706.3	108.66
RM-8-6-(0-2)	39 J	38.58	18.24	79 J	78.91	41.89	59 U	14.51	39.06	29 U	26.13	19.27	28 U	5.25	18.59	850	845.4	87.2
RM-8-6-(2-12)	24 U	20.24	16.28	53 U	4.37	35.31	59 U	19.92	39.55	26 U	20.35	17.42	29 U	12.17	19.47	810	807.21	89.56
CF-4-(0-2)	13 J	12.64	6.6	16 U	2.53	10.82	18 U	6.03	11.97	36 J	36.16	7.89	7 U	-1.45	4.88	150	148.14	19.59
CF-4-(2-12)	25 J	24.99	9.42	21 U	-3.49	14.32	24 U	5.01	15.69	60	59.55	11.87	11 U	5.06	7.18	100 J	101	22.67
CF-6-(0-2)	17 J	17.16	10.77	30 U	9.08	20.19	41 J	40.81	25.25	19 J	18.99	11.1	15 U	1.42	9.78	610	613.27	50.03
CF-6-(2-12)	13 U	10	8.77	24 U	0.93	16.33	39 J	38.8	21.42	17 J	17.2	9.07	12 U	2.52	8.08	420	423.74	38.38
CF-8-(0-2)	36 J	35.57	11.23	25 U	5.4	16.35	25 U	-4.53	16.67	28 J	27.75	11.81	12 U	0.79	8.01	99 J	98.97	25.33
CF-8-(2-12)	31 J	30.62	10.87	24 U	1.49	16.24	27 U	2.71	17.67	50 J	50.24	12.86	12 U	-3.51	7.76	120 J	115.75	26.34
CF-9-(0-2)	7 U	-1.48	4.7	13 U	-7.96	8.47	16 U	11.47	10.81	17 J	16.74	5.08	7 U	4.01	4.43	96	96.34	15.41
CF-9-(2-12)	7 U	2.43	4.35	10 U	-3.06	6.94	12 U	2.71	8.27	12 J	11.52	4.27	5 U	-3.22	3.19	48 J	47.98	10.93
CF-10-(0-2)	13 U	10.41	8.39	20 U	-14.08	13.51	24 U	3.22	15.95	34 J	33.77	9.84	12 U	8.43	7.76	130	130.84	25.33
CF-10-(2-12)	18 J	18.15	9.07	21 U	-5.46	14.15	23 U	-1.17	15.42	32 J	32.34	10.23	11 U	5.21	7.52	85 J	84.9	22.75
CF-12-(0-2)	71	70.66	13.11	22 U	-10.33	14.94	25 U	8.64	16.88	100	104.2	16.48	11 U	3.05	7.37	120 J	123.36	24.74
CF-12-(2-12)	29 J	28.74	11.38	25 U	-5.2	16.36	24 U	-15.58	16.33	17 U	14.86	11.23	14 U	5.91	9.08	98 J	97.66	27.28
CF-14-(0-2)	15 J	15.25	6.61	14 U	-4.5	9.36	17 U	7.62	11.51	11 J	11.22	6.4	7 U	-1.6	4.58	99	98.99	16.88
CF-14-(2-12)	11 J	11.23	7.28	16 U	-17.16	10.34	21 U	9.62	13.78	29 J	29.32	8.28	9 U	2.74	5.91	81 J	81.36	19

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation

Table 1 - Soil Quality Data - XRF

Station	Lead			Gold			Platinum			Arsenic			Mercury			Zinc		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
CF-15-(0-2)	38 J	37.67	11	23 U	-8	15.26	27 U	16.56	18.23	85	85.41	14.46	11 U	0.33	7.45	120 J	119.49	25.22
CF-15-(2-12)	43 J	43.4	11.37	23 U	-9.5	15.06	25 U	5.13	16.68	91	90.7	14.87	12 U	4.99	7.67	160	163.69	27.05
CF-16-(0-2)	9 U	8.43	6.15	15 U	-5.64	9.76	19 U	15.8	12.6	23 J	22.78	6.75	7 U	-0.88	4.73	140	137.52	18.87
CF-16-(2-12)	13 U	7.84	8.51	23 U	4.51	15.39	26 U	4.39	17.38	15 J	14.75	8.7	11 U	-7.68	7.22	61 J	60.91	22.74
CF-17-(0-2)	7 U	0.23	4.82	11 U	-15.51	7.35	16 U	11.42	10.57	19 J	18.89	5.3	6 U	0.32	4.11	97	96.98	15.3
CF-17-(2-12)	8 J	8.3	5.1	11 U	-6.22	7.33	13 U	2.86	8.83	13 J	12.72	5.04	6 U	0.1	3.65	62	62.03	12.39
CF-18-(0-2)	7 U	2.53	4.69	12 U	0.57	7.93	13 U	-1.13	8.66	17 J	17.04	4.99	5 U	-4.11	3.48	55 J	55.02	12.21
CF-18-(2-12)	10 U	6.44	6.74	18 U	-3.34	11.94	22 U	16.4	14.54	13 J	12.79	6.75	9 U	8.92	6.25	82 J	81.55	18.65
CF-19-(0-2)	51 J	50.77	11.69	22 U	-13.29	14.54	25 U	11.3	16.96	100	102.69	15.46	11 U	4.38	7.4	170	169.9	26.91
CF-19-(2-12)	53 J	53.09	13.22	27 U	-0.02	18.05	30 U	10.68	19.92	88	87.61	16.6	13 U	-0.18	8.59	170	169.86	30.79
CF-20-(0-2)	37 J	36.91	8.49	16 U	-3.72	10.97	19 U	12.46	12.78	56	56.07	10.17	8 U	3.34	5.21	110	109.82	18.11
CF-20-(2-12)	17 J	17.41	7.74	15 U	-13.14	10.23	18 U	-3.51	12.03	23 J	22.55	8.21	9 U	1.42	5.74	100	102.85	19.68
CF-25-(0-2)	25 J	25.07	8.4	17 U	-10.8	11.21	21 U	13.35	14.23	33 J	33.49	9.35	9 U	3.06	5.89	91 J	90.54	19.26
CF-25-(2-12)	8 J	8.04	5.01	12 U	1.57	7.9	13 U	-0.37	8.49	19 J	18.96	5.31	5 U	-2.37	3.48	29 J	28.81	10.55
CF-28-(0-2)	13 J	12.92	6.47	14 U	-4.38	9.5	18 U	7.96	11.68	16 J	16.09	6.59	7 U	-2.71	4.58	160	156.69	19.51
CF-28-(2-12)	44 J	43.63	11.28	24 U	2.99	16.13	24 U	1	16.33	120	121.83	16.08	11 U	-4.9	7.01	110 J	107.44	24.18
CF-27-(0-2)	17 J	17.44	7.06	15 U	-2.9	10.01	16 U	-7.19	10.39	25 J	25.04	7.64	7 U	-1.25	4.92	130	134.33	19.2
CF-27-(0-2F)	13 J	13.36	6.46	15 U	0.43	10.06	18 U	10.07	11.84	22 J	22.08	6.93	7 U	-0.95	4.64	150	146.74	18.75
CF-27-(2-12)	23 J	22.83	9.94	23 U	-3.22	15.09	25 U	0.74	16.71	27 J	27.02	10.68	12 U	2.06	7.83	79 J	78.66	23.64
CF-29-(0-2)	6 U	2.97	4.15	9 U	-6.62	6.14	11 U	1.02	7.46	15 J	14.55	4.26	4 U	-2.11	2.93	34 J	34.11	9.58
CF-29-(2-12)	22 J	22.4	8.38	17 U	-8.94	11.61	21 U	5.66	13.82	42 J	41.86	9.86	9 U	0.14	5.92	75 J	75.26	19.05
CS-1-(0-2)	200	204.15	26.02	39 U	12.01	26.21	84 J	83.61	34.44	37 U	26.35	24.91	19 U	10.56	12.53	1,100	1104.5	71.97
CS-1-(2-12)	39 J	38.91	11.53	27 U	15.86	18.17	30 U	18.46	19.89	42 J	42.18	12.9	12 U	0.31	8.13	290	290.84	34.14
CS-2-(0-2)	100	104.97	18.63	36 U	15.75	23.97	72 J	71.57	30.39	42 J	42.45	19.11	17 U	11.77	11.28	790	793.08	58.25
CS-2-(2-12)	28 J	28	8.12	15 U	-6.46	10.3	19 U	8.33	12.7	21 J	20.96	8.31	8 U	-1.34	5.15	190	185.14	21.86
CS-3-(0-2)	28 J	27.83	11.15	26 U	2.05	17.01	29 U	4.01	19.01	16 U	9.7	10.64	13 U	-0.27	8.66	130 J	130.39	28.84
CS-3-(2-12)	22 J	21.62	10.23	24 U	-1.49	16.07	26 U	-2.91	17.16	14 U	6.91	9.62	13 U	7.66	8.71	69 J	69.27	24.41
CS-4-(0-2)	230	227.61	26.86	36 U	-14.09	23.91	110 J	109.12	35.86	38 U	23.96	25.54	20 J	20.1	12.74	1,700	1675.24	84.72
CS-4-(2-12)	190	188.24	19.79	25 U	-1.51	16.57	45 J	45.06	21.86	28 U	21.41	18.8	12 U	4.67	7.98	690	690.27	45.58
CS-5-(0-2)	69 J	69.09	16.79	36 U	7.64	23.89	61 J	60.57	30.62	26 J	26.11	16.85	18 U	11.24	12.03	1,400	1363.95	76.48
CS-5-(2-12)	42 J	42.15	12.7	28 U	10.34	18.97	32 U	12.63	21.02	22 J	21.92	12.85	14 U	0.14	9.08	280	278.57	36.56
CS-6-(0-2)	40 J	39.55	12.57	29 U	15.59	19.46	31 U	7.44	20.61	20 J	19.99	12.64	14 U	-1.58	9.03	230	230.16	34.67
CS-6-(2-12)	22 J	21.62	10.88	27 U	3.04	18	30 U	6.7	19.93	17 J	16.54	10.95	14 U	4.82	9.21	73 J	72.99	26.18
Slag	21 U	8.38	14.24	53 U	47.1	35.25	58 U	40.38	38.67	19 U	-1.92	12.58	25 U	1.89	16.38	210 J	209.86	50.27
< DL	22			142			102			80			143			0		
J-Qualified	114			3			43			57			2			25		
Detected	10			1			1			9			1			121		

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation

Table 1 - Soil Quality Data - XRF

Station	Copper			Nickel			Cobalt			Iron			Manganese			Chromium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-1-1-(0-2)	25 J	25.3	16.7	56 U	9.46	37.55	140 U	44.06	94.12	10,000	9991.34	250.32	95 J	95.2	61.38	73 U	62.46	48.57
RM-1-1-(2-12)	58 J	57.51	28.75	90 U	67.42	60.01	180 U	-42.46	120.14	9,400	9402.17	327.23	140 U	125.2	92.08	250 J	252.57	86.63
RM-1-2-(0-2)	130 J	129.84	29.56	79 U	74.99	52.91	180 U	-9.78	119.08	11,000	11418.45	321.79	160 J	163.61	84.73	150 J	145.6	69.16
RM-1-2-(2-12)	67 J	66.88	33.41	100 U	60.56	67.93	230 U	-44.11	155.76	14,000	13514.94	424.76	240 J	240.7	120.22	470 J	465.02	115.65
RM-1-3-(0-2)	26 J	26.23	14.21	45 U	-20.1	30.32	110 U	-5.02	75.68	8,300	8279.59	204.05	98 J	97.71	52.53	57 U	10.03	37.72
RM-1-3-(2-12)	32 J	32.49	20.86	67 U	7.32	44.49	160 U	-11.41	104.52	9,700	9713.91	282.52	180 J	176.91	78.53	100 J	104.15	60.27
RM-1-4-(0-2)	29 J	29.17	15.32	49 U	-13.81	32.72	140 U	-31.56	91.26	11,000	11396.85	248.94	170 J	166.84	62.65	66 U	47.87	44.32
RM-1-4-(2-12)	60 J	60.46	27.02	80 U	25.5	53.32	180 U	-86.63	119.63	11,000	10682.84	330.6	210 J	205.76	94.06	200 J	201.7	78.38
RM-1-5-(0-2)	100 J	99.54	39.92	120 J	119.78	79.04	200 U	-43.42	133.51	8,300	8300.3	362.28	180 U	157.4	118.89	510 J	508.9	126.61
RM-1-5-(0-2F)	93 J	92.9	50.13	190 J	185.22	104.44	240 U	31.13	157.43	7,800	7764.69	413.15	200 U	62.17	133.09	590 J	586.4	157.38
RM-1-5-(2-12)	89 J	88.9	43.11	150 J	145.24	88.68	200 U	43.06	134.05	6,600	6642.44	348.7	180 U	80.41	116.79	470 J	469.59	131.37
RM-1-6-(0-2)	75 J	75.4	32.14	94 U	33.39	62.45	250 U	-73.05	165.86	17,000	17082.23	455.39	370 J	372.15	122.71	190 J	192.25	89.09
RM-1-6-(2-12)	52 J	52.48	30.47	97 U	72.64	64.69	230 U	-69.05	151.32	14,000	14134.37	415.18	270 J	267.02	112.82	230 J	230.79	91.09
RM-2-1-(0-2)	99 J	99.3	36.78	107 U	78.31	71.47	230 U	117.69	151.42	11,000	11194	394.6	220 J	215.86	115.61	320 J	323.74	104.79
RM-2-1-(2-12)	55 U	39.93	36.89	120 U	37.53	77.45	180 U	84.1	123.22	5,500	5546.55	312.48	170 U	157.18	116.02	310 J	313.66	111.94
RM-2-2-(0-2)	99 J	99.45	41.08	210 J	214.77	87.24	200 U	-0.8	133.08	7,700	7654.25	354.5	170 U	85.23	113.28	510 J	514.44	129.06
RM-2-2-(2-12)	89 J	88.7	37.94	120 J	118.38	77.03	220 U	-33.2	149.64	11,000	11039	406	240 J	241.11	126.7	530 J	533.24	126.88
RM-2-3-(0-2)	74 J	73.76	36.91	120 U	115.49	77.15	210 U	49.73	138.46	8,800	8752.7	364.23	230 J	225.42	119.48	340 J	341.61	109.55
RM-2-3-(2-12)	54 U	48.99	36.05	120 U	73.45	76.71	210 U	61.98	139.91	8,400	8385.49	365.78	170 U	113.14	111.1	360 J	358.78	113.79
RM-2-4-(0-2)	64 J	64.49	36.82	114 U	77.91	75.88	220 U	-19.83	143.99	9,700	9658.87	388.57	180 J	180.56	118.06	350 J	351.81	112.89
RM-2-4-(2-12)	58 J	58.02	37.91	120 U	74.14	79.09	230 U	30.94	151.09	9,700	9731.11	401.21	220 J	223.06	126.65	370 J	365.37	117.59
RM-2-5-(0-2)	70 J	70.22	39.94	120 U	78.41	80.79	200 U	0.66	132.31	7,200	7151.09	351.6	190 J	185.33	123.05	380 J	384.84	120.37
RM-2-5-(0-2F)	110 J	109.77	43.21	140 J	138.28	85.43	220 U	32.85	143.88	8,400	8442.87	379.3	180 U	148.35	123	480 J	479.63	129.65
RM-2-5-(2-12)	80 J	80.14	40.35	120 U	76.3	79.73	190 U	-21.63	126.91	6,800	6763.35	340.1	180 U	136.14	117.75	430 J	433.1	123.65
RM-2-6-(0-2)	100 J	104.62	42.77	180 J	180.4	87.94	200 U	31.47	136.65	7,500	7500.1	359.06	170 U	89.06	116.6	530 J	526.67	133.19
RM-2-6-(2-12)	59 J	59.13	34.61	120 J	120.86	75.28	230 U	39.83	153.75	12,000	11741.98	409.56	240 J	238.42	120.76	370 J	367.85	110.64
RM-3-1-(0-2)	48 J	47.82	24.03	76 U	46.68	50.71	160 U	-16.46	103.85	8,500	8478.95	280.31	110 U	35.01	71.45	180 J	180.61	70.91
RM-3-1-(2-12)	37 J	36.64	23.53	79 U	71.66	52.86	150 U	-6	101.3	7,800	7820.77	271.93	110 U	68.31	74.5	170 J	166.8	70.04
RM-3-2-(0-2)	62 J	61.78	35.8	110 U	70.75	73.44	190 U	-36.86	128.47	7,900	7901.58	347.85	160 U	126.67	109.18	350 J	350.68	109.97
RM-3-2-(2-12)	48 U	43.63	31.84	100 U	61.21	68.73	250 U	12.23	165.39	15,000	14743.18	445.89	350 J	354.95	125.62	170 J	171.85	90.28
RM-3-3-(0-2)	73 J	73.17	34.14	104 U	80.93	69.22	180 U	8.15	120.39	7,400	7431.57	319.97	150 U	103.34	98.61	280 J	280.15	97.51
RM-3-3-(2-12)	47 U	46.17	31.06	99 U	63.88	66.14	170 U	-0.23	110.85	6,500	6499.43	294.64	140 U	79.56	93.96	320 J	317.93	98.43
RM-3-4-(0-2)	75 J	74.97	31.61	110 J	110.94	65.94	170 U	36.23	113.47	7,200	7241.92	298.19	130 U	55.76	86.94	270 J	266.54	90.2
RM-3-4-(2-12)	69 J	68.7	33.91	110 J	114.16	71.66	200 U	4.55	131.75	9,100	9061.36	352.4	150 U	100.08	103.09	420 J	415.97	110.38
RM-3-5-(0-2)	49 J	49.2	31.86	102 U	78.95	67.99	170 U	-26.55	116.28	7,300	7255.32	313.31	150 U	81.5	96.73	350 J	354.17	103.09
RM-3-5-(2-12)	76 J	75.61	34.98	140 J	136.71	73.99	200 U	17.71	130.83	8,700	8687.48	348.04	260 J	256.07	117.56	370 J	367.35	107.19
RM-3-6-(0-2)	92 J	92	37.75	200 J	201.21	80.93	210 U	-23.08	141.14	9,900	9937.19	381.22	180 U	136.67	116.73	630 J	626.48	131.98
RM-3-6-(2-12)	66 J	66.31	32.68	110 J	109.91	70.18	270 U	-2.04	178.4	18,000	18263.56	483.65	370 J	367.78	129.72	370 J	367.32	107.55
RM-4-1-(0-2)	110 J	108.59	43.29	240 J	236.54	91.91	210 U	81.83	142.89	8,000	7962.37	369.52	180 U	108.38	120.77	580 J	577.65	137.8
RM-4-1-(2-12)	89 J	89.11	42.17	220 J	215.2	91.06	200 U	-32.03	136.59	7,800	7754.02	367.89	170 U	52.42	115.79	590 J	587.25	139.48
RM-4-2-(0-2)	98 J	97.68	40.33	170 J	171.8	83.53	200 U	34.86	131.7	7,400	7415.17	345.62	160 U	44.34	107.28	510 J	513.46	127.33
RM-4-2-(2-12)	110 J	109.02	42.63	200 J	200.76	87.84	190 U	-35.95	129.84	7,200	7241.53	350.15	170 U	55.54	111.27	510 J	512.82	130.56
RM-4-3-(0-2)	86 J	86.03	38.57	120 U	107.29	77.75	220 U	-38.17	144.52	10,000	9959.45	392.08	180 U	176.37	118.34	370 J	371.38	114.39
RM-4-3-(2-12)	56 J	56.46	36.98	120 U	77.22	77.66	210 U	74.8	137.44	7,900	7900.82	356.44	170 U	124.67	110.95	290 J	288.96	107.52
RM-4-4-(0-2)	56 U	53.6	37.5	121 U	96.24	80.43	200 U	99.21	132.88	6,900	6873.19	338.93	170 U	78.32	111.04	470 J	468.25	125.32
RM-4-4-(2-12)	76 J	75.89	38.96	130 J	133.95	81.9	200 U	48.4	134.81	7,600	7621.1	352.62	170 U	114.64	115.32	500 J	496.76	126.89
RM-4-5-(0-2)	110 J	106.63	38.55	150 J	152.79	77.49	220 U	-56.14	145.73	11,000	11019.38	397.48	160 U	84.06	107.26	420 J	424.89	115.64
RM-4-5-(2-12)	-- --	--	--	-- --	--	--	-- --	--	--	-- --	--	--	-- --	--	--	-- --	--	--
RM-4-6-(0-2)	89 J	89.32	35.98	110 J	111.48	72.62	210 U	-29.65	142.12	11,000	10677.79	385.11	160 U	99.33	105.64	410 J	413.68	112.15
RM-4-6-(2-12)	82 J	81.74	34.44	160 J	158.84	73.48	210 U	10.11	137.83	10,000	10247.84	368.89	150 U	52.57	98.69	450 J	445.55	111.9
RM-5-1-(0-2)	120 J	124.77	43.72	210 J	212.25	88.52	200 U	-42.62	135.43	8,000	8033.09	366.61	180 U	110.45	119.16	570 J	569.09	135.39
RM-5-1-(2-12)	95 J	94.51	40.88	200 J	196.96	86.34	200 U	36.32	134.29	7,600	7580.2	352.38	170 U	65.63	110.24	480 J	479.54	126.06
RM-5-2-(0-2)	100 J	104.8	43.04	190 J	193.29	89.34	210 U	38.55	138.3	7,600	7594.02	362.61	180 U	134.01	121.99	520 J	516.59	132.79
RM-5-2-(2-12)	100 J	99.57	40.65	160 J	161.62	83.41	190 U	42.4	129.17	7,000	6958.33	337.17	170 U	114.62	114.95	520 J	518.31	128.27
RM-5-3-(0-2)	120 J	117.72	43.49	190 J	187.87	87.73	200 U	-51.14	134.69	7,900	7856.74	365.76	170 U	35.33	113.18	620 J	616.65	140.22
RM-5-3-(2-12)	96 J	96	40.61	170 J	173.41	84.28	200 U	35.9	134.86	7,700	7719.1	354.3	170 U	73.72	115.28	670 J	666.65	140.71

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation

Table 1 - Soil Quality Data - XRF

Station	Copper			Nickel			Cobalt			Iron			Manganese			Chromium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-5-4-(0-2)	74 J	74.48	39.17	230 J	228.18	87.84	200 U	15.38	132.05	7,500	7469.19	349.08	170 U	70.07	110.8	500 J	500.46	127.46
RM-5-4-(2-12)	60 U	58.37	39.85	160 J	158.81	87.98	190 U	112.91	127.04	5,600	5594.36	317.32	170 U	74.23	113.43	480 J	484.89	130.23
RM-5-5-(0-2)	100 J	104.99	41.37	190 J	193.3	85.92	210 U	37.22	137.98	8,100	8087.64	363.09	170 U	100.19	114.34	480 J	484.64	126.49
RM-5-5-(2-12)	79 J	78.96	30.01	100 J	102.12	61.91	190 U	25.51	125.71	10,000	10117	335.36	140 U	110.33	92.64	360 J	355.05	94.67
RM-5-6-(0-2)	98 J	97.84	41.32	140 J	137.41	83.58	200 U	48.24	134.82	7,400	7406.22	351.92	170 U	72.42	112.85	520 J	518.47	130.5
RM-5-6-(2-12)	86 J	86.28	40.05	170 J	170.13	84.36	200 U	-15.06	131.43	7,500	7536.66	351.93	170 U	108.1	116.5	560 J	557.57	132.47
RM-6-1-(0-2)	92 J	92.14	31.7	90 U	27.85	60.28	300 U	-82.32	203.07	27,000	27395.76	558.11	600 J	603.92	138.68	110 U	37.84	75.73
RM-6-1-(2-12)	120 J	116.92	33.7	96 U	58.41	63.9	330 U	66.37	220.61	31,000	31069.65	596.65	730 J	733.45	149.44	120 U	27.38	77.09
RM-6-2-(0-2)	110 J	112.67	41.01	117 U	93.8	78.11	190 U	45.34	128.62	7,000	6996.9	335.57	170 U	172.84	115.81	330 J	334.73	111.1
RM-6-2-(2-12)	57 U	51.88	37.97	160 J	163.5	85.18	180 U	46.23	118.44	5,400	5378.89	305.04	190 J	192.17	119.33	330 J	334.56	113.16
RM-6-3-(0-2)	150 J	145.32	43.88	230 J	225.17	87.54	240 U	30.94	160.84	12,000	11660.55	428.75	190 U	155.81	129.68	810	811.5	152.16
RM-6-3-(2-12)	140 J	135.48	42.33	270 J	272.38	87.73	230 U	-75.13	150.45	11,000	11207.22	412.74	210 J	214.82	131.48	790	787.42	147.43
RM-6-4-(0-2)	180 J	178.93	44.71	170 J	171.99	81.95	270 U	20.21	181.51	16,000	16088.22	488.33	240 J	239.5	131.56	530 J	534.4	129.69
RM-6-4-(2-12)	140 J	137.28	44.48	210 J	207.53	88.2	280 U	-64.66	187.02	16,000	16375.97	511.29	200 U	162.68	132.55	640 J	636.2	143.18
RM-6-5-(0-2)	130 J	127.83	44.5	150 J	148.88	85.93	220 U	-46.41	147.88	9,500	9499.07	401.41	180 U	82.47	122.22	690 J	686.76	147.17
RM-6-5-(2-12)	71 J	71.02	37.79	160 J	156.14	81.89	240 U	119.53	157.03	11,000	10839.98	407.77	180 U	124.52	117.75	530 J	529.78	128.53
RM-6-6-(0-2)	86 J	85.82	38.95	150 J	152.22	81.21	220 U	-57.84	144.68	10,000	9993.69	394.87	180 U	151.89	121.24	570 J	571.2	132.25
RM-6-6-(2-12)	91 J	90.67	39.35	117 U	92.26	78.02	200 U	39.4	132.78	7,500	7547.4	348.43	170 U	95.49	113.72	560 J	557.09	130.95
RM-7-1-(0-2)	140 J	137.06	41.84	230 J	225.29	85.14	280 U	110.87	185.1	16,000	16222.66	489.64	200 U	122.96	130.21	980	984.54	160.85
RM-7-1-(2-12)	93 J	92.64	38.02	170 J	166.9	80.35	260 U	152.67	171.42	14,000	13676.79	446.88	190 U	139.29	124.57	810	807.89	146.93
RM-7-2-(0-2)	110 J	114.57	45.06	200 J	200.44	93.16	290 U	150.9	192.52	15,000	14624.02	502.68	210 U	18.16	136.73	1,300	1261.48	191.66
RM-7-2-(2-12)	83 J	83.13	40.4	160 J	156.68	84.92	220 U	37.96	145.82	9,000	8956.1	384.77	190 U	112.22	123.93	740 J	740.72	148.73
RM-7-3-(0-2)	130 J	131.46	37.01	230 J	232.92	76.2	260 U	-18.47	175.87	18,000	18391.06	477.77	180 U	144.14	122.08	990	992.83	148.4
RM-7-3-(2-12)	90 J	89.57	29.31	160 J	160.25	62.47	220 U	40.02	149.44	16,000	15957.22	401.19	140 U	71.97	95.51	650	646.49	112.67
RM-7-4-(0-2)	110 J	110.06	41.47	370 J	365.74	94.43	250 U	-34.17	166.98	13,000	13458.57	452.86	170 U	-0.7	115.35	840	835.62	152.62
RM-7-4-(2-12)	93 J	92.52	38.24	150 J	150.98	78.6	200 U	-28.21	131.48	8,400	8353.82	354.65	150 U	36.75	102.56	470 J	469.29	120.25
RM-7-5-(0-2)	67 J	67.27	39.16	230 J	229.49	88.9	230 U	-37.31	150.16	10,000	10150.38	406.93	190 U	119.26	124.53	710 J	710.24	146.39
RM-7-5-(2-12)	110 J	110.15	43.55	300 J	295.28	95.32	240 U	20.76	157.17	10,000	10403.64	418.51	180 U	73.69	121.95	690 J	685.15	147.17
RM-7-6-(0-2)	140 J	139.1	42.51	220 J	217.19	85.46	230 U	155.67	150.53	9,600	9636.47	384.4	170 U	33.49	114.27	830	830.56	150.06
RM-7-6-(2-12)	74 J	74.32	38.56	280 J	279.56	88.87	200 U	-108.54	135.59	9,100	9053.33	376.28	180 U	73.87	118.08	800	800.42	149.01
RM-8-1-(0-2)	200 J	202.09	49.82	290 J	289.58	96.81	380 U	57.1	251	28,000	27984.68	677.34	260 U	211.94	174.06	2,000	1998.96	231.71
RM-8-1-(2-12)	100 J	100.18	39.81	110 U	61.42	75.79	240 U	110.44	159.74	11,000	11280.2	416.61	180 U	124.5	118.42	530 J	532.99	129.22
RM-8-2-(0-2)	210	213.2	40.85	170 J	167.61	72.22	320 U	114.06	214.35	28,000	27738.03	575.43	540 J	543.68	153.3	1,000	1016.71	149.86
RM-8-2-(2-12)	40 U	27.59	26.97	92 U	43.54	61.5	320 U	-134.17	216.04	31,000	31434.07	596.62	440 J	438.79	134.46	320 J	315.92	102.19
RM-8-3-(0-2)	200 J	197.33	46.79	210 J	206.97	87.81	380 U	228.25	250.01	29,000	29102.89	662.76	230 U	225.13	154.01	1,200	1159.16	178.38
RM-8-3-(2-12)	690	685.74	88.27	800	800.66	155.05	910 U	726.58	605.7	120,000	124276.98	1624.1	550 U	289.47	368.97	10,000	10158.93	574.42
RM-8-4-(0-2)	280 J	275.6	58.73	510 J	508.33	117.71	460 U	184.75	308.21	38,000	37689.05	825.48	310 U	252.57	206.18	2,800	2758.34	283.01
RM-8-4-(2-12)	88 J	87.68	39.55	170 J	169.63	82.62	270 U	-158.31	179.26	16,000	16336.48	499.63	200 U	110.38	130.84	940	938.9	160.96
RM-8-5-(0-2)	250 J	249.49	54.55	390 J	388.12	105.68	400 U	115.49	265.02	30,000	29859.03	710.89	270 U	182.27	179.86	2,200	2180.57	245.33
RM-8-5-(2-12)	85 J	84.86	38.6	110 U	59.24	74.35	220 U	-86.76	147.77	11,000	10823.99	406.39	160 U	72.95	109.56	410 J	414.62	118.71
RM-8-6-(0-2)	750	752.54	93.95	990	986.22	167.97	970 U	478.48	644.1	140,000	136715.42	1740.73	720 J	718.66	409.73	11,000	10971.66	609.96
RM-8-6-(2-12)	870	873.28	102.59	1,100	1062.99	176.74	1,100 U	-177.38	725.05	170,000	169317.28	1989.79	680 U	487.79	451.53	14,000	13784.89	700.91
CF-4-(0-2)	32 J	32.08	16.26	53 U	1.51	35.22	150 U	-19.57	101.47	13,000	13216.1	276.08	200 J	204.1	68.53	71 U	57.78	47.52
CF-4-(2-12)	65 J	65.06	23.47	67 U	-21.03	44.78	210 U	78.61	137.15	16,000	16177.34	366.3	510 J	511.26	105.85	86 U	34.05	57.63
CF-6-(0-2)	88 J	88.43	32.37	96 U	73.94	63.87	200 U	85.54	132.35	9,900	9938.75	346.44	150 U	133.53	100.77	440 J	440.4	105.75
CF-6-(2-12)	80 J	79.71	27.41	110 J	107.08	56.85	190 U	-14.87	123.86	12,000	11600.77	335.5	270 J	267.02	98.21	270 J	268	82.12
CF-8-(0-2)	56 J	56.12	25.66	78 U	2.75	51.87	240 U	38.49	162.78	20,000	20003.61	439.31	470 J	474.47	114.62	96 U	25.79	64.08
CF-8-(2-12)	53 J	53.42	25.8	83 U	57.31	55.6	240 U	26.17	161.63	20,000	19572.92	436.99	530 J	530.8	119.99	110 J	114.6	73.07
CF-9-(0-2)	29 J	28.6	14.08	46 U	-2.65	30.69	130 U	-49.89	85.86	12,000	11511.73	235.47	100 J	101.88	53.9	58 U	11.1	38.41
CF-9-(2-12)	18 J	17.51	11.09	35 U	-50.16	23.61	89 U	43.9	59.02	6,300	6272.2	154.82	57 U	23.45	37.79	40 U	-39.42	26.96
CF-10-(0-2)	47 J	46.63	23.36	73 U	0.96	48.63	240 U	69.65	157.14	20,000	20232.54	422.15	400 J	401.53	105.74	101 U	95.11	67.48
CF-10-(2-12)	30 U	4.88	19.83	69 U	-22.84	46.23	230 U	10.65	151.96	19,000	19476.15	411.91	320 J	319.92	98.72	96 U	68.99	64.17
CF-12-(0-2)	130 J	131.14	28.58	73 U	2.3	48.46	220 U	144.48	145.11	17,000	16802.96	382.85	250 J	253.3	91.59	87 U	20.06	58.21
CF-12-(2-12)	41 J	40.62	26.58	85 U	-1.59	56.41	270 U	142.96	177.97	21,000	20817.63	473.01	570 J	574.53	129.13	110 U	60.11	72.37
CF-14-(0-2)	22 U	16.73	14.61	51 U	-2.18	34.09	150 U	54.13	100.03	13,000	13070.02	267.35	210 J	207.54	66.33	65 U	29	43.65
CF-14-(2-12)	30 J	29.97	18.51	63 U	38.5	42.26	170 U	-18.98	116.2	14,000	14407.8	316.09	210 J	205.53	76.07	76 U	28.82	50.52

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation

Table 1 - Soil Quality Data - XRF

Station	Copper			Nickel			Cobalt			Iron			Manganese			Chromium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
CF-15-(0-2)	88 J	88.46	26.63	73 U	-16.37	48.56	240 U	91.07	157.44	20,000	19625.16	421.24	450 J	451.38	109.47	96 U	50.97	64.1
CF-15-(2-12)	83 J	82.84	26.07	74 U	7.46	49.24	230 U	42.09	151.2	19,000	18589.86	407.41	420 J	420.91	106.58	99 U	83.42	66.19
CF-16-(0-2)	31 J	30.72	15.78	49 U	-25.51	32.88	160 U	-89.79	106.7	16,000	15601.28	294.93	150 J	147.89	64.42	66 U	11.51	43.71
CF-16-(2-12)	32 U	8.71	21.63	77 U	12.43	51.44	240 U	-11.83	159.69	20,000	19991.6	434.53	460 J	458.39	112.8	100 U	60.9	66.81
CF-17-(0-2)	25 J	24.53	13.67	44 U	-24.23	29.63	130 U	32.34	87.38	12,000	11515.59	234.2	78 U	77.22	52.18	60 U	29.91	39.77
CF-17-(2-12)	24 J	23.84	12.3	40 U	-24.66	26.64	110 U	10.39	72.19	9,100	9089.21	193.93	65 U	33.04	43.08	49 U	-4.56	32.95
CF-18-(0-2)	17 U	6.54	11.27	39 U	-46.48	25.88	110 U	11.82	72.23	8,900	8874.09	193.94	150 J	150.38	51.16	46 U	-33.61	30.73
CF-18-(2-12)	25 U	13.51	16.86	60 U	7.24	39.68	170 U	-24.56	113.52	14,000	14169.07	309.22	250 J	250.17	78	75 U	35.37	50.31
CF-19-(0-2)	170	169.48	30.52	69 U	-22.13	46.3	230 U	21.36	154.76	20,000	20346.86	419.14	600	596.97	114.9	82 U	-28.91	54.61
CF-19-(2-12)	130 J	127.6	32.18	84 U	3.44	56.25	300 U	127.09	198.16	27,000	26984.51	531.1	530 J	529.28	128.33	110 U	71.74	75.34
CF-20-(0-2)	80 J	80.17	19.25	49 U	-49.21	32.66	140 U	56.27	94.73	11,000	10821.26	251.67	150 J	148.8	63.2	66 U	26.19	44.06
CF-20-(2-12)	25 U	12.93	16.91	60 U	9.53	40.09	160 U	18.85	109.35	13,000	12724.15	294.42	220 J	218.4	75.71	79 U	64.36	52.54
CF-25-(0-2)	48 J	48	19.46	61 U	1.18	40.38	180 U	117.51	120.66	15,000	14959.31	319.03	280 J	278.65	80.44	100 U	9.67	48.59
CF-25-(2-12)	17 U	15.78	11.49	36 U	-62.36	24.01	99 U	8.47	65.83	7,600	7645.54	176.41	62 U	38.49	41.38	43 U	-39.89	28.67
CF-28-(0-2)	36 J	35.6	16.07	51 U	-10.58	34.26	160 U	89.9	106.67	15,000	14506.93	283.49	140 J	142.68	64.23	79 J	78.5	48.7
CF-28-(2-12)	90 J	89.55	26.24	71 U	-16.05	47.23	220 U	15.47	149.29	18,000	18485.01	404.17	480 J	482.83	109.48	95 U	57.87	63.34
CF-27-(0-2)	23 U	18.45	15.54	55 U	9.26	36.43	150 U	74.45	100.59	12,000	12093.84	266.86	190 J	189.66	67.69	72 U	62.5	47.98
CF-27-(0-2F)	49 J	48.62	16.62	49 U	-15.89	32.98	130 U	58.02	88.1	10,000	9955.34	233.4	140 J	141.41	60.7	80 J	80.26	46.61
CF-27-(2-12)	35 U	30.13	23.12	74 U	-20.97	49.04	230 U	42.63	154.36	18,000	18400.39	415.97	570 J	571.76	117.92	91 U	12.18	60.75
CF-29-(0-2)	14 U	6.81	9.62	33 U	-54.13	22.14	99 U	61.22	65.79	8,900	8887.56	173.66	60 U	55.41	39.96	43 U	-14.15	28.72
CF-29-(2-12)	49 J	48.8	20.11	63 U	11.75	41.99	180 U	69.97	121.76	15,000	14880.82	325.02	260 J	263.64	81.48	77 U	25.7	51.32
CS-1-(0-2)	120 J	120.73	39.9	110 U	12.9	71.99	370 U	58.48	249.22	32,000	31644.76	673.94	390 J	394.06	150.31	360 J	360.79	120.25
CS-1-(2-12)	59 J	59.08	26.14	81 U	27.03	53.85	260 U	12.41	175.45	23,000	23419.07	476.15	440 J	441.56	116.34	120 J	123.09	75.27
CS-2-(0-2)	74 J	74.45	33.3	100 U	54.9	67.54	300 U	56.48	201.98	23,000	23317.08	544.02	180 J	180.79	115.82	230 J	230.7	97.87
CS-2-(2-12)	24 U	18.72	16.16	56 U	9.37	37.04	140 U	-38.79	92.02	10,000	10134.72	251.2	87 U	64.46	58.09	67 U	22.07	44.77
CS-3-(0-2)	39 U	33.73	25.79	82 U	-17.04	54.44	270 U	70.07	178.92	22,000	21727.55	481	350 J	348.4	112.67	100 U	14.35	67.24
CS-3-(2-12)	35 U	18.51	23.43	78 U	-21.76	51.92	250 U	98.92	168.06	20,000	20068.65	449.19	370 J	368.5	109.65	97 U	16.09	64.41
CS-4-(0-2)	87 J	86.66	37.14	110 U	103.19	76.35	350 U	5.94	230.34	28,000	28075.52	625.41	300 J	302.63	138.52	340 J	343.65	115.77
CS-4-(2-12)	45 J	45.2	24.09	73 U	-17.21	48.87	230 U	60.41	153.96	19,000	18644.52	413.27	240 J	241.74	97.04	160 J	161.59	74.34
CS-5-(0-2)	150 J	149.25	40.64	110 J	113.26	73.56	250 U	-167.32	166.82	16,000	15685.94	466.66	170 U	128.41	112.16	330 J	330.15	108.11
CS-5-(2-12)	92 J	92.04	31.04	89 U	38.21	59.5	280 U	-24.25	186.36	23,000	23376.65	508.14	400 J	402.41	121.14	110 U	75.51	76.2
CS-6-(0-2)	41 U	38.56	27.37	92 U	52.59	61.49	310 U	34.68	205.78	28,000	28109.78	557.82	620 J	620.37	139.15	121 U	96.07	80.86
CS-6-(2-12)	37 U	13.49	24.76	86 U	20.51	57.3	260 U	-78.49	170.19	20,000	20030.57	467.94	460 J	459.44	122	110 U	62.67	72.79
Slag	68 U	59.51	45.45	130 U	-52.94	84.08	110 U	58.97	74.05	490 J	486.2	152.05	180 U	114.84	119.27	230 J	233.6	115.07
< DL	24			81			145			0			79			41		
J-Qualified	116			61			0			1			65			85		
Detected	6			4			1			145			2			20		

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation

Table 2

**Soil Quality Data - Confirmatory
XRF Pilot Test Program
Rhodia Silver Bow Plant**

SWMU ID	Raw Materials Area		Raw Materials Area		Raw Materials Area		Raw Materials Area		Raw Materials Area	
Station ID	RM-1-2-(0-2)		RM-1-2-(2-12)		RM-2-3-(0-2)		RM-2-3-(2-12)		RM-3-3-(0-2)	
Sample Date	9/13/2006		9/13/2006		9/13/2006		9/13/2006		9/13/2006	
Sample ID	RM-1-2-(0-2)		RM-1-2-(2-12)		RM-2-3-(0-2)		RM-2-3-(2-12)		RM-3-3-(0-2)	
Lab Name	Energy		Energy		Energy		Energy		Energy	
Lab ID	Preliminary		Preliminary		Preliminary		Preliminary		Preliminary	
Report	RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil	
Antimony	2 U	mg/kg	4	mg/kg	2	mg/kg	2 U	mg/kg	2	mg/kg
Arsenic	5	mg/kg	13	mg/kg	8	mg/kg	11	mg/kg	7	mg/kg
Barium	48	mg/kg	98	mg/kg	163	mg/kg	229	mg/kg	93	mg/kg
Beryllium	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Cadmium	15.8	mg/kg	74.1	mg/kg	15.6	mg/kg	5.6	mg/kg	43.8	mg/kg
Calcium	139000	mg/kg	145000	mg/kg	230000	mg/kg	223000	mg/kg	195000	mg/kg
Chromium	183	mg/kg	495	mg/kg	263	mg/kg	126	mg/kg	217	mg/kg
Cobalt	2 U	mg/kg	3	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Copper	44	mg/kg	77	mg/kg	41	mg/kg	24	mg/kg	36	mg/kg
Iron	5050	mg/kg	9440	mg/kg	4120	mg/kg	2930	mg/kg	3680	mg/kg
Lead	41	mg/kg	10	mg/kg	11	mg/kg	9	mg/kg	14	mg/kg
Magnesium	1550	mg/kg	2870	mg/kg	5480	mg/kg	4630	mg/kg	3080	mg/kg
Manganese	132	mg/kg	280	mg/kg	126	mg/kg	102	mg/kg	63	mg/kg
Mercury	0.1 U	mg/kg	0.3	mg/kg	0.1 U	mg/kg	0.1 U	mg/kg	0.1 U	mg/kg
Nickel	43	mg/kg	82	mg/kg	34	mg/kg	16	mg/kg	33	mg/kg
Potassium	120	mg/kg	3710	mg/kg	5370	mg/kg	6180	mg/kg	4730	mg/kg
Selenium	3 U	mg/kg	6	mg/kg	5	mg/kg	3 U	mg/kg	3 U	mg/kg
Silver	17.4	mg/kg	6.6	mg/kg	7.2	mg/kg	2.7	mg/kg	4.8	mg/kg
Sodium	745	mg/kg	2230	mg/kg	2670	mg/kg	1130	mg/kg	2170	mg/kg
Thallium	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Uranium	63	mg/kg	75	mg/kg	82	mg/kg	58	mg/kg	113	mg/kg
Vanadium	266	mg/kg	636	mg/kg	330	mg/kg	115	mg/kg	308	mg/kg
Zinc	1530	mg/kg	687	mg/kg	674	mg/kg	281	mg/kg	755	mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Pilot Test Program
Rhodia Silver Bow Plant**

SWMU ID	Raw Materials Area		Raw Materials Area		Raw Materials Area		Raw Materials Area	
Station ID	RM-3-3-(2-12)		RM-4-1-(0-2)		RM-4-1-(2-12)		RM-5-2-(0-2)	
Sample Date	9/13/2006		9/13/2006		9/13/2006		9/13/2006	
Sample ID	RM-3-3-(2-12)		RM-4-1-(0-2)		RM-4-1-(2-12)		RM-5-2-(0-2)	
Lab Name	Energy		Energy		Energy		Energy	
Lab ID	Preliminary		Preliminary		Preliminary		Preliminary	
Report	RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil	
Antimony	2 U	mg/kg	3	mg/kg	5	mg/kg	2 U	mg/kg
Arsenic	8	mg/kg	14	mg/kg	10	mg/kg	16	mg/kg
Barium	102	mg/kg	84	mg/kg	82	mg/kg	91	mg/kg
Beryllium	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Cadmium	46.6	mg/kg	125	mg/kg	125	mg/kg	123	mg/kg
Calcium	194000	mg/kg	244000	mg/kg	258000	mg/kg	250000	mg/kg
Chromium	294	mg/kg	581	mg/kg	568	mg/kg	719	mg/kg
Cobalt	2 U	mg/kg	3	mg/kg	2 U	mg/kg	2 U	mg/kg
Copper	68	mg/kg	104	mg/kg	101	mg/kg	116	mg/kg
Iron	5090	mg/kg	6730	mg/kg	5980	mg/kg	8080	mg/kg
Lead	13	mg/kg	10	mg/kg	9	mg/kg	11	mg/kg
Magnesium	2990	mg/kg	2930	mg/kg	1930	mg/kg	2100	mg/kg
Manganese	74	mg/kg	69	mg/kg	77	mg/kg	75	mg/kg
Mercury	0.1	mg/kg	0.3	mg/kg	0.4	mg/kg	0.4	mg/kg
Nickel	50	mg/kg	112	mg/kg	108	mg/kg	126	mg/kg
Potassium	4470	mg/kg	3650	mg/kg	3500	mg/kg	4390	mg/kg
Selenium	3 U	mg/kg	10	mg/kg	19	mg/kg	17	mg/kg
Silver	9.9	mg/kg	7	mg/kg	7.3	mg/kg	6.9	mg/kg
Sodium	2230	mg/kg	2340	mg/kg	2350	mg/kg	2320	mg/kg
Thallium	2	mg/kg	4	mg/kg	3 U	mg/kg	4	mg/kg
Uranium	114	mg/kg	152	mg/kg	148	mg/kg	143	mg/kg
Vanadium	343	mg/kg	802	mg/kg	737	mg/kg	952	mg/kg
Zinc	721	mg/kg	1330	mg/kg	1310	mg/kg	1360	mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Pilot Test Program
Rhodia Silver Bow Plant**

SWMU ID	Raw Materials Area		Raw Materials Area		Raw Materials Area		Raw Materials Area	
Station ID	RM-6-1-(0-2)		RM-6-1-(2-12)		RM-7-2-(0-2)		RM-7-2-(2-12)	
Sample Date	9/13/2006		9/13/2006		9/13/2006		9/13/2006	
Sample ID	RM-6-1-(0-2)		RM-6-1-(2-12)		RM-7-2-(0-2)		RM-7-2-(2-12)	
Lab Name	Energy		Energy		Energy		Energy	
Lab ID	Preliminary		Preliminary		Preliminary		Preliminary	
Report	RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil	
Antimony	2 U	mg/kg	2 U	mg/kg	7	mg/kg	5	mg/kg
Arsenic	26	mg/kg	23	mg/kg	17	mg/kg	15	mg/kg
Barium	132	mg/kg	107	mg/kg	136	mg/kg	148	mg/kg
Beryllium	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Cadmium	0.5 U	mg/kg	0.5 U	mg/kg	67.6	mg/kg	55.8	mg/kg
Calcium	3350	mg/kg	3500	mg/kg	218000	mg/kg	206000	mg/kg
Chromium	8	mg/kg	7	mg/kg	897	mg/kg	481	mg/kg
Cobalt	5	mg/kg	4	mg/kg	4	mg/kg	2 U	mg/kg
Copper	91	mg/kg	72	mg/kg	184	mg/kg	71	mg/kg
Iron	11500	mg/kg	10600	mg/kg	11900	mg/kg	6210	mg/kg
Lead	22	mg/kg	19	mg/kg	21	mg/kg	21	mg/kg
Magnesium	3080	mg/kg	2580	mg/kg	2430	mg/kg	2800	mg/kg
Manganese	361	mg/kg	318	mg/kg	112	mg/kg	83	mg/kg
Mercury	0.1 U	mg/kg	0.1 U	mg/kg	0.3	mg/kg	3	mg/kg
Nickel	6	mg/kg	5	mg/kg	160	mg/kg	75	mg/kg
Potassium	4130	mg/kg	2930	mg/kg	5010	mg/kg	4970	mg/kg
Selenium	2 U	mg/kg	2 U	mg/kg	6	mg/kg	6	mg/kg
Silver	0.5 U	mg/kg	0.5 U	mg/kg	22.7	mg/kg	12	mg/kg
Sodium	140	mg/kg	95	mg/kg	1710	mg/kg	1520	mg/kg
Thallium	2 U	mg/kg	2 U	mg/kg	3 U	mg/kg	2 U	mg/kg
Uranium	2	mg/kg	2	mg/kg	113	mg/kg	93	mg/kg
Vanadium	22	mg/kg	21	mg/kg	1160	mg/kg	583	mg/kg
Zinc	71	mg/kg	56	mg/kg	1300	mg/kg	1210	mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Pilot Test Program
Rhodia Silver Bow Plant**

SWMU ID	Raw Materials Area		Coke Fines Area		Coke Fines Area		Coke Fines Area		Coke Fines Area	
Station ID	RM-8-3-(2-12)		CF-14-(0-2)		CF-14-(2-12)		CF-16-(0-2)		CF-16-(2-12)	
Sample Date	9/13/2006		9/13/2006		9/13/2006		9/13/2006		9/13/2006	
Sample ID	RM-8-3-(2-12)		CF-14-(0-2)		CF-14-(2-12)		CF-16-(0-2)		CF-16-(2-12)	
Lab Name	Energy		Energy		Energy		Energy		Energy	
Lab ID	Preliminary		Preliminary		Preliminary		Preliminary		Preliminary	
Report	RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil	
Antimony	11	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Arsenic	11	mg/kg	5	mg/kg	10	mg/kg	10	mg/kg	3	mg/kg
Barium	94	mg/kg	42	mg/kg	75	mg/kg	48	mg/kg	140	mg/kg
Beryllium	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Cadmium	11.8	mg/kg	6.8	mg/kg	3.1	mg/kg	4.2	mg/kg	0.5 U	mg/kg
Calcium	98800	mg/kg	35100	mg/kg	14400	mg/kg	17000	mg/kg	4600	mg/kg
Chromium	2340	mg/kg	52	mg/kg	19	mg/kg	29	mg/kg	8	mg/kg
Cobalt	12	mg/kg	2 U	mg/kg	3	mg/kg	2	mg/kg	3	mg/kg
Copper	423	mg/kg	20	mg/kg	36	mg/kg	28	mg/kg	12	mg/kg
Iron	39700	mg/kg	7140	mg/kg	8860	mg/kg	10400	mg/kg	9860	mg/kg
Lead	422	mg/kg	11	mg/kg	11	mg/kg	8	mg/kg	5	mg/kg
Magnesium	1340	mg/kg	753	mg/kg	1760	mg/kg	811	mg/kg	2620	mg/kg
Manganese	236	mg/kg	235	mg/kg	225	mg/kg	133	mg/kg	220	mg/kg
Mercury	0.1	mg/kg	0.1 U	mg/kg	0.1 U	mg/kg	0.1 U	mg/kg	0.1 U	mg/kg
Nickel	437	mg/kg	12	mg/kg	7	mg/kg	10	mg/kg	6	mg/kg
Potassium	2410	mg/kg	756	mg/kg	1900	mg/kg	1280	mg/kg	2610	mg/kg
Selenium	3 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Silver	34.7	mg/kg	0.8	mg/kg	0.5 U	mg/kg	0.6	mg/kg	0.5 U	mg/kg
Sodium	1100	mg/kg	469	mg/kg	320	mg/kg	247	mg/kg	159	mg/kg
Thallium	2	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Uranium	51	mg/kg	17	mg/kg	8	mg/kg	10	mg/kg	2	mg/kg
Vanadium	2970	mg/kg	83	mg/kg	34	mg/kg	58	mg/kg	22	mg/kg
Zinc	419	mg/kg	92	mg/kg	64	mg/kg	83	mg/kg	29	mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Pilot Test Program
Rhodia Silver Bow Plant**

SWMU ID	Coke Fines Area		Coke Fines Area		Coal Stockpile Area		Coal Stockpile Area	
Station ID	CF-20-(0-2)		CF-20-(2-12)		CS-2-(0-2)		CS-2-(2-12)	
Sample Date	9/13/2006		9/13/2006		9/13/2006		9/13/2006	
Sample ID	CF-20-(0-2)		CF-20-(2-12)		CS-2-(0-2)		CS-2-(2-12)	
Lab Name	Energy		Energy		Energy		Energy	
Lab ID	Preliminary		Preliminary		Preliminary		Preliminary	
Report	RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil		RFI 2006 Soil	
Antimony	2 U	mg/kg	2 U	mg/kg	3	mg/kg	2 U	mg/kg
Arsenic	35	mg/kg	10	mg/kg	22	mg/kg	9	mg/kg
Barium	48	mg/kg	92	mg/kg	255	mg/kg	361	mg/kg
Beryllium	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Cadmium	4.8	mg/kg	2.6	mg/kg	49.1	mg/kg	7.4	mg/kg
Calcium	17300	mg/kg	14900	mg/kg	130000	mg/kg	53100	mg/kg
Chromium	33	mg/kg	25	mg/kg	174	mg/kg	43	mg/kg
Cobalt	2 U	mg/kg	3	mg/kg	4	mg/kg	2 U	mg/kg
Copper	65	mg/kg	25	mg/kg	67	mg/kg	26	mg/kg
Iron	5960	mg/kg	9710	mg/kg	17700	mg/kg	6940	mg/kg
Lead	28	mg/kg	10	mg/kg	140	mg/kg	21	mg/kg
Magnesium	689	mg/kg	1480	mg/kg	6190	mg/kg	1420	mg/kg
Manganese	118	mg/kg	276	mg/kg	265	mg/kg	77	mg/kg
Mercury	0.1 U	mg/kg	0.1 U	mg/kg	0.1 U	mg/kg	0.2	mg/kg
Nickel	8	mg/kg	8	mg/kg	28	mg/kg	7	mg/kg
Potassium	1120	mg/kg	1990	mg/kg	5170	mg/kg	1890	mg/kg
Selenium	2 U	mg/kg	2 U	mg/kg	16	mg/kg	2	mg/kg
Silver	0.8	mg/kg	0.5 U	mg/kg	3.7	mg/kg	0.8	mg/kg
Sodium	288	mg/kg	302	mg/kg	1470	mg/kg	499	mg/kg
Thallium	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg	2 U	mg/kg
Uranium	9	mg/kg	8	mg/kg	46	mg/kg	21	mg/kg
Vanadium	51	mg/kg	43	mg/kg	162	mg/kg	53	mg/kg
Zinc	97	mg/kg	70	mg/kg	588	mg/kg	90	mg/kg

Table 3

**XRF and Confirmatory Data
XRF Pilot Program
Rhodia Silver Bow Plant**

(concentrations in mg/Kg)

Station ID	Sample Date	Antimony		Arsenic		Cadmium		Chromium	
		XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory
RM-1-2-(0-2)	9/13/2006	71 U	2 U	18 U	5	32 U	15.8	150 J	183
RM-1-2-(2-12)	9/13/2006	94 U	4	18 U	13	44 J	74.1	470 J	495
RM-2-3-(0-2)	9/13/2006	100 U	2	21 U	8	44 U	15.6	340 J	263
RM-2-3-(2-12)	9/13/2006	100 U	2 U	19 U	11	44 U	5.6	360 J	126
RM-3-3-(0-2)	9/13/2006	93 U	2	19 U	7	41 U	43.8	280 J	217
RM-3-3-(2-12)	9/13/2006	92 U	2 U	19 U	8	41 U	46.6	320 J	294
RM-4-1-(0-2)	9/13/2006	110 U	3	20 U	14	100 Jj	125	580 J	581
RM-4-1-(2-12)	9/13/2006	110 U	5	21 U	10	120 Jj	125	590 J	568
RM-5-2-(0-2)	9/13/2006	111 U	2 U	21 U	16	110 J	123	520 J	719
RM-5-2-(2-12)	9/13/2006	110 U	4	20 U	12	96 J	107	520 J	574
RM-6-1-(0-2)	9/14/2006	86 U	2 U	52 J	26	38 U	0.5 U	110 U	8
RM-6-1-(2-12)	9/14/2006	87 U	2 U	43 J	23	38 U	0.5 U	120 U	7
RM-7-2-(0-2)	9/13/2006	110 U	7	25 U	17	68 J	67.6	1300	897
RM-7-2-(2-12)	9/13/2006	110 U	5	24 U	15	47 U	55.8	740 J	481
RM-8-3-(0-2)	9/14/2006	100 U	6	32 J	35	45 U	30.2	1200	633
RM-8-3-(2-12)	9/14/2006	130 U	11	30 U	11	55 U	11.8	10000	2340
CF-14-(0-2)	9/14/2006	52 U	2 U	11 J	5	23 U	6.8	65 U	52
CF-14-(2-12)	9/14/2006	61 U	2 U	29 J	10	27 U	3.1	76 U	19
CF-16-(0-2)	9/14/2006	53 U	2 U	23 J	10	24 U	4.2	66 U	29
CF-16-(2-12)	9/14/2006	77 U	2 U	15 J	3	33 U	0.5 U	100 U	8
CF-20-(0-2)	9/14/2006	54 U	2 U	56	35	24 U	4.8	66 U	33
CF-20-(2-12)	9/14/2006	61 U	2 U	23 J	10	27 U	2.6	79 79 U	25
CS-2-(0-2)	9/14/2006	91 U	3	42 J	22	41 U	49.1	230 J	174
CS-2-(2-12)	9/14/2006	56 U	2 U	21 J	9	25 U	7.4	67 U	43
Linear Equation Correlation Coefficient (R ²)				y = 0.66 X + -3.6 0.71		y = 0.85 X + 28 0.83		y = 0.60 X + 110 0.70	

Table 3

**XRF and Confirmatory Data
XRF Pilot Program
Rhodia Silver Bow Plant**

(concentrations in mg/Kg)

Station ID	Sample Date	Cobalt		Copper		Gold		Iron	
		XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory
RM-1-2-(0-2)	9/13/2006	180 U	2 U	130 J	44	24 U		11000	5050
RM-1-2-(2-12)	9/13/2006	230 U	3	67 J	77	34 U		14000	9440
RM-2-3-(0-2)	9/13/2006	210 U	2 U	74 J	41	36 U		8800	4120
RM-2-3-(2-12)	9/13/2006	210 U	2 U	54 U	24	35 U		8400	2930
RM-3-3-(0-2)	9/13/2006	180 U	2 U	73 J	36	34 U		7400	3680
RM-3-3-(2-12)	9/13/2006	170 U	2 U	47 U	68	33 U		6500	5090
RM-4-1-(0-2)	9/13/2006	210 U	3	110 J	104	42 U		8000	6730
RM-4-1-(2-12)	9/13/2006	200 U	2 U	89 J	101	42 U		7800	5980
RM-5-2-(0-2)	9/13/2006	210 U	2 U	100 J	116	44 U		7600	8080
RM-5-2-(2-12)	9/13/2006	190 U	4	100 J	99	39 U		7000	6690
RM-6-1-(0-2)	9/14/2006	300 U	5	92 J	91	27 U		27000	11500
RM-6-1-(2-12)	9/14/2006	330 U	4	120 J	72	27 U		31000	10600
RM-7-2-(0-2)	9/13/2006	290 U	4	110 J	184	45 U		15000	11900
RM-7-2-(2-12)	9/13/2006	220 U	2 U	83 J	71	39 U		9000	6210
RM-8-3-(0-2)	9/14/2006	380 U	3	200 J	116	46 J		29000	13400
RM-8-3-(2-12)	9/14/2006	910 U	12	690	423	57 U		120000	39700
CF-14-(0-2)	9/14/2006	150 U	2 U	22 U	20	14 U		13000	7140
CF-14-(2-12)	9/14/2006	170 U	3	30 J	36	16 U		14000	8860
CF-16-(0-2)	9/14/2006	160 U	2	31 J	28	15 U		16000	10400
CF-16-(2-12)	9/14/2006	240 U	3	32 U	12	23 U		20000	9860
CF-20-(0-2)	9/14/2006	140 U	2 U	80 J	65	16 U		11000	5960
CF-20-(2-12)	9/14/2006	160 U	3	25 U	25	15 U		13000	9710
CS-2-(0-2)	9/14/2006	300 U	4	74 J	67	36 U		23000	17700
CS-2-(2-12)	9/14/2006	140 U	2 U	24 U	26	15 U		10000	6940
Linear Equation Correlation Coefficient (R ²)				y = 0.57 X + 27 0.87				y = 0.30 X + 4000 0.91	

Table 3

**XRF and Confirmatory Data
XRF Pilot Program
Rhodia Silver Bow Plant**

(concentrations in mg/Kg)

Station ID	Sample Date	Lead		Manganese		Mercury		Nickel	
		XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory
RM-1-2-(0-2)	9/13/2006	61 J	41	160 J	132	12 U	0.1 U	79 U	43
RM-1-2-(2-12)	9/13/2006	19 J	10	240 J	280	16 U	0.3	100 U	82
RM-2-3-(0-2)	9/13/2006	33 J	11	230 J	126	19 U	0.1 U	120 U	34
RM-2-3-(2-12)	9/13/2006	20 J	9	170 U	102	19 U	0.1 U	120 U	16
RM-3-3-(0-2)	9/13/2006	37 J	14	150 U	63	17 U	0.1 U	104 U	33
RM-3-3-(2-12)	9/13/2006	46 J	13	140 U	74	15 U	0.1	99 U	50
RM-4-1-(0-2)	9/13/2006	22 J	10	180 U	69	20 U	0.3	240 J	112
RM-4-1-(2-12)	9/13/2006	24 J	9	170 U	77	21 U	0.4	220 J	108
RM-5-2-(0-2)	9/13/2006	26 J	11	180 U	75	20 U	0.4	190 J	126
RM-5-2-(2-12)	9/13/2006	24 J	10	170 U	99	19 U	0.4	160 J	112
RM-6-1-(0-2)	9/14/2006	41 J	22	600 J	361	15 U	0.1 U	90 U	6
RM-6-1-(2-12)	9/14/2006	52 J	19	730 J	318	14 U	0.1 U	96 U	5
RM-7-2-(0-2)	9/13/2006	49 J	21	210 U	112	21 U	0.3	200 J	160
RM-7-2-(2-12)	9/13/2006	50 J	21	190 U	83	20 U	3	160 J	75
RM-8-3-(0-2)	9/14/2006	76 J	42	230 U	167	20 U	0.2	210 J	88
RM-8-3-(2-12)	9/14/2006	53 J	423	550 U	236	27 U	0.1	800	437
CF-14-(0-2)	9/14/2006	15 J	11	210 J	235	7 U	0.1 U	51 51 U	12
CF-14-(2-12)	9/14/2006	11 J	11	210 J	225	9 U	0.1 U	63 63 U	7
CF-16-(0-2)	9/14/2006	9 U	8	150 J	133	7 U	0.1 U	49 49 U	10
CF-16-(2-12)	9/14/2006	13 U	5	460 J	220	11 U	0.1 U	77 77 U	6
CF-20-(0-2)	9/14/2006	37 J	28	150 J	118	8 U	0.1 U	49 49 U	8
CF-20-(2-12)	9/14/2006	17 J	10	220 J	276	9 U	0.1 U	60 60 U	8
CS-2-(0-2)	9/14/2006	100	140	180 J	265	17 U	0.1 U	100 100 U	28
CS-2-(2-12)	9/14/2006	28 J	21	87 U	77	8 U	0.2	56 56 U	7
Linear Equation Correlation Coefficient (R ²)		y = 1.08 X - 0.69 17		y = 0.28 X + 0.46 140				y = 0.58 X - 0.96 16	

Table 3

**XRF and Confirmatory Data
XRF Pilot Program
Rhodia Silver Bow Plant**

(concentrations in mg/Kg)

Station ID	Sample Date	Platinum		Rubidium		Silver		Strontium	
		XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory
RM-1-2-(0-2)	9/13/2006	28 U		26		28 U	17.4	340	
RM-1-2-(2-12)	9/13/2006	45 J		54		37 U	6.6	520	
RM-2-3-(0-2)	9/13/2006	39 U		41		40 U	7.2	670	
RM-2-3-(2-12)	9/13/2006	44 U		32		41 U	2.7	700	
RM-3-3-(0-2)	9/13/2006	38 U		37		37 U	4.8	580	
RM-3-3-(2-12)	9/13/2006	38 U		34		36 U	9.9	540	
RM-4-1-(0-2)	9/13/2006	58 J		43 j		53 J	7	730	
RM-4-1-(2-12)	9/13/2006	48 U		42 j		70 J	7.3	730	
RM-5-2-(0-2)	9/13/2006	50 U		45		75 J	6.9	720	
RM-5-2-(2-12)	9/13/2006	58 J		40		51 J	6.4	670	
RM-6-1-(0-2)	9/14/2006	32 U		110		35 J	0.5 U	300	
RM-6-1-(2-12)	9/14/2006	30 U		97		37 J	0.5 U	330	
RM-7-2-(0-2)	9/13/2006	62 J		40		73 J	22.7	710	
RM-7-2-(2-12)	9/13/2006	48 U		42		42 U	12	690	
RM-8-3-(0-2)	9/14/2006	40 U		47		40 U	8.5	650	
RM-8-3-(2-12)	9/14/2006	60 U		30 J		51 U	34.7	440	
CF-14-(0-2)	9/14/2006	17 U		11 J		20 U	0.8	180	
CF-14-(2-12)	9/14/2006	21 U		43		24 U	0.5 U	210	
CF-16-(0-2)	9/14/2006	19 U		31		20 U	0.6	160	
CF-16-(2-12)	9/14/2006	26 U		77		30 U	0.5 U	350	
CF-20-(0-2)	9/14/2006	19 U		26		21 U	0.8	190	
CF-20-(2-12)	9/14/2006	18 U		38		23 U	0.5 U	210	
CS-2-(0-2)	9/14/2006	72 J		61		36 U	3.7	480	
CS-2-(2-12)	9/14/2006	19 U		20		22 U	0.8	210	
Linear Equation Correlation Coefficient (R ²)						y = 0.27 X - 0.20 7.5			

Table 3

**XRF and Confirmatory Data
XRF Pilot Program
Rhodia Silver Bow Plant**

(concentrations in mg/Kg)

Station ID	Sample Date	Tin		Zinc	
		XRF Field	Laboratory	XRF Field	Laboratory
RM-1-2-(0-2)	9/13/2006	64 U		2000	1530
RM-1-2-(2-12)	9/13/2006	84 U		600	687
RM-2-3-(0-2)	9/13/2006	89 U		1200	674
RM-2-3-(2-12)	9/13/2006	92 U		720	281
RM-3-3-(0-2)	9/13/2006	83 U		1200	755
RM-3-3-(2-12)	9/13/2006	82 U		970	721
RM-4-1-(0-2)	9/13/2006	97 U		1300	1330
RM-4-1-(2-12)	9/13/2006	99 U		1400	1310
RM-5-2-(0-2)	9/13/2006	98 U		1200	1360
RM-5-2-(2-12)	9/13/2006	94 U		1200	1250
RM-6-1-(0-2)	9/14/2006	77 U		120 J	71
RM-6-1-(2-12)	9/14/2006	78 U		120 J	56
RM-7-2-(0-2)	9/13/2006	100 U		1800	1300
RM-7-2-(2-12)	9/13/2006	95 U		1600	1210
RM-8-3-(0-2)	9/14/2006	91 U		1400	946
RM-8-3-(2-12)	9/14/2006	110 U		1100	419
CF-14-(0-2)	9/14/2006	46 U		99	92
CF-14-(2-12)	9/14/2006	54 U		81 J	64
CF-16-(0-2)	9/14/2006	47 U		140	83
CF-16-(2-12)	9/14/2006	69 U		61 J	29
CF-20-(0-2)	9/14/2006	48 U		110	97
CF-20-(2-12)	9/14/2006	54 U		100	70
CS-2-(0-2)	9/14/2006	82 U		790	588
CS-2-(2-12)	9/14/2006	50 U		190	90
Linear Equation Correlation Coefficient (R ²)				Log(y) = 1.06 x log(X) -0.31 0.95	

Appendix 5.4.2-B

XRF Screening and Confirmatory Program (2009)



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Memorandum

To: Rhodia File
From: Tom Mattison
Subject: XRF Analytical Program
Date: April 6, 2010
Project: 26/46-0006 SQ09
c: Dan Bersanti, Cam Balentine

This memorandum presents the correlation between the soil data from the X-ray fluorescence (XRF) and confirmatory samples that were collected at the Silver Bow Plant in 2009. The data pairs were evaluated with a least squares linear regression analysis for ten metals and correlation coefficients of approximately 0.7 or greater were obtained. This memorandum explains our evaluation of the XRF data and correlations, and proposes a program for the use of XRF and laboratory analysis for soil samples going forward. The proposed program is to analyze a large number of soil samples using XRF and send 5% of the samples for confirmatory laboratory analysis. Samples for which XRF analysis shows concentrations exceeding a threshold will also be split for confirmatory analysis. This memorandum explains the selection of the thresholds for each of the 10 metals. These thresholds are expected to result in an additional 5 to 10% of the XRF samples being subject to confirmatory analysis. As a result, approximately 10 to 15% of the soil samples will undergo laboratory analysis to complement the large number of samples that will undergo XRF analysis. The program proposed here allows the full suite of data to be used for site decision-making by producing a large amount of data for the site and at the same time providing high confidence that the most critical data are confirmed by laboratory analysis. The program has the advantage of producing real-time data that will allow decisions to be made in the field on expanding the investigation area or collecting additional samples.

Sample Collection and Preparation

Surface soil samples were collected from the solid waste management units identified in the Phase 1 RFI Work Plan. The soil samples were collected from the depth interval(s) specified for each SWMU. Each soil sample was mixed in a stainless steel bowl prior to filling the sample containers. One container was sent to the field laboratory and the other was held at the Plant pending selection of analytical samples. One of ten field samples was selected and sent to Columbia Analytical Services (CAS) for metals analysis.

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(EPA Method 6010B, 6020, 7471A) for confirmatory analysis. In addition, samples were sent to the laboratory if the XRF data exceeded a threshold identified in the XRF Pilot Program Evaluation (Appendix H of the Phase 1 RFI Work Plan).

The field laboratory was set up to analyze the soil samples for metals at the Silver Bow Plant. Barr staff operated the XRF instrument. Two hundred twenty five (225) soil samples were analyzed in the field laboratory using an XRF field instrument purchased by Rhodia. The soil samples were dried in an oven to generate samples with consistent moisture content prior to XRF analysis. The XRF measurements were taken for 60 seconds and were done in X-Ray cups in a test stand. The instrument was calibrated against multiple standards both before and after the measurements were taken each day as provided in the Standard Operating Procedure.

The instrument data was transferred to a spreadsheet that included the instrument results and the instrument reading error (a $\pm$ value, which is two times the standard deviation of the result value). These readings were provided for each parameter analyzed for each sample. Ten percent of the samples were analyzed in replicate.

The results from the field laboratory testing are provided in Table 1. The table shows the concentration, instrument reading and two times the standard deviation designated as 2σ .

Barr used the raw data provided in the spreadsheet to calculate the limit of detection (defined as 3 times the standard deviation (σ)) and the practical quantitation limit (PQL) (defined as 10 times the standard deviation) for each element. If the instrument reading was less than the limit of detection (LOD), the LOD is reported and is qualified with a "U". If the reading was greater than the LOD but less than the PQL, the reading was reported as a detected concentration and qualified with a "J" (estimated value). If the instrument reading was greater than the PQL, then the reading was reported as the detected concentration. The results from the field laboratory testing are provided in Table 1.

Confirmatory (i.e., split) samples were analyzed for metals at CAS and the analytical data are summarized in Table 2. This confirmatory analytical data along with the XRF data are summarized in Table 3. These paired data were used to evaluate the correlation between the XRF and laboratory data sets.

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Data Distribution and Correlation

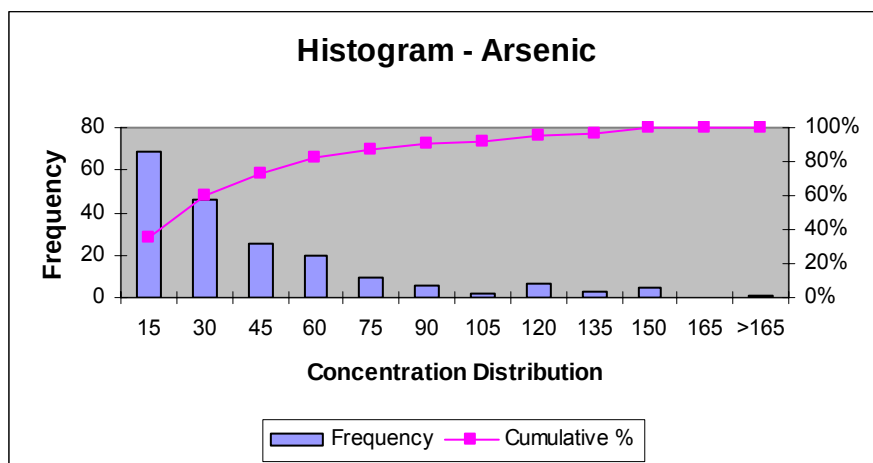
The distribution of the XRF data was evaluated using histograms constructed with about 10 intervals across the range of detected values. The correlation between XRF and laboratory data was evaluated with a least squares linear regression analysis. Paired values were plotted on a XY graph and the best fit line was drawn based on the linear regression model. The linear regression only considered paired values that were detected in both data sets.

The correlation coefficient (i.e., R^2) for the linear regression model was calculated. EPA method 6200 recommends that if the correlation coefficient is greater than or equal to 0.7, the XRF data should be considered “screening level” data. If the correlation coefficient is 0.9 or greater and inferential statistics indicate the XRF data and the confirmatory data are statistically equivalent at a 99 percent confidence level, the data could potentially meet definitive level data criteria. (See Section 9.7 of EPA Method 6200).

The distribution, correlation with laboratory data, and likely concentration of interest were used to select a threshold for selecting samples to be sent to the laboratory for confirmatory analysis. The following sections detail the data distribution and correlation for elements that were sufficiently correlated (i.e., $R^2 \geq 0.7$) to the laboratory data.

Arsenic

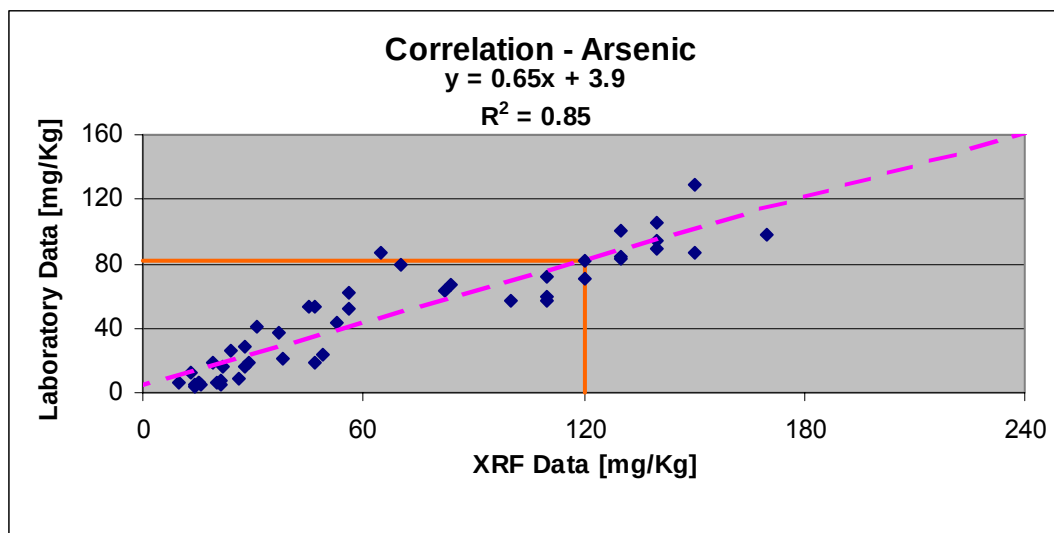
Arsenic was detected in 193 of the 225 soil samples. The XRF concentrations ranged from 8 to 170 mg/kg in the XRF data set and are distributed as shown below.



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The values shown on the horizontal axis represents the right-hand tick mark for each interval. Thus, there are sixty-nine samples with XRF concentrations reported between 0 and 15 mg/kg and forty-six samples between 15 and 30 mg/kg. The cumulative distribution reaches 95% at about 120 mg/kg.

Least squares linear regression analysis of the paired data set for arsenic provides a correlation coefficient of 0.85. The paired data and linear equation are shown below:

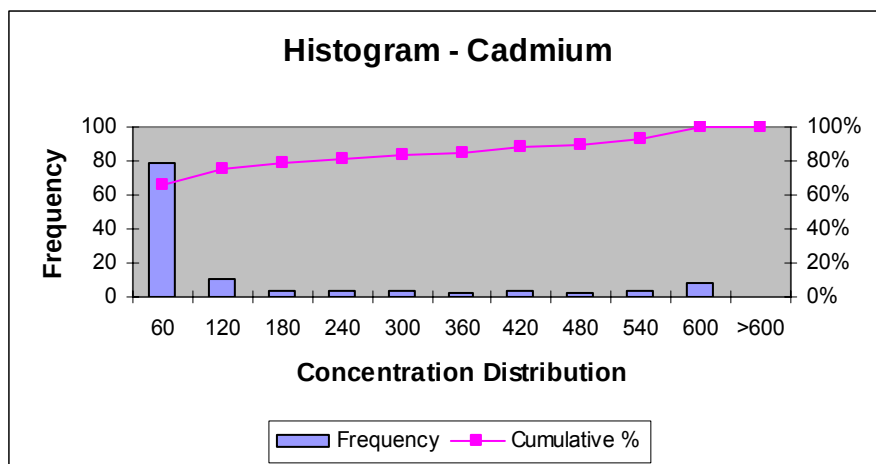


About 5 % of the arsenic concentrations are above an XRF concentration of 120 mg/kg, which corresponds to a laboratory concentration of about 80 mg/kg. The proposed threshold for arsenic is 120 mg/kg. If the XRF detects an arsenic concentration greater than 120 mg/kg, the sample will be shipped to the laboratory for analysis. The threshold XRF concentration of 120 mg/kg, which corresponds to a laboratory concentration of 80 mg/kg, is near the soil background concentration for arsenic calculated in the CCRA of 71 mg/kg, providing confidence that samples exceeding background will be subject to confirmatory analysis. The threshold is above the Montana action level for arsenic in residential surface soils of 40 mg/kg, but is well below the cleanup levels specified for arsenic at Superfund sites in the region [for example: SSTOU at approximately 200 mg/kg along Silver Bow Creek and 2,000 mg/kg (recreational exposure) along railroad beds; and Clark Fork River OU at 150 mg/kg for residential, 620 mg/kg for rancher/farmer exposures, and 680 mg/kg for children at Arrowstone Park and other similar recreational scenarios]. The proposed sampling program will provide definitive laboratory data for samples with arsenic likely to exceed background concentrations.

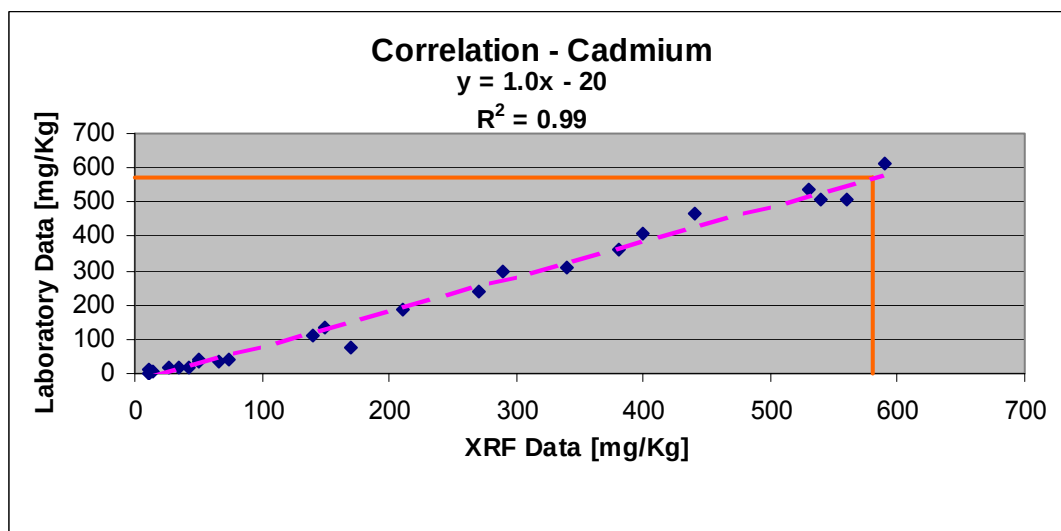
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Cadmium

Cadmium was detected in 120 of the 225 soil samples. The XRF concentrations ranged from 10 to 590 mg/kg and are distributed as shown below.



Least squares linear regression analysis of the paired data set for cadmium provides a correlation coefficient of 0.99. The paired data and linear equation are shown below:



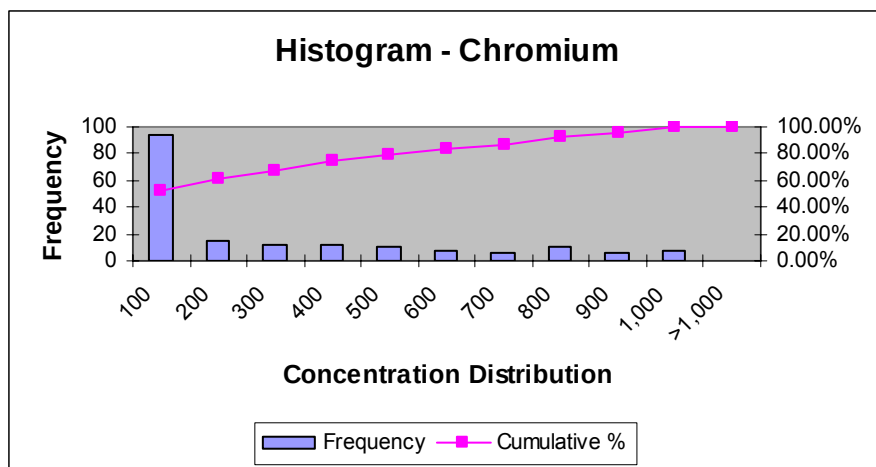
The correlation coefficient (i.e., greater than 0.90) provides sufficient confidence to raise the threshold for laboratory confirmation to the 99% level rather than the 95% level in the frequency distribution. About 1% of the cadmium concentrations are above an XRF concentration of 580 mg/kg, which corresponds to a laboratory concentration of about 570 mg/kg. If the XRF detects a cadmium concentration greater than

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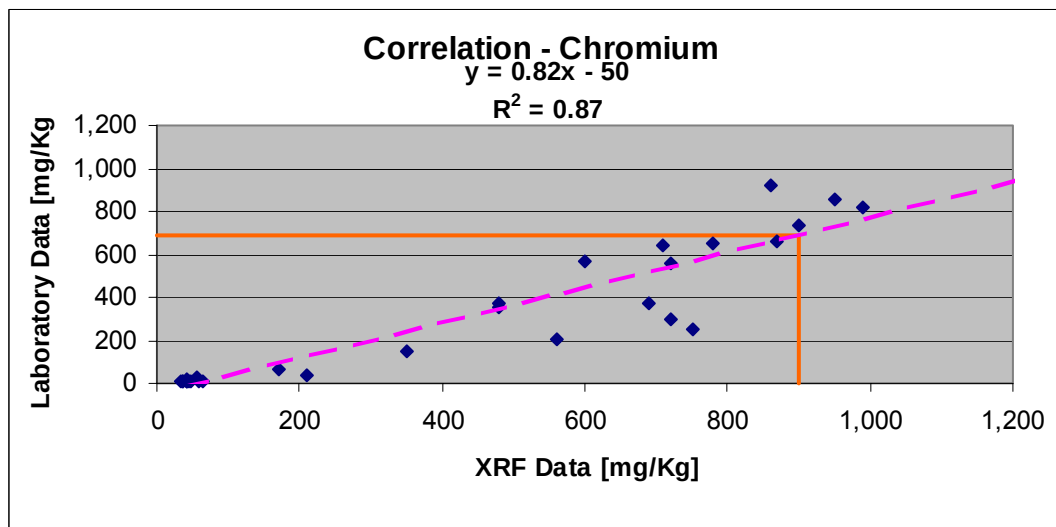
580 mg/kg, the sample will be shipped to the laboratory for analysis. According to the criteria in EPA Method 6200, XRF data for cadmium is suitable for definitive use.

Chromium

Chromium was detected 180 of the 225 soil samples. The XRF concentrations range between 28 and 1,000 mg/kg in the XRF Data set and are distributed as shown below.



Least squares linear regression analysis of the paired data set for chromium provides a correlation coefficient of 0.87. The paired data and linear equation are shown below:



About 5% of the chromium concentrations are above an XRF concentration of 900 mg/kg, which corresponds to a laboratory concentration of about 690 mg/kg. The proposed threshold for chromium is

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900 mg/kg. If the XRF detects a chromium concentration greater than 900 mg/kg, the sample will be shipped to the laboratory for analysis.

Soil samples were also analyzed for chromium VI and the data are summarized below:

Sample ID	Chromium III [mg/kg]	Chromium VI [mg/kg]
RM-8-1 0-2 in	317	0.39 J
RM-8-3 2-12 in	3060	0.51 J
RM-8-4 0-2 in	590	0.43 J
RM-8-5 0-2 in	1,290	0.31 J
RM-8-5 0-2 in	1,700	0.55 J
RM-8-6 0-2 in	2,040	0.39 J
RM-8-6 0-2 in	2,160	0.36 R

The data demonstrate that the chromium in the surface and near-surface soils is essentially all chromium III. The EPA Regional Screening Levels provide a risk-based concentration for chromium based on the valence state of the element:

Valence State	Regional Screening Level [mg/Kg]
Chromium VI	5.6
Chromium III	150,000 ¹

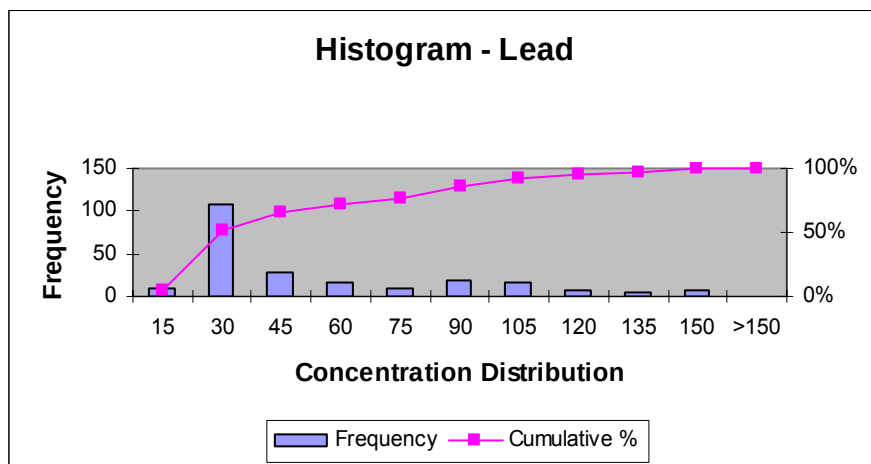
¹ Concentration that represents a hazard quotient of 0.1.

The soil screening level for chromium will be based on chromium III.

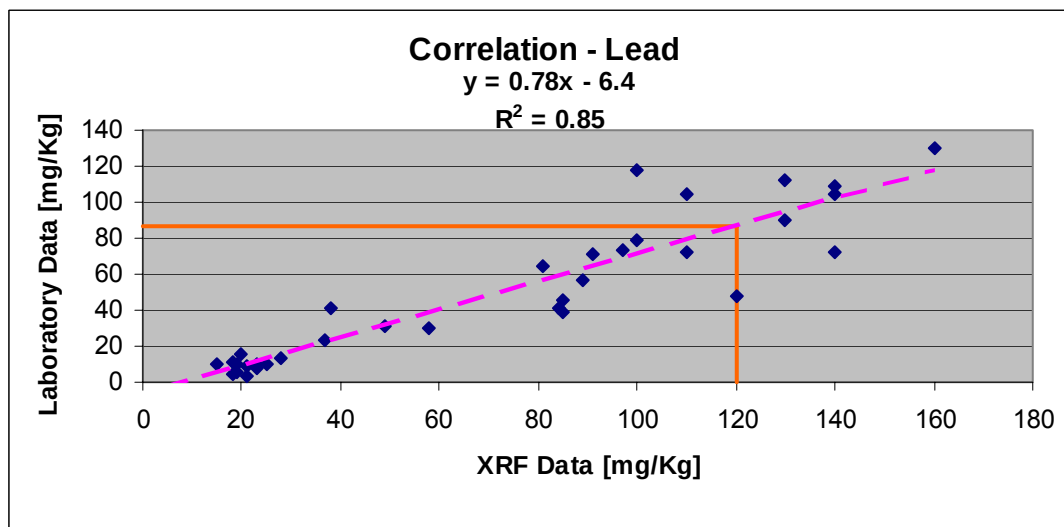
Lead

Lead was detected in all 225 samples. The XRF concentrations range between 11 and 160 mg/kg in the XRF data set and are distributed as shown below.

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Least squares linear regression analysis of the paired data set for lead provides a correlation coefficient of 0.85. The paired data and linear equation are shown below:

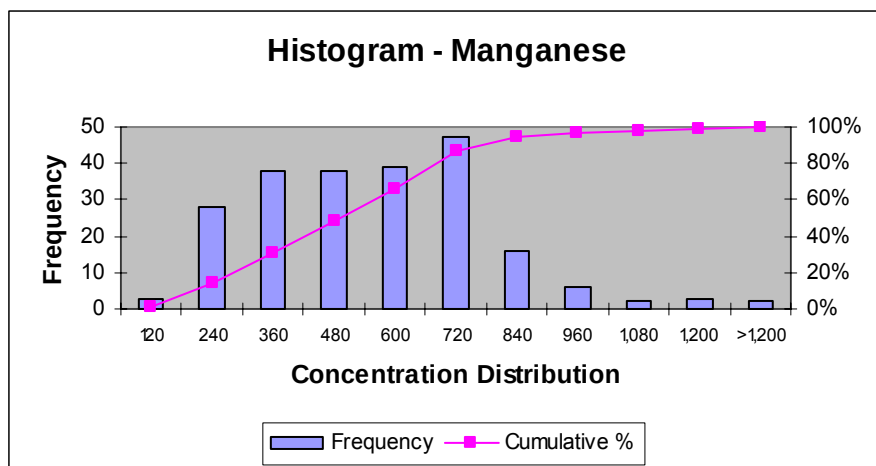


About 5% of the lead concentrations are above an XRF concentration of 120 mg/kg, which corresponds to a laboratory concentration of about 90 mg/kg. If the XRF detects a lead concentration greater than 120 mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Regional Screening Levels) of 800 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples for lead concentrations far below the generic risk-based screening level.

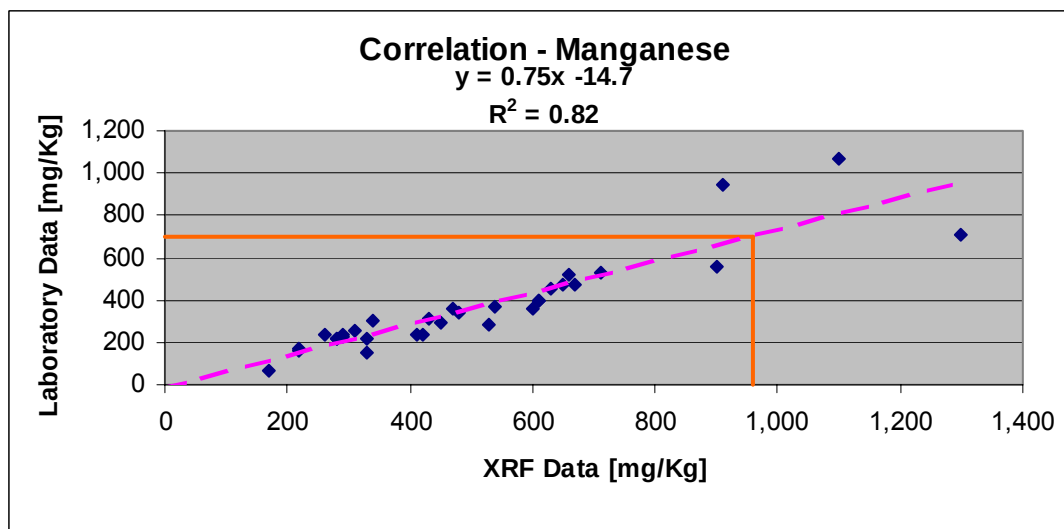
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Manganese

Manganese was detected in 222 of 225 samples. The XRF concentrations range between 93 and 1,300 mg/kg in the XRF data set and are distributed as shown below.



Least squares linear regression analysis of the paired data set for manganese provides a correlation coefficient of 0.82. The paired data and linear equation are shown below:

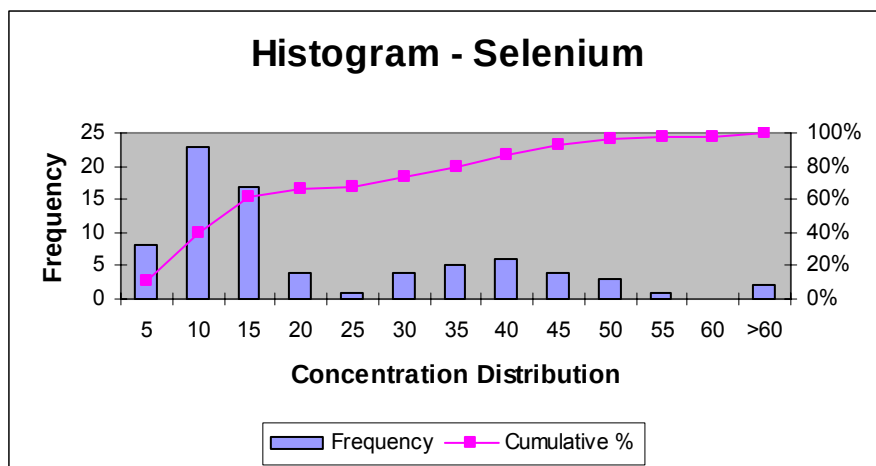


About 5% of the manganese concentrations are above an XRF concentration of 960 mg/kg, which corresponds to a laboratory concentration of about 700 mg/kg. If the XRF detects a manganese concentration greater than 960 mg/kg, the sample will be shipped to the laboratory for analysis.

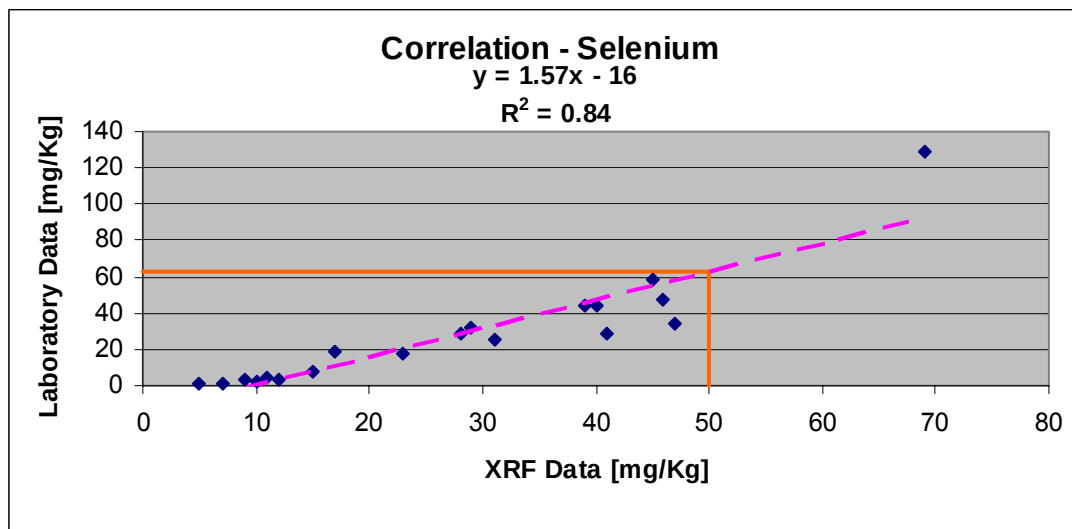
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Selenium

Selenium was detected in 78 of the 225 soil samples. The XRF concentrations ranged from 5 to 69 mg/kg and are distributed as shown below.



Least squares linear regression analysis of the paired data set for cadmium provides a correlation coefficient of 0.83. The paired data and linear equation are shown below:



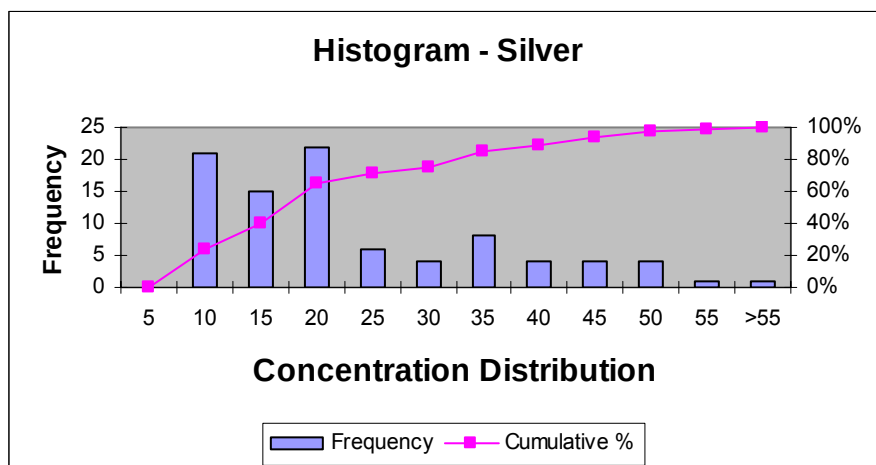
About 5% of the selenium concentrations are above an XRF concentration of 50 mg/Kg, which corresponds to a laboratory concentration of about 65 mg/kg. The proposed threshold for selenium is 50 mg/kg. If the XRF detects a cadmium concentration greater than 50 mg/kg, the sample will be shipped to

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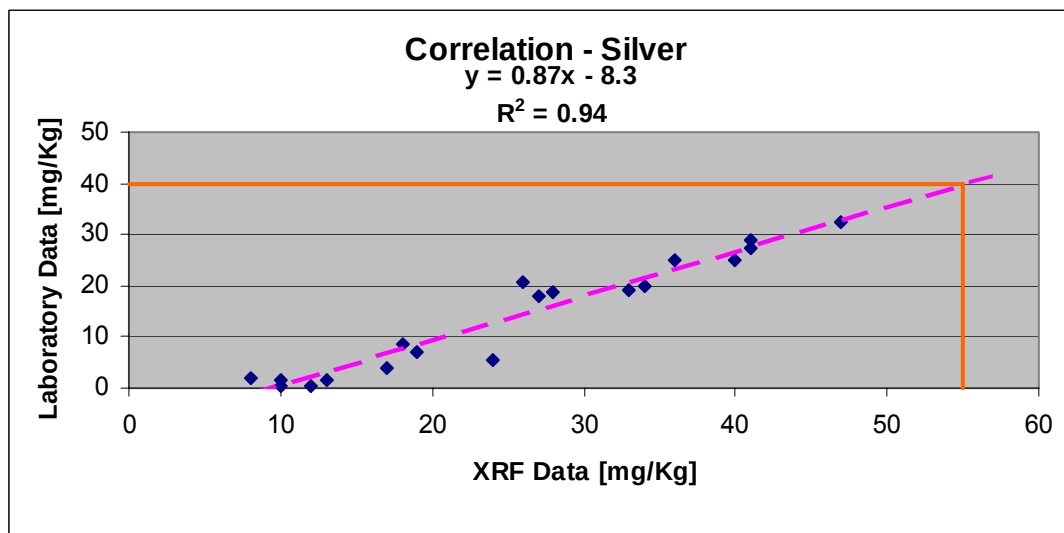
the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Regional Screening Levels @ Hazard quotient = 0.1) of 510 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples for selenium concentrations far below the generic risk-based screening level.

Silver

Silver was detected in 90 of the 225 soil samples. The XRF concentrations ranged from 8 to 60 mg/kg and are distributed as shown below.



Least squares linear regression analysis of the paired data set for silver provides a correlation coefficient of 0.94. The paired data and linear equation are shown below:

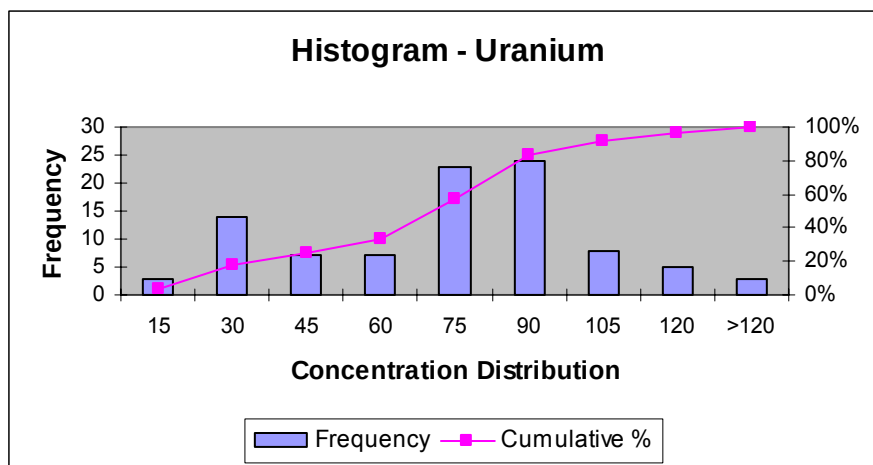


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The correlation coefficient (i.e., greater than 0.90) provides sufficient confidence to raise the threshold for laboratory confirmation to the 99% level rather than the 95% level in the frequency distribution. About 1% of the silver concentrations are above an XRF concentration of 55 mg/kg, which corresponds to a laboratory concentration of about 40 mg/kg. If the XRF detects a silver concentration greater than 55 mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Regional Screening Levels @ hazard quotient = 0.1) of 510 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples for silver concentrations far below the generic risk-based screening level.

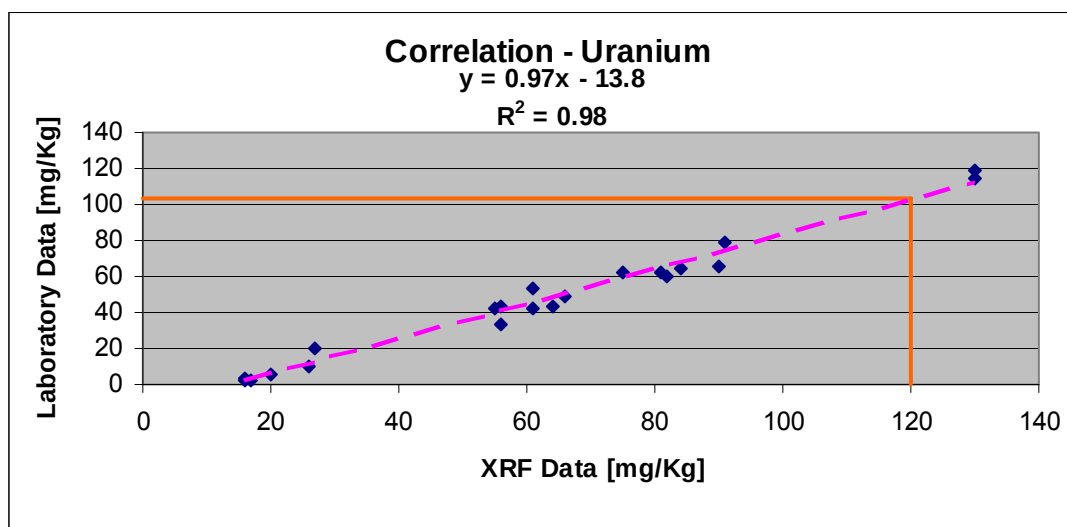
Uranium

Uranium was detected in 93 of the 225 soil samples. The XRF concentrations ranged from 15 to 130 mg/kg and are distributed as shown below.



Least squares linear regression analysis of the paired data set for uranium provides a correlation coefficient of 0.98. The paired data and linear equation are shown below:

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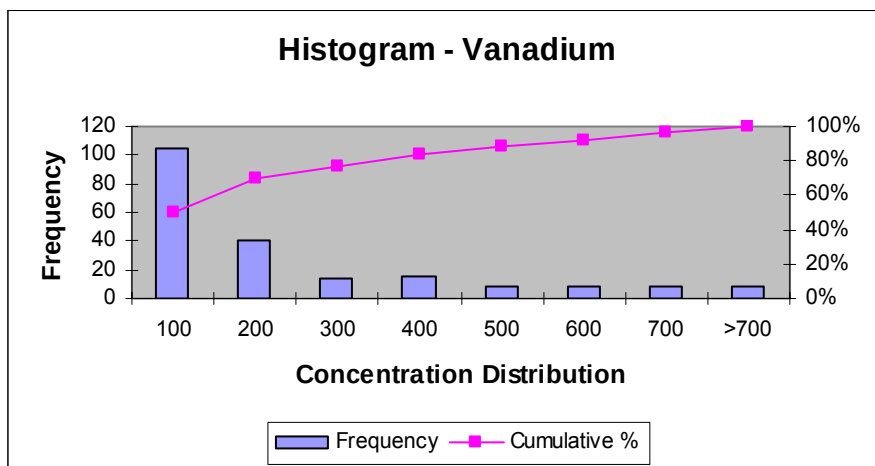


About 5% of the uranium concentrations are above an XRF concentration of 120 mg/Kg which corresponds to a laboratory concentration of about 100 mg/kg. The proposed threshold for uranium is 120 mg/kg. If the XRF detects a uranium concentration greater than 120 mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Regional Screening Levels @ hazard quotient = 0.1) of 310 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples for uranium concentrations far below the generic risk-based screening level.

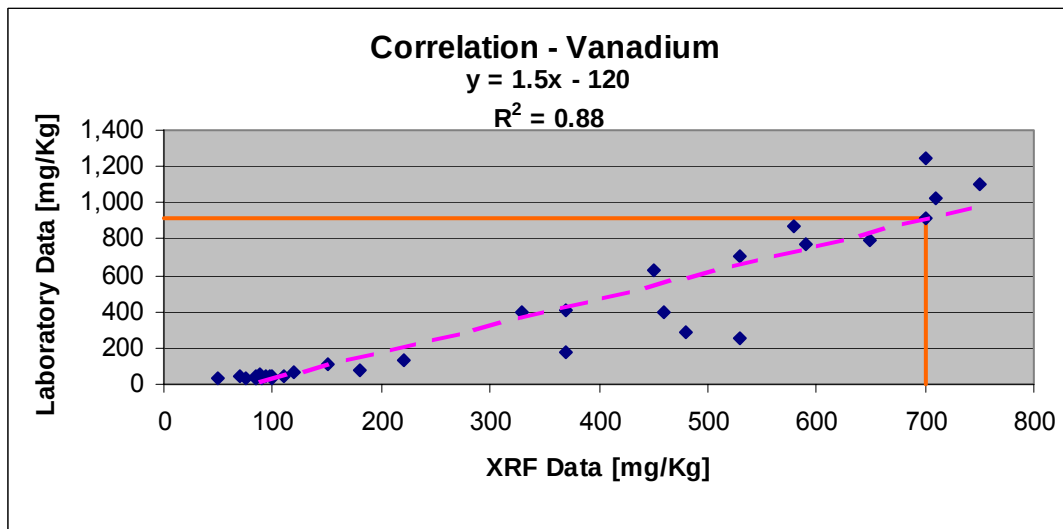
Vanadium

Vanadium was detected in 208 of the 225 soil samples. The XRF concentrations ranged from 50 to 750 mg/kg and are distributed as shown below.

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Least squares linear regression analysis of the paired data set for vanadium provides a correlation coefficient of 0.88. The paired data and linear equation are shown below:

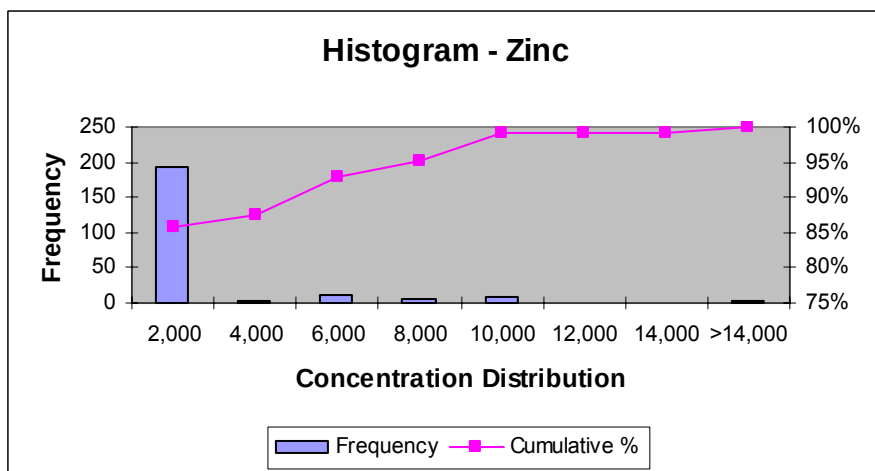


About 5% of the vanadium concentrations are above an XRF concentration of 700 mg/kg which corresponds to a laboratory concentration of about 910 mg/kg. The proposed threshold for vanadium is 700 mg/kg. If the XRF detects a vanadium concentration greater than 700 mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Regional Screening Levels @ hazard quotient) of 520 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples for vanadium concentrations far below the generic risk-based screening level.

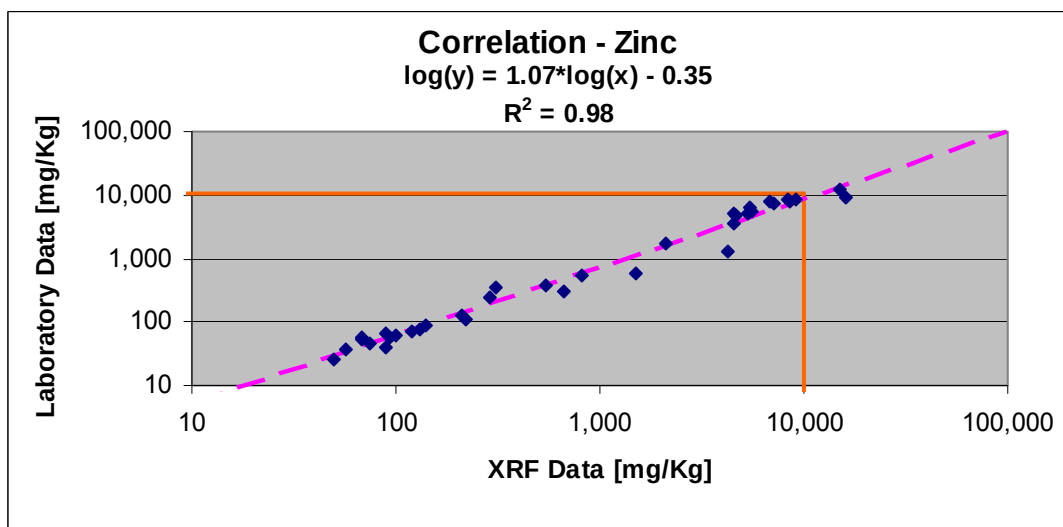
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Zinc

Zinc was detected in all 225 samples. The XRF concentrations range between 31 and 16,000 mg/kg in the XRF data set and are distributed as shown below.



Since the range of detected values for the zinc covers two orders of magnitude, the paired data set was log-transformed. Least squares linear regression analysis of the log-transformed paired data set for zinc provides a correlation coefficient of 0.98. The paired data and linear equation are shown below:



The correlation coefficient (i.e., greater than 0.90) provides sufficient confidence to raise the threshold for laboratory conformation to the 99% level rather than the 95% level in the frequency distribution. About 1% of the zinc concentrations are above an XRF concentration of 10,000 mg/kg, which corresponds to a

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laboratory concentration of about 9,800 mg/kg. If the XRF detects a zinc concentration greater than 10,000 mg/kg, the sample will be shipped to the laboratory for analysis. This threshold is well below the generic risk-based concentration for industrial exposures (i.e., EPA Regional Screening Levels) of 310,000 mg/kg. The proposed sampling and analysis program will provide definitive laboratory data for samples for zinc concentrations well below the generic risk-based screening level.

Other Elements

The XRF instrument provided data for other elements, as seen in Table 1. These elements were either not detected in a sufficient number of samples; the paired data sets did not correlate very well; or the detected concentrations were several orders of magnitude below generic risk-based screening levels as summarized below.

Element	XRF Data Set		Confirmatory Data Set		Conclusion
	Detected	Not Detected	Detected	Not Detected	
Molybdenum	50	175	---	---	Not included in confirmatory analysis
Zirconium	225	0	---	---	Not included in confirmatory analysis
Strontium	225	0	---	---	Not included in confirmatory analysis
Rubidium	225	0	---	---	Not included in confirmatory analysis
Thorium	189	36	---	---	Not included in confirmatory analysis
Mercury	11	214	33	0	Not sufficiently detected by XRF
Tungsten	1	224	---	---	Not included in confirmatory analysis Not sufficiently detected by XRF
Copper	192	33	33	0	Not sufficiently correlated to lab data. Maximum concentration below generic risk-based screening level.
Nickel	77	148	18	10	Not sufficiently correlated to lab data. Maximum concentration below generic risk-based screening level.
Cobalt	5	220	32	1	Not sufficiently detected by XRF
Iron	225	0	33	0	Not sufficiently correlated to lab data.
Titanium	225	0	---	---	Not included in confirmatory analysis
Scandium	126	99	---	---	Not included in confirmatory analysis
Calcium	225	0	---	---	Not included in confirmatory analysis
Potassium	225	0	---	---	Not included in confirmatory analysis
Sulfur	53	172	---	---	Not included in confirmatory analysis

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Element	XRF Data Set		Confirmatory Data Set		Conclusion
	Detected	Not Detected	Detected	Not Detected	
Barium	225	0	33	0	Not sufficiently correlated to lab data.
Cesium	225	0	---	---	Not included in confirmatory analysis
Tellurium	224	1	---	---	Not included in confirmatory analysis
Antimony	216	9	33	0	Not sufficiently correlated to lab data.
Tin	216	9	---	---	Not included in confirmatory analysis
Palladium	76	149	---	---	Not included in confirmatory analysis

XRF Analytical Program

The XRF pilot program demonstrated that XRF is a useful tool to provide reliable, real-time metals data during investigation activities at the Silver Bow Plant. A large number of samples can be evaluated using the XRF and the proposed program of confirmatory samples will provide confidence that the critical data are confirmed by laboratory analysis. The XRF analytical program will provide a large and reliable data set to support corrective measures decisions. As compared with laboratory-only analysis, this XRF program can evaluate enough samples to provide good representation of the soil quality and distribution (in 3 dimensions) of metals of interest. The large number of XRF analyses increases the overall reliability of the data set for making corrective measures decisions. The real-time XRF results will allow decisions to be made in the field on expanding the investigation area or collecting additional samples.

The XRF instrument will be used on future investigation activities to evaluate the concentration of metals in soil samples. At a minimum, confirmatory samples will be analyzed at the laboratory at a rate of one per twenty (5%) samples analyzed by XRF. In addition, spilt samples will be analyzed at the laboratory if the XRF reports a concentration greater than the threshold concentrations described above and summarized below:

Element	XRF Concentration Threshold [mg/kg]	Correlation Coefficient (R^2)	Linear Equation	XRF-Reported Concentration Range [mg/kg]
Arsenic	120	0.85	$y = 0.65x + 3.9$	8 to 170
Cadmium	580	0.99	$y = 1.0x - 20$	10 to 590
Chromium	900	0.87	$y = 0.82x - 50$	28 to 1,000
Lead	120	0.85	$y = 0.78x - 6.4$	11 to 160

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Element	XRF Concentration Threshold [mg/kg]	Correlation Coefficient (R ²)	Linear Equation	XRF-Reported Concentration Range [mg/kg]
Manganese	960	0.82	$y = 0.75x - 15$	93 to 1,300
Selenium	50	0.83	$y = 1.65x - 19$	5 to 69
Silver	55	0.94	$y = 0.87x - 8.3$	8 to 60
Uranium	120	0.98	$y = 0.97 - 13.8$	15 to 130
Vanadium	700	0.88	$y = 1.5x - 120$	50 to 750
Zinc	10,000	0.98	$y = 10^{(1.07 \text{ Log}(x) - 0.35)}$	31 to 16,000

The current data set is sufficient to provide confidence in the use of XRF analysis and to indicate the range of samples most important to confirm with laboratory analysis.

Tables

Table 1 - Soil Quality Data - XRF

Sample ID	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
SGW-1 0-2 in	17 J	16.63	4.99	190	187.18	11.09	600	600.6	14.01	88	87.77	13.78	73	72.5	6.7	15 U	< LOD	9.81
SGW-1 0-2 in	15 J	14.93	4.95	200	198.38	11.19	590	586.7	13.82	83	83.37	13.67	75	75.21	6.73	15 U	< LOD	10.13
SGW-1 0-2 in R	19 J	18.51	4.99	190	186.82	11.1	620	618.21	14.16	79	79.02	13.54	76	75.94	6.71	15 U	< LOD	9.93
SGW-1 2-12 in	8 J	7.99	4.57	210	210.66	10.67	510	507.92	12.39	45 J	45.16	11.9	98	97.63	6.77	10 J	9.87	6.28
SGW-1 1-2 ft	9 U	< LOD	5.76	160	155.47	9.35	670	670.07	12.89	21 U	< LOD	14.16	110	107.18	6.09	16 J	16.27	5.73
SGW-1 4-5 ft	9 U	< LOD	6.18	140	144.23	8.99	360	356.21	10.11	21 U	< LOD	13.98	99	99.32	6.26	79	79	9.61
SGW-2 0-2 in	16 J	16.15	4.98	170	168.88	10.8	590	590.88	13.94	92	92.23	13.82	66	65.94	6.56	11 J	10.62	6.79
SGW-2 0-2 in R	16 J	16.24	5.01	170	171.87	10.86	590	586.03	13.92	97	96.62	13.97	66	66.22	6.61	15 U	< LOD	10.22
SGW-2 2-12 in	14 J	14	4.92	180	179.02	10.89	560	564.26	13.63	78	77.67	13.34	73	73.31	6.64	14 J	13.6	6.81
SGW-3 0-2 in	11 J	10.72	4.83	160	163.36	10.64	590	592.75	13.82	96	95.66	13.92	72	72.07	6.7	16 U	< LOD	10.51
SGW-3 2-12 in	8 J	8.29	4.66	180	181.23	10.69	600	603.04	13.65	75	75.47	12.9	71	70.56	6.35	13 U	< LOD	8.9
SGW-3 1-2 ft	16 J	16.26	4.76	210	208.09	10.69	520	519.24	12.53	64	64.37	12.63	93	92.55	6.79	13 J	13.36	6.5
SGW-3 4-5 ft	12 U	< LOD	7.74	620	616.27	16.27	480	477.93	12.66	27 U	< LOD	18.1	140	136.96	7.97	69	68.98	10.04
SGW-4 0-2 in	14 J	13.57	4.64	220	223.43	10.48	420	417.56	11.14	56 J	56.03	11.73	85	84.61	6.39	11 J	11.46	6.31
SGW-4 2-12 in	11 J	11.38	4.87	170	173.55	10.95	620	616.41	14.19	87	87.2	13.82	76	76.3	6.81	16 U	< LOD	10.41
SGW-5 0-2 in	10 U	< LOD	6.69	170	167.17	10.22	570	567.54	13.1	68	68.13	12.08	59	58.85	5.85	10 J	10.41	6.02
SGW-5 2-12 in	10 U	< LOD	6.84	230	226.04	11.04	570	572.03	13.08	56 J	55.91	12.09	81	80.96	6.38	10 J	9.71	6.27
SGW-5 1-2 ft	9 U	< LOD	6.31	250	251.94	10.81	540	542.55	12.16	16 J	16.34	10.7	120	118.43	6.77	45	45.3	7.79
SGW-5 4-5 ft	10 U	< LOD	6.34	170	167.11	9.94	510	513.41	12.37	24 U	< LOD	15.76	120	119.84	7.01	17 J	17.17	6.3
SGW-6 0-2 in	10 U	< LOD	6.6	330	329.13	11.78	510	508.07	11.93	33 J	32.59	10.81	93	92.59	6.29	12 J	12.12	5.75
SGW-6 2-12 in	9 U	< LOD	6.05	220	220.58	9.93	490	492.19	11.31	22 U	< LOD	14.65	120	121.23	6.55	12 J	12.49	5.53
SGW-6 2-12 in R	9 U	< LOD	6.05	230	227.55	10.11	510	513.71	11.57	22 U	< LOD	14.99	120	118.29	6.53	14 J	13.78	5.63
EPP-1 2-4 ft	10 U	< LOD	6.62	420	419.63	12.65	470	469.2	11.38	16 J	15.71	10.35	110	107.66	6.51	25 J	25.1	6.66
EPP-1 4.5-6.5ft	10 U	< LOD	6.81	470	467.62	13.3	440	435.61	11.15	26 J	25.64	10.95	110	111.63	6.78	22 J	21.76	7.12
EPP-1 7-9 ft	11 U	< LOD	7.51	790	792	16.82	390	389.6	10.86	24 U	< LOD	15.74	110	114.02	6.89	19 J	18.98	6.99
EPP-1 9.5-11.5f	9 U	< LOD	6.21	340	335.36	11.17	430	428.32	10.53	21 U	< LOD	13.98	110	110.46	6.24	17 J	16.9	6.1
EPP-2 2-4 ft	9 U	< LOD	5.9	190	190.2	9.28	430	431.92	10.53	22 U	< LOD	14.5	110	108.21	6.23	16 J	15.94	5.64
EPP-2 4.5-6.5 ft	10 U	< LOD	6.59	440	443.99	12.89	420	423.86	10.91	23 U	< LOD	15.03	110	107.33	6.48	16 J	15.58	5.94
EPP-2 7-9 ft	9 U	< LOD	5.99	210	206.3	9.24	330	330.21	9.27	16 J	16.14	9.87	120	117.31	6.48	16 J	16.34	5.77
EPP-2 9.5-11.5 ft	9 U	< LOD	6.06	260	262.17	9.8	270	268.82	8.37	21 U	< LOD	13.69	100	103.46	6.05	16 J	16.39	5.6
EPP-3 3-4 ft	9 U	< LOD	6.03	230	227.95	9.82	440	437.9	10.6	21 U	< LOD	13.8	100	102.53	6.03	15 J	15.06	5.56
EPP-3 5-7 ft	9 U	< LOD	6.08	240	234.77	9.42	280	277.72	8.46	20 U	< LOD	13.37	110	106.1	6.05	19 J	19.14	5.78
EPP-3 5-7 ft R	9 U	< LOD	5.96	240	235.96	9.46	290	286.99	8.6	21 U	< LOD	13.99	110	112.71	6.26	16 J	16.07	5.63
EPP-3 8-10 ft	9 U	< LOD	6.1	270	269.8	10.02	260	260.52	8.34	21 U	< LOD	13.9	110	112.55	6.33	27 J	26.64	6.44
EPP-3 10.5-12.5 ft	9 U	< LOD	6.13	280	274.65	9.94	220	224.05	7.73	21 U	< LOD	13.77	110	113.25	6.31	26 J	25.51	6.29
EPP-4 13-15 ft	9 U	< LOD	6.11	240	243.94	9.79	300	296.6	8.89	22 U	< LOD	14.65	130	130.59	6.78	24 J	24.21	6.39
EPP-4 15.5-17.5 ft	10 U	< LOD	6.35	240	242.83	9.91	230	229.18	8.11	23 U	< LOD	15.06	120	122.67	6.83	33 J	33.01	7.16
EPP-4 18-20 ft	9 U	< LOD	6.2	310	310.29	10.71	310	304.9	9.04	22 U	< LOD	14.4	120	120.94	6.58	26 J	25.75	6.44
EPP-4 20.5-22.5 ft	9 U	< LOD	6.09	230	225.07	9.41	240	243.58	8.12	22 U	< LOD	14.58	130	127.1	6.73	25 J	25.45	6.45
EPP-5 5-6 ft	9 U	< LOD	6.05	230	225.76	9.77	360	360.54	9.82	21 U	< LOD	14.17	110	105.59	6.23	27 J	26.53	6.48
EPP-5 7-9 ft	9 U	< LOD	6.28	250	245.06	9.83	250	253.62	8.38	22 U	< LOD	14.75	130	125.31	6.77	25 J	24.86	6.47
EPP-5 10-11 ft	9 U	< LOD	6.1	240	243.71	9.82	310	314.3	9.13	22 U	< LOD	14.42	130	125.85	6.66	25 J	25.22	6.4
EPP-5 12-14 ft	9 U	< LOD	6.3	350	352.19	11.29	300	295.53	8.98	22 U	< LOD	14.76	130	128.24	6.81	23 J	22.68	6.31
EPP-6 3-5.5 ft	9 U	< LOD	6.23	270	270.96	10.25	320	321.29	9.27	21 U	< LOD	14.32	100	103.3	6.19	26 J	26.26	6.39
EPP-6 5.5-8 ft	9 U	< LOD	6.17	300	296.61	10.39	270	269.95	8.48	21 U	< LOD	13.72	120	123.56	6.54	26 J	25.69	6.4
EPP-6 8.5-10.5 ft	9 U	< LOD	6.12	290	290.16	10.42	320	317.62	9.17	21 U	< LOD	14.1	130	127.54	6.65	17 J	16.75	5.83
EPP-6 11-13 ft	9 U	< LOD	6.12	260	260.11	9.93	280	280.96	8.63	21 U	< LOD	14.1	130	126.51	6.62	29 J	28.86	6.64
EPP-7 2-4 ft	10 U	< LOD	6.36	410	407.64	11.85	340	343.87	9.51	21 U	< LOD	13.73	91	91.19	5.82	9 J	8.97	5.11
EPP-7 5-7 ft	9 U	< LOD	5.98	270	273.36	10.24	350	351.2	9.58	21 U	< LOD	13.73	100	99.52	6	15 J	14.62	5.53
EPP-7 7.5-9.5 ft	9 U	< LOD	5.67	180	183.2	8.95	410	410.54	10.09	20 U	< LOD	13.59	110	112.25	6.13	13 J	12.8	5.31
EPP-7 10-12 ft	9 U	< LOD	5.9	240	238.87	9.7	330	329.13	9.25	22 U	< LOD	14.43	120	123.26	6.56	20 J	19.74	5.97
EPP-8 1-3.5 ft	9 U	< LOD	6.17	260	258.46	10.13	370	367.67	9.83	21 U	< LOD	13.99	110	105.37	6.17	19 J	19.05	5.86
EPP-8 3.5-6 ft	9 U	< LOD	6.01	240	242	9.69	330	330.4	9.23	22 U	< LOD	14.34	110	112.04	6.29	18 J	18.19	5.77
EPP-8 6.5-8.5 ft	9 U	< LOD	5.86	250	245.49	9.59	310	309.75	8.85	21 U	< LOD	14.26	110	113.3	6.26	23 J	23.4	6.06
EPP-8 9-11ft	9 U	< LOD	5.9	240	239.37	9.61	350	351.82	9.4	21 U	< LOD	14.33	120	119.44	6.38	22 J	22.34	6

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
EPP-8 9-11ft R	9 U	< LOD	5.89	240	239.35	9.62	360	358.09	9.48	21 U	< LOD	14	130	126.92	6.5	20 J	20.06	5.92
EPP-100 2-4 ft	10 U	< LOD	6.53	490	487.71	13.05	430	426.18	10.68	22 U	< LOD	14.64	100	103.03	6.23	17 J	17	5.9
EPP-100 4.5-6.5 ft	10 U	< LOD	6.73	480	478.76	13.3	410	407.12	10.74	23 U	< LOD	15.38	120	117.41	6.76	27 J	26.71	7.5
EPP-100 7-9 ft	11 U	< LOD	7.66	940	940.21	18.11	410	413.73	11.14	24 U	< LOD	16.15	130	130.37	7.26	47	46.73	8.71
EPP-100 9.5-11.5 ft	9 U	< LOD	6.03	290	288.05	10.46	420	418.98	10.31	21 U	< LOD	13.83	110	111.39	6.19	11 J	11.49	5.65
EPP-9 0-2 ft	12 J	11.5	4.5	240	241.4	10.29	300	301.65	9.44	22 U	< LOD	14.41	100	101.84	6.41	20 J	20.07	6.32
EPP-9 3-5 ft	9 U	< LOD	6.03	270	269.01	9.94	280	275.73	8.49	20 U	< LOD	13.62	110	106.03	6.11	17 J	16.69	5.67
EPP-9 5.5-7.5 ft	9 U	< LOD	6.15	290	292.87	10.38	270	274.22	8.58	21 U	< LOD	13.76	100	99.85	6.05	19 J	18.96	5.88
EPP-9 8-10 ft	9 U	< LOD	5.98	240	243.04	9.52	270	265.88	8.3	20 U	< LOD	13.54	110	111.09	6.19	21 J	21.17	6.02
EPP-10 7-8 ft	9 U	< LOD	6.1	290	285.64	10.02	260	255.29	8.12	21 U	< LOD	14.13	120	116.33	6.35	17 J	17.27	5.69
EPP-10 9-11 ft	9 U	< LOD	6.11	270	264.79	9.81	280	280.49	8.49	20 U	< LOD	13.13	99	99.05	5.87	19 J	19.15	5.77
EPP-10 12-14 ft	9 U	< LOD	6.12	270	266.22	9.81	230	225.22	7.75	21 U	< LOD	13.74	110	113.32	6.3	18 J	17.65	5.77
EPP-10 15-17 ft	9 U	< LOD	5.99	240	239.15	9.22	220	217.59	7.46	20 U	< LOD	13.07	120	116.51	6.2	21 J	20.6	5.88
EPP-11 2.5-4.5 ft	9 U	< LOD	6.21	250	246.04	9.92	340	336.64	9.45	23 J	23.27	10.01	100	103.6	6.25	20 J	20.24	6.06
EPP-11 5-7 ft	10 U	< LOD	6.47	260	254.88	10.54	400	396.15	10.57	27 J	26.92	10.12	84	84.04	5.98	15 J	15.23	6.01
EPP-11 7.5-9.5 ft	9 U	< LOD	6.29	300	302.7	10.4	250	247.93	8.15	20 U	< LOD	13.42	90	89.88	5.78	16 J	16.12	5.6
EPP-11 10-12 ft	9 U	< LOD	6.11	270	272.95	9.99	260	263.93	8.34	19 U	< LOD	12.87	91	90.98	5.71	16 J	15.87	5.61
EPP-12 0-2 ft	9 U	< LOD	6.21	250	253.06	9.86	260	261.05	8.4	22 U	< LOD	14.48	110	113.88	6.45	26 J	26.48	6.45
EPP-12 2.5-4.5 ft	9 U	< LOD	6.05	240	238.18	9.5	260	264.17	8.33	21 U	< LOD	14.33	120	122.54	6.53	19 J	19.11	5.87
EPP-12 5-7 ft	9 U	< LOD	6.02	250	253.2	9.65	260	257.82	8.19	20 U	< LOD	13.62	110	113.62	6.25	24 J	23.92	6.17
EPP-12 7.5-9.5 ft	9 U	< LOD	5.91	230	233.76	9.37	280	277.81	8.43	20 U	< LOD	13.63	120	115.34	6.25	21 J	20.71	5.91
EPP-13 2-3 ft	9 U	< LOD	6.03	240	240.29	9.55	250	254.22	8.22	20 U	< LOD	13.61	100	100.81	6.02	17 J	16.95	5.68
EPP-13 2-3 ft R	9 U	< LOD	6.16	250	245.68	9.73	260	262.23	8.41	21 U	< LOD	14.05	110	104.91	6.2	17 J	17.28	5.78
EPP-13 3.5-5.5 ft	9 U	< LOD	6.11	270	270.38	10.21	310	309.11	9.11	21 U	< LOD	14.15	100	100.12	6.11	20 J	19.95	5.98
EPP-13 6-8 ft	9 U	< LOD	6.12	240	244.45	9.88	310	308.39	9.11	21 U	< LOD	14.18	110	104.76	6.22	22 J	22.26	6.13
EPP-13 8.5-10.5 ft	9 U	< LOD	5.95	220	218.86	9.39	320	324.47	9.16	21 U	< LOD	14.19	120	116.05	6.37	24 J	23.76	6.18
EPP-14 2-4 ft	9 U	< LOD	6.05	240	243.21	9.76	330	327.27	9.24	16 J	16.31	9.11	84	84.25	5.63	16 J	16.32	5.57
EPP-14 4.5-6.5 ft	7 J	6.68	4.28	260	260.45	10.26	330	326.62	9.49	20 U	< LOD	13.39	82	81.68	5.65	10 J	9.5	5.19
EPP-14 7-9 ft	9 U	< LOD	6.28	270	265.35	10.13	290	285.92	8.82	20 U	< LOD	13.34	89	89.21	5.8	15 J	14.87	5.56
EPP-14 9.5-11.5 ft	9 U	< LOD	6.29	290	292.76	10.46	280	279.85	8.73	14 J	13.67	8.92	80	80.05	5.58	13 J	13.04	5.36
TBWRS-1 0-2 in	9 U	< LOD	6.31	270	272.33	10.67	430	427.71	10.77	20 J	20	9.76	86	85.58	5.87	21 J	21.04	6.56
TBWRS-1 2-12 in	9 U	< LOD	6.21	390	387.38	11.7	370	373.58	9.89	20 U	< LOD	13.37	92	92.41	5.81	27 J	26.76	6.43
TBWRS-2 0-2 in	10 U	< LOD	6.34	470	466.47	12.55	390	392.3	10.08	20 U	< LOD	13.66	93	93.45	5.84	23 J	22.62	6.32
TBWRS-2 2-12 in	9 U	< LOD	5.98	300	301.53	10.57	400	398.99	10.06	20 U	< LOD	13.34	91	91	5.7	12 J	11.72	5.35
TBWRS-3 0-2 in	10 U	< LOD	6.43	430	432.42	12.31	410	412.05	10.38	18 J	18.45	9.53	87	86.67	5.78	27 J	27.23	6.8
TBWRS-3 2-12 in	9 U	< LOD	6.2	350	351.3	11.09	340	341.2	9.37	21 U	< LOD	14.02	110	109.03	6.19	23 J	22.52	6.14
TBWRS-4 0-2 in	9 U	< LOD	6.04	320	315.16	10.65	350	345.86	9.41	19 J	18.69	9.27	87	87.28	5.69	20 J	20.28	6.39
TBWRS-4 2-12 in	9 U	< LOD	6.21	360	362.58	11.36	380	378.84	9.91	21 U	< LOD	14.21	100	104.47	6.14	20 J	20.22	6.07
TBWRS-5 0-2 in	9 U	< LOD	5.91	240	240.38	9.51	330	333.26	9.1	20 U	< LOD	13.47	96	96.3	5.78	20 J	20.31	6.17
TBWRS-5 2-12 in	9 U	< LOD	6.08	330	330.75	10.79	350	347.69	9.4	21 U	< LOD	13.84	110	109.05	6.15	14 J	14.35	5.64
TBWRS-6 0-2 in	9 U	< LOD	5.91	250	244.93	9.65	320	316.55	8.98	17 J	17.31	9.07	86	86.25	5.63	20 J	20.23	6.37
TBWRS-6 2-12 in	9 U	< LOD	5.99	250	251.83	9.84	350	344.94	9.39	19 U	< LOD	12.68	85	85.44	5.51	22 J	21.84	5.98
TBWRS-7 0-2 in	10 U	< LOD	6.36	380	379.81	11.65	400	397.14	10.16	16 J	16.06	9.29	85	84.95	5.69	24 J	23.64	6.6
TBWRS-7 2-12 in	10 U	< LOD	6.48	470	466.19	12.78	440	440.13	10.78	21 U	< LOD	14.04	98	98.41	6.04	20 J	19.86	6.01
TBWRS-8 0-2 in	9 U	< LOD	5.88	270	266.66	9.83	380	384.02	9.62	20 U	< LOD	13.61	96	95.7	5.72	11 J	11.49	5.18
TBWRS-8 2-12 in	9 U	< LOD	5.83	250	249.21	9.57	370	370.89	9.44	21 U	< LOD	13.84	110	107	5.98	16 J	15.74	5.44
TBWRS-9 0-2 in	9 U	< LOD	6.06	260	256.38	9.81	350	352.84	9.4	20 U	< LOD	13.38	98	97.99	5.83	17 J	17.01	5.65
TBWRS-9 2-12 in	9 U	< LOD	6.09	290	293.03	10.68	440	441.46	10.66	22 U	< LOD	14.44	100	102.71	6.12	18 J	18.46	5.88
TBWRS-10 0-2 in	10 U	< LOD	6.98	650	649.39	15.17	490	488.71	11.73	17 J	17.26	10.09	90	90.09	6.12	23 J	23.16	6.94
TBWRS-10 0-2 in R	10 U	< LOD	6.97	660	662.53	15.27	480	481.98	11.64	22 U	< LOD	14.39	95	95.08	6.15	20 J	20.37	6.81
TBWRS-10 2-12 in	9 U	< LOD	6.22	220	223.75	9.91	400	396.45	10.36	22 U	< LOD	14.89	120	118.95	6.63	22 J	22.31	6.28
TBWRS-11 0-2 in	9 U	< LOD	6.15	330	325.29	11.01	320	321.03	9.19	17 J	17.38	9.73	110	106.21	6.27	120	117.46	10.89
TBWRS-11 2-12 in	9 U	< LOD	6.14	300	302.42	10.46	300	299.43	8.86	21 U	< LOD	13.78	110	105.44	6.13	15 J	15.49	5.63
TBWRS-12 0-2 in	9 U	< LOD	6.12	370	370.56	11.62	480	479.92	11.04	20 U	< LOD	13.45	86	86.07	5.61	25 J	25.11	6.52
TBWRS-12 2-12 in	9 U	< LOD	6.16	350	352.55	11.33	470	466.52	10.87	20 U	< LOD	13.34	83	82.8	5.51	8 J	8.08	4.95

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
TBWRS-13 0-2 in	9 U	< LOD	6.05	320	315.48	10.32	280	276.18	8.3	19 U	< LOD	12.78	90	90.21	5.58	30 J	29.83	6.83
TBWRS-13 2-12 in	9 U	< LOD	6.06	330	331.15	10.67	310	306.72	8.83	19 U	< LOD	12.66	91	91.47	5.63	12 J	12.42	5.24
TBWRS-14 0-2 in	9 U	< LOD	6.02	330	327.89	10.59	340	340.24	9.18	20 U	< LOD	13.29	98	98.33	5.8	10 J	9.84	5.37
TBWRS-14 2-12 in	9 U	< LOD	6.04	310	314.23	10.97	490	486.09	11.1	21 U	< LOD	13.67	94	94.18	5.81	20 J	19.67	5.86
TBWRS-15 0-2 in	10 U	< LOD	6.4	390	384.82	12.25	520	520.75	11.85	21 U	< LOD	14.11	85	84.79	5.78	24 J	24.32	6.67
TBWRS-15 2-12 in	9 U	< LOD	6.01	250	246.31	10.14	450	448.38	10.78	20 U	< LOD	13.44	110	104.86	6.07	18 J	17.9	5.76
TBWRS-16 0-2 in	9 U	< LOD	6.08	270	272.38	10.15	370	372.05	9.71	20 U	< LOD	13.56	100	100.25	5.93	26 J	25.55	6.81
TBWRS-16 2-12 in	9 U	< LOD	6.16	300	298.81	10.49	320	324.16	9.21	20 U	< LOD	13.56	110	111.24	6.23	22 J	21.88	6.15
TBWRS-17 0-2 in	9 U	< LOD	6.24	300	296.38	11.53	690	692.42	13.53	20 U	< LOD	13.4	77	77.13	5.46	15 J	15.4	5.68
TBWRS-17 2-12 in	9 U	< LOD	6.14	340	336.83	11.17	480	484.02	11.03	20 U	< LOD	13.56	98	97.74	5.86	14 J	13.6	5.51
TBWRS-18 0-2 in	9 U	< LOD	6.26	380	384.38	12.03	560	554.88	11.94	21 U	< LOD	13.85	100	99.67	5.99	20 J	19.71	6.39
TBWRS-18 2-12 in	10 U	< LOD	6.41	380	382.57	12.29	550	553.56	12.21	22 U	< LOD	14.71	110	111.54	6.45	19 J	18.81	6.1
TBWRS-18 2-12 in R	10 U	< LOD	6.34	380	382.31	12.15	540	539.84	11.97	22 U	< LOD	14.4	110	112.42	6.39	13 J	12.88	5.65
TBWRS-19 0-2 in	9 U	< LOD	6.14	360	360.01	11.2	380	381	9.81	20 U	< LOD	13.15	83	82.51	5.47	20 J	19.97	6.28
TBWRS-19 2-12 in	9 U	< LOD	6.32	340	337.71	11.35	450	444.82	10.81	21 U	< LOD	14.09	95	95.25	5.96	24 J	23.69	6.23
TBWRS-20 0-2 in	9 U	< LOD	6	310	309.42	10.43	380	375.35	9.59	18 U	< LOD	12.32	81	81.08	5.29	20 J	19.86	6.07
TBWRS-20 2-12 in	9 U	< LOD	5.95	300	298.42	10.54	420	415.67	10.22	20 U	< LOD	13.21	90	90.43	5.66	15 J	14.86	5.4
TBWRS-21 0-2 in	9 U	< LOD	5.97	310	310.05	10.65	420	422.36	10.25	21 U	< LOD	13.92	100	101.36	5.95	19 J	19.15	5.93
TBWRS-21 2-12 in	10 U	< LOD	6.58	490	494.2	13.37	460	461.7	11.23	21 U	< LOD	14.16	100	100.27	6.18	29 J	29.47	6.78
TBWRS-22 0-2 in	9 U	< LOD	6.16	330	329.47	11.26	500	497.44	11.31	21 U	< LOD	13.81	93	92.83	5.83	19 J	18.53	6.02
TBWRS-22 2-12 in	9 U	< LOD	6.33	380	375.38	11.99	470	473.66	11.29	20 U	< LOD	13.59	94	93.5	5.92	19 J	19.48	6.02
TBWRS-23 0-2 in	9 U	< LOD	6.18	250	246.64	9.42	160	158.89	6.6	20 U	< LOD	13.39	97	97.38	5.94	31 J	31.14	6.75
TBWRS-23 2-12 in	9 U	< LOD	5.93	260	262.24	9.91	340	337.51	9.26	21 U	< LOD	13.98	110	113.02	6.24	21 J	20.91	6.05
TBWRS-24 0-2 in	9 U	< LOD	6.24	330	331.36	10.9	320	318.16	9.14	20 U	< LOD	13.52	92	92.26	5.82	23 J	22.75	6.56
TBWRS-24 2-12 in	9 U	< LOD	6.11	320	319.45	10.58	270	271.77	8.44	20 U	< LOD	13.52	97	96.99	5.91	18 J	17.69	5.7
TBWRS-25 0-2 in	10 U	< LOD	6.56	380	379.08	11.82	330	326.57	9.53	20 U	< LOD	13.48	90	89.68	5.88	18 J	17.66	6.2
TBWRS-25 2-12 in	10 U	< LOD	6.44	450	450.68	12.11	270	273.27	8.48	20 U	< LOD	13.19	87	86.91	5.65	10 J	10.37	5.16
RM-1-2 2-3 ft	9 U	< LOD	6	250	249.02	10.03	410	413.24	10.31	21 U	< LOD	13.85	100	101.04	6.01	18 J	17.54	5.69
RM-1-2 4-5 ft	9 U	< LOD	6.23	330	330.11	11.07	360	363.79	9.84	21 U	< LOD	14.21	120	115.98	6.44	9 J	8.96	5.24
RM-2-7 2-3 ft	9 U	< LOD	6.01	230	225.08	9.51	370	372.09	9.72	21 U	< LOD	13.69	100	101.58	5.97	9 J	9.39	5.13
RM-2-7 4-5 ft	9 U	< LOD	5.87	240	240.74	9.53	280	281.75	8.53	20 U	< LOD	13.54	100	103.58	6.02	23 J	23.22	6.06
RM-3-3 3-4 ft	9 U	< LOD	6.26	320	315.88	10.94	350	347.34	9.68	22 U	< LOD	14.38	110	110.12	6.37	18 J	18.25	5.97
RM-3-3 5-6 ft	9 U	< LOD	6.09	270	269.1	9.93	280	275.37	8.47	20 U	< LOD	13.44	97	96.92	5.89	21 J	20.64	5.92
RM-4-1 3-4 ft	9 U	< LOD	6.02	200	197.6	9.64	470	473.64	11.17	22 U	< LOD	14.55	100	102.05	6.17	17 J	17.44	5.87
RM-4-1 5-6 ft	9 U	< LOD	6.2	290	292.67	10.43	300	299.22	8.93	21 U	< LOD	13.82	100	99.72	6.05	18 J	17.89	5.81
RM-5-2 2-3 ft	9 U	< LOD	5.89	240	242.5	9.78	360	355.94	9.58	20 U	< LOD	13.64	100	103.11	6.03	16 J	15.58	5.78
RM-5-2 4-5 ft	9 U	< LOD	5.99	220	220.25	9.5	370	371.05	9.75	21 U	< LOD	14.14	110	109.66	6.22	19 J	18.98	5.82
RM-6-1 6.5-7.5 ft	9 U	< LOD	5.94	270	272.26	9.88	290	287.57	8.54	21 U	< LOD	13.92	120	115.22	6.27	22 J	21.91	6
RM-6-1 8.5-9.5 ft	9 U	< LOD	6.27	410	404.64	11.55	330	332.03	9.16	21 U	< LOD	13.76	110	112.08	6.18	13 J	13.34	5.42
RM-7-2 6-7 ft	9 U	< LOD	5.9	270	267.91	10.38	510	511.3	11.27	24 U	< LOD	16.01	180	175.17	7.56	23 J	22.86	6.29
RM-7-2 8-9 ft	9 U	< LOD	5.96	240	239.75	9.99	480	482.07	10.99	22 U	< LOD	14.9	120	119.78	6.47	20 J	20	5.96
RM-8-7 5-6 ft	10 U	< LOD	6.48	350	349.18	11.79	410	409.41	10.76	23 U	< LOD	15.42	130	127.65	6.98	15 J	15.4	6.02
RM-8-7 7-8 ft	9 U	< LOD	6.1	240	240.64	10.31	560	558.58	11.94	22 U	< LOD	14.36	110	105.39	6.15	17 J	16.82	5.71
RM-8-7 7-8 ft R	9 U	< LOD	6.19	250	252.36	10.38	550	546.1	11.77	15 J	14.85	9.87	100	103.55	6.15	15 J	14.64	5.56
RM-9-1 0-2 in	12 J	12.11	4.99	180	177.77	11.25	690	692.79	15.15	130	126.5	14.5	30	29.53	5.72	12 U	< LOD	7.72
RM-9-1 2-12 in	25 J	25.38	5.49	130	132.94	11.54	820	815.32	17.29	130	132.81	15.57	20 J	20.38	5.8	10 J	10.45	6.32
RM-100 0-2 in	9 J	8.86	4.91	200	204.17	11.49	670	666.34	14.78	120	116.75	14.09	33	33.35	5.71	11 U	< LOD	7.09
RM-9-2 0-2 in	9 U	< LOD	6.25	170	170.47	9.43	470	464.61	11.29	50 J	50.13	10.21	46	45.66	4.94	11 J	11.47	5.64
RM-9-2 2-12 in	10 U	< LOD	6.45	210	214.05	10.19	450	453.05	11.32	41 J	41.48	10.95	86	85.55	6.17	22 J	22.13	6.79
RM-9-3 0-2 in	11 U	< LOD	7.18	150	145.7	10.79	660	656.63	14.77	82	81.7	13.99	82	81.74	6.99	14 U	< LOD	9.6
RM-9-3 2-12 in	9 U	< LOD	6.14	150	151	8.84	380	377.84	10.07	15 J	15.38	10.22	120	115.39	6.55	13 U	< LOD	8.53
RM-9-4 0-2 in	10 J	9.57	4.86	200	199.29	11.4	690	686.57	14.88	110	104.59	13.46	28	27.52	5.36	11 J	11.2	6.06
RM-9-4 2-12 in	22 J	21.7	5.25	230	229.88	12.37	740	742.91	15.93	88	87.59	13.56	39	38.79	5.79	13 J	13.44	6.67
RM-9-5 0-2 in	9 U	< LOD	6.29	170	172.24	9.47	520	520.32	11.78	61	61.22	10.26	30	30.25	4.46	11 U	< LOD	7.05
RM-9-5 2-12 in	9 J	8.98	5.02	220	222.67	12.57	870	871.12	17.17	110	108.2	14.14	22 J	21.54	5.37	9 J	8.7	5.75

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-9-5 2-12 in R	11 U	< LOD	7.42	230	231.59	12.64	870	869.28	17.09	110	107.5	14.15	26 J	26.3	5.52	12 U	< LOD	8.24
RM-9-6 0-2 in	11 U	< LOD	7.14	240	242.65	11.74	650	652.67	14.31	89	88.78	12.95	43	43.01	5.66	13 U	< LOD	8.93
RM-9-6 2-12 in	24 J	23.53	5.24	210	206.11	11.87	710	710.27	15.52	89	89	13.64	46	45.56	6	14 U	< LOD	9.07
RM-10-1 0-2 in	9 J	8.57	4.63	250	250.09	11.22	520	524.31	12.54	63	63.47	12.13	76	76.41	6.3	18 J	17.82	6.34
RM-10-1 2-12 in	14 J	14.3	5.01	240	241.79	11.95	580	576.67	13.95	50 J	50.42	12.32	71	70.92	6.43	17 J	17.4	6.81
RM-10-2 0-2 in	10 J	9.88	4.52	170	165.66	9.78	530	530.11	12.36	100	99.5	12.09	23 J	23.45	4.78	10 U	< LOD	6.55
RM-10-2 2-12 in	8 J	8.07	4.58	160	159.9	10.43	710	709.35	14.52	100	102.62	12.84	26	25.94	5.07	12 U	< LOD	7.68
RM-10-3 0-2 in	13 J	13.17	4.41	140	140.22	9.3	560	558.52	12.43	76	75.57	11.02	24	24.36	4.49	11 U	< LOD	7.34
RM-10-3 2-12 in	18 J	18.06	5.11	170	172.01	11.52	800	795.54	16.27	120	118.55	14.3	24 J	24.1	5.5	12 U	< LOD	8.15
RM-10-4 0-2 in	9 J	9.28	4.86	220	219.8	11.73	720	716.78	15.14	100	104.44	13.54	32	32.4	5.52	12 U	< LOD	8.02
RM-10-4 2-12 in	10 J	9.85	5.05	170	174.4	11.8	810	814.41	16.73	130	124.68	14.73	19 J	19.19	5.48	12 U	< LOD	8.21
RM-10-5 0-2 in	13 J	12.86	4.87	190	191.04	11.23	670	668.96	14.69	82	82.32	12.7	33	33.34	5.34	9 J	9.34	5.98
RM-10-5 2-12 in	9 J	9.46	4.64	210	214.48	10.81	510	511.83	12.53	56	56.19	11.1	41	40.58	5.13	13 U	< LOD	8.91
RM-10-6 0-2 in	25 J	24.52	5.33	190	184.98	11.34	560	558.16	14.09	79	79.35	13.4	53	53.34	6.26	11 J	11.41	6.51
RM-10-6 2-12 in	11 U	< LOD	7.27	180	174.88	10.86	550	544.61	13.61	82	82.45	12.97	44	44.33	5.83	11 J	11.13	6.1
RM-10-6 2-12 in R	12 J	12.27	4.98	190	186.84	11.07	540	542.77	13.63	76	75.96	12.68	41	41.22	5.67	12 U	< LOD	8.28
CF-14 16-22 in	9 U	< LOD	6.1	220	218.1	9.86	440	436.21	10.79	20 U	< LOD	13.65	95	95.14	5.94	10 J	9.97	5.21
CF-16 4-12 in	9 U	< LOD	6.09	310	309.95	10.72	410	406.02	10.17	19 U	< LOD	12.79	90	89.54	5.62	18 J	17.51	5.64
CF-20 6-12 in	9 U	< LOD	6.23	280	282.28	10.71	460	460.53	11.01	21 U	< LOD	13.92	82	82.21	5.64	16 J	16.28	5.62
CF-30 0-2 in	9 U	< LOD	6.06	330	325.74	10.58	310	313.69	8.89	20 U	< LOD	13.12	94	93.57	5.71	21 J	21.04	6.06
CF-31 0-2 in	10 U	< LOD	6.37	310	311.69	11.12	410	411.34	10.57	22 U	< LOD	14.64	120	114.93	6.53	19 J	18.58	6.07
CF-32 0-2 in	9 U	< LOD	6.07	390	391.03	11.4	340	340.73	9.25	20 U	< LOD	13.3	90	90.36	5.65	16 J	15.66	5.64
CF-32 0-2 in R	9 U	< LOD	6.17	390	388.13	11.48	360	357.66	9.52	20 U	< LOD	13.2	96	95.77	5.79	25 J	25.09	6.31
CF-33 0-2 in	9 U	< LOD	5.99	360	357.48	10.96	310	310.35	8.85	19 U	< LOD	12.65	96	96.38	5.72	20 J	20.05	6.01
CF-34 0-2 in	9 J	9.36	4.65	160	163.46	10.41	640	640.48	13.98	93	93.44	12.73	33	33.48	5.29	12 U	< LOD	8.11
FTS-1 0-2 in	10 J	9.76	4.9	210	213.34	11.97	760	760.43	15.85	80	79.54	12.82	29	28.5	5.24	11 J	10.77	6.44
FTS-2 0-2 in	11 U	< LOD	7.23	240	241.21	12.64	810	811.93	16.56	61 J	60.77	12.44	37	36.6	5.42	10 J	9.6	5.9
FTS-3 0-2 in	11 U	< LOD	7.24	240	235.45	12.58	820	815.78	16.61	72	71.57	12.75	31	30.73	5.31	11 J	11.32	5.99
FTS-4 0-2 in	11 U	< LOD	7.32	220	218	12.22	800	798.84	16.35	73	73.47	12.82	33	33.03	5.39	13 U	< LOD	8.86
FTS-5 0-2 in	11 U	< LOD	7.36	210	212.04	12.28	790	790.32	16.49	67	67.09	12.65	31	30.76	5.3	13 U	< LOD	8.93
FTS-6 0-2 in	11 J	10.97	5.02	230	234.09	12.64	830	828.42	16.78	75	74.51	12.89	28	27.83	5.25	17 J	16.66	6.53
FTS-7 0-2 in	12 U	< LOD	7.77	260	257.19	13.8	940	937.89	18.58	67 J	67.3	13.53	36	35.75	5.76	12 J	11.73	6.33
FTS-8 0-2 in	11 U	< LOD	7.26	220	220.2	12.32	810	813.56	16.54	89	88.93	13.37	25 J	25.44	5.29	13 U	< LOD	8.88
FTS-9 0-2 in	11 U	< LOD	7.47	210	206.69	12.5	840	843.73	17.21	74	73.92	13.07	24 J	24.45	5.21	11 J	10.7	6.36
FTS-10 0-2 in	11 U	< LOD	7.51	240	237.48	13.28	920	923.17	18.17	65 J	64.51	13.1	30	29.97	5.41	13 U	< LOD	8.74
FTS-11 0-2 in	11 U	< LOD	7.62	240	244.47	13.35	910	904.83	18.02	70	69.79	13.26	30	29.73	5.46	13 U	< LOD	8.95
FTS-12 0-2 in	11 U	< LOD	7.56	220	222.6	13.01	870	867.99	17.75	66	66.37	13.04	28	27.9	5.35	15 J	15.14	6.5
FTS-13 0-2 in	11 U	< LOD	7.5	220	222.08	12.63	830	834.23	17.01	83	82.6	13.45	30	29.58	5.47	17 J	16.69	6.74
FTS-14 0-2 in	10 U	< LOD	6.68	250	251.36	10.92	480	484.32	11.85	37 J	37.14	10.98	86	86.48	6.25	18 J	18.19	6.29
FTS-15 0-2 in	10 U	< LOD	6.38	230	229.69	10.27	440	437.96	11.05	32 J	31.78	10.21	78	77.6	5.82	16 J	16.01	5.93
FTS-16 0-2 in	9 J	8.99	4.96	220	217.97	12.41	820	822.11	16.74	69	68.75	12.75	32	31.6	5.34	13 J	13.06	6.18
FTS-17 0-2 in	11 U	< LOD	7.44	240	243.8	13.22	870	870.2	17.64	77	76.88	13.45	28	28.45	5.46	12 J	12.02	6.15
FTS-18 0-2 in	11 U	< LOD	7.49	230	233.63	12.9	830	825.88	17.12	79	78.7	13.42	29	29.4	5.48	11 J	11.16	6.57
FTS-100 0-2 in	11 U	< LOD	7.54	230	233.36	12.93	840	841.78	17.27	74	74.07	13.27	31	31.18	5.5	12 J	11.88	6.51
FTS-19 0-2 in	10 U	< LOD	6.65	250	244.82	10.9	480	475.24	11.85	39 J	38.61	10.98	78	78.36	6.09	14 J	13.89	5.98
FTS-19 0-2 in R	10 U	< LOD	6.63	240	244.09	10.89	470	472.43	11.82	33 J	33.02	10.81	82	82.04	6.15	15 J	15.16	6.14
FTS-20 0-2 in	10 J	10.34	4.78	190	193	11.13	660	654.76	14.42	82	82.09	12.65	39	38.72	5.49	12 J	11.56	6.46
FTS-21 0-2 in	11 J	11.23	4.83	200	198.6	11.26	650	652.64	14.46	81	81.44	12.53	32	32.15	5.27	15 U	< LOD	9.75
SGW-1 0-2 in	18 J	18.41	5.06	180	176.36	11.06	600	598.34	14.16	81	80.6	13.86	81	81.11	6.98	15 U	< LOD	10.26
SGW-1 2-12 in	19 J	18.83	4.99	220	214.99	11.16	510	510.34	12.88	61 J	61.38	12.97	96	96.07	7.1	12 J	12.31	6.81
SGW-2 0-2 in	17 J	17.25	4.93	170	165.84	10.59	590	584.79	13.7	91	90.74	13.48	63	63.47	6.38	15 U	< LOD	9.82
SGW-2 2-12 in	17 J	17.09	4.88	200	199.44	10.87	540	542.16	13.07	75	75.26	12.9	72	71.97	6.43	11 J	10.5	6.44
SGW-100 2-12 in	16 J	15.75	4.9	190	187.23	10.92	570	574.07	13.61	72	71.85	13.17	78	77.64	6.66	15 U	< LOD	9.75
SGW-3 0-2 in	13 J	13.21	4.91	160	160.23	10.7	600	597.72	14.01	90	90.45	13.8	67	66.54	6.56	16 U	< LOD	10.56
SGW-3 2-12 in	8 J	7.96	4.7	190	187.55	10.77	580	580.35	13.47	84	84.31	13.07	63	62.82	6.22	13 U	< LOD	8.88

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Molybdenum			Zirconium			Strontium			Uranium			Rubidium			Thorium		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
SGW-4 0-2 in	15 J	15.49	4.75	200	199.41	10.42	450	445.26	11.73	56 J	55.51	11.65	69	68.74	6.06	14 U	< LOD	9.35
SGW-4 2-12 in	11 J	10.76	4.71	160	162.07	10.37	560	558.7	13.28	64	63.65	12.71	81	81.44	6.63	13 J	13.21	6.96
SGW-4 2-12 in R	12 J	11.79	4.79	170	167.54	10.6	570	574.48	13.58	66	65.91	13	87	86.96	6.87	11 J	11.33	6.74
SGW-5 0-2 in	13 J	12.53	4.71	190	189.69	10.63	550	549.83	13.04	61	60.69	12.01	63	63.47	6	13 J	13.41	6.52
SGW-5 2-12 in	10 U	< LOD	6.67	210	212.24	10.66	560	555.11	12.72	55 J	54.55	11.63	73	73.31	6.06	12 J	12.18	6.38
< DL	175			0			0			131			0			36		
J-Qualified	50			0			0			34			8			184		
Detected	0			225			225			60			217			5		

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation
U - Concentration < LOD
J - Concentration >LOD and < PQL
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Table 1 - Soil Quality Data - XRF

Sample ID	Lead			Selenium			Arsenic			Mercury			Zinc			Tungsten		
	Threshold = 110 mg/Kg						Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg					
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
SGW-1 0-2 in	130	125.95	13.45	36	35.81	6.32	75	75.45	12.81	29 U	< LOD	19.48	8,400	8409.49	118.63	250 U	< LOD	168.83
SGW-1 0-2 in	140	135.19	13.75	31	31.46	6.01	60 J	60.04	12.59	25 J	24.96	13.23	8,800	8794.94	120.92	250 U	< LOD	168.45
SGW-1 0-2 in R	130	129.27	13.56	36	36.3	6.29	70	70.12	12.72	29 U	< LOD	19.59	8,700	8732.26	120.43	250 U	< LOD	168.87
SGW-1 2-12 in	85	84.81	11.03	30	30.12	5.68	45 J	45.22	10.14	24 U	< LOD	15.8	4,000	4013.39	79.07	200 U	< LOD	130.94
SGW-1 1-2 ft	31 J	30.76	6.86	5 J	5.27	3.15	12 J	12.13	5.88	15 U	< LOD	9.96	380	375.8	23.07	100 U	< LOD	69.1
SGW-1 4-5 ft	46	46.3	8.51	7 U	< LOD	4.43	16 U	< LOD	10.54	16 U	< LOD	10.51	230	226.52	20.73	110 U	< LOD	73.91
SGW-2 0-2 in	110	113.94	12.96	34	34.09	6.21	40 J	40.13	11.42	27 U	< LOD	18.17	5,500	5537.69	96.74	220 U	< LOD	149.43
SGW-2 0-2 in R	120	123.01	13.37	33	33.43	6.21	36 J	36.22	11.61	27 U	< LOD	17.78	5,500	5549.33	97.12	230 U	< LOD	151.22
SGW-2 2-12 in	86	86.07	11.88	46	45.72	7.03	71	70.55	11.57	30 U	< LOD	20	8,000	7975.3	115.95	260 U	< LOD	173.1
SGW-3 0-2 in	150	151.8	14.43	37	36.64	6.58	54 J	54.37	12.86	31 U	< LOD	20.67	9,100	9070.15	122.32	270 U	< LOD	179.55
SGW-3 2-12 in	80	80.01	11.29	51	51.28	6.99	79	78.82	11.3	30 U	< LOD	19.69	8,600	8634.4	116.88	250 U	< LOD	169.18
SGW-3 1-2 ft	81	80.71	11.03	40	40.19	6.14	45 J	44.72	10.06	24 U	< LOD	16.31	4,600	4622.51	84.68	200 U	< LOD	131.36
SGW-3 4-5 ft	32 J	32.18	8.49	9 U	< LOD	5.97	15 U	< LOD	10.11	18 U	< LOD	12.25	120	118.03	18.58	130 U	< LOD	86.42
SGW-4 0-2 in	94	93.62	11.1	17 J	16.9	4.76	38 J	38.44	10.02	23 U	< LOD	15.13	4,100	4090.38	78.86	190 U	< LOD	126.02
SGW-4 2-12 in	140	135.29	13.97	43	43.41	6.95	51 J	50.92	12.41	31 U	< LOD	20.37	8,800	8792.86	121.33	270 U	< LOD	178.59
SGW-5 0-2 in	66	66.02	9.9	18 J	18.29	4.9	30 J	30.09	8.89	23 U	< LOD	15.57	4,300	4321.58	82.06	200 U	< LOD	129.81
SGW-5 2-12 in	93	92.92	11.37	30	29.95	5.57	46 J	45.93	10.39	25 U	< LOD	16.44	5,400	5443.97	91.43	200 U	< LOD	136.24
SGW-5 1-2 ft	29 J	28.82	7.37	10 J	9.7	3.8	15 J	15.38	6.34	16 U	< LOD	10.92	740	736.76	33.02	120 U	< LOD	78.65
SGW-5 4-5 ft	22 J	22.2	6.81	8 U	< LOD	5.09	13 U	< LOD	8.54	16 U	< LOD	10.74	31 J	31.07	12.66	120 U	< LOD	76.47
SGW-6 0-2 in	33 J	33.29	7.59	14 J	13.77	4.23	27 J	26.65	7.09	19 U	< LOD	12.54	2,100	2055.83	54.71	150 U	< LOD	100.29
SGW-6 2-12 in	21 J	21.45	6.32	7 U	< LOD	4.83	11 J	11.27	5.48	16 U	< LOD	10.53	380	381.76	23.7	110 U	< LOD	73.42
SGW-6 2-12 in R	21 J	20.67	6.33	6 J	6.36	3.37	12 U	< LOD	7.86	16 U	< LOD	10.39	410	406.23	24.44	110 U	< LOD	73.94
EPP-1 2-4 ft	37 J	37.17	7.71	6 J	6.39	3.52	10 J	10.34	6.46	16 U	< LOD	10.94	210	210.4	19.15	110 U	< LOD	72.28
EPP-1 4.5-6.5ft	120	116.95	11.75	8 U	< LOD	5.17	22 U	< LOD	14.58	18 U	< LOD	11.83	820	819.71	35.51	130 U	< LOD	84.71
EPP-1 7-9 ft	92	91.92	11.1	12 J	11.56	4.31	34 J	33.62	9.9	26 J	25.66	9.14	220	222.25	21.16	120 U	< LOD	82.94
EPP-1 9.5-11.5f	67	67	9.02	7 J	7.21	3.32	15 J	14.8	7.62	19 J	19.37	6.97	140	137.37	15.47	94 U	< LOD	62.91
EPP-2 2-4 ft	17 J	17.37	5.86	6 U	< LOD	4.02	11 U	< LOD	7.4	15 U	< LOD	9.91	55 J	54.54	11.56	97 U	< LOD	64.75
EPP-2 4.5-6.5 ft	24 J	23.75	6.66	7 U	< LOD	4.61	11 J	11.21	5.8	16 U	< LOD	10.72	56 J	55.96	12.58	110 U	< LOD	73.88
EPP-2 7-9 ft	28 J	28.06	6.62	6 U	< LOD	4.23	14 J	14.35	5.89	14 U	< LOD	9.57	68	68.26	12.54	100 U	< LOD	68.83
EPP-2 9.5-11.5 ft	18 J	17.57	5.88	6 U	< LOD	4.19	11 J	11.2	5.18	12 J	11.68	6.51	65	65.36	12.03	94 U	< LOD	62.49
EPP-3 3-4 ft	19 J	18.98	6.08	5 J	4.82	3.11	22 J	21.89	5.84	14 U	< LOD	9.59	120	115.55	14.39	98 U	< LOD	65.19
EPP-3 5-7 ft	19 J	18.62	5.96	6 U	< LOD	4.26	8 J	7.98	5.04	14 U	< LOD	9.39	61	60.77	11.61	95 U	< LOD	63.26
EPP-3 5-7 ft R	22 J	21.89	6.17	6 U	< LOD	4.09	12 U	< LOD	7.79	14 U	< LOD	9.2	74	74.26	12.27	92 U	< LOD	61.17
EPP-3 8-10 ft	27 J	26.56	6.62	6 U	< LOD	4.06	13 U	< LOD	8.36	15 U	< LOD	9.73	65	64.99	12.34	100 U	< LOD	67.19
EPP-3 10.5-12.5 ft	20 J	19.61	6.09	6 U	< LOD	4.2	12 J	11.54	5.35	14 U	< LOD	9.54	64	64.14	12.39	110 U	< LOD	70
EPP-4 13-15 ft	28 J	28.04	6.8	7 U	< LOD	4.44	14 J	14.22	5.98	15 U	< LOD	9.94	73	73.49	12.93	100 U	< LOD	68.08
EPP-4 15.5-17.5 ft	37 J	36.55	7.64	7 U	< LOD	4.9	20 J	19.61	6.86	16 U	< LOD	10.71	89	89.13	14.43	110 U	< LOD	74.17
EPP-4 18-20 ft	23 J	22.71	6.49	7 U	< LOD	4.87	13 J	12.57	5.67	16 U	< LOD	10.53	67	66.58	12.78	77 J	76.57	49.7
EPP-4 20.5-22.5 ft	25 J	25.16	6.62	7 U	< LOD	4.5	17 J	16.98	5.99	14 U	< LOD	9.45	88	88.47	13.7	100 U	< LOD	68.03
EPP-5 5-6 ft	25 J	25.46	6.63	7 U	< LOD	4.34	12 J	12.21	5.78	15 U	< LOD	9.89	68	68.35	12.67	110 U	< LOD	69.67
EPP-5 7-9 ft	23 J	22.89	6.54	7 U	< LOD	4.6	16 J	15.78	5.9	16 U	< LOD	10.4	68	67.58	12.92	110 U	< LOD	71.17
EPP-5 10-11 ft	24 J	23.78	6.5	7 U	< LOD	4.53	13 J	13.23	5.71	15 U	< LOD	9.68	68	67.99	12.58	100 U	< LOD	69.61
EPP-5 12-14 ft	20 J	19.83	6.3	7 U	< LOD	4.59	11 J	10.91	5.46	15 U	< LOD	9.8	66	65.73	12.65	100 U	< LOD	68.87
EPP-6 3-5.5 ft	19 J	18.58	6.23	5 J	4.82	3.2	14 J	13.81	5.52	14 U	< LOD	9.54	73	73.35	12.71	99 U	< LOD	66.23
EPP-6 5.5-8 ft	23 J	22.59	6.42	7 U	< LOD	4.55	15 J	15.33	5.76	15 U	< LOD	9.91	74	73.76	12.89	100 U	< LOD	69.59
EPP-6 8.5-10.5 ft	22 J	21.83	6.23	6 U	< LOD	4.08	12 J	11.86	5.5	15 U	< LOD	10	76	75.94	13.06	110 U	< LOD	71.26
EPP-6 11-13 ft	31 J	30.78	6.96	6 U	< LOD	4.19	10 J	9.98	5.88	14 U	< LOD	9.06	86	86.2	13.26	94 U	< LOD	62.94
EPP-7 2-4 ft	19 J	19.47	6.01	6 U	< LOD	4.15	12 J	12.04	5.37	15 U	< LOD	9.99	48 J	47.65	11.35	100 U	< LOD	67.3
EPP-7 5-7 ft	19 J	18.62	5.94	6 U	< LOD	4.08	11 J	10.77	5.23	15 U	< LOD	9.71	56 J	56.23	11.88	100 U	< LOD	68.15
EPP-7 7.5-9.5 ft	16 J	16.45	5.69	6 U	< LOD	4.12	9 J	8.6	4.88	14 U	< LOD	9.3	38 J	37.78	10.12	94 U	< LOD	62.61
EPP-7 10-12 ft	21 J	21.13	6.19	6 U	< LOD	4.23	14 J	14.45	5.57	15 U	< LOD	9.77	50 J	50.04	11.36	100 U	< LOD	67.6
EPP-8 1-3.5 ft	15 J	15.17	5.83	7 U	< LOD	4.6	29 J	28.53	6.03	15 U	< LOD	9.89	100	101.49	14.05	100 U	< LOD	68.81
EPP-8 3.5-6 ft	18 J	18.48	5.96	6 U	< LOD	4.14	10 J	10.16	5.17	14 U	< LOD	9.06	64	64.26	11.81	94 U	< LOD	62.36
EPP-8 6.5-8.5 ft	20 J	19.62	6.02	6 U	< LOD	4.3	9 J	8.75	5.11	14 U	< LOD	9.59	67	66.94	11.95	100 U	< LOD	66.52
EPP-8 9-11ft	17 J	16.77	5.84	7 U	< LOD	4.44	13 J	12.78	5.18	14 U	< LOD	9.63	62	62.19	11.73	100 U	< LOD	67.54

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Lead			Selenium			Arsenic			Mercury			Zinc			Tungsten		
	Threshold = 110 mg/Kg						Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg					
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
EPP-8 9-11ft R	23 J	23.46	6.26	6 U	< LOD	4.16	9 J	8.88	5.3	14 U	< LOD	9.05	61	61.13	11.58	98 U	< LOD	65.51
EPP-100 2-4 ft	25 J	25.3	6.69	7 U	< LOD	4.79	19 J	18.51	6.13	16 U	< LOD	10.36	180	180.38	17.62	100 U	< LOD	69.47
EPP-100 4.5-6.5 ft	140	135.49	12.47	8 U	< LOD	5.21	21 J	21.02	10.48	13 J	12.64	8.17	800	797.84	34.91	130 U	< LOD	84.33
EPP-100 7-9 ft	100	102.81	11.76	14 J	14.1	4.44	18 J	17.89	9.77	37 J	36.7	9.17	250	254.42	21.96	120 U	< LOD	77.48
EPP-100 9.5-11.5 ft	63	62.73	8.67	6 J	6.45	3.23	15 J	14.59	7.35	16 J	15.68	6.79	98	97.93	13.49	95 U	< LOD	63.07
EPP-9 0-2 ft	25 J	24.79	6.86	7 U	< LOD	4.79	13 J	12.66	6.04	16 U	< LOD	10.37	140	139.3	17.1	120 U	< LOD	76.71
EPP-9 3-5 ft	21 J	20.82	6.14	7 U	< LOD	4.48	14 J	14.2	5.52	14 U	< LOD	9.6	74	74.07	12.7	100 U	< LOD	69.59
EPP-9 5.5-7.5 ft	20 J	20.04	6.13	6 U	< LOD	4.05	15 J	15.27	5.61	15 U	< LOD	9.97	69	69.38	12.53	98 U	< LOD	65.15
EPP-9 8-10 ft	30 J	30.42	6.77	6 U	< LOD	4.24	10 J	10.48	5.78	13 U	< LOD	8.93	76	75.66	12.54	99 U	< LOD	65.75
EPP-10 7-8 ft	18 J	17.52	5.93	7 U	< LOD	4.74	28 J	28.33	6.03	15 U	< LOD	9.88	94	94.38	13.63	100 U	< LOD	69.38
EPP-10 9-11 ft	22 J	21.59	6.17	7 U	< LOD	4.43	16 J	16.13	5.62	14 U	< LOD	9.54	67	66.59	12	99 U	< LOD	65.83
EPP-10 12-14 ft	19 J	19.14	6.06	7 U	< LOD	4.53	21 J	21.49	5.84	15 U	< LOD	9.99	68	67.52	12.35	100 U	< LOD	69.62
EPP-10 15-17 ft	25 J	24.63	6.31	6 U	< LOD	4.09	13 J	12.73	5.54	14 U	< LOD	9.17	64	63.51	11.44	93 U	< LOD	62.18
EPP-11 2.5-4.5 ft	30 J	29.62	6.94	5 J	5.08	3.25	31 J	30.87	6.82	16 U	< LOD	10.36	290	285.19	20.97	110 U	< LOD	70.07
EPP-11 5-7 ft	49	49.01	8.48	12 J	11.96	4.03	38 J	37.69	8.15	16 U	< LOD	10.99	540	543.85	29.08	120 U	< LOD	81.3
EPP-11 7.5-9.5 ft	18 J	18.41	6.02	7 U	< LOD	4.62	12 J	12.05	5.34	15 U	< LOD	9.8	59 J	59.44	12.02	110 U	< LOD	70.03
EPP-11 10-12 ft	26 J	26.44	6.5	6 U	< LOD	4.13	12 J	12.46	5.73	11 J	10.73	6.88	70	70.26	12.52	100 U	< LOD	67.11
EPP-12 0-2 ft	21 J	21.1	6.33	7 U	< LOD	4.49	21 J	20.65	5.98	16 U	< LOD	10.35	130	133.18	15.71	110 U	< LOD	71.8
EPP-12 2.5-4.5 ft	17 J	17.3	5.86	6 U	< LOD	3.89	15 J	15.16	5.39	15 U	< LOD	9.7	71	70.85	12.31	96 U	< LOD	64.26
EPP-12 5-7 ft	24 J	23.96	6.34	6 U	< LOD	4.11	10 J	10.37	5.47	15 U	< LOD	10.08	63	63.42	12.06	100 U	< LOD	68.26
EPP-12 7.5-9.5 ft	21 J	20.79	6.13	7 U	< LOD	4.35	12 J	11.64	5.35	14 U	< LOD	9.62	65	65.45	11.85	95 U	< LOD	63.32
EPP-13 2-3 ft	19 J	19.24	6.07	7 U	< LOD	4.48	14 J	13.65	5.45	15 U	< LOD	9.94	89	89.33	13.47	100 U	< LOD	66.58
EPP-13 2-3 ft R	19 J	18.8	6.21	7 J	7.16	3.34	15 J	14.98	5.59	14 U	< LOD	9.59	79	78.83	13.01	98 U	< LOD	65.09
EPP-13 3.5-5.5 ft	21 J	21.17	6.21	6 U	< LOD	3.95	11 J	10.94	5.45	15 U	< LOD	10.18	51 J	51.3	11.7	100 U	< LOD	67.95
EPP-13 6-8 ft	18 J	17.64	6.07	7 U	< LOD	4.57	14 J	13.9	5.46	15 U	< LOD	9.89	67	67.48	12.68	100 U	< LOD	69.29
EPP-13 8.5-10.5 ft	20 J	20.43	6.13	6 U	< LOD	4.13	12 J	11.51	5.36	14 U	< LOD	9.39	76	76.39	12.75	98 U	< LOD	65.54
EPP-14 2-4 ft	18 J	18.43	5.94	6 U	< LOD	4.27	10 J	9.69	5.16	15 U	< LOD	9.96	57 J	57.29	11.96	100 U	< LOD	67.82
EPP-14 4.5-6.5 ft	17 J	17.22	5.98	7 U	< LOD	4.57	9 J	9.11	5.21	16 U	< LOD	10.45	69	68.63	13.17	110 U	< LOD	71.63
EPP-14 7-9 ft	16 J	15.85	5.87	7 U	< LOD	4.5	10 J	10.42	5.17	15 U	< LOD	9.98	63	63.38	12.55	100 U	< LOD	67.95
EPP-14 9.5-11.5 ft	13 J	12.96	5.53	6 U	< LOD	4.22	11 J	10.73	4.98	15 U	< LOD	10.28	58 J	58.32	12.37	110 U	< LOD	72
TBWRS-1 0-2 in	85	85.06	10.14	9 J	9.1	3.83	84	83.59	10.62	17 U	< LOD	11.26	670	665.15	31.39	120 U	< LOD	82.13
TBWRS-1 2-12 in	32 J	32.09	7.01	6 U	< LOD	4.32	46	46.47	7.5	14 U	< LOD	9.57	130	128.09	15.31	100 U	< LOD	68.74
TBWRS-2 0-2 in	55	54.78	8.3	6 U	< LOD	4.23	60	60.41	8.75	15 U	< LOD	9.8	310	309.88	21.55	100 U	< LOD	67.43
TBWRS-2 2-12 in	34 J	33.93	6.95	7 U	< LOD	4.34	48	47.5	7.47	14 U	< LOD	9.62	72	72.39	12.32	98 U	< LOD	65.56
TBWRS-3 0-2 in	81	81.3	9.69	7 U	< LOD	4.41	70	69.88	9.91	15 U	< LOD	10.33	510	507.14	27.05	110 U	< LOD	72.39
TBWRS-3 2-12 in	30 J	30.43	6.83	7 U	< LOD	4.37	45	45.04	7.3	15 U	< LOD	9.9	92	92.13	13.42	100 U	< LOD	66.38
TBWRS-4 0-2 in	100	100.05	10.38	7 U	< LOD	4.85	82	81.98	10.61	15 U	< LOD	10.23	470	473.13	25.91	110 U	< LOD	72.3
TBWRS-4 2-12 in	38	37.58	7.31	6 U	< LOD	4.23	79	78.66	8.78	14 U	< LOD	9.51	100	101.24	13.82	94 U	< LOD	62.37
TBWRS-5 0-2 in	80	79.51	9.32	7 U	< LOD	4.64	57	57.31	9.19	15 U	< LOD	9.75	400	395.01	23.43	100 U	< LOD	68.19
TBWRS-5 2-12 in	40	40.11	7.34	7 U	< LOD	4.36	56	55.84	7.99	14 U	< LOD	9.34	110	108.7	14.08	99 U	< LOD	66.31
TBWRS-6 0-2 in	100	103.88	10.48	7 U	< LOD	4.76	51	51.45	9.84	16 U	< LOD	10.36	570	569.75	28.13	110 U	< LOD	75.48
TBWRS-6 2-12 in	30 J	30.17	6.71	6 U	< LOD	4.09	48	48.01	7.36	15 U	< LOD	9.84	100	102.95	13.95	100 U	< LOD	68.06
TBWRS-7 0-2 in	89	89.1	10	7 U	< LOD	4.66	61	61.47	9.85	16 U	< LOD	10.37	430	424.64	25.07	110 U	< LOD	75.58
TBWRS-7 2-12 in	22 J	22.36	6.43	7 U	< LOD	4.67	48	47.79	7.23	15 U	< LOD	9.97	76	76.17	13.1	110 U	< LOD	69.74
TBWRS-8 0-2 in	30 J	30.05	6.61	6 J	6.18	3.09	18 J	17.57	5.94	10 J	9.58	6.33	140	137.45	14.73	94 U	< LOD	62.43
TBWRS-8 2-12 in	23 J	22.52	6.12	5 J	5.04	2.99	11 U	< LOD	7.32	14 U	< LOD	9.02	83	83.22	12.29	92 U	< LOD	61.05
TBWRS-9 0-2 in	30 J	30.37	6.72	7 U	< LOD	4.5	16 J	16.49	6.01	15 U	< LOD	9.73	150	145.36	15.55	99 U	< LOD	65.97
TBWRS-9 2-12 in	27 J	26.68	6.54	6 U	< LOD	4.02	28 J	28.06	6.47	15 U	< LOD	10.19	120	118.06	14.73	100 U	< LOD	67.87
TBWRS-10 0-2 in	92	91.78	10.6	8 U	< LOD	5.14	79	78.85	10.89	16 U	< LOD	10.73	240	241.48	20.76	120 U	< LOD	78.2
TBWRS-10 0-2 in R	98	98.16	10.89	8 U	< LOD	5.25	73	72.87	10.89	16 U	< LOD	10.75	260	255.19	21.19	120 U	< LOD	76.47
TBWRS-10 2-12 in	21 J	20.99	6.44	7 U	< LOD	4.71	20 J	19.89	6.01	14 U	< LOD	9.04	61	60.87	12.02	96 U	< LOD	64.12
TBWRS-11 0-2 in	84	83.66	10.28	8 U	< LOD	5.24	49	48.65	9.48	15 U	< LOD	10.05	210	209.77	18.65	110 U	< LOD	71.84
TBWRS-11 2-12 in	22 J	22.18	6.3	7 U	< LOD	4.7	34	33.78	6.55	15 U	< LOD	10	69	69.26	12.39	100 U	< LOD	69.47
TBWRS-12 0-2 in	71	71.38	9.09	7 U	< LOD	4.57	110	111.95	10.66	15 U	< LOD	10.13	160	161.75	16.73	110 U	< LOD	72.54
TBWRS-12 2-12 in	19 J	19.1	5.88	6 U	< LOD	3.94	20 J	20.2	5.68	15 U	< LOD	9.69	57 J	56.85	11.46	94 U	< LOD	62.49

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Lead			Selenium			Arsenic			Mercury			Zinc			Tungsten		
	Threshold = 110 mg/Kg						Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg					
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
TBWRS-13 0-2 in	100	102.44	10.27	6 U	< LOD	4.08	150	144.99	12	14 U	< LOD	9.54	290	294.46	20.67	100 U	< LOD	66.9
TBWRS-13 2-12 in	20 J	19.54	6	5 J	4.61	3	57	56.67	7.26	14 U	< LOD	9.29	100	101.36	13.51	92 U	< LOD	61.55
TBWRS-14 0-2 in	62	62.26	8.4	6 U	< LOD	4.3	140	135.07	10.81	14 U	< LOD	9.29	200	200.36	17.59	99 U	< LOD	66
TBWRS-14 2-12 in	22 J	22.36	6.27	7 U	< LOD	4.5	30 J	30.26	6.35	15 U	< LOD	9.74	55 J	55.34	11.6	100 U	< LOD	68.91
TBWRS-15 0-2 in	68	68.01	9.19	7 U	< LOD	4.54	42 J	41.84	8.78	16 U	< LOD	10.89	160	154.98	17.07	110 U	< LOD	75.59
TBWRS-15 2-12 in	14 J	13.73	5.7	7 U	< LOD	4.5	34	33.64	6.18	14 U	< LOD	9.61	48 J	48.46	11.25	98 U	< LOD	65.47
TBWRS-16 0-2 in	120	116	10.95	6 U	< LOD	4.24	82	81.85	10.97	15 U	< LOD	9.83	220	223.82	18.77	100 U	< LOD	69.06
TBWRS-16 2-12 in	32 J	32.17	6.97	6 U	< LOD	4.31	44	44.11	7.38	15 U	< LOD	9.9	81	81.38	13.05	100 U	< LOD	67.27
TBWRS-17 0-2 in	21 J	20.62	6.26	6 U	< LOD	4.26	12 U	< LOD	7.96	15 U	< LOD	9.98	88	87.93	13.65	100 U	< LOD	67.13
TBWRS-17 2-12 in	32 J	31.85	6.8	6 U	< LOD	4.04	44	43.8	7.24	14 U	< LOD	9.61	88	88.32	13.02	97 U	< LOD	64.78
TBWRS-18 0-2 in	84	83.5	9.73	7 U	< LOD	4.59	150	152.56	12.06	15 U	< LOD	10.31	230	228.92	19.18	110 U	< LOD	71.1
TBWRS-18 2-12 in	23 J	22.65	6.54	7 U	< LOD	4.65	37	36.82	6.88	15 U	< LOD	9.94	93	92.87	14.04	110 U	< LOD	69.76
TBWRS-18 2-12 in R	25 J	25.03	6.6	7 U	< LOD	4.52	42	42.41	7.15	16 U	< LOD	10.54	90	89.51	13.8	110 U	< LOD	70.03
TBWRS-19 0-2 in	94	93.54	10.05	7 U	< LOD	4.66	140	141	11.86	15 U	< LOD	9.72	220	216.4	18.32	97 U	< LOD	64.81
TBWRS-19 2-12 in	23 J	22.5	6.38	6 U	< LOD	4.33	32 J	31.69	6.52	15 U	< LOD	9.94	82	82.41	13.29	110 U	< LOD	70.52
TBWRS-20 0-2 in	79	79.29	9.21	6 U	< LOD	4.31	100	100.02	10.31	14 U	< LOD	9.31	210	204.74	17.7	100 U	< LOD	67.73
TBWRS-20 2-12 in	15 J	14.74	5.61	6 U	< LOD	4.32	33	32.95	6.07	14 U	< LOD	9.37	59	59.07	11.63	100 U	< LOD	66.55
TBWRS-21 0-2 in	44	43.69	7.52	7 U	< LOD	4.36	120	119.91	10.01	15 U	< LOD	10.02	130	132.88	15.15	100 U	< LOD	68.5
TBWRS-21 2-12 in	25 J	24.84	6.82	7 U	< LOD	4.83	11 J	11.04	5.83	15 U	< LOD	9.89	63 J	62.89	12.72	110 U	< LOD	69.82
TBWRS-22 0-2 in	48	48.43	7.96	7 U	< LOD	4.6	120	118.91	10.31	15 U	< LOD	9.81	140	142.35	15.86	100 U	< LOD	67.66
TBWRS-22 2-12 in	21 J	20.79	6.4	7 U	< LOD	4.77	34	34.01	6.66	15 U	< LOD	10.06	71	70.61	12.88	100 U	< LOD	67.33
TBWRS-23 0-2 in	45	44.81	7.82	7 U	< LOD	4.54	34 J	33.52	7.5	15 U	< LOD	9.69	190	184.68	17.62	100 U	< LOD	66.81
TBWRS-23 2-12 in	38	37.98	7.2	6 U	< LOD	4.08	25 J	24.8	6.72	14 U	< LOD	9.56	94	93.73	13.4	100 U	< LOD	66.56
TBWRS-24 0-2 in	92	92.39	10.06	6 U	< LOD	3.94	130	131.69	11.78	16 U	< LOD	10.37	190	191.68	17.96	110 U	< LOD	73.2
TBWRS-24 2-12 in	18 J	18.39	5.92	6 U	< LOD	4.14	21 J	21.49	5.76	15 U	< LOD	9.78	69	68.93	12.41	100 U	< LOD	67.53
TBWRS-25 0-2 in	59	59.36	8.79	7 U	< LOD	4.62	170	171.63	12.33	15 U	< LOD	10.04	140	144.37	16.61	110 U	< LOD	69.71
TBWRS-25 2-12 in	20 J	20.34	6.15	5 J	5.02	3.12	17 J	17.13	5.68	14 U	< LOD	9.49	80	80.37	13.01	97 U	< LOD	64.43
RM-1-2 2-3 ft	14 J	14.02	5.65	6 U	< LOD	4.24	9 J	9.28	4.89	14 U	< LOD	9.36	59	59.01	11.54	96 U	< LOD	63.9
RM-1-2 4-5 ft	19 J	18.83	6.06	7 U	< LOD	4.42	11 J	11.26	5.34	14 U	< LOD	9.58	63	62.61	12.18	99 U	< LOD	66.17
RM-2-7 2-3 ft	25 J	24.71	6.27	6 U	< LOD	4.1	12 J	11.67	5.51	14 U	< LOD	9.3	62	62.09	11.83	99 U	< LOD	65.94
RM-2-7 4-5 ft	20 J	20.39	6.15	7 U	< LOD	4.54	14 J	14.09	5.49	15 U	< LOD	9.88	71	71.04	12.38	100 U	< LOD	67.2
RM-3-3 3-4 ft	24 J	24	6.54	7 U	< LOD	4.5	15 J	14.78	5.85	14 U	< LOD	9.54	95	95.46	14.04	100 U	< LOD	68.51
RM-3-3 5-6 ft	25 J	24.63	6.37	6 U	< LOD	4.09	12 U	< LOD	7.97	15 U	< LOD	9.68	66	66.38	12.2	100 U	< LOD	67.98
RM-4-1 3-4 ft	25 J	24.95	6.61	7 U	< LOD	4.69	12 U	< LOD	8.23	14 U	< LOD	9.64	46 J	45.97	11.42	97 U	< LOD	64.41
RM-4-1 5-6 ft	21 J	20.57	6.22	7 U	< LOD	4.62	10 J	9.93	5.36	15 U	< LOD	9.9	57 J	57.32	12.09	110 U	< LOD	70.37
RM-5-2 2-3 ft	46	46.29	7.76	7 U	< LOD	4.63	43	42.85	7.81	15 U	< LOD	10.16	330	325.95	22.15	110 U	< LOD	73.76
RM-5-2 4-5 ft	19 J	18.59	5.93	6 U	< LOD	4.03	9 J	9.11	5.1	14 U	< LOD	9.29	53 J	53.34	11.44	99 U	< LOD	66.13
RM-6-1 6.5-7.5 ft	25 J	24.5	6.34	6 U	< LOD	4.29	12 U	< LOD	7.79	14 U	< LOD	9.4	54 J	54.34	11.29	100 U	< LOD	69.06
RM-6-1 8.5-9.5 ft	22 J	22.04	6.17	6 U	< LOD	4.33	8 J	8.31	5.22	14 U	< LOD	9.43	51 J	51.05	10.91	95 U	< LOD	63.23
RM-7-2 6-7 ft	20 J	19.78	6.19	7 U	< LOD	4.41	11 U	< LOD	7.48	10 J	9.83	6.23	43 J	42.66	10.18	90 U	< LOD	60.05
RM-7-2 8-9 ft	24 J	23.94	6.3	6 U	< LOD	4.09	11 U	< LOD	7.41	14 U	< LOD	9.42	62	62.34	11.8	100 U	< LOD	69.38
RM-8-7 5-6 ft	24 J	23.67	6.71	7 U	< LOD	4.69	20 J	19.83	6.26	15 U	< LOD	10.06	84	83.93	14.04	110 U	< LOD	69.97
RM-8-7 7-8 ft	16 J	16.37	5.87	7 U	< LOD	4.45	13 J	12.76	5.24	14 U	< LOD	9.49	40 J	40.42	10.55	100 U	< LOD	66.67
RM-8-7 7-8 ft R	20 J	20.03	6.06	6 U	< LOD	4.31	11 U	< LOD	7.53	14 U	< LOD	9.35	38 J	37.8	10.43	100 U	< LOD	68.69
RM-9-1 0-2 in	14 J	14.34	8.15	69	68.59	7.76	19 J	18.7	6.8	22 U	< LOD	14.68	1,700	1722.29	54.77	170 U	< LOD	114.88
RM-9-1 2-12 in	38 J	38.28	9.1	15 J	14.76	5.09	140	139.02	12.78	22 U	< LOD	14.59	310	307.98	26.01	150 U	< LOD	99.32
RM-100 0-2 in	20 J	20.49	8.34	62	61.95	7.41	19 J	19.37	7.05	22 U	< LOD	14.84	2,100	2062.61	59.42	180 U	< LOD	117.74
RM-9-2 0-2 in	62	61.89	8.92	5 J	5.25	3.48	26 J	25.6	8.03	17 U	< LOD	11.52	1,300	1275.73	42.91	130 U	< LOD	88.98
RM-9-2 2-12 in	85	85.11	10.28	8 U	< LOD	5.07	27 J	26.84	9.06	17 U	< LOD	11.5	800	798.19	34.88	130 U	< LOD	84.89
RM-9-3 0-2 in	90	89.97	11.53	12 U	< LOD	7.73	20 J	20.49	9.87	37 U	< LOD	24.88	16,000	16042.31	165.08	340 U	< LOD	226.15
RM-9-3 2-12 in	86	86.04	9.99	9 U	< LOD	6.01	14 J	13.95	8.39	31 U	< LOD	20.88	15,000	14575.25	140.48	290 U	< LOD	189.85
RM-9-4 0-2 in	50	50.16	9.24	14 J	14.44	4.51	12 J	11.95	7.74	19 U	< LOD	12.83	1,100	1141.52	44.19	140 U	< LOD	94.97
RM-9-4 2-12 in	70	70.17	10.74	15 J	14.9	4.82	23 J	23.39	9.37	21 U	< LOD	14.08	1,600	1608.7	53.83	160 U	< LOD	107.5
RM-9-5 0-2 in	23 J	23	6.38	8 U	< LOD	5.04	19 J	19.09	5.98	16 U	< LOD	10.85	610	605.35	29.62	120 U	< LOD	82.67
RM-9-5 2-12 in	21 J	20.91	7.35	10 J	9.92	4.47	13 J	13.01	6.45	21 U	< LOD	13.76	1,200	1216.69	46.78	160 U	< LOD	105.81

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Lead			Selenium			Arsenic			Mercury			Zinc			Tungsten		
	Threshold = 110 mg/Kg						Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg					
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-9-5 2-12 in R	26 J	25.51	7.52	9 U	< LOD	5.94	14 U	< LOD	9.09	20 U	< LOD	13.07	1,200	1162.83	45.53	150 U	< LOD	102.42
RM-9-6 0-2 in	80	80.48	10.71	12 J	11.64	4.34	16 J	15.86	9.03	20 U	< LOD	13.34	1,300	1284.98	46.14	150 U	< LOD	98.21
RM-9-6 2-12 in	62	62.41	10.14	11 J	10.68	4.62	21 J	20.6	8.86	22 U	< LOD	14.82	1,700	1657.71	54.46	170 U	< LOD	113.85
RM-10-1 0-2 in	35 J	34.93	7.79	8 U	< LOD	5.42	27 J	27.42	7.4	18 U	< LOD	12.05	760	760.8	35.24	130 U	< LOD	87.03
RM-10-1 2-12 in	50	49.95	9.24	9 U	< LOD	5.86	33 J	33.33	8.81	21 U	< LOD	13.7	390	391.3	28.02	150 U	< LOD	97.2
RM-10-2 0-2 in	30 J	30.32	7.31	13 J	12.73	4.16	22 J	22.16	6.79	18 U	< LOD	12.33	1,200	1218.6	42.98	140 U	< LOD	93.46
RM-10-2 2-12 in	17 J	17.49	6.59	12 J	11.5	4.17	21 J	20.62	6.23	19 U	< LOD	12.61	930	927.81	38.4	140 U	< LOD	92.24
RM-10-3 0-2 in	25 J	24.67	6.89	15 J	15.14	4.23	28 J	27.58	6.68	18 U	< LOD	12.19	1,500	1507.46	46.76	140 U	< LOD	94.65
RM-10-3 2-12 in	41 J	41.44	8.94	20 J	19.95	5.27	48	48.28	9.11	22 U	< LOD	14.98	2,400	2439.68	65.14	180 U	< LOD	122.87
RM-10-4 0-2 in	26 J	25.77	8.11	38	38.09	6.11	15 U	< LOD	9.7	20 U	< LOD	13.42	990	991.6	41.27	150 U	< LOD	101.72
RM-10-4 2-12 in	11 J	11.35	6.65	13 J	13.39	4.8	14 J	14.15	6.01	22 U	< LOD	14.42	1,000	1028.54	43.55	160 U	< LOD	108.18
RM-10-5 0-2 in	58	58.44	9.66	11 J	11.24	4.41	26 J	25.83	8.69	21 U	< LOD	14.03	1,500	1510.06	50.76	160 U	< LOD	104.34
RM-10-5 2-12 in	85	84.86	10.74	10 J	9.7	4.33	47 J	46.72	10.14	23 U	< LOD	15.37	4,200	4220.73	81.54	190 U	< LOD	129
RM-10-6 0-2 in	57	56.51	10.04	12 J	12.17	4.81	110	106.33	12.05	22 U	< LOD	14.6	1,500	1493.18	53.02	170 U	< LOD	113.13
RM-10-6 2-12 in	38 J	38.07	8.48	6 J	6.45	4.08	110	106.69	11.15	19 U	< LOD	12.56	250	246.16	22.78	140 U	< LOD	89.88
RM-10-6 2-12 in R	38 J	37.78	8.41	9 U	< LOD	5.95	110	108.01	11.21	19 U	< LOD	12.88	240	242.5	22.72	140 U	< LOD	90.08
CF-14 16-22 in	13 J	13.11	5.61	7 U	< LOD	4.34	28 J	27.67	5.91	14 U	< LOD	9.49	44 J	43.87	10.83	99 U	< LOD	66.3
CF-16 4-12 in	18 J	18.27	5.88	6 U	< LOD	4	11 U	< LOD	7.36	14 U	< LOD	9.43	51 J	50.86	11.11	98 U	< LOD	65.14
CF-20 6-12 in	14 J	14.29	5.75	7 U	< LOD	4.5	14 J	13.86	5.24	15 U	< LOD	9.81	53 J	53.41	11.43	100 U	< LOD	66.36
CF-30 0-2 in	53	52.72	7.98	6 U	< LOD	4.09	91	90.89	9.44	15 U	< LOD	9.72	170	166.94	16.43	100 U	< LOD	66.54
CF-31 0-2 in	25 J	24.79	6.64	7 U	< LOD	4.52	14 J	13.77	5.89	16 U	< LOD	10.35	65	64.77	12.81	110 U	< LOD	70.11
CF-32 0-2 in	42	41.83	7.42	7 U	< LOD	4.51	130	131.07	10.27	15 U	< LOD	9.74	120	122.05	14.6	96 U	< LOD	64.24
CF-32 0-2 in R	44	43.78	7.56	6 U	< LOD	3.98	120	120.9	10.1	13 U	< LOD	8.67	130	125.73	14.79	94 U	< LOD	62.84
CF-33 0-2 in	52	52.14	8.02	7 U	< LOD	4.48	130	130.66	10.54	15 U	< LOD	9.71	160	162.57	16.34	97 U	< LOD	64.99
CF-34 0-2 in	50	50.03	8.75	8 U	< LOD	5.58	23 J	22.76	7.91	21 U	< LOD	13.74	1,900	1919.21	55.28	160 U	< LOD	103.11
FTS-1 0-2 in	87	86.82	11.29	8 J	7.74	4.19	17 J	16.74	9.56	21 U	< LOD	13.78	1,300	1335.86	48.38	150 U	< LOD	102.73
FTS-2 0-2 in	27 J	26.58	7.67	9 U	< LOD	6.03	14 U	< LOD	9.08	19 U	< LOD	12.78	350	353.9	26.33	140 U	< LOD	92.45
FTS-3 0-2 in	22 J	22.02	7.34	6 J	6.48	4.18	14 U	< LOD	9.06	19 U	< LOD	12.99	360	364.43	26.78	150 U	< LOD	97.14
FTS-4 0-2 in	54	53.59	9.47	9 U	< LOD	6.19	17 U	< LOD	11.12	21 U	< LOD	13.76	840	836.68	38.96	150 U	< LOD	101.46
FTS-5 0-2 in	42 J	42.37	8.95	10 J	9.92	4.41	17 J	17.24	7.86	20 U	< LOD	13.22	690	686.31	35.97	150 U	< LOD	97.8
FTS-6 0-2 in	31 J	30.55	8.04	9 U	< LOD	6.22	15 U	< LOD	10.18	21 U	< LOD	13.76	690	687.18	35.82	150 U	< LOD	102.31
FTS-7 0-2 in	18 J	17.82	7.37	7 J	7.25	4.34	13 U	< LOD	8.5	20 U	< LOD	13.11	430	430.57	30.03	150 U	< LOD	98.22
FTS-8 0-2 in	50	50.35	9.31	7 J	6.93	4.11	14 J	13.71	7.96	21 U	< LOD	13.74	830	832.51	38.91	150 U	< LOD	97.69
FTS-9 0-2 in	56	55.84	9.87	6 J	6.39	4.21	18 U	< LOD	11.87	21 U	< LOD	14.24	1,000	1045.02	44.34	160 U	< LOD	103.82
FTS-10 0-2 in	17 J	17.03	7.23	10 J	9.69	4.52	13 U	< LOD	8.86	21 U	< LOD	14.25	830	828.61	40.1	160 U	< LOD	103.48
FTS-11 0-2 in	20 J	19.77	7.53	12 J	11.6	4.69	13 U	< LOD	8.95	20 U	< LOD	13.64	490	486.26	31.31	150 U	< LOD	100.28
FTS-12 0-2 in	18 J	17.81	7.25	9 U	< LOD	6.26	13 U	< LOD	8.5	20 U	< LOD	13.48	240	242.22	23.14	150 U	< LOD	98.09
FTS-13 0-2 in	44 J	44.4	9.16	8 J	7.67	4.26	17 U	< LOD	11.28	21 U	< LOD	13.73	890	888.94	40.77	150 U	< LOD	99.32
FTS-14 0-2 in	39 J	38.63	7.87	8 U	< LOD	5.29	10 J	10.41	6.64	17 U	< LOD	11.26	520	516.16	28.94	130 U	< LOD	83.78
FTS-15 0-2 in	37 J	36.55	7.51	7 U	< LOD	4.97	11 J	11.29	6.42	16 U	< LOD	10.9	390	389.09	25.02	120 U	< LOD	80.77
FTS-16 0-2 in	23 J	23.12	7.55	9 J	9.4	4.33	14 U	< LOD	9.58	20 U	< LOD	13.11	580	583.99	33.14	140 U	< LOD	94.71
FTS-17 0-2 in	13 J	13.04	6.72	9 U	< LOD	5.98	9 J	8.84	5.82	21 U	< LOD	13.76	460	462.07	30.52	150 U	< LOD	98.37
FTS-18 0-2 in	67	67	10.74	13 J	13.36	4.81	20 U	< LOD	13.12	21 U	< LOD	13.95	860	856.48	40.53	150 U	< LOD	102.22
FTS-100 0-2 in	54	54.35	9.92	10 J	10.06	4.58	19 U	< LOD	12.47	21 U	< LOD	13.98	850	845.88	40.21	160 U	< LOD	103.59
FTS-19 0-2 in	37 J	37.27	7.84	8 U	< LOD	5.29	13 J	13.42	6.78	18 U	< LOD	11.83	520	518.16	29.3	120 U	< LOD	82.63
FTS-19 0-2 in R	44	43.92	8.28	8 U	< LOD	5.43	12 J	12.13	7.04	18 U	< LOD	11.8	520	518.66	29.36	130 U	< LOD	84.31
FTS-20 0-2 in	96	96.38	11.55	10 J	9.67	4.28	26 J	25.69	10.03	20 U	< LOD	13.55	1,800	1800.89	54.79	160 U	< LOD	105.98
FTS-21 0-2 in	140	140.96	13.51	7 J	6.69	4.2	22 J	21.7	11.39	21 U	< LOD	14.21	1,900	1872.76	56.12	170 U	< LOD	111.36
SGW-1 0-2 in	140	136.55	14.14	41	40.91	6.71	56 J	56.45	12.75	30 U	< LOD	19.74	8,300	8253.79	119	260 U	< LOD	170.58
SGW-1 2-12 in	97	97.4	12.05	29 J	29.49	5.96	47 J	47.24	11.01	26 U	< LOD	17.43	5,300	5263.09	93.7	220 U	< LOD	148.03
SGW-2 0-2 in	130	129.77	13.4	31	31.08	6.05	37 J	37.06	11.65	27 U	< LOD	17.85	5,600	5640.9	96.46	230 U	< LOD	151.68
SGW-2 2-12 in	90	90.2	11.76	44	44.09	6.58	70	70.34	11.42	27 U	< LOD	18.14	7,000	6972.91	106.03	230 U	< LOD	155.14
SGW-100 2-12 in	91	91.45	12	46	45.57	6.77	70	69.66	11.59	21 J	20.62	12.85	7,100	7083.46	108.18	240 U	< LOD	159.46
SGW-3 0-2 in	160	158.2	14.93	47	46.65	7.01	53 J	52.52	13.14	31 U	< LOD	20.69	9,100	9096.13	123.56	270 U	< LOD	177.1
SGW-3 2-12 in	110	106.31	12.42	45	44.7	6.77	65	65.19	11.7	30 U	< LOD	19.75	8,500	8495.12	116.58	260 U	< LOD	170.8

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Lead			Selenium			Arsenic			Mercury			Zinc			Tungsten		
	Threshold = 110 mg/Kg						Threshold = 95 mg/Kg						Threshold = 2,600 mg/Kg					
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
SGW-4 0-2 in	110	104.67	11.9	23 J	22.58	5.22	28 J	28.01	10.27	24 U	< LOD	15.77	4,500	4516.1	84.53	200 U	< LOD	132.47
SGW-4 2-12 in	130	126.1	13.22	34	34.34	6.2	35 J	34.8	11.4	28 U	< LOD	18.62	6,600	6617.52	103.47	230 U	< LOD	156.21
SGW-4 2-12 in R	100	102.53	12.38	39	39.02	6.57	56 J	56.14	11.45	28 U	< LOD	18.6	6,800	6847.28	106.23	240 U	< LOD	162.16
SGW-5 0-2 in	89	88.66	11.16	17 J	17.45	5.03	24 J	23.62	9.6	25 U	< LOD	16.63	4,500	4502.47	84.71	200 U	< LOD	135.92
SGW-5 2-12 in	100	100.85	11.54	28	27.84	5.45	31 J	31.23	10.02	24 U	< LOD	16.18	5,400	5446.62	90.26	210 U	< LOD	136.94
< DL	0			147			32			214			0			224		
J-Qualified	138			54			139			11			26			1		
Detected	87			24			54			0			199			0		

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation
U - Concentration < LOD
J - Concentration >LOD and < PQL
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Table 1 - Soil Quality Data - XRF

Sample ID	Copper			Nickel			Cobalt			Iron			Manganese			Chromium		
	Threshold = 180 mg/Kg			Threshold = 550 mg/Kg						Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
SGW-1 0-2 in	160	161.54	26.58	220 J	216.25	52.93	260 U	< LOD	172.64	21,000	20870.59	339.28	280 J	281.21	74.72	940	935.48	34.95
SGW-1 0-2 in	140	136.48	25.49	230 J	227.1	53.51	200 J	200	116.55	21,000	20974.64	339.11	270 J	273.11	73.52	920	919.44	34.97
SGW-1 0-2 in R	130	127.62	25.15	250 J	248.5	53.38	250 U	< LOD	169.53	21,000	21187.05	340.61	260 J	264.48	72.74	950	952.17	35.26
SGW-1 2-12 in	110 J	111.61	22.64	200 J	202.55	49.62	290 U	< LOD	195.41	30,000	29585.37	387.3	370 J	374.26	76.29	870	870.03	35.58
SGW-1 1-2 ft	25 J	25.13	14.95	62 J	62.26	36.31	230 U	< LOD	151.18	22,000	22060.04	304.02	220 J	217.72	52.45	98	97.96	18.83
SGW-1 4-5 ft	31 J	30.9	16.79	92 U	< LOD	61.03	410 U	< LOD	270.93	64,000	63897.62	550.97	450	453.1	80.14	66 J	66.45	22.9
SGW-2 0-2 in	130	133.59	25.32	260 J	256.88	54.08	240 U	< LOD	160.39	18,000	18010.98	316.3	260 J	256.22	72.91	940	938.36	33.94
SGW-2 0-2 in R	130	126.83	25.19	280	283.2	55.17	240 U	< LOD	159.65	18,000	17954.96	316.72	260 J	261.8	72.93	960	962.35	34.43
SGW-2 2-12 in	130	133.43	25.54	160 J	162.12	50.52	240 U	< LOD	157.73	18,000	17603.91	312.85	310 J	305.41	73.61	770	772.78	30.5
SGW-3 0-2 in	140	134.84	25.42	190 J	192.67	50.92	230 U	< LOD	154.75	18,000	17645.08	309.87	190 J	191.2	65.28	730	726.38	31.51
SGW-3 2-12 in	100 J	103.97	23.28	180 J	176.86	48.82	210 U	< LOD	136.73	14,000	13594.96	266.97	250 J	251.85	66.03	780	783.89	31.03
SGW-3 1-2 ft	96 J	96.03	21.91	140 J	138.35	45.7	230 U	< LOD	154.55	19,000	19050.75	311.39	340 J	336.07	70.92	720	724.18	30.27
SGW-3 4-5 ft	42 U	< LOD	27.91	110 U	< LOD	74.94	500 U	< LOD	331.26	78,000	77660.52	658.62	570	566.81	95.82	70 J	69.77	22.81
SGW-4 0-2 in	86 J	85.76	20.98	100 J	103.46	44.09	260 U	< LOD	174.07	24,000	24355.26	347.81	450	448.34	75.28	480	478.82	27.85
SGW-4 2-12 in	100 J	104.11	24.22	120 J	118.91	48.43	230 U	< LOD	152.57	17,000	16617.54	303.08	220 J	214.51	66.14	680	676.26	28.74
SGW-5 0-2 in	76 J	76.09	20.91	110 J	107.4	44.78	250 U	< LOD	167.44	22,000	21968.66	334.69	350 J	353.68	71.91	550	550.72	27.32
SGW-5 2-12 in	100 J	103.98	22.14	110 J	106.53	44.23	230 U	< LOD	152.04	18,000	18324.67	304.18	270 J	268.39	64.64	460	460.39	25.43
SGW-5 1-2 ft	39 J	38.72	16.82	86 U	< LOD	57	270 U	< LOD	177.15	27,000	27217.44	353.32	470	464.82	70.45	120	115.67	19.98
SGW-5 4-5 ft	36 U	< LOD	23.91	74 J	73.7	44.99	430 U	< LOD	286.37	67,000	67393.79	579.91	840	843.84	99.13	68 J	68.35	21.87
SGW-6 0-2 in	46 J	46.04	17.92	73 J	72.96	40.42	230 U	< LOD	156.18	21,000	20763.46	312.86	480	482.48	72.16	230	232.17	20.81
SGW-6 2-12 in	31 U	< LOD	20.95	82 U	< LOD	54.83	220 U	< LOD	144.71	19,000	19484.68	291.83	410	406.86	63.26	52 J	52.23	17.34
SGW-6 2-12 in R	34 U	< LOD	22.75	57 J	57.02	36.93	220 U	< LOD	144.41	19,000	19434.41	292.12	400	404.34	63.17	50 J	50.01	17.43
EPP-1 2-4 ft	36 U	< LOD	23.74	84 U	< LOD	56.23	280 U	< LOD	189.08	31,000	30926.52	377.97	400	399.98	68.37	55 J	55.44	20.62
EPP-1 4.5-6.5ft	37 U	< LOD	24.56	88 U	< LOD	58.93	300 U	< LOD	202.75	34,000	34316.44	403.9	410	410.59	70.63	56 J	56.33	20.49
EPP-1 7-9 ft	39 U	< LOD	25.79	94 U	< LOD	62.62	390 U	< LOD	256.85	53,000	53297.58	516.58	440	444.25	79.19	65 J	65.19	21.6
EPP-1 9.5-11.5f	33 U	< LOD	21.95	80 U	< LOD	53.4	260 U	< LOD	169.7	27,000	27482.13	344.51	280 J	281.9	58.29	33 J	33.33	17.74
EPP-2 2-4 ft	33 U	< LOD	21.67	82 U	< LOD	54.94	270 U	< LOD	178.08	30,000	29901.75	358.3	550	550.1	72.08	51 J	51.34	20.93
EPP-2 4.5-6.5 ft	36 J	35.54	16.97	92 U	< LOD	61	300 U	< LOD	200.15	34,000	33990.08	399.06	630	634.4	80.35	43 J	43.29	20.06
EPP-2 7-9 ft	43 J	42.83	16.13	80 U	< LOD	53.6	270 U	< LOD	181.84	31,000	31409.2	368.26	1,100	1105.82	94.34	36 J	35.59	21.45
EPP-2 9.5-11.5 ft	34 J	33.93	15.58	82 U	< LOD	54.7	260 U	< LOD	173.87	28,000	28406.53	348.6	580	579.78	72.7	35 J	35.18	20.72
EPP-3 3-4 ft	35 J	34.87	15.72	81 U	< LOD	53.71	230 U	< LOD	152.5	22,000	21956.55	307.42	450	445.73	65.26	36 J	36.43	18.42
EPP-3 5-7 ft	26 J	25.56	14.97	77 U	< LOD	51.31	240 U	< LOD	158.96	24,000	23881.42	318.43	400	402	62.75	43 U	< LOD	28.53
EPP-3 5-7 ft R	33 U	< LOD	22.11	77 U	< LOD	51.54	240 U	< LOD	159.79	24,000	24164.46	320.48	460	462.85	65.98	30 J	29.65	19.3
EPP-3 8-10 ft	57 J	57.27	17.11	85 U	< LOD	56.35	270 U	< LOD	180.49	29,000	29237.4	357.87	500	500.89	70.19	45 J	45.42	20.57
EPP-3 10.5-12.5 ft	34 J	33.69	15.79	80 U	< LOD	53.47	280 U	< LOD	183.69	32,000	31572.38	370.26	510	512.39	70.67	48 U	< LOD	31.7
EPP-4 13-15 ft	38 J	37.84	16.18	84 U	< LOD	55.9	280 U	< LOD	187.88	33,000	32856.9	380.17	640	639.18	77.46	36 J	36.47	21.32
EPP-4 15.5-17.5 ft	41 J	40.94	17.21	90 U	< LOD	60.31	320 U	< LOD	211.64	38,000	37932.47	421.07	710	713.79	83.91	34 J	33.52	22.27
EPP-4 18-20 ft	33 J	32.68	15.97	81 U	< LOD	54.19	280 U	< LOD	183.23	30,000	30451.25	367.54	1,000	1021.6	92.48	38 J	38.18	20.94
EPP-4 20.5-22.5 ft	33 J	32.55	15.98	83 U	< LOD	55.39	290 U	< LOD	190.33	33,000	32788.37	381.23	720	719.01	80.89	48 U	< LOD	32.11
EPP-5 5-6 ft	33 J	32.6	16.05	85 U	< LOD	56.95	270 U	< LOD	182.58	30,000	29885.86	364.7	680	682.21	78.99	49 U	< LOD	32.43
EPP-5 7-9 ft	47 J	47.01	17.05	86 U	< LOD	57.18	290 U	< LOD	193.84	33,000	33022.57	386.83	660	656.13	79.38	41 J	41.36	21.06
EPP-5 10-11 ft	24 J	24.23	15.44	83 U	< LOD	55.08	270 U	< LOD	181.42	30,000	30195.36	364.05	620	620.46	75.83	46 U	< LOD	30.45
EPP-5 12-14 ft	30 J	30.47	16.06	85 U	< LOD	56.41	290 U	< LOD	192.59	32,000	32270.57	380.97	690	693.43	80.8	45 U	< LOD	30.23
EPP-6 3-5.5 ft	31 J	31.23	15.87	83 U	< LOD	55.33	260 U	< LOD	174.73	27,000	27255.45	347.62	650	650.45	77.05	44 U	< LOD	29.28
EPP-6 5.5-8 ft	34 J	33.89	15.93	83 U	< LOD	55.01	270 U	< LOD	180.49	30,000	30343.31	364.64	650	651.12	77.07	45 U	< LOD	30.09
EPP-6 8.5-10.5 ft	37 J	37.46	16.17	58 J	57.85	37.93	270 U	< LOD	181.64	31,000	30669.6	366.63	670	665.97	77.85	46 U	< LOD	30.57
EPP-6 11-13 ft	27 J	26.78	15.44	83 U	< LOD	55.21	280 U	< LOD	183.27	30,000	30458.68	364.62	760	761.92	81.61	45 U	< LOD	29.7
EPP-7 2-4 ft	34 U	< LOD	22.86	70 J	69.78	38.17	270 U	< LOD	179.7	30,000	30260.68	363.9	1,200	1167.04	96.73	46 U	< LOD	30.51
EPP-7 5-7 ft	27 J	26.71	15.41	83 U	< LOD	55.26	270 U	< LOD	182.1	31,000	31239.74	368.83	1,300	1292.01	100.86	47 U	< LOD	31.18
EPP-7 7.5-9.5 ft	27 J	26.6	14.75	76 U	< LOD	50.72	230 U	< LOD	151.28	23,000	22913.27	308.73	990	991.48	86.88	43 U	< LOD	28.75
EPP-7 10-12 ft	33 U	< LOD	21.89	82 U	< LOD	54.87	210 J	205.74	118.02	28,000	27998.45	348.08	1,300	1302.16	100.19	46 U	< LOD	30.4
EPP-8 1-3.5 ft	33 U	< LOD	22.31	80 U	< LOD	53.4	250 U	< LOD	167.57	25,000	25195.54	332.2	430	424.85	65.54	41 J	40.61	19.79
EPP-8 3.5-6 ft	28 J	28.4	15.17	77 U	< LOD	51.6	240 U	< LOD	162.26	24,000	23957.77	320.1	560	557.3	70.85	32 J	32.21	19.19
EPP-8 6.5-8.5 ft	33 U	< LOD	21.79	79 U	< LOD	52.47	230 U	< LOD	155.43	24,000	23610.44	314.28	510	505.62	67.32	42 U	< LOD	28.07
EPP-8 9-11ft	22 J	22.24	14.64	79 U	< LOD	52.44	240 U	< LOD	156.63	23,000	23432.06	312.9	620	621.22	72.47	43 U	< LOD	28.64

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Copper			Nickel			Cobalt			Iron			Manganese			Chromium		
	Threshold = 180 mg/Kg			Threshold = 550 mg/Kg						Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
EPP-8 9-11ft R	33 U	< LOD	21.82	77 U	< LOD	51.5	230 U	< LOD	154.91	23,000	23137.46	311.06	650	646.42	73.39	43 U	< LOD	28.48
EPP-100 2-4 ft	34 U	< LOD	22.66	84 U	< LOD	56.18	270 U	< LOD	178.11	29,000	29051.47	360.25	480	482.93	70.27	46 J	45.83	20.13
EPP-100 4.5-6.5 ft	36 U	< LOD	24.27	91 U	< LOD	60.82	300 U	< LOD	202.32	35,000	34576.43	403.43	350	344.73	66.94	53 J	52.7	20.24
EPP-100 7-9 ft	39 U	< LOD	25.79	96 U	< LOD	64.32	370 U	< LOD	245.81	48,000	48329.27	489.87	430	427.35	77.16	62 J	62.34	21.34
EPP-100 9.5-11.5 ft	30 U	< LOD	20.27	79 U	< LOD	52.47	240 U	< LOD	158.98	25,000	24548.46	322.47	210 J	207.72	52.62	28 J	28.46	17.08
EPP-9 0-2 ft	63 J	62.75	18.99	95 U	< LOD	63.57	330 U	< LOD	218.03	38,000	38467.03	433.21	600	601.32	85.19	350	350.09	26.55
EPP-9 3-5 ft	34 J	34.31	15.79	83 U	< LOD	55.66	260 U	< LOD	171.21	27,000	27225.82	342.47	600	598.45	73.62	32 J	31.83	19.62
EPP-9 5.5-7.5 ft	36 J	36.05	16.06	83 U	< LOD	55.4	270 U	< LOD	181.29	29,000	29005.9	357.91	690	688.84	79.04	44 U	< LOD	29.34
EPP-9 8-10 ft	24 J	24.45	15.03	79 U	< LOD	52.68	250 U	< LOD	165.43	26,000	26054.78	333.22	560	557.6	70.8	36 J	36.14	19.25
EPP-10 7-8 ft	55 J	54.82	16.58	81 U	< LOD	54.31	250 U	< LOD	169.65	27,000	27149.36	339.21	540	536.92	70.44	59 J	59.29	20.56
EPP-10 9-11 ft	31 J	31.02	15.31	81 U	< LOD	53.77	240 U	< LOD	160.37	24,000	24253.52	320.48	600	602.91	72.17	42 U	< LOD	28.32
EPP-10 12-14 ft	35 J	34.94	15.84	81 U	< LOD	53.77	250 U	< LOD	165.55	25,000	24710.18	327.71	530	525	69.84	37 J	37.36	18.99
EPP-10 15-17 ft	23 J	22.64	14.65	79 U	< LOD	52.39	220 U	< LOD	143.2	19,000	18976.06	281.39	360	360.3	58.74	38 J	38.31	17.6
EPP-11 2.5-4.5 ft	32 J	31.51	15.87	82 U	< LOD	54.84	240 U	< LOD	157.41	23,000	22666.26	315.87	440	439.87	66.42	59 J	58.56	19.22
EPP-11 5-7 ft	50 J	49.64	17.83	89 U	< LOD	59.28	250 U	< LOD	169.55	25,000	24762.17	341.51	530	526.59	74.51	170	173.94	21.8
EPP-11 7.5-9.5 ft	35 U	< LOD	23.07	82 U	< LOD	54.82	260 U	< LOD	170.85	27,000	26904.32	343.78	530	525.41	70.7	44 U	< LOD	29.01
EPP-11 10-12 ft	27 J	26.63	15.39	84 U	< LOD	55.78	270 U	< LOD	177.6	29,000	28952.56	354.03	510	510.32	70.15	32 J	31.61	20.49
EPP-12 0-2 ft	26 J	25.89	15.69	85 U	< LOD	56.36	260 U	< LOD	174.96	28,000	28485.9	355.65	670	671.6	78.14	46 J	46.3	20.51
EPP-12 2.5-4.5 ft	25 J	24.58	15.17	82 U	< LOD	54.35	250 U	< LOD	165.39	26,000	25884.71	334.04	620	621.2	73.99	43 U	< LOD	28.67
EPP-12 5-7 ft	26 J	25.72	15.06	77 U	< LOD	51.13	250 U	< LOD	167.55	26,000	26200.72	334.58	630	629.83	74.64	44 U	< LOD	29.24
EPP-12 7.5-9.5 ft	33 U	< LOD	21.97	79 U	< LOD	52.5	240 U	< LOD	161.82	25,000	24820.39	323.33	490	489.18	67.08	33 J	33.06	19.74
EPP-13 2-3 ft	34 U	< LOD	22.7	82 U	< LOD	54.77	270 U	< LOD	178.48	29,000	28989.99	355.33	810	813.61	83.16	45 U	< LOD	30.22
EPP-13 2-3 ft R	23 J	23.42	15.42	82 U	< LOD	54.74	270 U	< LOD	178.1	29,000	29393.11	361.05	900	904.44	87.68	49 J	48.82	21.08
EPP-13 3.5-5.5 ft	28 J	27.83	15.72	82 U	< LOD	54.8	280 U	< LOD	183.36	30,000	30099.1	365.69	790	790.64	83.3	31 J	30.66	20.39
EPP-13 6-8 ft	25 J	25.24	15.6	83 U	< LOD	55.13	290 U	< LOD	189.79	32,000	31808.16	376.22	800	794.93	83.99	32 J	31.77	20.86
EPP-13 8.5-10.5 ft	32 J	32.28	15.46	79 U	< LOD	52.34	260 U	< LOD	176.29	30,000	29613.47	356.48	720	721.9	78.99	35 J	35.28	21.14
EPP-14 2-4 ft	34 U	< LOD	22.6	81 U	< LOD	54.05	280 U	< LOD	186.69	32,000	32469.25	374.56	610	605.4	75.13	48 U	< LOD	32.11
EPP-14 4.5-6.5 ft	36 U	< LOD	23.76	87 U	< LOD	57.67	310 U	< LOD	206.91	38,000	38420.54	418.9	650	648.5	80.5	51 U	< LOD	34.22
EPP-14 7-9 ft	36 J	36.05	16.28	83 U	< LOD	55.5	290 U	< LOD	195.3	34,000	33882.24	389.78	600	598.64	76.68	48 U	< LOD	31.75
EPP-14 9.5-11.5 ft	26 J	26.46	15.8	83 U	< LOD	55	290 U	< LOD	192.02	33,000	32910.93	384.02	750	753.2	82.84	47 U	< LOD	31.1
TBWRS-1 0-2 in	160	155.79	21.98	84 U	< LOD	55.99	240 U	< LOD	160.06	23,000	22739.66	321.43	630	632.17	76.87	210	207.72	21.53
TBWRS-1 2-12 in	51 J	50.66	16.7	82 U	< LOD	54.63	260 U	< LOD	174.49	28,000	27946.21	349.03	670	669.2	77.52	34 J	33.96	19.22
TBWRS-2 0-2 in	110	114.29	19.54	83 U	< LOD	55.29	230 U	< LOD	154.03	22,000	21945.79	308.43	810	807.97	81.93	99	99.17	19.55
TBWRS-2 2-12 in	42 J	42.49	15.97	57 J	56.9	36.41	240 U	< LOD	158.94	24,000	24298.58	321.11	690	686.31	76.1	39 U	< LOD	26.17
TBWRS-3 0-2 in	160	159.97	21.52	79 U	< LOD	52.7	220 U	< LOD	144.48	19,000	19450.28	291.96	610	607.66	73.94	180	174.77	20.62
TBWRS-3 2-12 in	58 J	57.6	16.7	78 U	< LOD	51.8	240 U	< LOD	162.52	24,000	24246.33	322.05	750	746.52	79.11	33 J	33.04	18.5
TBWRS-4 0-2 in	200	198.82	22.66	74 J	73.57	36.94	230 U	< LOD	149.87	22,000	21781.71	304.58	730	725.41	78.01	130	133.78	20.64
TBWRS-4 2-12 in	88 J	87.95	18.27	80 U	< LOD	53.62	240 U	< LOD	161.97	24,000	24386.16	324.52	640	635.08	74.63	32 J	32.1	17.93
TBWRS-5 0-2 in	160	157.05	20.56	76 U	< LOD	50.36	210 U	< LOD	139.22	19,000	18868.78	279.2	580	580.83	69.54	110	105.25	19.67
TBWRS-5 2-12 in	69 J	69	17.17	79 U	< LOD	52.89	230 U	< LOD	155.8	23,000	22851.73	311.01	580	579.66	71.18	56 J	55.69	18.97
TBWRS-6 0-2 in	180	180.36	21.89	82 U	< LOD	54.81	170 J	166.48	101.91	21,000	21185.3	299.23	480	479.19	66.91	170	168.99	21.65
TBWRS-6 2-12 in	64 J	64.11	17.01	78 U	< LOD	52.11	240 U	< LOD	159.99	24,000	24449.96	322.42	430	429.61	64.52	42 U	< LOD	28.12
TBWRS-7 0-2 in	180	182.33	22.37	70 J	69.51	37.97	250 U	< LOD	167.57	26,000	26282.46	337.82	670	670.27	77.69	140	144.18	21.33
TBWRS-7 2-12 in	45 J	45.08	16.59	86 U	< LOD	57.54	280 U	< LOD	186.1	31,000	30833.48	368.77	500	496.27	70.98	36 J	35.9	19.33
TBWRS-8 0-2 in	68 J	67.97	16.51	77 U	< LOD	51.26	200 U	< LOD	133.05	17,000	17174.96	262.93	240 J	240.59	50.96	42 J	42.35	17.68
TBWRS-8 2-12 in	28 J	27.87	14.38	74 U	< LOD	49.11	210 U	< LOD	141.37	20,000	20026.39	283.25	240 J	243.96	51.55	60 J	59.51	19.51
TBWRS-9 0-2 in	63 J	63.04	16.7	78 U	< LOD	51.97	240 U	< LOD	158.12	24,000	23896.6	315.61	750	753.77	77.81	43 U	< LOD	28.81
TBWRS-9 2-12 in	66 J	66.04	17.31	80 U	< LOD	53.59	240 U	< LOD	162.55	25,000	24872.82	327.64	700	697.46	77.31	44 J	43.7	19.6
TBWRS-10 0-2 in	180	181.81	23.55	91 U	< LOD	60.42	300 U	< LOD	199.37	33,000	33400.22	396.57	440	443.45	71.83	91 J	91.17	19.44
TBWRS-10 0-2 in R	190	188.22	23.7	86 U	< LOD	57.28	210 J	205.63	133.65	33,000	33211.15	395.19	450	448.23	72.32	84 J	84.43	19.16
TBWRS-10 2-12 in	34 U	< LOD	22.73	84 U	< LOD	55.84	260 U	< LOD	172.94	27,000	27305.1	351.19	460	460.75	68.91	32 J	31.74	18.35
TBWRS-11 0-2 in	180	177.18	22.16	82 U	< LOD	54.64	260 U	< LOD	171.24	27,000	27237.66	344.3	470	467.75	68.32	42 J	41.69	19.07
TBWRS-11 2-12 in	31 J	30.62	15.62	80 U	< LOD	53.38	240 U	< LOD	160.98	24,000	23629.25	320.14	440	441.7	65.74	41 U	< LOD	27.56
TBWRS-12 0-2 in	210	210.94	23.07	81 U	< LOD	53.92	240 U	< LOD	161.93	25,000	24642.86	324.22	640	637.87	74.93	76 J	76.33	19.02
TBWRS-12 2-12 in	28 J	27.86	15.06	77 U	< LOD	51.62	250 U	< LOD	165.04	26,000	25646.75	329.93	510	506.53	68.53	50 J	50.07	18.26

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Copper			Nickel			Cobalt			Iron			Manganese			Chromium		
	Threshold = 180 mg/Kg			Threshold = 550 mg/Kg						Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
TBWRS-13 0-2 in	260	258.43	24.16	79 U	< LOD	52.58	220 U	< LOD	146.1	20,000	20249.96	289.13	910	912.91	83.19	42 J	41.96	18.53
TBWRS-13 2-12 in	39 J	38.94	15.63	80 U	< LOD	53.64	230 U	< LOD	153.9	22,000	22130.89	305.63	810	807.15	80.45	45 J	44.77	18.7
TBWRS-14 0-2 in	160	156.9	20.49	76 U	< LOD	50.82	230 U	< LOD	153.7	23,000	23343.48	310.01	650	647.35	73.29	72 J	72.16	20.42
TBWRS-14 2-12 in	38 J	37.85	15.75	81 U	< LOD	53.85	250 U	< LOD	164.14	25,000	25403.46	328.8	520	518.93	69.52	29 J	28.59	17.91
TBWRS-15 0-2 in	110	112.83	20.13	83 U	< LOD	55.65	280 U	< LOD	184.84	31,000	30872.29	374.12	730	733.53	82.21	50 J	49.79	18.33
TBWRS-15 2-12 in	34 J	33.73	15.77	84 U	< LOD	55.68	260 U	< LOD	173.44	28,000	28276.03	350.14	460	454.98	67.69	42 U	< LOD	28.14
TBWRS-16 0-2 in	240	242.44	23.96	77 U	< LOD	51.59	230 U	< LOD	155.17	23,000	22645.4	309.32	610	607.19	72.26	64 J	64.3	18.63
TBWRS-16 2-12 in	32 J	31.95	15.68	82 U	< LOD	54.93	260 U	< LOD	173.51	27,000	27287.14	344	660	661.4	76.74	41 U	< LOD	27.31
TBWRS-17 0-2 in	40 J	39.62	16.42	82 U	< LOD	54.76	270 U	< LOD	181.85	29,000	29443.42	362.86	550	546.89	73.2	45 U	< LOD	29.86
TBWRS-17 2-12 in	63 J	62.98	16.82	77 U	< LOD	51.03	220 U	< LOD	147.96	20,000	20347.07	293.47	610	613.71	72.53	37 J	37.15	17.44
TBWRS-18 0-2 in	180	183	22.26	81 U	< LOD	53.98	240 U	< LOD	161.17	24,000	23840.61	321.47	830	834.13	82.97	35 J	35.36	18.69
TBWRS-18 2-12 in	44 J	44.15	16.91	87 U	< LOD	57.92	280 U	< LOD	183.69	30,000	29501.64	365.76	650	648.62	78.21	44 U	< LOD	29.28
TBWRS-18 2-12 in R	48 J	47.55	16.91	86 U	< LOD	57.19	270 U	< LOD	180.7	29,000	29128.4	360.61	600	600.44	75.72	44 U	< LOD	29.15
TBWRS-19 0-2 in	200	199.87	22.42	77 U	< LOD	51.51	220 U	< LOD	149.47	21,000	20979.35	297.68	880	883.24	83.52	35 J	35.25	17.74
TBWRS-19 2-12 in	42 J	42.23	16.38	83 U	< LOD	55.61	260 U	< LOD	174.09	27,000	26694.35	342.82	660	661.46	77.24	52 J	51.84	18.82
TBWRS-20 0-2 in	180	180.06	21.29	76 U	< LOD	50.56	220 U	< LOD	148.07	21,000	21010.48	293.3	770	767.18	77.53	60 J	59.59	18.93
TBWRS-20 2-12 in	28 J	27.57	15.03	79 U	< LOD	52.41	240 U	< LOD	162.77	25,000	25008.99	324.47	640	642.81	74.34	39 J	38.94	18.64
TBWRS-21 0-2 in	130	125.38	19.46	79 U	< LOD	52.57	230 U	< LOD	151.03	22,000	21945.76	302.59	680	678.94	74.5	65 J	65.05	18.86
TBWRS-21 2-12 in	44 J	44.14	17.05	90 U	< LOD	59.8	300 U	< LOD	200.26	35,000	34937.78	399.64	560	560.25	76.72	50 J	49.67	20.58
TBWRS-22 0-2 in	110	110.51	19.28	78 U	< LOD	51.8	250 U	< LOD	167.16	26,000	26245.32	336.94	770	770.01	80.92	55 J	54.67	19.08
TBWRS-22 2-12 in	50 J	50.39	17.09	85 U	< LOD	56.51	280 U	< LOD	188.69	31,000	30885.32	373.26	670	669.63	79.35	45 U	< LOD	30.1
TBWRS-23 0-2 in	95	94.69	18.81	82 U	< LOD	54.83	270 U	< LOD	182.37	30,000	30086.81	362.38	450	446.75	67.54	36 J	36.12	20.07
TBWRS-23 2-12 in	68 J	68.27	17.09	79 U	< LOD	52.91	240 U	< LOD	158.97	24,000	23854.26	317.01	360	355.38	60.54	45 J	44.71	19.58
TBWRS-24 0-2 in	170	167.74	21.77	81 U	< LOD	53.81	250 U	< LOD	163.83	25,000	24600.5	327.15	660	659.03	76.21	43 J	42.52	18.78
TBWRS-24 2-12 in	30 J	30.04	15.48	81 U	< LOD	53.69	260 U	< LOD	173.92	28,000	27883.29	346.65	560	559.41	71.96	44 U	< LOD	29.29
TBWRS-25 0-2 in	220	215.74	24.43	86 U	< LOD	57.49	270 U	< LOD	178.64	27,000	27182.52	354.3	810	809.75	85.57	30 J	29.68	17.5
TBWRS-25 2-12 in	41 J	40.84	16.07	81 U	< LOD	54.16	270 U	< LOD	180.84	31,000	30512.54	363.32	650	648.61	76.7	45 U	< LOD	29.93
RM-1-2 2-3 ft	25 J	24.8	15.12	82 U	< LOD	54.7	240 U	< LOD	157.19	23,000	23111.31	315.15	400	401.37	63.28	44 U	< LOD	29
RM-1-2 4-5 ft	25 J	25.37	15.52	83 U	< LOD	55.11	270 U	< LOD	176.62	29,000	29086.53	358.56	450	447.91	68.29	37 J	36.82	20.34
RM-2-7 2-3 ft	42 J	41.8	15.78	76 U	< LOD	50.53	240 U	< LOD	161.89	25,000	25282.62	327.17	550	552.11	70.3	32 J	31.66	19.87
RM-2-7 4-5 ft	30 J	29.74	15.29	80 U	< LOD	53.21	250 U	< LOD	166.91	26,000	26104.69	333.17	430	426.5	64.59	45 U	< LOD	29.74
RM-3-3 3-4 ft	33 J	32.84	16.08	84 U	< LOD	55.89	280 U	< LOD	185.42	30,000	29997.1	366.7	650	650.45	77.99	38 J	38.18	20.71
RM-3-3 5-6 ft	26 J	25.9	15.19	80 U	< LOD	53.59	250 U	< LOD	169.29	26,000	26330.07	336.08	520	515.48	69.33	33 J	32.51	20.18
RM-4-1 3-4 ft	41 J	40.7	16.27	84 U	< LOD	55.93	290 U	< LOD	194.11	35,000	35451.39	395.8	1,200	1243.86	100.58	40 J	39.92	22.35
RM-4-1 5-6 ft	37 J	36.84	16.15	83 U	< LOD	55.19	280 U	< LOD	183.19	31,000	30541.26	366.91	890	884.89	87.22	47 U	< LOD	31.03
RM-5-2 2-3 ft	89 J	88.53	18.35	83 U	< LOD	55.19	260 U	< LOD	173.54	28,000	28020.59	346.47	500	503.08	69.68	97 J	97.03	21.68
RM-5-2 4-5 ft	28 J	28.07	15.18	79 U	< LOD	52.63	260 U	< LOD	169.79	27,000	27435.6	342.19	610	607	73.74	43 J	42.54	20.87
RM-6-1 6.5-7.5 ft	34 J	34.12	15.32	77 U	< LOD	51.21	220 U	< LOD	145.84	21,000	20542.84	293.59	490	493.91	66.22	45 J	44.84	18.72
RM-6-1 8.5-9.5 ft	25 J	25.15	14.83	78 U	< LOD	52.14	220 U	< LOD	145.97	21,000	21169.89	298.09	470	467.12	65.27	35 J	34.86	18.72
RM-7-2 6-7 ft	23 J	22.8	14.6	77 U	< LOD	51.2	210 U	< LOD	137.73	18,000	17925.51	273.77	290	288.22	54.93	49 J	48.7	17.57
RM-7-2 8-9 ft	33 U	< LOD	22	79 U	< LOD	52.54	230 U	< LOD	152.28	22,000	22092.27	305.31	720	721.33	77.09	56 J	55.61	19.56
RM-8-7 5-6 ft	35 J	35.01	16.94	92 U	< LOD	61.07	310 U	< LOD	209	37,000	37083.1	417.91	600	602.3	79.9	48 U	< LOD	32.12
RM-8-7 7-8 ft	32 U	< LOD	21.17	79 U	< LOD	52.4	230 U	< LOD	154.84	23,000	22511.66	311.37	440	438.02	64.97	36 U	< LOD	24.27
RM-8-7 7-8 ft R	33 U	< LOD	22.17	81 U	< LOD	53.94	230 U	< LOD	154.76	22,000	22385.67	309.3	390	388.18	62.34	28 J	27.69	16.76
RM-9-1 0-2 in	94 J	94.05	23.33	280	276.06	53.78	170 U	< LOD	114.82	9,300	9299.29	229.5	170 J	166.59	62.6	830	832.72	30.63
RM-9-1 2-12 in	38 J	38.25	21.6	110 U	< LOD	71.76	230 U	< LOD	154.38	15,000	15414	309.76	130 U	< LOD	84.78	480	475.1	26.24
RM-100 0-2 in	100 J	101.06	23.55	310	307.22	54.73	170 U	< LOD	114.23	9,100	9064.3	225.12	130 U	< LOD	83.85	870	873.24	30.74
RM-9-2 0-2 in	93 J	93.26	19.7	81 J	80.91	40.11	230 U	< LOD	151.69	20,000	19555.26	300.24	330	330.32	65.06	460	460.56	25.86
RM-9-2 2-12 in	79 J	78.89	19.46	110 J	112.06	42.17	260 U	< LOD	172.9	26,000	25790.65	349.44	420	415.07	69.94	290	291.48	24.2
RM-9-3 0-2 in	51 J	51.42	23.04	78 J	78.47	47.71	180 U	< LOD	121.66	10,000	10027.12	238.88	200 J	200.11	60.62	290	291.83	21.57
RM-9-3 2-12 in	35 J	34.8	18.45	89 U	< LOD	59.06	220 U	< LOD	145.45	19,000	18581.85	288.64	290 J	285.35	59.5	200	198.91	22.03
RM-9-4 0-2 in	110 J	106.65	22.96	130 J	125.99	46.23	190 U	< LOD	125.33	12,000	11796.45	254.53	250 J	245.36	63.61	420	417.75	24.44
RM-9-4 2-12 in	120 J	124.24	24.9	150 J	145.7	50.62	250 U	< LOD	164.48	18,000	18088.46	323.65	250 J	254.09	71.1	660	663.74	29.26
RM-9-5 0-2 in	41 J	41	16.85	97 J	97.18	38.67	140 U	< LOD	93.6	7,700	7728.33	187.47	210 J	212.04	50.91	280	275.85	20.04
RM-9-5 2-12 in	40 J	40.43	20.53	99 U	< LOD	65.84	120 U	< LOD	77.42	3,800	3776.79	150.09	150 J	148.91	51.69	170	169.6	17.74

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Copper			Nickel			Cobalt			Iron			Manganese			Chromium		
	Threshold = 180 mg/Kg			Threshold = 550 mg/Kg						Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-9-5 2-12 in R	42 U	< LOD	28.17	100 U	< LOD	67.38	120 U	< LOD	77.53	3,600	3640.6	146.87	120 J	120.93	48.61	150	151.51	17.19
RM-9-6 0-2 in	65 J	65.49	20.57	88 J	88.19	43.93	180 U	< LOD	121.21	11,000	10917.97	241.51	240 J	237.43	60.88	340	334.69	22.57
RM-9-6 2-12 in	110 J	114.46	24.42	160 J	156.06	50.08	230 U	< LOD	150.84	16,000	16046.77	303.88	260 J	263.68	71.02	660	655.32	28.78
RM-10-1 0-2 in	87 J	86.85	20.68	76 J	76.13	43.3	290 U	< LOD	189.88	28,000	28486.89	378.83	490	491.25	79.67	470	471.73	28.3
RM-10-1 2-12 in	86 J	86.31	22.71	120 J	117.65	49.92	340 U	< LOD	226.33	36,000	36042.24	452.22	630	626.04	95.78	660	657.21	30.95
RM-10-2 0-2 in	73 J	73.34	19.6	100 J	103.07	41.65	160 U	< LOD	108.74	9,400	9400.47	214.49	240 J	240.46	57.75	510	507.44	24.75
RM-10-2 2-12 in	45 J	44.59	18.68	100 J	101.47	42.7	150 U	< LOD	99.72	7,300	7285.54	192.72	98 J	98.43	47.55	410	404.81	23.35
RM-10-3 0-2 in	94 J	94.32	20.22	220 J	221.42	45.48	190 U	< LOD	129.57	15,000	14526.27	260.52	150 J	148.05	55.18	790	787.37	30.83
RM-10-3 2-12 in	110 J	107.24	24.01	210 J	210.77	51.49	180 U	< LOD	121.45	10,000	10483.5	244.19	150 J	145.34	61.04	730	728.48	29.67
RM-10-4 0-2 in	110 J	112.3	23.27	190 J	188.92	48.78	180 U	< LOD	118.85	11,000	10618.37	240.61	130 U	< LOD	86.83	1,000	1032	32.21
RM-10-4 2-12 in	78 J	78.07	22.96	190 J	189.81	51.38	150 U	< LOD	101.32	6,800	6845.22	201.36	93 J	92.81	55.55	560	555.06	26.31
RM-10-5 0-2 in	130	127.3	24	140 J	143.53	48.31	260 U	< LOD	171.37	21,000	21419.02	341.86	330 J	325.92	75.33	750	751.5	31.95
RM-10-5 2-12 in	93 J	92.5	21.85	120 J	118.55	44.82	240 U	< LOD	156.39	20,000	19819.96	319.69	220 J	223.56	64.4	560	560.88	27.49
RM-10-6 0-2 in	86 J	85.82	23.89	200 J	203.17	54.23	310 U	< LOD	208.22	30,000	30141.68	424.49	400 J	402.33	85.81	670	674.05	31.22
RM-10-6 2-12 in	37 J	37.17	20.26	120 J	115.12	47.71	280 U	< LOD	185.94	26,000	25915.06	385.04	550	554.41	85.23	380	382.82	25.95
RM-10-6 2-12 in R	43 U	< LOD	28.79	93 J	93.13	47.85	290 U	< LOD	192.55	26,000	26296.94	389.25	600	597.04	88.16	370	369.87	26.2
CF-14 16-22 in	33 U	< LOD	22.23	84 U	< LOD	56.2	210 J	209.54	104.83	21,000	20839.04	305.53	410	405.37	64.01	41 U	< LOD	27.38
CF-16 4-12 in	33 U	< LOD	21.98	79 U	< LOD	52.34	240 U	< LOD	157.32	24,000	23624.08	317.2	420	423.61	64.05	52 J	52.3	19.75
CF-20 6-12 in	34 U	< LOD	22.87	78 U	< LOD	52.25	230 U	< LOD	154.53	22,000	21921.56	311.31	520	516.12	69.6	37 J	36.82	19.47
CF-30 0-2 in	100	102.07	18.5	82 U	< LOD	54.39	240 U	< LOD	157.26	23,000	23237.01	311.38	700	697.36	76.01	53 J	52.69	18.97
CF-31 0-2 in	35 J	34.78	16.38	88 U	< LOD	58.73	300 U	< LOD	202.6	36,000	35871.13	403.16	680	675.59	81.1	35 J	34.98	20.42
CF-32 0-2 in	95	94.58	18.13	76 U	< LOD	50.78	230 U	< LOD	154.99	24,000	23811.66	315.52	890	885.02	83.61	39 J	38.93	19.02
CF-32 0-2 in R	110	112.96	19.03	77 U	< LOD	51.2	240 U	< LOD	159.49	24,000	23862.61	317.69	960	961.28	86.94	44 J	44.23	19.29
CF-33 0-2 in	150	150.72	20.51	80 U	< LOD	53	240 U	< LOD	159.19	25,000	24837.95	322.16	670	672.82	75.4	58 J	57.5	19.76
CF-34 0-2 in	110 J	107.84	22.29	160 J	158.56	46.02	190 U	< LOD	125.63	12,000	12414.11	253.58	210 J	212.9	58.44	400	394.81	24.25
FTS-1 0-2 in	100 J	102.35	23.31	140 J	136.81	48.1	210 U	< LOD	140.08	14,000	14126.74	281.83	250 J	248.22	65.68	440	435.26	24.88
FTS-2 0-2 in	33 J	33.23	19.96	100 U	< LOD	67.3	180 U	< LOD	122.9	11,000	10970.22	251.92	310 J	309.83	66.92	210	213.5	19.54
FTS-3 0-2 in	71 J	70.72	22.07	96 J	96.18	46.7	170 U	< LOD	116.19	9,400	9409.46	233.77	310 J	309.49	66.38	260	258.08	20.65
FTS-4 0-2 in	67 J	66.98	21.8	120 J	116.6	47.33	170 U	< LOD	115.88	9,400	9444.47	232.86	250 J	248.68	62.75	330	333.13	21.93
FTS-5 0-2 in	85 J	84.67	23.09	140 J	134.93	49.63	200 U	< LOD	133.37	12,000	11654.93	261.8	240 J	237.89	65.71	320	320.67	22.41
FTS-6 0-2 in	65 J	65.19	21.93	110 J	110.03	47.94	170 U	< LOD	115.29	8,600	8549.59	223.36	140 J	134.57	55.37	330	326.5	22.33
FTS-7 0-2 in	48 J	47.92	22.35	100 J	100.38	50.19	200 U	< LOD	129.93	11,000	10767.25	260.67	210 J	213.21	66.2	320	318.55	22.1
FTS-8 0-2 in	53 J	53.19	21.18	140 J	138.17	48.83	190 U	< LOD	129.45	11,000	11432.32	256.33	240 J	238.32	64.08	360	363.47	23.11
FTS-9 0-2 in	85 J	84.83	23.52	120 J	122.17	49.75	200 U	< LOD	131.58	11,000	11284.27	260.31	250 J	244.94	66.91	370	368.39	22.56
FTS-10 0-2 in	50 J	49.79	22.12	130 J	133.49	51.17	190 U	< LOD	125.07	9,500	9522.51	241.95	210 J	206.56	63.74	290	286.88	21.64
FTS-11 0-2 in	45 J	45.09	21.87	130 J	125.09	50.24	150 U	< LOD	102.59	6,600	6603.48	202.55	150 J	153.55	56.5	230	230.48	19.58
FTS-12 0-2 in	35 J	34.78	21.35	110 U	< LOD	71.83	140 U	< LOD	93.41	4,900	4914.04	176.43	170 J	174.33	56.62	140	141.75	16.73
FTS-13 0-2 in	76 J	75.54	22.7	110 U	< LOD	70.25	190 U	< LOD	124.95	10,000	9963.78	243.33	170 J	173.3	58.77	310	308.58	22.21
FTS-14 0-2 in	93 J	92.96	20.44	66 J	65.61	41.41	260 U	< LOD	175.87	25,000	25421.22	351.75	550	550.08	76.76	160	160.98	21.86
FTS-15 0-2 in	82 J	82.12	19.24	86 U	< LOD	57.11	260 U	< LOD	175.14	27,000	26948.04	354.82	630	626.29	78.54	94 J	93.71	20.96
FTS-16 0-2 in	56 J	56.41	21.43	74 J	73.94	46.21	170 U	< LOD	115.16	8,700	8715.08	225.93	250 J	247.75	61.96	260	256.02	20.85
FTS-17 0-2 in	55 J	54.69	22.18	110 U	< LOD	70.9	150 U	< LOD	101.39	6,100	6141.72	195.14	190 J	184.9	57.23	190	190.53	18.08
FTS-18 0-2 in	66 J	65.99	22.77	130 J	125.83	49.71	180 U	< LOD	118.11	9,500	9521.94	240.78	220 J	218.16	62.35	240	238.51	19.35
FTS-100 0-2 in	33 J	32.5	20.96	120 J	122.27	49.49	150 U	< LOD	98.79	6,200	6247.86	195.68	130 J	130.95	54.28	270	272.77	19.69
FTS-19 0-2 in	190	186.53	24.62	98 J	98.01	42.98	270 U	< LOD	178.65	26,000	26356.55	361.43	580	583.17	79.13	140	135.74	21.58
FTS-19 0-2 in R	190	189.15	24.7	69 J	68.86	41.22	270 U	< LOD	176.54	26,000	26395.82	361.77	510	513.17	75.16	130	130.69	20.8
FTS-20 0-2 in	180	179.05	25.9	110 J	112.21	46.29	230 U	< LOD	150.96	17,000	16616.13	298.96	280 J	277.17	66.35	500	504.4	26.03
FTS-21 0-2 in	120	118.61	23.63	140 J	140.01	47.48	220 U	< LOD	143.26	15,000	15096.73	286.46	250 J	248.79	64.27	520	514.89	25.94
SGW-1 0-2 in	160	161.11	26.91	140 J	142.6	50.36	280 U	< LOD	183.66	24,000	24384.76	370.97	330 J	333.27	80.04	950	953.08	35.07
SGW-1 2-12 in	130	127.31	24.6	160 J	159.86	50.65	310 U	< LOD	207.08	31,000	31050.65	411.08	260 J	258.9	75.81	990	985.21	37.34
SGW-2 0-2 in	120 J	117.33	24.33	280	277.44	53.87	240 U	< LOD	158.31	18,000	18376.58	315.52	220 J	223.47	68.94	860	859.26	32.33
SGW-2 2-12 in	130	127.98	24.3	160 J	162.1	49.09	240 U	< LOD	162.27	19,000	19037.28	317.96	280 J	277.58	71.51	860	858.11	32.87
SGW-100 2-12 in	160	160.62	26.16	220 J	223.37	51.94	250 U	< LOD	164.9	20,000	20116.73	330.7	290 J	290.55	73.72	900	896.76	33.59
SGW-3 0-2 in	120 J	121.98	25.17	230 J	231.91	53.25	240 U	< LOD	162.13	19,000	18779.15	322.55	290 J	286.25	71.62	710	713.05	31.67
SGW-3 2-12 in	120 J	118.52	24.03	150 J	145.71	47.97	210 U	< LOD	142.07	15,000	14654.12	278.52	280 J	274.95	67.43	780	781.03	30.84

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Copper			Nickel			Cobalt			Iron			Manganese			Chromium		
	Threshold = 180 mg/Kg			Threshold = 550 mg/Kg						Threshold = 130,000 mg/Kg						Threshold = 1,800 mg/Kg		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
SGW-4 0-2 in	89 J	89.28	21.92	180 J	182.27	49.19	290 U	< LOD	195.22	29,000	29282.13	388.99	480	474.61	83	690	688.76	31.75
SGW-4 2-12 in	100 J	101.88	23.21	130 J	126.73	47.12	250 U	< LOD	163.32	20,000	20404.92	329.39	280 J	284.43	69.18	600	598.89	28.28
SGW-4 2-12 in R	94 J	93.88	23.22	130 J	128.38	48.34	250 U	< LOD	169.02	21,000	20802.17	335.66	280 J	275.53	70.32	580	582.58	28.07
SGW-5 0-2 in	99 J	99.35	22.38	120 J	115.86	45.53	270 U	< LOD	181.74	26,000	26498.39	371.31	420	415.06	79.08	720	720.93	30.85
SGW-5 2-12 in	63 J	63.14	19.9	81 J	81.24	42.31	230 U	< LOD	149.93	18,000	18334.53	300.29	310 J	310.57	65.93	480	477.49	26.59
< DL	33			148			220			0			3			45		
J-Qualified	149			73			5			0			66			92		
Detected	43			4			0			225			156			88		

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation
U - Concentration < LOD
J - Concentration >LOD and < PQL
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Table 1 - Soil Quality Data - XRF

Sample ID	Vanadium			Titanium			Scandium			Calcium			Potassium			Sulfur		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
SGW-1 0-2 in	680	674.95	46.03	1,300	1325.82	115.86	490 J	487.32	156.76	120,000	124915.16	851.97	13,000	12837.17	446.47	1,900 J	1911.9	816.89
SGW-1 0-2 in	710	709.14	46.03	1,400	1402.5	113.9	450 J	450.94	157.74	130,000	125688.04	859.03	13,000	12619.03	446.13	1,700 J	1734.99	814.05
SGW-1 0-2 in R	710	705.21	46.03	1,500	1506.64	114.86	430 J	429.84	157.5	130,000	125911.95	858.61	13,000	12516.1	444.36	1,600 J	1587.48	806.02
SGW-1 2-12 in	630	632.73	49.29	2,700	2749.27	134.5	350 J	350.89	131.38	81,000	80919.92	712.41	16,000	16367.92	493.93	1,600 U	< LOD	1042.53
SGW-1 1-2 ft	130 J	131.14	32.7	2,300	2300.06	104.32	100 J	103.64	65.36	25,000	25374.5	357.63	19,000	19348.44	446.82	1,000 U	< LOD	681.8
SGW-1 4-5 ft	220	223.55	42.53	2,500	2537.56	129.96	140 U	< LOD	90.64	15,000	14993.02	332.98	17,000	16575.64	487.22	1,200 U	< LOD	772.03
SGW-2 0-2 in	750	745.37	45.05	1,400	1367.28	109.93	360 J	354.84	157.3	130,000	134450.23	862.01	13,000	12750.26	437.57	2,000 J	2021.08	817.32
SGW-2 0-2 in R	730	731.4	45.13	1,300	1280.57	110.63	450 J	453.13	158.89	140,000	135526.19	866.83	13,000	12853.77	439.79	1,400 J	1405.98	792.87
SGW-2 2-12 in	550	546.97	39.94	1,400	1433.69	103.15	260 J	257.74	138.32	110,000	110444.68	759.29	11,000	11254.69	398.01	1,600 J	1626.51	727.14
SGW-3 0-2 in	560	562.02	42.64	1,500	1468.2	111.23	410 J	411.58	155.79	130,000	126553.09	850.36	13,000	12871.19	443.57	2,000 J	1997.47	815.77
SGW-3 2-12 in	580	582.18	40.89	1,400	1414.58	105.08	430 J	434.1	148.87	120,000	124920.33	811.19	11,000	10751.32	397.88	1,200 J	1169.92	736.97
SGW-3 1-2 ft	530	530.4	40.94	1,900	1883.53	109.38	290 J	292.58	126.67	91,000	90610.2	691.62	13,000	13184.05	418.05	1,500 J	1535.28	691.36
SGW-3 4-5 ft	160 J	163.1	43.72	3,500	3480.62	142.8	160 U	< LOD	104.27	19,000	18950.93	375.49	20,000	20025.93	538.67	1,100 U	< LOD	746.92
SGW-4 0-2 in	360	358.73	39.68	2,100	2141.69	115.4	410 J	410.79	130.68	87,000	87440.26	707.71	17,000	17164.9	483.31	1,800 J	1782.65	735.9
SGW-4 2-12 in	470	471.99	37.72	1,300	1298.72	99.67	370 J	367.98	140.91	120,000	116244.97	769.44	11,000	11364.24	396.39	2,300 J	2333.52	762.19
SGW-5 0-2 in	380	382.99	35.88	1,600	1638.4	99.16	220 J	216.59	130.49	98,000	98242.7	716.81	11,000	11278.53	394.13	1,500 U	< LOD	1008.64
SGW-5 2-12 in	340	339.47	35.09	1,800	1787.86	100.17	310 J	306.74	121.15	87,000	86766	660.24	12,000	12478.65	397.45	1,400 U	< LOD	926.82
SGW-5 1-2 ft	120 J	123.8	33.58	2,300	2322.47	108.28	190 U	< LOD	123.24	38,000	37730.4	451.16	20,000	19681.06	475.25	1,100 U	< LOD	763.79
SGW-5 4-5 ft	190 J	193.71	39.34	1,900	1909.93	118.46	110 J	108.93	62.13	16,000	15826.92	333.6	19,000	19252.4	508.9	1,100 U	< LOD	731.02
SGW-6 0-2 in	220	219.46	31.58	2,000	1965.8	95.95	190 J	193.64	99.9	63,000	62597.35	546.88	15,000	15446.11	413.82	1,200 U	< LOD	778.84
SGW-6 2-12 in	82 J	82.28	30.43	2,200	2180.48	100.73	210 U	< LOD	140.97	57,000	56600.4	523.4	19,000	18850.28	450.85	1,200 U	< LOD	796.16
SGW-6 2-12 in R	72 J	71.58	30.64	2,200	2190.83	102.16	210 U	< LOD	142.33	56,000	56321.95	530.47	19,000	18736.25	456.82	1,100 U	< LOD	748.52
EPP-1 2-4 ft	91 J	91.42	39.37	3,700	3697.45	134.78	180 U	< LOD	122.95	32,000	31937.11	448.15	21,000	20746.22	520.07	1,300 U	< LOD	848.5
EPP-1 4.5-6.5ft	120 J	122.58	37.77	3,300	3340.22	127.02	200 U	< LOD	135.13	40,000	39713.37	495.69	20,000	20006.64	513.6	1,200 U	< LOD	806.59
EPP-1 7-9 ft	150 J	148.9	41.03	3,700	3720.87	136.47	130 U	< LOD	89.56	15,000	14774.93	325.65	19,000	18732.34	505.54	1,100 U	< LOD	748.39
EPP-1 9.5-11.5f	94 J	94.12	31.24	2,600	2622.36	103.66	130 U	< LOD	83.25	17,000	17415.36	309.93	21,000	20606.13	469.24	920 U	< LOD	615.76
EPP-2 2-4 ft	61 J	61.4	40.18	3,400	3381.98	136.59	180 U	< LOD	117.44	30,000	29580.44	432.94	20,000	19611.37	507.07	1,100 U	< LOD	757.68
EPP-2 4.5-6.5 ft	91 J	90.52	36.06	2,800	2780.76	121.09	220 U	< LOD	148.62	49,000	49315.84	550.16	19,000	19271.67	508.86	1,300 U	< LOD	888.98
EPP-2 7-9 ft	100 J	100.47	42.61	4,100	4064.9	145.25	140 U	< LOD	92.49	16,000	15775.53	341.38	24,000	24286.7	574.57	1,100 U	< LOD	731.01
EPP-2 9.5-11.5 ft	88 U	< LOD	58.99	4,000	3969.39	137.56	120 U	< LOD	82.48	13,000	12758.5	302.51	23,000	22781.3	541.43	950 U	< LOD	633.98
EPP-3 3-4 ft	50 J	50.37	32.8	2,700	2745.36	113.56	230 U	< LOD	153.6	59,000	58506.73	570.5	18,000	18469.46	479.91	1,300 U	< LOD	867.97
EPP-3 5-7 ft	55 J	54.91	35.7	3,300	3333.34	122.69	120 U	< LOD	81.01	14,000	14436.1	302.83	25,000	24722.87	534.65	1,000 U	< LOD	675.48
EPP-3 5-7 ft R	67 J	67.17	36.16	3,300	3307.29	123.67	100 J	102.23	56.17	14,000	14351.76	305.73	25,000	24700.95	540.84	1,000 U	< LOD	678.02
EPP-3 8-10 ft	85 J	84.54	38.74	3,800	3825.25	133.26	110 U	< LOD	76.05	10,000	10357.62	277.08	23,000	23255.56	543.83	1,100 U	< LOD	723.72
EPP-3 10.5-12.5 ft	120 J	122.16	41.71	4,200	4203.4	142.02	120 U	< LOD	77.36	10,000	10480.46	284.7	22,000	21881.64	541.71	1,000 U	< LOD	688.84
EPP-4 13-15 ft	110 J	109.25	42.87	4,800	4843.02	149.83	110 J	105.71	65.22	17,000	17014.65	354.4	26,000	2556				

Table 1 - Soil Quality Data - XRF

Sample ID	Vanadium			Titanium			Scandium			Calcium			Potassium			Sulfur		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
EPP-8 9-11ft R	59 J	58.53	36.17	3,500	3504.86	125.08	120 U	< LOD	81.82	14,000	14085.37	303.35	25,000	24991.92	543.55	930 U	< LOD	620.48
EPP-100 2-4 ft	110 J	110.36	37.87	3,200	3201.05	126.86	150 J	153.1	81.06	31,000	31336.27	439.59	19,000	19347.61	499.22	1,300 U	< LOD	833.66
EPP-100 4.5-6.5 ft	100 J	102.8	37.13	3,100	3087.39	125.08	160 J	157.49	91	40,000	39799.21	496.15	20,000	20043.75	514.09	1,200 U	< LOD	794.18
EPP-100 7-9 ft	110 J	113.78	41.14	4,200	4153.45	140.86	140 U	< LOD	90.98	15,000	15175.89	327.55	19,000	19101.05	507.09	990 U	< LOD	661.02
EPP-100 9.5-11.5 ft	75 J	75	30.07	2,300	2300.42	99.14	82 J	82.19	51.75	15,000	15360.09	283.91	21,000	21388.12	461.15	880 U	< LOD	587.73
EPP-9 0-2 ft	220	214.53	41.82	3,300	3335.57	133.28	130 J	127.49	66.47	19,000	19301.48	358.93	22,000	22414.24	537.35	1,100 U	< LOD	728.06
EPP-9 3-5 ft	88 J	88.48	37.16	3,500	3467.13	126.57	140 U	< LOD	95.5	20,000	19507.65	352.13	22,000	21885.9	519.57	1,200 J	1218.52	556.97
EPP-9 5.5-7.5 ft	80 J	79.82	37.72	3,800	3785.8	130.47	120 U	< LOD	82.88	13,000	13243.91	302.88	22,000	22094.62	528.05	1,100 U	< LOD	715.3
EPP-9 8-10 ft	60 J	59.75	35.02	3,400	3380.13	121.32	110 U	< LOD	75.59	11,000	11160.46	274.9	22,000	22050.15	513.98	1,000 U	< LOD	679.63
EPP-10 7-8 ft	100 J	100.56	38.01	3,500	3546.81	128.81	120 U	< LOD	80.75	13,000	12762.52	297.6	21,000	21473.05	520.66	1,000 U	< LOD	670.59
EPP-10 9-11 ft	64 J	64.33	35.8	3,500	3457.85	123.23	120 U	< LOD	81.41	14,000	14248.12	300.75	24,000	23602.95	523.56	950 U	< LOD	636.21
EPP-10 12-14 ft	77 U	< LOD	51.54	3,100	3129.82	118.27	110 U	< LOD	75.21	12,000	11784.5	276.56	25,000	24516.97	528.69	930 U	< LOD	621.84
EPP-10 15-17 ft	69 U	< LOD	46.31	2,700	2728.29	106.46	100 U	< LOD	69.31	11,000	11371.3	258.54	27,000	27356.25	525.6	920 U	< LOD	613.99
EPP-11 2.5-4.5 ft	81 J	81	34.78	2,900	2876.01	116.83	160 U	< LOD	107.45	27,000	27125.83	395.12	24,000	24190.29	527.64	1,000 U	< LOD	690.35
EPP-11 5-7 ft	150 J	146.17	35.61	2,800	2770.85	116.5	170 J	171.45	97.89	50,000	50337.43	535.97	21,000	20818.39	508.14	1,300 U	< LOD	845.66
EPP-11 7.5-9.5 ft	76 J	76.1	36.87	3,500	3512.97	126.32	120 U	< LOD	80.45	13,000	12931.85	292.78	22,000	21788.59	512.93	1,000 U	< LOD	666.26
EPP-11 10-12 ft	68 J	67.57	39.5	3,900	3905.68	137.12	130 U	< LOD	87.02	14,000	14465.83	320.73	21,000	21180.69	529.24	1,100 U	< LOD	716.66
EPP-12 0-2 ft	97 J	97.47	38.64	3,600	3610.58	131.54	150 U	< LOD	102.35	21,000	21370.9	374.95	23,000	23241.8	545.46	1,200 U	< LOD	777.15
EPP-12 2.5-4.5 ft	61 J	60.94	36.35	3,400	3429.93	125.17	120 U	< LOD	79.42	13,000	12594.3	292.14	25,000	25185.41	549.07	990 U	< LOD	656.75
EPP-12 5-7 ft	69 J	68.54	36.71	3,600	3606.5	126.96	120 U	< LOD	80.92	13,000	12936.27	298.42	25,000	25276.92	555.39	1,100 U	< LOD	707.97
EPP-12 7.5-9.5 ft	89 J	88.54	37.5	3,600	3570.6	128.11	110 J	106.29	54.12	12,000	12304.76	293.91	26,000	26089.31	565.79	1,000 U	< LOD	677.06
EPP-13 2-3 ft	91 J	90.53	39.51	3,900	3920.02	135.89	140 U	< LOD	91.35	16,000	16120.27	333.91	23,000	23166.01	546.83	1,000 U	< LOD	698.74
EPP-13 2-3 ft R	82 J	82.41	40.28	4,100	4050.48	139.32	140 U	< LOD	91.83	16,000	16068.7	336.9	23,000	23158.39	552.25	1,100 U	< LOD	746.8
EPP-13 3.5-5.5 ft	91 U	< LOD	60.54	4,200	4160.92	141.97	110 J	113.53	65.27	18,000	17821.05	351.84	21,000	20865.25	528.3	1,000 U	< LOD	687.5
EPP-13 6-8 ft	88 J	87.73	41.33	4,500	4491.15	144.69	120 J	117.03	61.98	15,000	15221.25	332.33	21,000	21468.29	539.39	1,100 U	< LOD	735.4
EPP-13 8.5-10.5 ft	67 J	66.74	41.52	4,300	4249.58	144.78	130 U	< LOD	89.48	14,000	14318.63	324.2	23,000	22792.24	553.32	1,200 U	< LOD	771.5
EPP-14 2-4 ft	76 J	76.11	44.92	4,700	4692.92	156.76	150 U	< LOD	99.41	17,000	16945.97	356.63	20,000	19755.3	533.26	1,100 U	< LOD	755.74
EPP-14 4.5-6.5 ft	100 J	101.87	47.74	5,400	5354.29	167.87	110 J	106.06	69.2	17,000	16998.37	369.47	18,000	17655.38	525.77	1,100 U	< LOD	751.15
EPP-14 7-9 ft	74 J	74.48	43.29	4,800	4754.58	152.69	110 J	110.19	63.79	15,000	15489.87	341.18	20,000	19579.48	528.35	1,100 U	< LOD	704.62
EPP-14 9.5-11.5 ft	70 J	70.09	42.64	4,400	4389.54	149.01	140 U	< LOD	94.98	16,000	16211.89	346.33	20,000	20429.18	535.89	1,100 U	< LOD	755.54
TBWRS-1 0-2 in	180	179.81	35.12	2,800	2768.47	112.75	220 U	< LOD	145.23	55,000	55261.98	534.57	17,000	17074.51	446.12	1,200 U	< LOD	824.32
TBWRS-1 2-12 in	93 J	92.79	36.03	3,100	3129.22	120.97	130 U	< LOD	88.48	17,000	16942.48	320.89	16,000	16151.24	442.4	970 U	< LOD	645.12
TBWRS-2 0-2 in	89 J	89.29	34.8	3,300	3287.59	117.87	140 U	< LOD	95.41	22,000	22358.49	348.21	18,000	17877.22	444.46	950 U	< LOD	635.61
TBWRS-2 2-12 in	74 J	74.39	32.15	3,000	3020.09	109.19	110 U	< LOD	69.86	12,000	11740.23	257.04	15,000	15084.16	403.64	880 U	< LOD	588.8
TBWRS-3 0-2 in	160 J	163.06	34.31	2,800	2763.66	110.83	180 J	177.22	84.37	41,000	41226.51	458.29	16,000	15526.59	418.82	1,100 U	< LOD	731.11
TBWRS-3 2-12 in	55 J	54.64	35.29	3,300	3334.78	120.99	120 U	< LOD	77.41	13,000	13396.73	279.42	17,000	17255.89	438.25	810 U	< LOD	540.61
TBWRS-4 0-2 in	120 J	121.4	34.98	2,800	2763.22	114.51	170 U	< LOD	112.56	31,000	31484.1	414	16,000	15781.91	429.82	1,100 U	< LOD	731.21
TBWRS-4 2-12 in	59 J	58.99	33.48	3,200	3246.34	114.82	110 U	< LOD	72.41	12,000	12368.27	263.52	16,000	16090.01	415.39	880 U	< LOD	588.14
TBWRS-5 0-2 in	120 J	119.39	34.26	3,100	3146.64	114.16	150 U	< LOD	100.65	25,000	25385.66	367.47	17,000	16877.39	432.46	990 U	< LOD	660.87
TBWRS-5 2-12 in	78 U	< LOD	52.01	3,400	3440.05	120.11	120 U	< LOD	79.42	14,000	14398.64	288.96	18,000	17610.31	443.32	950 U	< LOD	629.72
TBWRS-6 0-2 in	160 J	160.84	35.59	2,800	2768.07	114.44	190 U	< LOD	123.62	38,000	38318.88	459.11	17,000	16598.43	445.89	1,100 U	< LOD	713.18
TBWRS-6 2-12 in	78 J	78.31	35.2	3,400	3361.91	120.32	130 U	< LOD	85.28	16,000	15927.44	307.1	16,000	15687.5	429.56	990 U	< LOD	662.58
TBWRS-7 0-2 in	170 J	166.38	36.68	3,000	3020.13	118.74	150 J	149.57	74.68	29,000	28858.27	403.98	17,000	17271.31	453.31	1,100 U	< LOD	747.33
TBWRS-7 2-12 in	130 J	125.85	37.63	3,400	3433.36	125.04	120 U	< LOD	81.89	15,000	14754.63	301.5	20,000	19525.05	477.78	990 U	< LOD	656.41
TBWRS-8 0-2 in	67 J	67.04	32.74	2,900	2905.22	110.99	230 J	227.87	61.2	20,000	19948.93	321.91	19,000	19495.85	448.73	770 J	769.37	465.52
TBWRS-8 2-12 in	61 J	61.21	37.25	3,900	3866.41	129.18	98 J	97.97	55.64	15,000	15009.77	300.51	20,000	19778.56	475.57	1,000 U	< LOD	688.36
TBWRS-9 0-2 in	74 J	73.77	36.28	3,300	3274.71	124.07	140 J	138.75	69.25	23,000	22669.77	374.2	21,000	20716.56	505.25	2,100 J	2050.28	613.91
TBWRS-9 2-12 in	58 J	57.57	36.4	3,500	3548.18	126.61	160 U	< LOD	105.15	24,000	24306.52	386.36	23,000	22572.29	525.11	3,500 J	3501.82	703.15
TBWRS-10 0-2 in	100 J	103.26	33.44	2,600	2591	110.27	170 U	< LOD	110.43	30,000	29799.75	405.55	18,000	17978.33	456.73	1,000 U	< LOD	696.06
TBWRS-10 0-2 in R	140 J	134.61	32.53	2,600	2647.01	106.17	130 J	127.43	73.32	30,000	29596.28	399.49	18,000	17872.51	450.07	1,100 U	< LOD	701.06
TBWRS-10 2-12 in	64 J	64.41	33.31	3,100	3100.86	114.73	150 U	< LOD	99.31	23,000	22838.92	362.35	20,000	19547.87	476.05	1,000 U	< LOD	663.83
TBWRS-11 0-2 in	89 J	88.85	35.3	3,100	3137.91	119.12	140 J	144.25	60.26	17,000	17267.93	323.16	21,000	21485.99	499	1,000 U	< LOD	693.5
TBWRS-11 2-12 in	69 J	68.67	34.13	3,100	3127.05	117.09	160 U	< LOD	108.65	28,000	28125.69	401.99	22,000	21991.3	506.79	990 J	984.62	542.49
TBWRS-12 0-2 in	97 J	96.7	34.48	2,900	2909.15	114.55	130 J	128.86	58.05	18,000	17633.92	311.59	18,000	18062.4	443.42	940 U	< LOD	623.23
TBWRS-12 2-12 in	54 J	54	33.23	2,900	2911.66	112.99	130 J	133.04	53.22	14,000	14388.61	283.13	18,000	17863.26	437.75	880 U	< LOD	589.65

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Table 1 - Soil Quality Data - XRF

Sample ID	Vanadium			Titanium			Scandium			Calcium			Potassium			Sulfur		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ			
TBWSR-13 0-2 in	84 J	84.21	33.82	3,000	3031.54	113.75	130 J	129.33	51.92	13,000	13267.46	275.34	17,000	17352.35	434.99	970 U	< LOD	646.94
TBWSR-13 2-12 in	78 U	< LOD	52.24	3,400	3375.72	120.37	100 U	< LOD	67.89	9,900	9878.29	244.82	17,000	17319.59	436.33	920 U	< LOD	616.12
TBWSR-14 0-2 in	110 J	105.92	37.96	3,500	3500.09	127.48	96 J	95.96	52.72	12,000	12493.18	282.16	18,000	17799.99	461.2	960 U	< LOD	639.48
TBWSR-14 2-12 in	53 J	53.41	33.32	2,900	2937.74	113.44	110 U	< LOD	76.09	13,000	13471.83	277.04	16,000	16372.31	424.46	910 U	< LOD	603.58
TBWSR-15 0-2 in	94 J	93.92	32.26	2,800	2755.07	107.67	110 J	105.25	60.73	20,000	19800.72	329.99	19,000	18708.98	453.15	960 U	< LOD	638.84
TBWSR-15 2-12 in	82 J	82.27	35.5	3,300	3319.1	121.04	130 U	< LOD	88.91	17,000	17187.56	322.35	18,000	17667.8	458.98	1,000 U	< LOD	675.31
TBWSR-16 0-2 in	88 J	87.68	32.8	3,200	3165.86	111.54	130 U	< LOD	85.13	18,000	17604.74	312.97	20,000	19654.74	462.06	950 U	< LOD	635.9
TBWSR-16 2-12 in	78 J	78.39	34.4	3,300	3336.84	117.99	100 J	102.15	54.63	14,000	14184.51	294.66	20,000	19749.06	477.33	990 U	< LOD	656.82
TBWSR-17 0-2 in	69 J	69.11	38.43	3,600	3561.99	132.45	170 U	< LOD	114.52	27,000	27466.11	417.77	19,000	19211.75	501.45	1,100 U	< LOD	705.68
TBWSR-17 2-12 in	69 J	68.58	32.25	3,200	3223.31	110.83	120 J	120.08	53.09	15,000	15210.29	285.85	20,000	19848.11	451.57	970 U	< LOD	644
TBWSR-18 0-2 in	78 J	78.39	36.26	3,300	3267.01	122.34	110 U	< LOD	75.05	12,000	12170.29	278.34	28,000	27782.68	553.29	920 U	< LOD	609.92
TBWSR-18 2-12 in	77 J	76.97	39.02	3,800	3808.45	133.86	110 J	112.93	53.37	12,000	11991.5	288.29	26,000	26308.38	562.21	1,000 U	< LOD	672.37
TBWSR-18 2-12 in R	77 J	76.56	38.54	3,700	3700.89	131.94	120 U	< LOD	78.82	12,000	12177.45	290.92	27,000	26616.51	566.58	1,100 U	< LOD	713.1
TBWSR-19 0-2 in	99 J	98.95	33.77	2,900	2875.61	111.59	97 J	96.84	49.53	13,000	13094.28	267.31	19,000	19333.89	444.82	910 U	< LOD	603.38
TBWSR-19 2-12 in	71 J	70.52	35.8	3,500	3548.44	122.53	110 U	< LOD	70.55	11,000	11315.48	261.73	20,000	19543.32	463.85	890 U	< LOD	592.59
TBWSR-20 0-2 in	79 J	78.98	34.5	3,100	3087.67	116.04	120 U	< LOD	76.46	14,000	13984	282.64	18,000	18322.87	446.85	940 U	< LOD	629.11
TBWSR-20 2-12 in	55 J	55.02	34.4	3,200	3182.18	117.62	110 U	< LOD	74.66	13,000	12721.94	274.09	18,000	18204.68	449.27	990 U	< LOD	658.57
TBWSR-21 0-2 in	76 J	76.2	34.46	3,300	3332.94	117.21	110 U	< LOD	70.6	12,000	11951.88	264.41	19,000	19378.9	457.02	930 U	< LOD	617.66
TBWSR-21 2-12 in	93 J	93.41	39.3	3,700	3650.9	133.59	110 J	106.62	56.47	13,000	13166.69	301.74	19,000	19392.12	499.12	960 U	< LOD	637.7
TBWSR-22 0-2 in	68 J	67.93	35.27	3,200	3199.85	119.96	96 J	96.28	53.15	14,000	13663.87	286.86	20,000	19604.14	470.92	940 U	< LOD	626.22
TBWSR-22 2-12 in	87 U	< LOD	57.94	3,300	3334.69	132.54	190 U	< LOD	126.03	35,000	34844.57	467.89	18,000	18301.62	494.51	1,300 U	< LOD	839.64
TBWSR-23 0-2 in	80 J	79.75	38.65	3,600	3579.91	132.22	99 J	99.43	57.93	14,000	14182.43	308.62	15,000	15396.07	449.42	1,100 U	< LOD	740.86
TBWSR-23 2-12 in	66 J	66.4	36.28	3,500	3475.68	124.95	130 U	< LOD	85.73	15,000	15288.36	310.55	19,000	19393.7	483.38	930 U	< LOD	616.37
TBWSR-24 0-2 in	78 U	< LOD	51.79	3,400	3407.73	119.9	89 J	88.65	53.49	14,000	14182.31	289.14	19,000	18693.7	457.71	1,000 U	< LOD	666.7
TBWSR-24 2-12 in	86 U	< LOD	57.56	3,700	3650.26	133.8	100 J	99.59	55.02	13,000	12953.93	294.24	19,000	18974.43	485.77	1,000 U	< LOD	693.04
TBWSR-25 0-2 in	74 J	74.09	33.04	3,200	3194.45	112.69	100 U	< LOD	67.42	10,000	10475.34	244.99	15,000	15074.31	403.55	880 U	< LOD	584.03
TBWSR-25 2-12 in	88 U	< LOD	58.38	3,900	3900.6	136.36	120 J	123.24	57.19	13,000	13147.82	300.28	15,000	14958.86	445.6	970 U	< LOD	646.57
RM-1-2 2-3 ft	85 U	< LOD	56.64	3,400	3390.15	131.21	220 U	< LOD	144.79	47,000	47019.49	533.12	22,000	21854.7	532.2	1,200 U	< LOD	821.75
RM-1-2 4-5 ft	90 U	< LOD	59.73	3,800	3803.99	137.67	130 U	< LOD	89.32	16,000	15614.09	325.89	21,000	20987.94	518.95	1,100 U	< LOD	727.24
RM-2-7 2-3 ft	63 J	63.38	38.08	3,700	3686.33	131.81	140 U	< LOD	93.76	19,000	18506.91	350.61	25,000	24737.93	557.42	1,100 U	< LOD	751.13
RM-2-7 4-5 ft	66 J	66.42	37.84	3,600	3627.34	130.57	94 J	94.29	54.71	13,000	12558.5	297.23	25,000	24519.02	552.8	990 U	< LOD	659.29
RM-3-3 3-4 ft	76 J	75.78	41.23	4,100	4075.93	142.99	120 J	124.13	74.78	24,000	24439.15	406.36	23,000	22869.41	553.62	1,200 U	< LOD	817.63
RM-3-3 5-6 ft	87 U	< LOD	57.9	3,600	3598.26	132.86	120 U	< LOD	76.66	12,000	11522.64	286.7	24,000	24003.13	547.04	1,100 U	< LOD	737.57
RM-4-1 3-4 ft	67 J	66.64	43.73	4,200	4238.73	152.51	180 U	< LOD	120	26,000	26157.98	439.77	19,000	18660.4	531.86	1,300 U	< LOD	864.2
RM-4-1 5-6 ft	86 J	86.29	42.48	3,900	3912.47	144.28	130 U	< LOD	89.43	16,000	15664.82	331.5	22,000	21927.93	536.46	1,100 U	< LOD	754.6
RM-5-2 2-3 ft	100 J	101.44	39.18	3,400	3404.99	131.68	100 J	102.86	68.46	21,000	21410.42	371.29	19,000	18854.48	493.29	1,200 U	< LOD	766.57
RM-5-2 4-5 ft	76 J	75.59	40.35	3,600	3628.42	137.92	160 U	< LOD	103.73	21,000								

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Sample ID	Vanadium			Titanium			Scandium			Calcium			Potassium			Sulfur		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-9-5 2-12 in R	130	133.66	22.57	700	702.06	72.84	450 J	445.22	175.15	200,000	199653.91	962.2	7,900	7875.92	360.25	1,800 U	< LOD	1189.25
RM-9-6 0-2 in	300	295.51	31.09	1,100	1102.27	89.25	510 J	511.63	166.47	160,000	164715.19	909.57	11,000	10915.7	403.57	1,600 J	1621.85	809.43
RM-9-6 2-12 in	490	492.38	37.42	1,200	1224.94	98.32	420 J	414.61	169.39	160,000	163976.06	928.69	10,000	10392.99	406.12	4,100 J	4147.19	930.35
RM-10-1 0-2 in	320	319.86	41.19	2,700	2719.92	124.88	310 J	307.36	125.27	78,000	77886.77	681.65	18,000	18226.34	502.29	1,500 U	< LOD	984.81
RM-10-1 2-12 in	370	368.45	42.42	2,600	2587.56	125.76	350 J	348.79	128.91	82,000	81883.26	699.5	17,000	16549.33	484.87	1,100 J	1072.88	701.9
RM-10-2 0-2 in	410	410.52	32.5	1,000	1011.85	85.4	450 J	447.91	143.36	130,000	132220.53	781.57	8,600	8559.12	346.28	1,300 J	1299.31	702.67
RM-10-2 2-12 in	360	359.95	31.75	970	966.25	86.85	410 J	412.03	165.37	170,000	172692.06	907.36	8,200	8222.2	360.93	1,300 J	1326.12	785.11
RM-10-3 0-2 in	710	707.52	42.31	1,400	1449.42	104.2	420 J	415.99	143.67	120,000	121332.49	782.9	9,600	9634.99	373.33	3,600 J	3551.24	819.83
RM-10-3 2-12 in	650	652.67	40.01	1,100	1055.9	98.1	490 J	487.09	174.14	180,000	175882.38	953.18	9,300	9260.72	391.53	1,900 J	1884.98	849.13
RM-10-4 0-2 in	660	656.37	39.64	1,500	1527.55	100.45	570 J	567.46	149.81	140,000	140130.97	814.03	13,000	12974.77	408.76	1,500 J	1493.36	741.26
RM-10-4 2-12 in	480	479.88	34.76	790	786.73	89.61	490 J	492.06	188.21	210,000	210694.95	1033	8,000	8046.84	382.97	1,600 J	1595.97	882.68
RM-10-5 0-2 in	530	528.5	41.08	1,200	1199.61	106.83	420 J	419.25	174.8	160,000	157833.77	956.9	9,000	9029.83	405.51	2,000 J	2023.84	878.06
RM-10-5 2-12 in	370	367.06	36.12	1,600	1614.03	101.81	360 J	361.87	143.28	120,000	116260.8	782.82	13,000	12507.07	417.9	1,600 U	< LOD	1068.36
RM-10-6 0-2 in	440	434.83	42.11	1,900	1937.43	119.5	540 J	535.28	162.36	130,000	130401.45	881.37	14,000	14156.99	471.34	1,900 J	1897.03	842.25
RM-10-6 2-12 in	220	219.15	39.3	2,600	2558.3	125.6	440 J	435.5	151.38	120,000	115023.42	823.27	15,000	14506.54	467.98	1,600 U	< LOD	1083.82
RM-10-6 2-12 in R	270	265.74	40.96	2,600	2573.41	128.32	520 J	515.59	153.25	110,000	114497.91	829.65	14,000	14139.92	467.78	1,700 U	< LOD	1123.81
CF-14 16-22 in	59 J	58.91	33.36	2,400	2425.54	114.48	290 U	< LOD	190.68	87,000	87113.17	701.9	18,000	17923.14	488.67	1,500 U	< LOD	977.2
CF-16 4-12 in	81 J	80.67	36.96	3,100	3077.33	124.59	170 U	< LOD	115.26	30,000	29969.83	422.61	21,000	21403.45	511.67	1,100 U	< LOD	738
CF-20 6-12 in	78 J	78.06	36.41	2,900	2853.19	123.78	200 J	197.97	110.41	62,000	61663.07	603.73	19,000	18505.04	496.48	1,400 U	< LOD	963.71
CF-30 0-2 in	69 J	68.57	35.24	3,500	3501.6	121.04	120 U	< LOD	77.17	13,000	13442.59	282.37	19,000	19487.83	465.38	900 U	< LOD	597.69
CF-31 0-2 in	110 J	113.09	38.45	3,200	3226.46	127.86	140 U	< LOD	90.94	16,000	16356.82	332.99	22,000	22014.96	530.63	1,100 U	< LOD	726.46
CF-32 0-2 in	68 J	67.82	35.79	3,400	3352.95	122.05	74 J	74.31	49.39	12,000	11513.79	266.39	18,000	17716.1	449.92	890 U	< LOD	590.51
CF-32 0-2 in R	87 J	86.96	35.66	3,500	3479.43	121.74	110 U	< LOD	73.67	11,000	11387.5	269.67	18,000	17893.46	459.58	940 U	< LOD	624.31
CF-33 0-2 in	100 J	103.01	37.25	3,400	3379.32	124.68	110 U	< LOD	76.31	12,000	12349.12	276.47	17,000	17124.45	446.96	950 U	< LOD	635.4
CF-34 0-2 in	330	333.48	33.17	1,200	1165.64	93.01	520 J	514.68	159.18	150,000	145680.95	867.1	10,000	9957.47	390.26	2,700 J	2650.19	831.17
FTS-1 0-2 in	320	318.98	32.79	1,100	1051.16	93.05	440 J	437.45	177.57	180,000	179463	973.86	8,800	8821.7	391.31	1,500 J	1501.05	848.9
FTS-2 0-2 in	150	145.83	26.96	1,200	1190.21	87.43	520 J	518.21	169.14	170,000	173162.67	924.89	11,000	11223.49	406.71	1,800 U	< LOD	1182.54
FTS-3 0-2 in	160	160.09	27.77	1,000	1037.91	89.22	630 J	631.18	182.36	200,000	195476.75	995.51	11,000	10712.32	412.72	1,900 U	< LOD	1253.5
FTS-4 0-2 in	200	202.95	28.14	940	937.9	85.86	400 J	396.69	177.34	190,000	190954.5	974.98	8,400	8373.78	377.39	1,800 U	< LOD	1204.99
FTS-5 0-2 in	210	204.98	29.91	920	920.04	91.73	540 J	535.35	186.17	200,000	198096.33	1019.38	9,000	9019.17	398.7	1,900 U	< LOD	1283.87
FTS-6 0-2 in	220	218.13	28.42	870	866.76	86.65	580 J	581.48	192.53	210,000	212133.13	1054.03	8,600	8622.55	397.63	2,000 J	1988.15	916.31
FTS-7 0-2 in	170	167.11	27.99	850	846.76	89.57	510 J	513.36	202.08	230,000	230203.61	1109.98	9,300	9334.63	417.67	2,000 U	< LOD	1328.12
FTS-8 0-2 in	220	221.73	29.95	1,000	1006.67	90.87	310 J	308.83	186.97	200,000	201856.31	1031.52	8,800	8779.53	397.78	1,700 J	1672.66	890.49
FTS-9 0-2 in	240	243.46	28.33	830	832.18	83.48	560 J	561.84	179.14	190,000	191850.3	979.52	8,200	8168.59	375.96	2,100 J	2098.81	867.31
FTS-10 0-2 in	190	186.15	27.57	890	886.97	87.13	490 J	491.94	202.52	230,000	228038.81	1113.02	9,100	9112.38	417.02	2,100 U	< LOD	1375.69
FTS-11 0-2 in	130	132.7	25.28	750	754.22	82.63	480 J	476.12	191.83	220,000	220967.77	1054.21	8,600	8607.95	392.33	1,900 U	< LOD	1278.43
FTS-12 0-2 in	100 J	102.48	22.34	670	674.49	75.2	520 J	520.13	180.9	210,000	210011.63	992.04	7,400	7371.47	359.19	1,800 U	< LOD	1199.98
FTS-13 0-2 in	220	220.98	30.04	920	921.58	91.32	440 J	437.28	191.73	210,000	209524.61	1053.99	8,900	8945.66	403.69	2,000 U	< LOD	1309.47
FTS-14 0-2 in	140 J	137.75	37.61	3,300	3276.27	126.11	290 J	291.59	101.79	51,000	50933.45	548.99	20,000	20113.22	510.21	1,200 U	< LOD	825.98
FTS-15 0-2 in	120 J	117.28	37.85	3,400	3369.34	127.94	210 J	212.67	94.01	43,000	42855.16	509.29	20,000	19743.86	507.19	1,300 U	< LOD	846.71
FTS-16 0-2 in	160	162.71	27.39	840	835.33	87.33	630 J	631.68	192.07	210,000	210828.75	1049.8	8,800	8757.43	398.65	1,900 U	< LOD	1280.38
FTS-17 0-2 in	99 J	98.69	22.99	770	770.31	78.5	590 J	586.81	184.76	210,000	209400.25	1011.26	8,500	8489.3	381.47	1,800 U	< LOD	1229.39
FTS-18 0-2 in	130	131.75	24.17	690	687.56	77.91	570 J	574.2	177.42	190,000	193601.56	969.86	7,600	7583.11	363.2	1,700 J	1681.21	839.15
FTS-100 0-2 in	130	127.35	23.35	720	715.43	75.53	360 J	360.98	176.32	200,000	200316.59	971.3	8,400	8353.18	369.73	1,400 J	1440.81	827.22
FTS-19 0-2 in	140 J	135.17	37.42	3,000	3036.64	124.87	310 J	312.91	111.69	62,000	61684.66	604.24	20,000	19703.48	510.55	1,300 U	< LOD	869.12
FTS-19 0-2 in R	140 J	144.07	36.91	3,100	3092.7	122.68	240 J	238.35	108.16	62,000	61743.03	589.43	19,000	19481.24	495.54	1,300 U	< LOD	846.45
FTS-20 0-2 in	350	348.03	33.56	1,100	1109.39	92.62	400 J	397.05	158.19	140,000	144369.78	865.76	9,000	9013.17	378.34	2,100 J	2101.93	806.88
FTS-21 0-2 in	390	388	34.2	1,200	1157.52	93.02	410 J	406.28	157.3	150,000	146754.3	860.91	9,600	9623.7	382.15	1,900 J	1880.99	791.06
SGW-1 0-2 in	710	713.35	45.77	1,500	1450.46	112.85	390 J	394.41	149.9	120,000	115021.83	816.96	12,000	11681.22	427.46	1,700 U	< LOD	1106.04
SGW-1 2-12 in	700	704.31	50.02	2,200	2150.03	129.86	290 J	288	138.49	91,000	90854.82	756.15	15,000	15147.65	483.05	1,600 U	< LOD	1099.25
SGW-2 0-2 in	700	702.49	43.52	1,400	1353.38	107.4	420 J	416.1	150.48	130,000	126484.46	821.16	12,000	12384.87	422.44	1,300 J	1304.6	754.1
SGW-2 2-12 in	630	627.18	43.07	1,600	1566.05	109.89	390 J	389.22	148.35	120,000	118153.25	809.36	12,000	11916.23	421.83	2,100 J	2135	792.78
SGW-100 2-12 in	650	650.44	43.66	1,700	1653.31	110.83	290 J	287.47	149.49	120,000	120329.74	820.33	12,000	12069.34	426.44	1,700 J	1719.17	781.09
SGW-3 0-2 in	580	576.31	43.7	1,600	1590.7	114.56	410 J	405.78	157.07	130,000	126568.8	857.82	14,000	14233.22	464.9	1,300 J	1283.24	790.95

Table 1 - Soil Quality Data - XRF

Sample ID	Vanadium			Titanium			Scandium			Calcium			Potassium			Sulfur		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
SGW-4 0-2 in	460	457.46	42.95	2,000	2048.92	119.49	260 J	256.89	135.3	93,000	92550.02	740.88	15,000	15495.03	473.58	1,100 J	1136.15	723.69
SGW-4 2-12 in	450	446.15	38.44	1,700	1672.6	104.74	420 J	418.98	131.99	97,000	96641.95	715.65	13,000	12750.18	415.57	2,300 J	2342.9	744.16
SGW-4 2-12 in R	430	432.26	38.61	1,700	1678.36	106.11	400 J	403.23	131.93	97,000	96648.9	716.06	13,000	13039.21	419.45	1,800 J	1816.75	719.32
SGW-5 0-2 in	480	475.25	40.74	1,900	1882.47	111.38	320 J	320.71	134.05	97,000	97130.31	731.37	13,000	13315.33	431.15	1,500 U	< LOD	1032.32
SGW-5 2-12 in	370	365.25	37.48	2,100	2056.38	107.7	260 J	256.34	127.53	91,000	91462.4	698.29	14,000	13653.5	426.1	1,200 J	1224.18	681.33
< DL	17			0			99			0			0			172		
J-Qualified	133			0			126			0			0			52		
Detected	75			225			0			225			225			1		

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation
U - Concentration < LOD
J - Concentration >LOD and < PQL
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Table 1 - Soil Quality Data - XRF

Sample ID	Barium			Cesium			Tellurium			Antimony			Tin			Cadmium		
																Threshold = 140 mg/Kg		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
SGW-1 0-2 in	370	368.16	37.73	48 J	48.33	10.46	99 J	99.11	33.33	53 J	53.33	13.72	26 J	26.13	10.81	580	583.25	15.9
SGW-1 0-2 in	340	337.86	36.79	51	51.41	10.26	80 J	79.97	32.5	35 J	34.85	13.24	23 U	< LOD	15.6	570	571.68	15.49
SGW-1 0-2 in R	410	409.06	38.12	57	56.68	10.51	89 J	88.54	33.3	38 J	38.42	13.59	36 J	35.58	10.96	590	585.84	15.96
SGW-1 2-12 in	500	502.26	37.34	67	66.58	10.16	120 J	114.7	32.32	43 J	42.96	12.59	27 J	26.74	10.41	280	277.39	11.72
SGW-1 1-2 ft	810	810.81	37.16	84	83.75	9.64	150 J	146.36	30.8	47 J	46.65	11.48	44 J	44.25	10.02	14 J	13.65	6.9
SGW-1 4-5 ft	810	811.43	39.22	100	101.31	10.26	180	176.71	32.8	42 J	42.19	12.07	43 J	43.21	10.58	14 J	13.93	7.29
SGW-2 0-2 in	290	291.07	36.71	45 J	45.46	10.3	82 J	81.92	32.74	29 J	28.66	12.91	26 J	25.6	10.62	380	378.74	13.35
SGW-2 0-2 in R	340	337.94	37.38	53	52.97	10.43	81 J	81.24	33.02	24 J	23.92	12.98	30 J	30.21	10.77	390	386.21	13.56
SGW-2 2-12 in	440	442.48	39.15	68	68.45	10.81	160 J	158.19	34.71	70 J	69.75	14.18	41 J	41.08	11.26	570	569.3	16.08
SGW-3 0-2 in	400	400.79	37.94	54	54.3	10.47	96 J	96.01	33.26	41 J	40.59	13.54	24 U	< LOD	15.99	570	572.41	15.77
SGW-3 2-12 in	340	338.3	36.42	47 J	46.76	10.14	92 J	91.9	32.29	45 J	44.97	13.25	25 J	25.21	10.45	590	590.92	15.54
SGW-3 1-2 ft	450	451.83	37.28	61	61.35	10.22	130 J	133.64	32.76	51 J	50.95	12.66	35 J	35.24	10.61	210	212.59	10.89
SGW-3 4-5 ft	560	560.35	39.47	67	66.91	10.62	92 J	92.31	33.63	28 U	< LOD	18.43	22 J	22.17	10.79	17 U	< LOD	11.05
SGW-4 0-2 in	420	421.73	36.23	56	56.29	9.95	94 J	93.54	31.64	39 J	38.76	12.25	26 J	25.77	10.21	220	215.16	10.69
SGW-4 2-12 in	300	302.31	36.41	27 J	27.36	10.1	56 J	56.47	32.14	30 J	30.03	13.06	23 U	< LOD	15.48	530	525.35	14.93
SGW-5 0-2 in	630	625.08	39.4	110	108.28	10.71	200	202.52	34.24	69	69.4	13.19	52 J	52.12	11.07	230	224.59	11.32
SGW-5 2-12 in	420	415.26	36.45	54	53.68	10.02	130 J	130.76	32.22	40 J	39.66	12.61	27 J	27.05	10.34	360	358.23	12.69
SGW-5 1-2 ft	630	629.49	36.5	82	82.47	9.76	130 J	131.42	31.06	20 J	20.18	11.36	29 J	29.05	9.95	28 J	27.91	7.27
SGW-5 4-5 ft	690	692.72	39.16	84	83.65	10.37	130 J	126.79	32.93	31 J	30.98	12.15	31 J	31.03	10.6	16 U	< LOD	10.88
SGW-6 0-2 in	680	674.61	37.88	89	88.98	10.09	160 J	160.02	32.25	46 J	45.69	12.11	41 J	41.16	10.4	99	98.5	8.81
SGW-6 2-12 in	880	876.73	37.98	94	94.33	9.8	170	173.48	31.39	45 J	45.46	11.64	36 J	35.61	10.04	37 J	37.1	7.44
SGW-6 2-12 in R	930	927.46	38.78	100	101.95	9.96	210	205.21	32.08	48 J	47.91	11.82	44 J	43.95	10.28	43	43.41	7.66
EPP-1 2-4 ft	570	573.16	36.07	71	70.66	9.68	95 J	94.93	30.67	17 J	17.37	11.28	31 J	31.16	9.94	11 J	10.79	6.91
EPP-1 4.5-6.5ft	680	676.94	38.3	100	103.15	10.27	190	188.93	32.89	49 J	48.77	12.2	51 J	50.92	10.65	50	50.24	8.02
EPP-1 7-9 ft	640	638.11	38.94	87	86.6	10.44	150 J	147.35	33.29	45 J	44.66	12.38	36 J	36.48	10.71	15 J	15.09	7.47
EPP-1 9.5-11.5f	730	728.3	37.05	87	87.33	9.77	180	179.72	31.45	60	60.3	11.77	36 J	36.12	10.04	18 J	17.64	7.06
EPP-2 2-4 ft	870	869.36	37.89	93	92.75	9.78	160	160.72	31.23	57 J	56.74	11.69	39 J	38.61	10.07	15 U	< LOD	10.21
EPP-2 4.5-6.5 ft	750	750.11	38.3	84	84.22	10.05	150 J	147.96	32.1	37 J	36.96	11.83	31 J	31.42	10.27	16 U	< LOD	10.46
EPP-2 7-9 ft	710	714.26	36.81	100	100.26	9.78	180	174.56	31.27	46 J	46.38	11.54	46 J	46	10.11	15 U	< LOD	10.17
EPP-2 9.5-11.5 ft	620	621.76	35.95	70	69.75	9.57	130 J	130.27	30.63	44 J	44.2	11.44	34 J	34.16	9.88	15 U	< LOD	10.1
EPP-3 3-4 ft	610	612.94	36	71	70.67	9.59	120 J	120.25	30.62	31 J	30.52	11.32	42 J	41.55	9.98	15 U	< LOD	10.13
EPP-3 5-7 ft	590	589.19	35.15	68	68.03	9.4	140 J	138.64	30.19	34 J	33.97	11.14	33 J	33.39	9.7	15 U	< LOD	10.03
EPP-3 5-7 ft R	550	551.42	34.7	67	66.8	9.33	110 J	111.6	29.76	33 J	32.58	11.05	30 J	30.4	9.6	15 U	< LOD	9.76
EPP-3 8-10 ft	480	479.78	34.4	46 J	45.62	9.28	95 J	95.07	29.74	26 J	25.53	11.02	21 U	< LOD	14.09	15 U	< LOD	9.76
EPP-3 10.5-12.5 ft	520	516.22	34.83	53	53.26	9.36	100 J	103.37	29.99	19 J	19.45	11.02	21 U	< LOD	14.2	15 U	< LOD	9.86
EPP-4 13-15 ft	760	757.05	37.4	78	78.39	9.77	140 J	140.53	31.21	39 J	38.63	11.56	30 J	29.76	9.99	16 U	< LOD	10.35
EPP-4 15.5-17.5 ft	490	491.79	35.45	51	51.25	9.57	79 J	78.56	30.43	21 J	20.81	11.28	15 J	15.05	9.72	15 U	< LOD	10.05
EPP-4 18-20 ft	680	682.42	36.65	77	76.52	9.68	140 J	137.22	30.95	33 J	33.41	11.41	26 J	26.3	9.87	15 U	< LOD	10.18
EPP-4 20.5-22.5 ft	540	537.6	35.4	52	51.85	9.47	95 J	94.7	30.28	22 J	22.43	11.18	15 J	14.72	9.62	15 U	< LOD	9.87
EPP-5 5-6 ft	820	817.5	37.85	95	95.07	9.87	190	188.5	31.72	55 J	55	11.76	37 J	36.59	10.12	16 U	< LOD	10.35
EPP-5 7-9 ft	680	674.77	36.22	40 J	40.15	9.4	91 J	91.14	30.17	25 U	< LOD	16.63	18 J	17.85	9.64	15 U	< LOD	10.1
EPP-5 10-11 ft	590	587.16	35.7	57	57.03	9.5	110 J	108.25	30.38	34 J	34.37	11.31	20 J	19.93	9.69	15 U	< LOD	10
EPP-5 12-14 ft	520	515.26	35.62	53	52.93	9.58	86 J	85.66	30.51	25 U	< LOD	16.83	23 J	23.13	9.81	15 U	< LOD	10
EPP-6 3-5.5 ft	620	615.87	36.12	72	72.19	9.64	160	157.06	31.05	39 J	38.55	11.45	29 J	29.43	9.88	11 J	10.52	6.86
EPP-6 5.5-8 ft	600	604.24	36.09	74	73.7	9.65	120 J	123.25	30.77	35 J	35.38	11.42	35 J	35.26	9.95	11 J	10.83	6.88
EPP-6 8.5-10.5 ft	690	688.73	36.52	91	91.42	9.7	150 J	145.53	30.89	43 J	43.03	11.46	32 J	31.54	9.89	15 U	< LOD	10.02
EPP-6 11-13 ft	550	552.07	35.32	67	67.41	9.5	110 J	112.5	30.31	31 J	30.5	11.22	17 J	17.01	9.62	15 U	< LOD	9.84
EPP-7 2-4 ft	840	834.69	38.07	95	94.59	9.9	170	167.09	31.64	49 J	48.77	11.74	31 J	31.49	10.09	11 J	11.03	6.98
EPP-7 5-7 ft	800	796.01	37.38	78	77.52	9.69	150 J	150.34	31.09	41 J	40.64	11.5	31 J	31.31	9.95	15 U	< LOD	10.22
EPP-7 7.5-9.5 ft	810	809.99	37.11	100	103.61	9.71	180	182.51	31.09	41 J	40.89	11.4	46 J	46.45	10.04	10 J	10.28	6.83
EPP-7 10-12 ft	890	892.51	38.37	110	107.55	9.94	200	203.29	31.9	58 J	57.77	11.81	50 J	49.9	10.3	16 U	< LOD	10.38
EPP-8 1-3.5 ft	780	781.47	37.42	90	89.76	9.78	170	166.69	31.35	45 J	45.18	11.58	37 J	36.55	10.06	15 U	< LOD	10.14
EPP-8 3.5-6 ft	820	814.65	36.85	78	78.03	9.52	130 J	130.81	30.36	32 J	31.79	11.2	24 J	24.49	9.7	15 U	< LOD	10.01
EPP-8 6.5-8.5 ft	660	662.67	35.55	77	76.75	9.42	150	154.15	30.27	31 J	31.43	11.09	26 J	26.22	9.61	15 U	< LOD	9.88
EPP-8 9-11ft	680	684.38	35.85	81	80.54	9.48	170	165.51	30.52	45 J	44.97	11.28	36 J	36.26	9.77	15 U	< LOD	9.93

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Barium			Cesium			Tellurium			Antimony			Tin			Cadmium		
																Threshold = 140 mg/Kg		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
EPP-8 9-11ft R	650	645.27	35.24	87	87.31	9.42	150	153.47	30.11	43 J	43.32	11.15	36 J	35.87	9.67	15 U	< LOD	9.78
EPP-100 2-4 ft	880	876.67	38.78	100	102.46	10.05	160	163.74	31.98	52 J	51.67	11.92	44 J	44.09	10.36	17 J	17.22	7.19
EPP-100 4.5-6.5 ft	870	869.72	39.64	110	110.56	10.33	170	170.03	32.79	53 J	53.22	12.27	51 J	51.4	10.69	47	47.47	7.98
EPP-100 7-9 ft	660	662.06	39.22	80	79.59	10.44	99 J	98.69	32.92	42 J	42.04	12.36	32 J	32.08	10.68	16 U	< LOD	10.85
EPP-100 9.5-11.5 ft	670	667.92	36.11	94	93.81	9.64	160	156.79	30.77	48 J	47.5	11.44	33 J	32.83	9.85	15 U	< LOD	10.08
EPP-9 0-2 ft	710	704.96	38.86	82	82.41	10.27	160 J	159.72	32.92	33 J	33	12.05	32 J	32.2	10.52	16 U	< LOD	10.7
EPP-9 3-5 ft	570	570.54	35.57	67	66.64	9.54	150 J	145.15	30.72	33 J	32.77	11.29	34 J	34.01	9.86	15 U	< LOD	9.93
EPP-9 5.5-7.5 ft	560	556.69	35.56	64	63.53	9.55	120 J	114.61	30.51	41 J	40.54	11.39	29 J	28.54	9.81	15 U	< LOD	9.89
EPP-9 8-10 ft	540	537.28	35.12	63	63.01	9.46	150 J	149.29	30.55	34 J	33.74	11.23	34 J	33.81	9.79	15 U	< LOD	9.95
EPP-10 7-8 ft	600	603.58	35.28	75	75.48	9.44	130 J	127.34	30.12	31 J	31.33	11.16	30 J	30.28	9.68	26 J	25.89	7.03
EPP-10 9-11 ft	580	581.15	34.9	63	63.31	9.32	86 J	86.34	29.55	34 J	34.02	11.07	29 J	29.37	9.59	15 U	< LOD	9.77
EPP-10 12-14 ft	470	473.85	34.07	41 J	40.51	9.17	80 J	79.51	29.34	19 J	19.22	10.87	18 J	17.62	9.39	15 U	< LOD	9.88
EPP-10 15-17 ft	530	527.89	34.19	56	55.7	9.18	97 J	96.93	29.32	19 J	18.8	10.8	22 J	21.86	9.39	15 U	< LOD	9.86
EPP-11 2.5-4.5 ft	680	674.51	36.64	90	89.92	9.76	180	175.17	31.33	36 J	36.49	11.54	38 J	37.78	10.03	52	52.27	7.71
EPP-11 5-7 ft	690	686.59	37.79	86	86.01	10.04	170	173.36	32.21	48 J	48.29	11.99	37 J	37.45	10.31	50	49.99	7.88
EPP-11 7.5-9.5 ft	430	431.2	34.18	41 J	41.04	9.28	81 J	80.81	29.7	25 U	< LOD	16.41	18 J	17.69	9.49	15 U	< LOD	9.9
EPP-11 10-12 ft	490	492.44	34.49	54	53.81	9.32	95 J	94.73	29.75	28 J	28.39	11.05	18 J	18.06	9.49	15 U	< LOD	9.76
EPP-12 0-2 ft	560	563.71	35.54	73	72.79	9.57	150 J	151.91	30.79	37 J	36.58	11.35	31 J	31.47	9.83	14 J	14.02	6.89
EPP-12 2.5-4.5 ft	570	569.48	34.99	62	62.44	9.36	100 J	102.02	29.82	25 J	24.85	11.02	36 J	36.26	9.71	15 U	< LOD	9.9
EPP-12 5-7 ft	600	595	35.7	79	78.8	9.59	170	171.59	30.94	38 J	38.26	11.35	42 J	42.36	9.95	15 U	< LOD	10.2
EPP-12 7.5-9.5 ft	610	610.98	35.42	79	79.21	9.48	140 J	141.18	30.33	47 J	47.39	11.32	34 J	34.29	9.75	15 U	< LOD	9.92
EPP-13 2-3 ft	610	609.22	35.58	70	69.8	9.48	110 J	106.12	30.15	26 J	25.59	11.14	29 J	29.13	9.73	15 U	< LOD	10
EPP-13 2-3 ft R	630	632.65	36.03	64	64.05	9.54	120 J	121.46	30.55	35 J	35.42	11.35	23 J	22.86	9.74	15 U	< LOD	10.2
EPP-13 3.5-5.5 ft	570	565.69	35.5	58	57.55	9.48	100 J	103.14	30.29	26 J	25.74	11.19	29 J	28.63	9.77	15 U	< LOD	9.87
EPP-13 6-8 ft	600	603.49	36.13	75	74.86	9.67	140 J	138.52	30.96	40 J	40.34	11.48	33 J	32.9	9.94	15 U	< LOD	10.14
EPP-13 8.5-10.5 ft	650	647.31	35.44	67	67	9.37	130 J	127.4	30.01	31 J	31.35	11.08	31 J	31.15	9.65	15 U	< LOD	9.92
EPP-14 2-4 ft	650	650.34	35.88	85	84.59	9.57	130 J	134.15	30.45	39 J	39.33	11.3	38 J	37.58	9.86	15 U	< LOD	9.96
EPP-14 4.5-6.5 ft	660	659.19	37.05	80	79.98	9.84	130 J	127.87	31.34	35 J	35.22	11.61	37 J	37.43	10.15	16 U	< LOD	10.35
EPP-14 7-9 ft	680	675.59	36.68	61	61.33	9.62	120 J	117.99	30.82	19 J	19.12	11.27	23 J	22.67	9.84	15 U	< LOD	10.17
EPP-14 9.5-11.5 ft	590	586.59	36.48	63	62.72	9.73	110 J	114.12	31.11	20 J	20.23	11.41	19 J	19.22	9.89	16 U	< LOD	10.42
TBWRS-1 0-2 in	600	595.48	36.08	69	68.5	9.65	140 J	138.99	30.94	36 J	35.5	11.55	25 J	25.24	9.85	74	74.34	8.1
TBWRS-1 2-12 in	710	709.1	37.1	91	91.33	9.83	160 J	156.56	31.39	48 J	48.23	11.68	38 J	38.26	10.11	14 J	13.65	7.01
TBWRS-2 0-2 in	630	625.9	35.6	74	73.75	9.49	140 J	135.14	30.35	39 J	38.97	11.29	28 J	28.17	9.72	23 J	22.79	7
TBWRS-2 2-12 in	520	520.41	34.89	55	54.52	9.38	120 J	122	30.19	21 J	21.24	11.05	24 J	24.35	9.63	15 U	< LOD	9.82
TBWRS-3 0-2 in	590	590.53	35.45	67	67.19	9.48	120 J	121.48	30.28	31 J	31.12	11.25	26 J	25.92	9.7	38	37.77	7.3
TBWRS-3 2-12 in	560	558.15	34.92	65	65.32	9.38	110 J	111.58	29.93	32 J	31.68	11.1	27 J	26.62	9.61	15 U	< LOD	9.88
TBWRS-4 0-2 in	470	467.96	33.83	52	52.07	9.17	89 J	89.14	29.26	24 J	23.6	10.9	17 J	17.42	9.34	37	37.13	7.11
TBWRS-4 2-12 in	590	592.65	34.83	52	52.44	9.23	110 J	109.69	29.63	24 J	23.7	10.91	25 J	25.45	9.51	15 U	< LOD	9.8
TBWRS-5 0-2 in	540	542.02	34.06	63	63.09	9.16	120 J	123.9	29.37	24 J	24.41	10.83	24 J	24.47	9.37	31 J	31.05	6.96
TBWRS-5 2-12 in	600	599.84	35.28	69	68.92	9.42	150 J	146	30.31	34 J	34.46	11.18	29 J	28.95	9.68	17 J	17.05	6.86
TBWRS-6 0-2 in	400	403.71	33.24	54	54.4	9.13	72 J	72.09	28.95	26 J	26.08	10.86	28 J	27.85	9.41	35 J	34.69	7.04
TBWRS-6 2-12 in	420	415.31	33.38	51	50.62	9.13	95 J	95.13	29.23	19 J	18.65	10.76	17 J	16.85	9.31	15 U	< LOD	9.69
TBWRS-7 0-2 in	570	570.7	35.87	80	79.71	9.69	150 J	150.2	31.03	46 J	45.53	11.58	39 J	38.78	10.01	37 J	36.62	7.4
TBWRS-7 2-12 in	670	664.6	36.7	87	86.5	9.78	140 J	142.88	31.17	42 J	41.97	11.56	35 J	34.55	10.03	15 U	< LOD	10.13
TBWRS-8 0-2 in	600	596	34.41	54	53.8	9.12	120 J	117.94	29.33	32 J	31.5	10.87	21 J	20.97	9.34	15 U	< LOD	9.78
TBWRS-8 2-12 in	620	616.54	34.39	72	72.3	9.16	150	150.95	29.5	32 J	31.89	10.83	27 J	27.33	9.38	11 J	10.79	6.54
TBWRS-9 0-2 in	390	386.24	32.71	23 J	22.66	8.87	58 J	57.69	28.45	24 U	< LOD	15.85	20 U	< LOD	13.46	27 J	27.45	6.81
TBWRS-9 2-12 in	560	554.99	34.95	59	58.94	9.36	100 J	102.15	29.87	27 J	26.85	11.06	23 J	22.82	9.57	15 U	< LOD	9.97
TBWRS-10 0-2 in	740	736.19	38.62	100	103.06	10.26	180	176.33	32.73	51 J	51.29	12.15	45 J	44.51	10.56	18 J	17.99	7.35
TBWRS-10 0-2 in R	770	767.34	39.04	110	104.67	10.33	200	198.82	33.13	57 J	56.78	12.28	42 J	41.72	10.6	18 J	17.55	7.38
TBWRS-10 2-12 in	610	613.29	36.47	77	76.72	9.76	160	159.69	31.39	40 J	39.56	11.56	31 J	31.45	10	15 U	< LOD	10.19
TBWRS-11 0-2 in	580	581.9	35.17	55	55.4	9.36	110 J	105.49	29.94	24 J	23.53	11.05	26 J	26.41	9.63	12 J	12.37	6.76
TBWRS-11 2-12 in	520	518.07	34.84	46 J	46.06	9.33	99 J	98.78	29.94	19 J	19.14	11	17 J	17.16	9.53	15 U	< LOD	9.69
TBWRS-12 0-2 in	730	726	35.99	69	69.13	9.4	130 J	133.13	30.13	33 J	32.59	11.12	37 J	36.6	9.74	15 U	< LOD	9.93
TBWRS-12 2-12 in	650	651.68	35.94	78	78.13	9.55	140 J	135.34	30.52	37 J	37.12	11.31	34 J	33.75	9.83	15 U	< LOD	10.16

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Barium			Cesium			Tellurium			Antimony			Tin			Cadmium		
																Threshold = 140 mg/Kg		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
TBWRS-13 0-2 in	410	407.4	32.92	24 J	24.02	8.9	54 J	54.13	28.49	24 U	< LOD	15.82	24 J	24.05	9.25	11 J	10.93	6.51
TBWRS-13 2-12 in	640	634.63	34.95	53	52.88	9.19	92 J	92.33	29.35	23 J	23.47	10.86	18 J	18.28	9.38	15 U	< LOD	9.78
TBWRS-14 0-2 in	740	737.18	35.85	84	84.43	9.42	170	174.34	30.33	45 J	45.19	11.2	37 J	37.23	9.71	15 U	< LOD	9.97
TBWRS-14 2-12 in	720	722.7	36.81	89	88.75	9.72	180	182.54	31.3	43 J	42.83	11.5	32 J	32.4	9.95	15 U	< LOD	10.26
TBWRS-15 0-2 in	620	615.93	36.82	86	86.46	9.89	120 J	121.01	31.33	28 J	28.18	11.56	37 J	37.08	10.16	12 J	12.04	7.03
TBWRS-15 2-12 in	730	732.79	37.19	87	87.12	9.79	160	158.53	31.34	54 J	53.55	11.7	39 J	38.72	10.11	15 U	< LOD	10.25
TBWRS-16 0-2 in	570	567.6	34.57	66	66.06	9.27	110 J	111.21	29.56	29 J	28.61	10.94	29 J	29.29	9.52	15 U	< LOD	9.78
TBWRS-16 2-12 in	460	457.34	34.64	58	57.6	9.44	95 J	94.59	30.08	34 J	34.25	11.25	27 J	27.03	9.69	15 U	< LOD	10.01
TBWRS-17 0-2 in	520	517.81	35.47	48	48.05	9.52	110 J	105.68	30.55	30 J	29.67	11.33	17 J	16.66	9.7	15 U	< LOD	10.01
TBWRS-17 2-12 in	710	707.07	35.95	77	76.63	9.46	160	159.44	30.44	51 J	51.24	11.34	29 J	29.1	9.69	15 U	< LOD	9.92
TBWRS-18 0-2 in	710	710.04	36.21	61	61.16	9.46	120 J	119.71	30.28	42 J	42.05	11.32	35 J	35.09	9.81	15 U	< LOD	10.03
TBWRS-18 2-12 in	590	591.57	35.52	56	55.78	9.44	92 J	92.08	30.07	25 U	< LOD	16.57	20 J	20.25	9.63	15 U	< LOD	10.02
TBWRS-18 2-12 in R	610	610.24	35.96	70	69.66	9.58	93 J	93.06	30.35	20 J	19.64	11.18	18 J	17.95	9.7	15 U	< LOD	10.04
TBWRS-19 0-2 in	660	663.63	35.26	56	55.91	9.25	110 J	105.87	29.59	30 J	29.8	10.98	29 J	28.7	9.55	15 U	< LOD	9.8
TBWRS-19 2-12 in	660	655.46	36.07	68	67.77	9.53	140 J	138.12	30.62	34 J	33.87	11.29	27 J	27.13	9.77	15 U	< LOD	10.02
TBWRS-20 0-2 in	610	614.04	34.64	67	67.05	9.21	140 J	143.09	29.66	32 J	31.97	10.91	30 J	29.88	9.48	15 U	< LOD	9.76
TBWRS-20 2-12 in	620	620.85	35.81	74	73.75	9.55	150 J	152.43	30.72	39 J	39.06	11.34	38 J	37.9	9.89	15 U	< LOD	10.11
TBWRS-21 0-2 in	850	844.96	37.17	93	92.74	9.63	190	189.62	31.03	51 J	51.08	11.46	41 J	40.9	9.94	15 U	< LOD	10.03
TBWRS-21 2-12 in	650	645.72	36.92	69	68.75	9.79	140 J	139.02	31.41	41 J	41.14	11.65	34 J	33.9	10.1	15 U	< LOD	10.09
TBWRS-22 0-2 in	700	702.57	36.65	75	74.75	9.65	160	157.49	31.04	47 J	46.69	11.53	38 J	37.62	9.98	15 U	< LOD	10.28
TBWRS-22 2-12 in	770	771.2	37.63	75	74.7	9.79	130 J	127.8	31.22	35 J	34.75	11.55	36 J	36.21	10.09	15 U	< LOD	10.17
TBWRS-23 0-2 in	410	407.45	33.8	36 J	36.15	9.2	80 J	79.93	29.49	21 J	21.42	10.95	18 J	17.82	9.43	15 U	< LOD	9.94
TBWRS-23 2-12 in	670	673.31	35.85	84	83.9	9.52	160	156.15	30.49	35 J	35.08	11.21	34 J	34.17	9.77	11 J	11.37	6.76
TBWRS-24 0-2 in	490	488.39	34.25	35 J	34.57	9.17	66 J	66.17	29.3	23 J	23.15	10.93	24 J	24.26	9.48	15 U	< LOD	9.83
TBWRS-24 2-12 in	580	578.7	35.12	56	56.39	9.35	100 J	103.55	29.89	28 J	28.01	11.07	23 J	22.59	9.58	15 U	< LOD	9.79
TBWRS-25 0-2 in	860	863.13	38.52	77	77.27	9.88	130 J	129.82	31.5	37 J	36.91	11.68	32 J	32.43	10.17	16 U	< LOD	10.47
TBWRS-25 2-12 in	500	495.08	34.92	52	52.32	9.43	89 J	89.37	30.06	25 J	25.25	11.16	19 J	18.5	9.61	15 U	< LOD	10.09
RM-1-2 2-3 ft	790	790.44	36.74	88	88.05	9.58	160	161.55	30.69	41 J	41.38	11.33	37 J	37.16	9.86	15 U	< LOD	10.11
RM-1-2 4-5 ft	740	738.19	37.09	93	92.93	9.79	160	162.3	31.27	55 J	55.19	11.68	35 J	34.93	10.02	15 U	< LOD	10.14
RM-2-7 2-3 ft	710	710.34	36.33	98	98.45	9.65	180	176.6	30.9	40 J	40.37	11.34	28 J	28.08	9.78	15 U	< LOD	10.12
RM-2-7 4-5 ft	640	642.39	35.56	68	67.52	9.41	130 J	127.27	30.14	31 J	31.45	11.13	27 J	27.21	9.65	15 U	< LOD	9.95
RM-3-3 3-4 ft	770	766.1	37.51	86	85.67	9.82	150 J	149.14	31.34	45 J	45.33	11.65	49 J	49.01	10.23	15 U	< LOD	10.32
RM-3-3 5-6 ft	570	572.81	34.95	57	57.06	9.31	71 J	71.3	29.49	31 J	30.97	11.06	23 J	22.73	9.54	15 U	< LOD	9.75
RM-4-1 3-4 ft	1,400	1412.79	42.8	130	128.95	10.37	240	235.87	33.24	62	62.18	12.26	53 J	52.92	10.72	20 J	20.25	7.4
RM-4-1 5-6 ft	760	754.53	37.08	65	64.98	9.62	130 J	128.35	30.84	25 J	24.57	11.31	28 J	28.22	9.89	12 J	11.65	6.9
RM-5-2 2-3 ft	670	672.11	36.17	75	75.48	9.56	110 J	112.69	30.37	35 J	35.24	11.31	38 J	38.14	9.89	14 J	14.29	6.88
RM-5-2 4-5 ft	870	867.87	37.8	96	96.42	9.78	200	200.72	31.53	55 J	55.14	11.64	39 J	38.7	10.05	15 U	< LOD	10.02
RM-6-1 6.5-7.5 ft	750	744.99	36.51	92	92.47	9.62	160	155.45	30.67	44 J	43.75	11.37	44 J	44.38	9.95	12 J	11.76	6.81
RM-6-1 8.5-9.5 ft	810	804.53	37.12	110	111.57	9.77	190	189.21	31.2	48 J	48.12	11.5	46 J	45.97	10.05	15 J	14.57	6.92
RM-7-2 6-7 ft	750	752.15	36.36	83	82.9	9.52	140 J	142.12	30.39	46 J	46.13	11.33	32 J	32.29	9.77	15 U	< LOD	10.07
RM-7-2 8-9 ft	880	879.12	37.44	95	94.89	9.66	190	193.21	31.1	49 J	49.26	11.46	49 J	48.74	10.05	15 U	< LOD	10.1
RM-8-7 5-6 ft	690	685.67	38.09	87	87.31	10.12	160 J	155.21	32.35	50 J	49.99	12.05	42 J	42.08	10.46	16 U	< LOD	10.63
RM-8-7 7-8 ft	740	737.02	37.09	81	81.22	9.73	140 J	143.78	31.11	45 J	44.6	11.58	38 J	38.34	10.05	13 J	12.77	6.95
RM-8-7 7-8 ft R	700	700.72	36.38	77	77.21	9.58	140 J	135.51	30.61	31 J	30.66	11.27	35 J	34.9	9.87	15 U	< LOD	10.13
RM-9-1 0-2 in	500	495.74	39.79	110	105.85	11.07	190	187.12	35.21	61 J	60.73	13.37	46 J	45.8	11.32	150	148.5	10.43
RM-9-1 2-12 in	900	894.64	44.35	150	145.87	11.76	240	240.76	37.1	110	106.56	14.18	74	73.95	12.12	34 J	34.06	8.48
RM-100 0-2 in	490	494.02	39.73	110	112.58	11.09	180	182.39	35.12	56 J	56.28	13.29	48 J	47.89	11.34	140	142.54	10.31
RM-9-2 0-2 in	690	691	38.28	140	134.73	10.4	260	256.65	33.4	78	77.57	12.45	65	65.17	10.8	42	42.4	7.83
RM-9-2 2-12 in	430	427.42	34.89	63	62.65	9.59	89 J	88.74	30.38	27 J	27.38	11.33	24 J	24.06	9.78	24 J	24.23	7.12
RM-9-3 0-2 in	540	539.54	39.01	95	94.85	10.69	150 J	150.88	33.89	48 J	48.11	12.68	42 J	41.96	11.05	45	45.03	8.24
RM-9-3 2-12 in	350	346.9	33.82	41 J	41.19	9.34	83 J	82.63	29.88	24 J	23.93	11.14	22 J	22.46	9.7	29 J	29.21	7.14
RM-9-4 0-2 in	640	639.97	40.81	140	142.93	11.25	230	229.17	35.63	67	67.13	13.31	63	62.81	11.56	79	78.6	9.13
RM-9-4 2-12 in	510	507.68	39.36	95	94.53	10.86	130 J	132.72	34.18	41 J	40.52	12.78	39 J	38.73	11.07	59	59.26	8.62
RM-9-5 0-2 in	560	558.92	36.32	110	105	9.95	200	196.59	31.89	46 J	46.18	11.75	52	51.75	10.3	38	37.98	7.52
RM-9-5 2-12 in	570	566.25	41.43	130	125.18	11.49	240	242.26	36.77	82	82.16	13.75	61	61.3	11.86	18 J	17.97	8.06

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Barium			Cesium			Tellurium			Antimony			Tin			Cadmium		
																Threshold = 140 mg/Kg		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
RM-9-5 2-12 in R	560	564.02	41	130	124.87	11.35	170 J	172.02	35.7	49 J	48.79	13.21	51 J	50.78	11.6	19 J	18.55	8
RM-9-6 0-2 in	580	578.75	39.23	110	112.9	10.76	170 J	169.61	34.03	40 J	39.76	12.62	49 J	48.91	11.05	79	78.58	8.88
RM-9-6 2-12 in	450	454.21	38.56	75	75.16	10.64	110 J	110.25	33.59	32 J	32.14	12.61	28 J	27.54	10.79	92	91.89	9.17
RM-10-1 0-2 in	570	564.52	37.44	98	97.85	10.22	150 J	151.05	32.38	37 J	37.26	11.96	45 J	44.92	10.49	29 J	29.21	7.54
RM-10-1 2-12 in	650	652.39	40.54	110	111.07	10.99	180	179.83	34.74	55 J	55.47	12.89	51 J	51.16	11.24	15 J	14.57	7.65
RM-10-2 0-2 in	420	417.06	35.64	84	84.41	9.94	140 J	141.33	31.61	41 J	40.65	11.85	35 J	35.04	10.16	81	81.48	8.39
RM-10-2 2-12 in	450	447.46	36.71	90	89.51	10.2	150 J	147.45	32.41	35 J	35.14	11.99	37 J	36.62	10.41	46	45.91	7.89
RM-10-3 0-2 in	240	241.62	32.75	39 J	39.23	9.23	58 J	57.65	29.3	25 U	< LOD	16.43	21 U	< LOD	14	69	69.45	7.78
RM-10-3 2-12 in	520	520.37	40.24	120	116.34	11.2	200	195.94	35.54	67 J	66.67	13.57	59	59.12	11.59	170	166.58	10.81
RM-10-4 0-2 in	550	546.85	39.42	110	111.28	10.88	170 J	164.81	34.35	62 J	61.8	13.13	56 J	56	11.25	140	140.88	10.11
RM-10-4 2-12 in	620	616.82	40.97	120	119.08	11.23	230	233.38	35.88	58 J	57.82	13.33	60	59.66	11.56	110	108.78	9.76
RM-10-5 0-2 in	470	467.28	37.72	82	81.61	10.42	150 J	146.61	33.12	34 J	34.43	12.27	38 J	38.31	10.66	66	65.82	8.46
RM-10-5 2-12 in	530	528.56	37.81	97	97.19	10.4	200	198.92	33.36	47 J	46.66	12.28	50 J	50.4	10.75	42	41.53	7.91
RM-10-6 0-2 in	720	716.04	41.68	92	91.91	11.08	160 J	163.5	35.16	52 J	52.48	13.18	38 J	38.4	11.27	68	67.61	8.95
RM-10-6 2-12 in	1,100	1086.77	44.43	130	130	11.32	230	229.8	35.97	76	75.77	13.41	51 J	51.01	11.52	21 J	20.61	7.95
RM-10-6 2-12 in R	1,100	1091.37	44.75	140	142.39	11.46	230	227.01	36.19	92	91.51	13.69	61	61.46	11.75	19 J	19.23	7.98
CF-14 16-22 in	870	872.05	38.31	86	85.99	9.85	170	169.05	31.64	48 J	47.96	11.72	46 J	46.39	10.25	15 U	< LOD	10.29
CF-16 4-12 in	890	892.62	37.71	90	90.04	9.68	160	163.07	30.99	43 J	43.06	11.44	45 J	44.8	10.04	15 U	< LOD	10.09
CF-20 6-12 in	920	919.51	38.42	83	83.29	9.79	140 J	144.49	31.27	32 J	32.1	11.49	41 J	40.53	10.14	15 U	< LOD	10.29
CF-30 0-2 in	720	717.35	36.12	92	92.4	9.56	170	164.96	30.59	51 J	50.8	11.39	42 J	41.97	9.87	14 J	13.97	6.82
CF-31 0-2 in	810	811.54	37.96	89	88.85	9.88	170	167.59	31.66	51 J	51.37	11.76	45 J	44.75	10.24	15 U	< LOD	10.24
CF-32 0-2 in	700	704.16	36.08	85	84.76	9.53	160	158.6	30.56	37 J	36.95	11.24	43 J	42.91	9.88	15 U	< LOD	10
CF-32 0-2 in R	710	706.08	35.74	82	82.48	9.43	150 J	149.35	30.18	38 J	37.73	11.13	30 J	30.16	9.64	15 U	< LOD	9.87
CF-33 0-2 in	630	632.92	35.04	69	68.5	9.3	170	167.12	30.11	32 J	32.22	11	33 J	33.35	9.59	15 U	< LOD	9.84
CF-34 0-2 in	480	482.98	37.54	91	91.44	10.38	150 J	151.49	32.96	43 J	43.14	12.23	50 J	49.79	10.76	24 J	23.9	7.56
FTS-1 0-2 in	580	580.73	39.55	100	99.85	10.81	180	183.94	34.34	62 J	61.94	12.85	50 J	50.4	11.09	40 J	40.11	8.12
FTS-2 0-2 in	630	628.92	39.8	120	115.36	10.86	200	201.99	34.38	53 J	52.8	12.62	56	55.78	11.09	17 U	< LOD	11.06
FTS-3 0-2 in	660	661.69	40.5	120	121.19	11.03	180	180.94	34.56	63 J	62.81	12.9	65	64.84	11.34	22 J	22.16	7.75
FTS-4 0-2 in	570	573.32	39.45	100	103.62	10.81	160 J	155.02	33.98	56 J	56.37	12.72	51 J	51.2	11.07	23 J	22.95	7.71
FTS-5 0-2 in	720	715	41.54	130	127.55	11.25	260	256.01	35.91	71	70.64	13.23	62	62.45	11.52	30 J	30.34	8.07
FTS-6 0-2 in	610	611.64	39.63	110	114.07	10.85	200	199.09	34.31	52 J	51.99	12.62	54 J	53.81	11.05	24 J	23.9	7.69
FTS-7 0-2 in	660	657.15	41.27	120	116.52	11.23	200	199.22	35.4	49 J	48.73	12.96	62	61.97	11.49	21 J	20.71	7.84
FTS-8 0-2 in	600	599.21	39.71	120	115.71	10.89	180	176.17	34.26	49 J	49.11	12.68	54 J	53.82	11.13	38 J	37.98	8.06
FTS-9 0-2 in	630	630.2	40.59	120	118.4	11.1	190	185.81	34.91	57 J	57.02	12.94	50 J	50.26	11.25	22 J	21.83	7.81
FTS-10 0-2 in	670	665.03	41.26	120	118.84	11.23	220	222.38	35.59	57 J	56.53	13.06	66	65.84	11.54	29 J	29.29	8.03
FTS-11 0-2 in	560	558.17	40.09	100	100.15	11.02	170 J	166.99	34.67	55 J	54.76	12.89	57	57.28	11.31	22 J	22.31	7.79
FTS-12 0-2 in	690	687.48	42.19	140	135.11	11.52	250	246.31	36.51	58 J	57.57	13.3	65	64.76	11.75	22 J	21.92	8.01
FTS-13 0-2 in	590	594.37	40.27	120	122.26	11.1	210	209.19	35.09	58 J	57.57	12.95	58	58.35	11.33	31 J	30.92	8
FTS-14 0-2 in	650	647.29	37.46	78	78.42	9.98	120 J	123.88	31.63	30 J	30	11.68	37 J	36.55	10.23	22 J	21.5	7.26
FTS-15 0-2 in	540	543.69	35.81	66	65.51	9.65	110 J	113.39	30.72	29 J	29.23	11.37	25 J	25.13	9.83	14 J	13.78	6.92
FTS-16 0-2 in	600	597.01	40.21	110	110.86	11.03	180	184.29	34.75	62 J	61.52	12.95	52 J	51.99	11.22	24 J	23.52	7.81
FTS-17 0-2 in	680	682.22	41.97	130	132.2	11.46	250	253.97	36.44	60 J	59.83	13.28	61	60.52	11.65	25 J	25.35	8.06
FTS-18 0-2 in	660	660.25	41.32	120	121.99	11.26	220	224.08	35.71	57 J	56.87	13.1	57 J	56.8	11.48	31 J	30.62	8.09
FTS-100 0-2 in	590	588.25	40.23	110	106.18	11.02	190	193.57	34.9	51 J	51.27	12.85	45 J	44.64	11.15	26 J	26.2	7.88
FTS-19 0-2 in	610	608.38	37.49	79	79.36	10.06	130 J	132.1	31.95	28 J	27.63	11.74	35 J	35.39	10.29	19 J	19.32	7.27
FTS-19 0-2 in R	630	624.83	37.69	87	86.62	10.12	140 J	142.31	32.14	36 J	36.32	11.87	36 J	35.74	10.33	22 J	22.43	7.35
FTS-20 0-2 in	450	447.45	37.81	76	75.91	10.45	140 J	144.02	33.32	39 J	38.63	12.42	34 J	34.17	10.69	71	70.85	8.61
FTS-21 0-2 in	360	358.1	36.42	46 J	46.33	10.08	66 J	66.09	31.87	27 U	< LOD	17.81	21 J	21.37	10.29	58	57.95	8.19
SGW-1 0-2 in	300	299.39	36.99	36 J	35.51	10.31	65 J	65.48	32.78	33 J	33.33	13.32	24 U	< LOD	15.86	530	532.2	15.25
SGW-1 2-12 in	420	419.1	37.75	64	63.8	10.43	160 J	156.12	33.61	51 J	50.8	13.14	34 J	33.54	10.79	340	343.79	12.93
SGW-2 0-2 in	300	299.4	36.95	54	54.2	10.4	75 J	74.93	32.84	41 J	40.56	13.11	22 J	21.67	10.62	380	377.26	13.4
SGW-2 2-12 in	400	399.16	37.29	56	56.34	10.3	88 J	87.75	32.63	49 J	48.88	13.34	17 J	16.89	10.48	540	535.64	15.11
SGW-100 2-12 in	370	374.33	36.92	44 J	43.7	10.19	92 J	91.81	32.5	43 J	43.35	13.25	25 J	25.37	10.52	560	555.15	15.25
SGW-3 0-2 in	370	368.21	37.43	51 J	51.08	10.38	100 J	101.03	33.08	44 J	43.91	13.43	24 J	24.34	10.68	540	542.27	15.34
SGW-3 2-12 in	330	329.04	35.97	44 J	44.22	10.01	71 U	< LOD	47.25	37 J	36.9	13.03	21 J	21.2	10.28	590	592.88	15.42

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.

Limit of Detection = 3 Sigma standard deviation

U - Concentration < LOD

J - Concentration >LOD and < PQL

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Table 1 - Soil Quality Data - XRF

Sample ID	Barium			Cesium			Tellurium			Antimony			Tin			Cadmium		
																Threshold = 140 mg/Kg		
	Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ		Reading	2σ
SGW-4 0-2 in	420	414.66	36.83	59	59.1	10.15	110 J	111.55	32.38	41 J	40.73	12.63	18 J	17.93	10.32	290	290.63	11.94
SGW-4 2-12 in	430	431.38	38.02	35 J	35.48	10.33	87 J	86.62	33.04	40 J	40.47	13.25	18 J	17.99	10.64	440	437.82	14.17
SGW-4 2-12 in R	460	458.11	38.02	41 J	41.07	10.31	120 J	117.89	33.19	44 J	44.14	13.22	24 U	< LOD	15.8	430	432	14.02
SGW-5 0-2 in	550	547.1	38.42	92	91.74	10.5	180	174.85	33.59	41 J	40.61	12.81	35 J	35.49	10.73	270	269.11	11.83
SGW-5 2-12 in	430	432.77	36.38	54	54.37	9.96	95 J	94.95	31.71	39 J	39.36	12.61	25 J	24.78	10.25	400	396.8	13.09
< DL	0			0			1			9			9			105		
J-Qualified	0			22			147			206			199			65		
Detected	225			203			77			10			17			55		

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation
U - Concentration < LOD
J - Concentration >LOD and < PQL
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Table 1 - Soil Quality Data - XRF

Sample ID	Silver			Palladium		
	Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ
SGW-1 0-2 in	49	49.06	6.85	15 J	14.74	8.08
SGW-1 0-2 in	49	49.01	6.72	17 U	< LOD	11.64
SGW-1 0-2 in R	49	48.53	6.85	16 J	15.55	8.13
SGW-1 2-12 in	31	30.59	6.06	13 J	12.5	7.51
SGW-1 1-2 ft	11 U	< LOD	7.41	15 U	< LOD	9.93
SGW-1 4-5 ft	11 J	10.62	5.42	16 U	< LOD	10.73
SGW-2 0-2 in	37	37.19	6.4	18 J	17.8	7.94
SGW-2 0-2 in R	32	31.58	6.31	17 J	17.02	7.98
SGW-2 2-12 in	44	44.01	6.87	13 J	13.41	8.2
SGW-3 0-2 in	43	42.76	6.68	13 J	13.04	7.99
SGW-3 2-12 in	32	31.96	6.24	20 J	20.15	8.03
SGW-3 1-2 ft	40	39.51	6.3	17 U	< LOD	11.1
SGW-3 4-5 ft	12 U	< LOD	8.15	16 U	< LOD	10.87
SGW-4 0-2 in	19 J	19.27	5.65	16 U	< LOD	10.66
SGW-4 2-12 in	34	34.28	6.32	16 J	15.98	7.89
SGW-5 0-2 in	21 J	20.91	5.97	12 J	11.97	7.69
SGW-5 2-12 in	35	34.74	6.14	13 J	13.32	7.54
SGW-5 1-2 ft	11 U	< LOD	7.5	15 U	< LOD	9.89
SGW-5 4-5 ft	12 U	< LOD	7.96	16 U	< LOD	10.75
SGW-6 0-2 in	12 U	< LOD	7.94	16 U	< LOD	10.74
SGW-6 2-12 in	11 U	< LOD	7.5	11 J	10.94	6.96
SGW-6 2-12 in R	8 J	8.32	5.21	11 J	11.17	7.07
EPP-1 2-4 ft	11 U	< LOD	7.43	15 U	< LOD	10.23
EPP-1 4.5-6.5ft	10 J	10.09	5.41	16 U	< LOD	10.87
EPP-1 7-9 ft	12 U	< LOD	7.93	16 U	< LOD	10.85
EPP-1 9.5-11.5f	11 U	< LOD	7.51	15 U	< LOD	10.22
EPP-2 2-4 ft	11 J	11.11	5.19	15 U	< LOD	10.33
EPP-2 4.5-6.5 ft	12 U	< LOD	7.7	16 U	< LOD	10.58
EPP-2 7-9 ft	11 U	< LOD	7.55	15 U	< LOD	10.29
EPP-2 9.5-11.5 ft	11 U	< LOD	7.5	15 U	< LOD	9.95
EPP-3 3-4 ft	11 U	< LOD	7.34	11 J	11.31	6.88
EPP-3 5-7 ft	11 U	< LOD	7.38	15 U	< LOD	9.87
EPP-3 5-7 ft R	11 U	< LOD	7.17	15 U	< LOD	9.87
EPP-3 8-10 ft	11 U	< LOD	7.21	15 U	< LOD	9.82
EPP-3 10.5-12.5 ft	11 U	< LOD	7.34	15 U	< LOD	9.67
EPP-4 13-15 ft	11 U	< LOD	7.51	16 U	< LOD	10.38
EPP-4 15.5-17.5 ft	11 U	< LOD	7.46	15 U	< LOD	9.95
EPP-4 18-20 ft	11 U	< LOD	7.4	12 J	12.11	6.95
EPP-4 20.5-22.5 ft	11 U	< LOD	7.4	15 U	< LOD	9.92
EPP-5 5-6 ft	11 U	< LOD	7.62	13 J	12.98	7.06
EPP-5 7-9 ft	11 U	< LOD	7.37	15 U	< LOD	9.78
EPP-5 10-11 ft	11 U	< LOD	7.42	15 U	< LOD	9.83
EPP-5 12-14 ft	11 U	< LOD	7.38	15 U	< LOD	10
EPP-6 3-5.5 ft	11 U	< LOD	7.59	15 U	< LOD	10.05
EPP-6 5.5-8 ft	11 U	< LOD	7.33	15 U	< LOD	10.26
EPP-6 8.5-10.5 ft	11 U	< LOD	7.42	15 U	< LOD	10.09
EPP-6 11-13 ft	11 U	< LOD	7.42	15 U	< LOD	9.8
EPP-7 2-4 ft	11 U	< LOD	7.62	13 J	12.77	7.08
EPP-7 5-7 ft	11 U	< LOD	7.57	15 U	< LOD	10.25
EPP-7 7.5-9.5 ft	11 U	< LOD	7.46	12 J	11.62	6.89
EPP-7 10-12 ft	12 U	< LOD	7.69	12 J	11.54	7.02
EPP-8 1-3.5 ft	12 J	12.12	5.23	15 U	< LOD	10.14
EPP-8 3.5-6 ft	11 U	< LOD	7.44	15 U	< LOD	9.92
EPP-8 6.5-8.5 ft	11 U	< LOD	7.29	15 U	< LOD	10.01
EPP-8 9-11ft	11 U	< LOD	7.36	15 U	< LOD	10.07

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation
U - Concentration < LOD
J - Concentration >LOD and < PQL
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Table 1 - Soil Quality Data - XRF

Sample ID	Silver			Palladium		
	Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ
EPP-8 9-11ft R	8 J	7.61	4.92	15 U	< LOD	9.96
EPP-100 2-4 ft	12 U	< LOD	7.8	12 J	12.39	7.15
EPP-100 4.5-6.5 ft	12 U	< LOD	7.97	12 J	12.44	7.34
EPP-100 7-9 ft	12 U	< LOD	8.02	16 U	< LOD	10.7
EPP-100 9.5-11.5 ft	11 U	< LOD	7.52	15 U	< LOD	10.09
EPP-9 0-2 ft	13 J	12.86	5.52	16 U	< LOD	10.76
EPP-9 3-5 ft	11 U	< LOD	7.53	15 U	< LOD	9.92
EPP-9 5.5-7.5 ft	11 U	< LOD	7.46	11 J	10.52	6.84
EPP-9 8-10 ft	8 J	8.35	5.02	15 U	< LOD	10.02
EPP-10 7-8 ft	11 U	< LOD	7.34	15 U	< LOD	9.74
EPP-10 9-11 ft	11 U	< LOD	7.26	15 U	< LOD	9.68
EPP-10 12-14 ft	11 U	< LOD	7.05	15 U	< LOD	9.9
EPP-10 15-17 ft	11 U	< LOD	7.17	14 U	< LOD	9.54
EPP-11 2.5-4.5 ft	11 U	< LOD	7.65	11 J	11.2	6.96
EPP-11 5-7 ft	8 J	8.01	5.25	16 U	< LOD	10.64
EPP-11 7.5-9.5 ft	11 U	< LOD	7.03	15 U	< LOD	9.97
EPP-11 10-12 ft	11 U	< LOD	7.26	15 U	< LOD	9.85
EPP-12 0-2 ft	11 U	< LOD	7.34	15 U	< LOD	10.03
EPP-12 2.5-4.5 ft	11 U	< LOD	7.27	15 U	< LOD	9.99
EPP-12 5-7 ft	11 U	< LOD	7.42	15 U	< LOD	10.07
EPP-12 7.5-9.5 ft	11 U	< LOD	7.35	15 U	< LOD	10.09
EPP-13 2-3 ft	11 U	< LOD	7.42	15 U	< LOD	9.96
EPP-13 2-3 ft R	11 U	< LOD	7.45	15 U	< LOD	9.96
EPP-13 3.5-5.5 ft	11 U	< LOD	7.39	15 U	< LOD	10.15
EPP-13 6-8 ft	11 U	< LOD	7.45	15 U	< LOD	10.18
EPP-13 8.5-10.5 ft	11 U	< LOD	7.17	14 U	< LOD	9.51
EPP-14 2-4 ft	11 U	< LOD	7.45	15 U	< LOD	9.92
EPP-14 4.5-6.5 ft	11 U	< LOD	7.46	15 U	< LOD	10.26
EPP-14 7-9 ft	11 U	< LOD	7.45	15 U	< LOD	10.32
EPP-14 9.5-11.5 ft	11 U	< LOD	7.46	15 U	< LOD	10.13
TBWRS-1 0-2 in	10 J	10.16	5.17	13 J	12.84	7.01
TBWRS-1 2-12 in	9 J	9.49	5.18	16 U	< LOD	10.41
TBWRS-2 0-2 in	10 J	9.72	5.05	15 U	< LOD	9.85
TBWRS-2 2-12 in	11 U	< LOD	7.26	15 U	< LOD	9.83
TBWRS-3 0-2 in	10 J	10.38	5.08	15 U	< LOD	10.1
TBWRS-3 2-12 in	11 U	< LOD	7.31	15 U	< LOD	9.89
TBWRS-4 0-2 in	11 U	< LOD	7.09	13 J	12.59	6.69
TBWRS-4 2-12 in	11 U	< LOD	7.23	15 U	< LOD	9.68
TBWRS-5 0-2 in	11 U	< LOD	7.13	10 J	10.23	6.57
TBWRS-5 2-12 in	9 J	9.05	5.01	15 U	< LOD	9.95
TBWRS-6 0-2 in	11 U	< LOD	7.24	15 U	< LOD	9.84
TBWRS-6 2-12 in	11 U	< LOD	7.26	14 U	< LOD	9.61
TBWRS-7 0-2 in	9 J	9.27	5.13	14 J	13.93	7.03
TBWRS-7 2-12 in	11 U	< LOD	7.55	16 U	< LOD	10.34
TBWRS-8 0-2 in	11 U	< LOD	7.22	12 J	12.29	6.64
TBWRS-8 2-12 in	11 U	< LOD	7.08	15 U	< LOD	9.73
TBWRS-9 0-2 in	10 U	< LOD	6.89	14 U	< LOD	9.34
TBWRS-9 2-12 in	11 U	< LOD	7.23	15 U	< LOD	9.94
TBWRS-10 0-2 in	8 J	8.19	5.33	16 U	< LOD	10.7
TBWRS-10 0-2 in R	9 J	9.28	5.39	16 U	< LOD	10.67
TBWRS-10 2-12 in	11 U	< LOD	7.54	15 U	< LOD	10.3
TBWRS-11 0-2 in	11 U	< LOD	7.3	15 U	< LOD	10.03
TBWRS-11 2-12 in	11 U	< LOD	7.36	15 U	< LOD	9.9
TBWRS-12 0-2 in	11 U	< LOD	7.25	15 U	< LOD	9.83
TBWRS-12 2-12 in	11 U	< LOD	7.46	11 J	10.65	6.81

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation
U - Concentration < LOD
J - Concentration >LOD and < PQL
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Table 1 - Soil Quality Data - XRF

Sample ID	Silver			Palladium		
	Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ
TBWRS-13 0-2 in	11 U	< LOD	7	14 U	< LOD	9.29
TBWRS-13 2-12 in	11 U	< LOD	7.07	14 U	< LOD	9.47
TBWRS-14 0-2 in	11 U	< LOD	7.27	15 U	< LOD	9.96
TBWRS-14 2-12 in	9 J	8.59	5.11	12 J	12.22	6.95
TBWRS-15 0-2 in	11 U	< LOD	7.63	16 U	< LOD	10.41
TBWRS-15 2-12 in	11 J	11.28	5.22	14 J	13.9	7.08
TBWRS-16 0-2 in	11 U	< LOD	7.19	15 U	< LOD	9.8
TBWRS-16 2-12 in	11 U	< LOD	7.2	15 U	< LOD	9.68
TBWRS-17 0-2 in	11 U	< LOD	7.36	15 U	< LOD	10.01
TBWRS-17 2-12 in	11 U	< LOD	7.41	10 J	10.34	6.73
TBWRS-18 0-2 in	11 U	< LOD	7.47	15 U	< LOD	9.85
TBWRS-18 2-12 in	11 U	< LOD	7.28	14 U	< LOD	9.47
TBWRS-18 2-12 in R	11 U	< LOD	7.56	15 U	< LOD	10.23
TBWRS-19 0-2 in	11 U	< LOD	7.21	14 J	13.91	6.77
TBWRS-19 2-12 in	11 U	< LOD	7.5	15 U	< LOD	9.88
TBWRS-20 0-2 in	11 U	< LOD	7.21	15 U	< LOD	9.71
TBWRS-20 2-12 in	11 U	< LOD	7.5	15 U	< LOD	10.14
TBWRS-21 0-2 in	11 U	< LOD	7.52	15 U	< LOD	10.18
TBWRS-21 2-12 in	11 U	< LOD	7.56	15 U	< LOD	10.25
TBWRS-22 0-2 in	11 U	< LOD	7.55	15 U	< LOD	9.79
TBWRS-22 2-12 in	11 U	< LOD	7.22	15 U	< LOD	10.08
TBWRS-23 0-2 in	11 U	< LOD	7.13	15 U	< LOD	9.88
TBWRS-23 2-12 in	11 U	< LOD	7.41	15 U	< LOD	9.83
TBWRS-24 0-2 in	10 U	< LOD	6.96	14 U	< LOD	9.56
TBWRS-24 2-12 in	11 U	< LOD	7.4	15 U	< LOD	9.84
TBWRS-25 0-2 in	8 J	8.33	5.21	16 U	< LOD	10.38
TBWRS-25 2-12 in	11 U	< LOD	7.4	11 J	11.14	6.81
RM-1-2 2-3 ft	11 U	< LOD	7.46	15 U	< LOD	10
RM-1-2 4-5 ft	11 U	< LOD	7.59	15 U	< LOD	9.76
RM-2-7 2-3 ft	11 U	< LOD	7.48	12 J	12.27	6.88
RM-2-7 4-5 ft	11 U	< LOD	7.38	15 U	< LOD	9.98
RM-3-3 3-4 ft	11 U	< LOD	7.48	11 J	10.64	6.96
RM-3-3 5-6 ft	11 U	< LOD	7.18	15 U	< LOD	9.89
RM-4-1 3-4 ft	9 J	9.15	5.37	16 U	< LOD	10.76
RM-4-1 5-6 ft	11 U	< LOD	7.51	15 U	< LOD	10.14
RM-5-2 2-3 ft	11 U	< LOD	7.46	15 U	< LOD	10.17
RM-5-2 4-5 ft	11 U	< LOD	7.57	15 U	< LOD	10.31
RM-6-1 6.5-7.5 ft	11 U	< LOD	7.47	15 J	14.5	6.95
RM-6-1 8.5-9.5 ft	11 U	< LOD	7.47	15 U	< LOD	10.24
RM-7-2 6-7 ft	9 J	8.63	5.02	12 J	11.71	6.81
RM-7-2 8-9 ft	11 U	< LOD	7.47	15 U	< LOD	10.12
RM-8-7 5-6 ft	12 U	< LOD	7.89	14 J	13.64	7.29
RM-8-7 7-8 ft	11 U	< LOD	7.6	15 U	< LOD	10.15
RM-8-7 7-8 ft R	11 U	< LOD	7.42	15 U	< LOD	10.12
RM-9-1 0-2 in	19 J	18.81	6.05	15 J	15.3	7.99
RM-9-1 2-12 in	13 U	< LOD	8.67	19 J	18.65	8.3
RM-100 0-2 in	19 J	19.33	6.06	17 J	16.87	8.04
RM-9-2 0-2 in	18 J	17.92	5.59	16 J	16.03	7.43
RM-9-2 2-12 in	8 J	7.64	5.06	15 U	< LOD	9.85
RM-9-3 0-2 in	60	60.28	6.94	17 U	< LOD	11.33
RM-9-3 2-12 in	55	54.77	6.15	15 U	< LOD	10.17
RM-9-4 0-2 in	17 J	16.78	5.97	14 J	13.77	7.89
RM-9-4 2-12 in	22 J	21.82	6.02	12 J	12.12	7.69
RM-9-5 0-2 in	10 J	10.3	5.22	15 U	< LOD	10.14
RM-9-5 2-12 in	22 J	21.96	6.26	22 J	22.26	8.41

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation
U - Concentration < LOD
J - Concentration >LOD and < PQL
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Table 1 - Soil Quality Data - XRF

Sample ID	Silver			Palladium		
	Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ
RM-9-5 2-12 in R	19 J	18.68	6.1	16 J	16.32	8.09
RM-9-6 0-2 in	20 J	20.05	5.89	16 J	16.15	7.76
RM-9-6 2-12 in	17 J	16.56	5.82	17 U	< LOD	11
RM-10-1 0-2 in	12 U	< LOD	7.9	15 U	< LOD	10.27
RM-10-1 2-12 in	13 U	< LOD	8.4	14 J	14.16	7.73
RM-10-2 0-2 in	16 J	16.3	5.43	16 J	16.41	7.28
RM-10-2 2-12 in	13 J	13.34	5.46	12 J	11.83	7.24
RM-10-3 0-2 in	8 J	7.84	4.95	15 U	< LOD	9.99
RM-10-3 2-12 in	28 J	27.74	6.36	16 J	16.06	8.1
RM-10-4 0-2 in	18 J	18.36	5.93	17 U	< LOD	11.43
RM-10-4 2-12 in	18 J	18.31	6.04	24 J	23.92	8.33
RM-10-5 0-2 in	17 J	16.71	5.66	16 U	< LOD	10.75
RM-10-5 2-12 in	24 J	24.25	5.83	16 U	< LOD	10.7
RM-10-6 0-2 in	11 J	11.39	5.82	17 U	< LOD	11.38
RM-10-6 2-12 in	13 U	< LOD	8.53	18 U	< LOD	11.7
RM-10-6 2-12 in R	10 J	9.84	5.81	13 J	13.37	7.94
CF-14 16-22 in	11 U	< LOD	7.55	15 U	< LOD	10.11
CF-16 4-12 in	11 U	< LOD	7.27	15 U	< LOD	9.75
CF-20 6-12 in	11 U	< LOD	7.48	15 U	< LOD	10.17
CF-30 0-2 in	11 U	< LOD	7.36	11 J	10.7	6.77
CF-31 0-2 in	11 U	< LOD	7.53	16 U	< LOD	10.36
CF-32 0-2 in	11 U	< LOD	7.29	14 U	< LOD	9.62
CF-32 0-2 in R	11 U	< LOD	7.25	15 U	< LOD	9.87
CF-33 0-2 in	11 U	< LOD	7.02	14 U	< LOD	9.62
CF-34 0-2 in	20 J	20.12	5.73	13 J	13.13	7.41
FTS-1 0-2 in	19 J	19.2	5.85	17 U	< LOD	11.29
FTS-2 0-2 in	12 J	12.02	5.58	13 J	12.56	7.49
FTS-3 0-2 in	13 J	12.71	5.67	15 J	15.31	7.7
FTS-4 0-2 in	17 J	17.2	5.77	17 U	< LOD	11.23
FTS-5 0-2 in	19 J	19.2	5.97	17 U	< LOD	11.18
FTS-6 0-2 in	13 J	12.93	5.61	12 J	12.31	7.48
FTS-7 0-2 in	13 U	< LOD	8.42	17 U	< LOD	11.26
FTS-8 0-2 in	17 J	17.1	5.78	18 J	18.06	7.79
FTS-9 0-2 in	12 J	11.66	5.69	22 J	22.04	8.04
FTS-10 0-2 in	11 J	10.6	5.69	17 U	< LOD	11.1
FTS-11 0-2 in	18 J	17.73	5.85	16 J	15.74	7.76
FTS-12 0-2 in	12 J	12.42	5.85	24 J	24.2	8.34
FTS-13 0-2 in	14 J	13.61	5.74	16 J	15.91	7.79
FTS-14 0-2 in	11 U	< LOD	7.65	16 U	< LOD	10.34
FTS-15 0-2 in	11 U	< LOD	7.52	15 U	< LOD	10.11
FTS-16 0-2 in	17 J	16.66	5.81	15 J	14.62	7.71
FTS-17 0-2 in	14 J	14.39	5.89	16 J	15.8	7.96
FTS-18 0-2 in	21 J	20.68	6.02	14 J	13.78	7.8
FTS-100 0-2 in	22 J	22.24	5.99	16 J	16.44	7.8
FTS-19 0-2 in	12 U	< LOD	7.81	15 U	< LOD	10.3
FTS-19 0-2 in R	12 U	< LOD	7.83	16 U	< LOD	10.42
FTS-20 0-2 in	20 J	19.67	5.79	17 U	< LOD	11.08
FTS-21 0-2 in	19 J	18.54	5.64	16 U	< LOD	10.49
SGW-1 0-2 in	47	46.5	6.73	18 U	< LOD	11.69
SGW-1 2-12 in	36	36.05	6.38	13 J	13.37	7.79
SGW-2 0-2 in	33	32.58	6.31	16 J	16.31	7.92
SGW-2 2-12 in	34	34.19	6.35	17 U	< LOD	11.55
SGW-100 2-12 in	32	31.54	6.26	13 J	13.37	7.81
SGW-3 0-2 in	41	41.4	6.59	17 J	17.18	8.07
SGW-3 2-12 in	28 J	27.99	6.09	19 J	18.8	7.9

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation
U - Concentration < LOD
J - Concentration >LOD and < PQL
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Table 1 - Soil Quality Data - XRF

Sample ID	Silver			Palladium		
	Concentration	Instrument		Concentration	Instrument	
		Reading	2σ		Reading	2σ
SGW-4 0-2 in	27 J	26.99	5.99	17 U	< LOD	11.22
SGW-4 2-12 in	41	40.74	6.56	18 J	17.7	8.05
SGW-4 2-12 in R	37	37.06	6.43	14 J	14.31	7.88
SGW-5 0-2 in	18 J	17.6	5.83	14 J	13.63	7.69
SGW-5 2-12 in	26 J	25.78	5.91	17 U	< LOD	11.05
< DL	135			149		
J-Qualified	68			76		
Detected	22			0		

Concentration = Reading if > 3 Sigma, otherwise not detected @ 3 Sigma.
Limit of Detection = 3 Sigma standard deviation
U - Concentration < LOD
J - Concentration >LOD and < PQL
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Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	CF-32 0-2 in	CF-33 0-2 in	EPP-1 4.5-6.5ft	EPP-1 4.5-6.5ft	EPP-2 7-9 ft
Sample Date	5/20/2009	5/20/2009	5/19/2009	5/19/2009	5/18/2009
Sample ID	CF-32 0-2 in	CF-33 0-2 in	EPP-1 4.5-6.5ft	EPP-100(4.5-6.5	EPP-2 7-9 ft
Lab Name	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt
Lab ID	K0905012	K0905012	K0904694	K0904694	K0904694
Report	RFI-2009	RFI-2009	RFI-2009	RFI-2009	RFI-2009
Antimony			1.57 mg/kg	1.41 mg/kg	0.37 mg/kg
Arsenic	82.9 mg/kg	101 mg/kg	4.1 mg/kg	4.5 mg/kg	5.5 mg/kg
Barium			116 mg/kg	131 mg/kg	299 mg/kg
Beryllium			0.48 B mg/kg	0.5 B mg/kg	0.64 B mg/kg
Cadmium			36.6 mg/kg	31.3 mg/kg	0.2 U mg/kg
Calcium			32700 mg/kg	37600 mg/kg	8640 mg/kg
Chromium			22.8 mg/kg	27.8 mg/kg	8.7 mg/kg
Cobalt			3.8 mg/kg	4.3 mg/kg	9.2 J mg/kg
Copper			15.2 mg/kg	14.6 mg/kg	29 mg/kg
Iron			20200 mg/kg	19900 mg/kg	21600 mg/kg
Lead			72 mg/kg	65.3 mg/kg	13.3 B mg/kg
Magnesium			3910 mg/kg	3700 mg/kg	4990 J mg/kg
Manganese			201 mg/kg	235 mg/kg	1070 mg/kg
Mercury			0.015 B mg/kg	0.013 B mg/kg	0.024 mg/kg
Nickel			4.6 mg/kg	5.9 mg/kg	7.5 mg/kg
Potassium			3110 mg/kg	3130 mg/kg	4180 mg/kg
Selenium			0.8 U mg/kg	0.9 B mg/kg	0.8 U mg/kg
Silver			0.4 U mg/kg	0.4 U mg/kg	0.5 U mg/kg
Sodium			302 mg/kg	312 mg/kg	647 mg/kg
Thallium			4.2 J mg/kg	4.69 mg/kg	0.457 mg/kg
Uranium			9.71 J mg/kg	7.86 mg/kg	3.84 mg/kg
Vanadium			66.4 mg/kg	68.5 mg/kg	45.8 mg/kg
Zinc			540 mg/kg	466 mg/kg	53.4 mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	EPP-3 3-4 ft		EPP-4 15.5-17.5		EPP-5 7-9 ft		EPP-6 5.5-8 ft		EPP-7 10-12 ft	
Sample Date	5/18/2009		5/18/2009		5/15/2009		5/15/2009		5/15/2009	
Sample ID	EPP-3 3-4 ft		EPP-4 15.5-17.5		EPP-5 7-9 ft		EPP-6 5.5-8 ft		EPP-7 10-12 ft	
Lab Name	Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt	
Lab ID	K0904694		K0904694		K0904694		K0904694		K0904694	
Report	RFI-2009		RFI-2009		RFI-2009		RFI-2009		RFI-2009	
Antimony	0.68	mg/kg	0.51	mg/kg	0.38	mg/kg	0.29	mg/kg	0.45	mg/kg
Arsenic	15.6	mg/kg	6.4	mg/kg	5.5	mg/kg	5.6	mg/kg	3.6	mg/kg
Barium	138	mg/kg	247	mg/kg	178	mg/kg	192	mg/kg	270	mg/kg
Beryllium	0.46 B	mg/kg	0.72 B	mg/kg	0.67 B	mg/kg	0.58 B	mg/kg	0.34 B	mg/kg
Cadmium	1.2	mg/kg	0.2 U	mg/kg	0.2 U	mg/kg	0.2 U	mg/kg	0.2 U	mg/kg
Calcium	21200	mg/kg	5930	mg/kg	3770	mg/kg	5210	mg/kg	3230	mg/kg
Chromium	11.1	mg/kg	7.8	mg/kg	6.8	mg/kg	6.7	mg/kg	7.2	mg/kg
Cobalt	4.1	mg/kg	8.8	mg/kg	9.9	mg/kg	6.9	mg/kg	5.3	mg/kg
Copper	27	mg/kg	34.6	mg/kg	28.5	mg/kg	22.2	mg/kg	13.9	mg/kg
Iron	14400	mg/kg	25700	mg/kg	23600	mg/kg	17600	mg/kg	18300	mg/kg
Lead	10.3 B	mg/kg	23.3	mg/kg	9.8 B	mg/kg	7.3 B	mg/kg	3.3 U	mg/kg
Magnesium	4710	mg/kg	6080	mg/kg	6400	mg/kg	4610	mg/kg	2410	mg/kg
Manganese	290	mg/kg	531	mg/kg	522	mg/kg	475	mg/kg	708	mg/kg
Mercury	0.034	mg/kg	0.018 B	mg/kg	0.026	mg/kg	0.015 B	mg/kg	0.014 B	mg/kg
Nickel	5.8	mg/kg	7.1	mg/kg	7.1	mg/kg	5.3	mg/kg	3 B	mg/kg
Potassium	3400	mg/kg	4910	mg/kg	5740	mg/kg	4300	mg/kg	2370	mg/kg
Selenium	0.8 U	mg/kg	0.8 U	mg/kg	0.9 U	mg/kg	0.8 U	mg/kg	0.8 U	mg/kg
Silver	0.5 U	mg/kg	0.5 U	mg/kg	0.5 U	mg/kg	0.5 U	mg/kg	0.4 U	mg/kg
Sodium	269	mg/kg	897	mg/kg	1940	mg/kg	1230	mg/kg	712	mg/kg
Thallium	0.291	mg/kg	0.425	mg/kg	0.445	mg/kg	0.401	mg/kg	0.18	mg/kg
Uranium	1.9	mg/kg	1.79	mg/kg	1.53	mg/kg	3.06	mg/kg	1	mg/kg
Vanadium	34.4	mg/kg	42.6	mg/kg	46.2	mg/kg	33.8	mg/kg	46.6	mg/kg
Zinc	70.8	mg/kg	67.8	mg/kg	57.1	mg/kg	44.6	mg/kg	25.3	mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	EPP-8 1-3.5 ft		EPP-9 0-2 ft		EPP-10 7-8 ft		EPP-11 5-7 ft		EPP-12 0-2 ft	
Sample Date	5/15/2009		5/17/2009		5/17/2009		5/17/2009		5/17/2009	
Sample ID	EPP-8 1-3.5 ft		EPP-9 0-2 ft		EPP-10 7-8 ft		EPP-11 5-7 ft		EPP-12 0-2 ft	
Lab Name	Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt	
Lab ID	K0904694		K0904694		K0904694		K0904694		K0904694	
Report	RFI-2009		RFI-2009		RFI-2009		RFI-2009		RFI-2009	
Antimony	0.42	mg/kg	0.74	mg/kg	1.21	mg/kg	2.13	mg/kg	0.77	mg/kg
Arsenic	19.1	mg/kg	12.8	mg/kg	15.9	mg/kg	21.6	mg/kg	8	mg/kg
Barium	163	mg/kg	169	mg/kg	162	mg/kg	236	mg/kg	171	mg/kg
Beryllium	0.52 B	mg/kg	0.67 B	mg/kg	0.61 B	mg/kg	0.82 B	mg/kg	0.65 B	mg/kg
Cadmium	0.5 B	mg/kg	1.2	mg/kg	14.6	mg/kg	42.5	mg/kg	5.2	mg/kg
Calcium	22100	mg/kg	19900	mg/kg	4250	mg/kg	71700	mg/kg	13300	mg/kg
Chromium	11.6	mg/kg	145	mg/kg	7.2	mg/kg	66.4	mg/kg	10.7	mg/kg
Cobalt	5.1	mg/kg	5.4	mg/kg	5.4	mg/kg	4.2	mg/kg	6.1	mg/kg
Copper	22.1	mg/kg	43.3	mg/kg	29.8	mg/kg	43	mg/kg	24.1	mg/kg
Iron	17300	mg/kg	20300	mg/kg	15500	mg/kg	16900	mg/kg	18300	mg/kg
Lead	9.8 B	mg/kg	9.5 B	mg/kg	11.5 B	mg/kg	31.3	mg/kg	9.4 B	mg/kg
Magnesium	4000	mg/kg	4000	mg/kg	3150	mg/kg	4680	mg/kg	4040	mg/kg
Manganese	311	mg/kg	356	mg/kg	372	mg/kg	283	mg/kg	473	mg/kg
Mercury	0.029	mg/kg	0.018 B	mg/kg	0.645	mg/kg	0.217	mg/kg	0.032	mg/kg
Nickel	4.6 B	mg/kg	35.4	mg/kg	6.2	mg/kg	19.9	mg/kg	5.7	mg/kg
Potassium	3180	mg/kg	3770	mg/kg	2900	mg/kg	3550	mg/kg	3860	mg/kg
Selenium	0.8 U	mg/kg	3.2	mg/kg	0.8 U	mg/kg	3.8	mg/kg	1.2 B	mg/kg
Silver	0.5 U	mg/kg	1.4 B	mg/kg	0.5 B	mg/kg	2 B	mg/kg	0.5 U	mg/kg
Sodium	338	mg/kg	404	mg/kg	261	mg/kg	676	mg/kg	324	mg/kg
Thallium	0.393	mg/kg	0.799	mg/kg	2.87	mg/kg	1.51	mg/kg	0.706	mg/kg
Uranium	3.7	mg/kg	14.9	mg/kg	1.39	mg/kg	20.1	mg/kg	2.66	mg/kg
Vanadium	42.2	mg/kg	130	mg/kg	33.1	mg/kg	114	mg/kg	46.5	mg/kg
Zinc	61.3	mg/kg	88.4	mg/kg	57.3	mg/kg	375	mg/kg	76.7	mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	EPP-13 2-3 ft		EPP-14 2-4 ft		RM-9-1 0-2 in		RM-9-1 0-2 in		RM-9-1 2-12 in	
Sample Date	5/18/2009		5/19/2009		5/19/2009		5/19/2009		5/19/2009	
Sample ID	EPP-13 2-3 ft		EPP-14 2-4 ft		RM-100 0-2 in		RM-9-1 0-2 in		RM-9-1 2-12 in	
Lab Name	Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt	
Lab ID	K0904694		K0904694		K0904483		K0904483		K0904483	
Report	RFI-2009		RFI-2009		RFI-2009		RFI-2009		RFI-2009	
Antimony	0.65	mg/kg	0.88	mg/kg	6.23 J	mg/kg	10.4 J	mg/kg	38.4 J	mg/kg
Arsenic	6.4	mg/kg	6.4	mg/kg	18.2	mg/kg	17.1	mg/kg	94.4	mg/kg
Barium	204	mg/kg	264	mg/kg	58.7	mg/kg	62	mg/kg	447	mg/kg
Beryllium	0.55 B	mg/kg	0.53 B	mg/kg	1.82	mg/kg	1.76	mg/kg	1.9 J	mg/kg
Cadmium	0.7 B	mg/kg	0.2 U	mg/kg	132	mg/kg	105	mg/kg	19 J	mg/kg
Calcium	7240	mg/kg	6660	mg/kg	264000	mg/kg	230000	mg/kg	278000	mg/kg
Chromium	5.7	mg/kg	4.1	mg/kg	612	mg/kg	657	mg/kg	372 J	mg/kg
Cobalt	7.5	mg/kg	6.9	mg/kg	1.2 B	mg/kg	2.4	mg/kg	0.3 U	mg/kg
Copper	17.9	mg/kg	21.1	mg/kg	86.4	mg/kg	102	mg/kg	28.8	mg/kg
Iron	18500	mg/kg	20000	mg/kg	6310	mg/kg	7870	mg/kg	10300	mg/kg
Lead	5.9 B	mg/kg	4.6 B	mg/kg	13.6 B	mg/kg	16.1 B	mg/kg	41.2	mg/kg
Magnesium	4330	mg/kg	3520	mg/kg	1600	mg/kg	1840	mg/kg	818	mg/kg
Manganese	553	mg/kg	400	mg/kg	50.8	mg/kg	69	mg/kg	21.9 J	mg/kg
Mercury	0.052	mg/kg	0.022	mg/kg	0.367	mg/kg	0.401	mg/kg	4.33	mg/kg
Nickel	4.4 B	mg/kg	3.5 B	mg/kg	162	mg/kg	151	mg/kg	30.2	mg/kg
Potassium	4450	mg/kg	3320	mg/kg	3210	mg/kg	3120	mg/kg	3350	mg/kg
Selenium	0.9 U	mg/kg	0.9 U	mg/kg	129 J	mg/kg	49.3 J	mg/kg	7.8	mg/kg
Silver	0.5 U	mg/kg	0.5 U	mg/kg	7.1	mg/kg	5.8	mg/kg	0.4 U	mg/kg
Sodium	423	mg/kg	554	mg/kg	1890	mg/kg	1730	mg/kg	1080	mg/kg
Thallium	0.372	mg/kg	0.246	mg/kg	4.61	mg/kg	4.39	mg/kg	9.57	mg/kg
Uranium	2.18	mg/kg	2.28	mg/kg	119	mg/kg	114	mg/kg	114	mg/kg
Vanadium	33.8	mg/kg	31.4	mg/kg	1100	mg/kg	973	mg/kg	399 J	mg/kg
Zinc	41	mg/kg	36.8	mg/kg	1740	mg/kg	1610	mg/kg	338 J	mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	RM-9-3 0-2 in	RM-9-3 2-12 in	RM-10-3 2-12 in	RM-10-4 0-2 in	RM-10-5 0-2 in
Sample Date	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009
Sample ID	RM-9-3 0-2 in	RM-9-3 2-12 in	RM-10-3 2-12 in	RM-10-4 0-2 in	RM-10-5 0-2 in
Lab Name	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt
Lab ID	K0904943	K0904943	K0904943	K0904943	K0904483
Report	RFI-2009	RFI-2009	RFI-2009	RFI-2009	RFI-2009
Antimony					3.17 mg/kg
Arsenic					9.1 mg/kg
Barium					161 mg/kg
Beryllium					1.66 mg/kg
Cadmium			74 mg/kg	113 mg/kg	35.9 mg/kg
Calcium					213000 mg/kg
Chromium					249 mg/kg
Cobalt					1.3 B mg/kg
Copper					65 mg/kg
Iron					7960 mg/kg
Lead					29.6 mg/kg
Magnesium					4410 mg/kg
Manganese					151 mg/kg
Mercury					0.06 mg/kg
Nickel					36.4 mg/kg
Potassium					5310 mg/kg
Selenium					4 mg/kg
Silver					3.8 mg/kg
Sodium					1550 mg/kg
Thallium					1.62 mg/kg
Uranium					60.5 mg/kg
Vanadium					255 mg/kg
Zinc	9130 mg/kg	12200 mg/kg			596 mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	RM-10-5 2-12 in	RM-10-6 0-2 in	RM-10-6 2-12 in	FTS-19 0-2 in	FTS-21 0-2 in
Sample Date	5/19/2009	5/19/2009	5/19/2009	5/21/2009	5/21/2009
Sample ID	RM-10-5 2-12 in	RM-10-6 0-2 in	RM-10-6 2-12 in	FTS-19 0-2 in	FTS-21 0-2 in
Lab Name	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt
Lab ID	K0904483	K0904943	K0904943	K0905012	K0905012
Report	RFI-2009	RFI-2009	RFI-2009	RFI-2009	RFI-2009
Antimony	5.73 mg/kg				
Arsenic	18.7 mg/kg	59.9 mg/kg	57.1 mg/kg		
Barium	146 mg/kg				
Beryllium	0.9 B mg/kg				
Cadmium	18.5 mg/kg				
Calcium	108000 mg/kg				
Chromium	201 mg/kg				
Cobalt	4.6 mg/kg				
Copper	54.8 mg/kg			158 mg/kg	
Iron	12600 mg/kg				
Lead	45.5 mg/kg				105 mg/kg
Magnesium	1650 mg/kg				
Manganese	157 mg/kg				
Mercury	0.106 mg/kg				
Nickel	36.1 mg/kg				
Potassium	2990 mg/kg				
Selenium	2.4 mg/kg				
Silver	5.6 mg/kg				
Sodium	665 mg/kg				
Thallium	1.35 mg/kg				
Uranium	33.1 mg/kg				
Vanadium	174 mg/kg				
Zinc	1300 mg/kg				

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	SGW-1 0-2 in		SGW-1 2-12 in		SGW-2 0-2 in		SGW-2 2-12 in		SGW-2 2-12 in	
Sample Date	5/29/2009		5/29/2009		5/29/2009		5/29/2009		5/29/2009	
Sample ID	SGW-1 0-2 in		SGW-1 2-12 in		SGW-2 0-2 in		SGW-100 2-12 in		SGW-2 2-12 in	
Lab Name	Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt	
Lab ID	K0904840		K0904840		K0904840		K0904840		K0904840	
Report	RFI-2009		RFI-2009		RFI-2009		RFI-2009		RFI-2009	
Antimony	15.7	R mg/kg	17.3	R mg/kg	15.1	R mg/kg	15	R mg/kg	18.1	R mg/kg
Arsenic	61.4	mg/kg	53.3	mg/kg	37.6	mg/kg	74.9	mg/kg	80	mg/kg
Barium	235	mg/kg	248	J mg/kg	157	mg/kg	200	mg/kg	209	mg/kg
Beryllium	2.37	mg/kg	2.06	mg/kg	1.73	mg/kg	2.01	mg/kg	2.08	mg/kg
Cadmium	534	mg/kg	310	J mg/kg	360	mg/kg	434	mg/kg	507	mg/kg
Calcium	140000	mg/kg	118000	mg/kg	161000	mg/kg	131000	mg/kg	140000	mg/kg
Chromium	860	mg/kg	817	J mg/kg	917	mg/kg	694	mg/kg	731	mg/kg
Cobalt	4.8	mg/kg	5	mg/kg	3.7	mg/kg	4.6	mg/kg	5	mg/kg
Copper	153	mg/kg	160	mg/kg	138	mg/kg	124	mg/kg	122	mg/kg
Iron	20400	mg/kg	25600	mg/kg	18400	mg/kg	18000	mg/kg	17100	mg/kg
Lead	109	mg/kg	73.7	mg/kg	90.2	mg/kg	64.5	mg/kg	71	mg/kg
Magnesium	4600	mg/kg	5790	J mg/kg	4040	mg/kg	4550	mg/kg	4590	mg/kg
Manganese	214	mg/kg	239	mg/kg	170	mg/kg	240	mg/kg	237	mg/kg
Mercury	0.389	mg/kg	0.303	mg/kg	0.385	mg/kg	0.268	mg/kg	0.257	mg/kg
Nickel	142	mg/kg	121	J mg/kg	180	mg/kg	124	mg/kg	124	mg/kg
Potassium	7490	mg/kg	7580	mg/kg	6860	mg/kg	6910	mg/kg	7340	mg/kg
Selenium	28.4	mg/kg	31.9	mg/kg	25.4	mg/kg	45.6	mg/kg	47.6	mg/kg
Silver	32.6	mg/kg	24.9	J mg/kg	19.1	mg/kg	18.4	mg/kg	19.8	mg/kg
Sodium	1550	mg/kg	1750	mg/kg	1360	mg/kg	1780	mg/kg	1810	mg/kg
Thallium	17.4	mg/kg	13.2	mg/kg	13.5	mg/kg	17.8	mg/kg	17.3	mg/kg
Uranium	62.4	mg/kg	41.8	mg/kg	79.3	mg/kg	61.1	mg/kg	61.7	mg/kg
Vanadium	1020	mg/kg	917	mg/kg	1250	mg/kg	761	mg/kg	792	mg/kg
Zinc	8370	mg/kg	5120	J mg/kg	5490	mg/kg	6190	mg/kg	7130	mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	SGW-3 0-2 in		SGW-3 2-12 in		SGW-3 1-2 ft		SGW-4 0-2 in		SGW-4 2-12 in	
Sample Date	5/29/2009		5/29/2009		5/15/2009		5/29/2009		5/29/2009	
Sample ID	SGW-3 0-2 in		SGW-3 2-12 in		SGW-3 1-2 ft		SGW-4 0-2 in		SGW-4 2-12 in	
Lab Name	Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt	
Lab ID	K0904840		K0904840		K0904565		K0904840		K0904840	
Report	RFI-2009		RFI-2009		RFI-2009		RFI-2009		RFI-2009	
Antimony	19 R	mg/kg	25.9 R	mg/kg	19.3	mg/kg	8.48 R	mg/kg	26 R	mg/kg
Arsenic	43.6	mg/kg	86.6	mg/kg	53.1	mg/kg	28.2	mg/kg	51.5	mg/kg
Barium	205	mg/kg	203	mg/kg	193	mg/kg	185	mg/kg	247	mg/kg
Beryllium	1.9	mg/kg	2.35	mg/kg	1.88	mg/kg	1.35	mg/kg	2.47	mg/kg
Cadmium	507	mg/kg	610	mg/kg	189	mg/kg	298	mg/kg	466	mg/kg
Calcium	143000	mg/kg	155000	mg/kg	108000	mg/kg	104000	mg/kg	135000	mg/kg
Chromium	645	mg/kg	650	mg/kg	555	mg/kg	373	mg/kg	563	mg/kg
Cobalt	3.8	mg/kg	5	mg/kg	5.3	mg/kg	5	mg/kg	3.7	mg/kg
Copper	120	mg/kg	106	mg/kg	108	mg/kg	86.7	mg/kg	102	mg/kg
Iron	17400	mg/kg	13400	mg/kg	17700	mg/kg	18700	mg/kg	16300	mg/kg
Lead	130	mg/kg	72.6	mg/kg	65	mg/kg	105	mg/kg	112	mg/kg
Magnesium	5310	mg/kg	4370	mg/kg	5250	mg/kg	5600	mg/kg	5270	mg/kg
Manganese	229	mg/kg	214	mg/kg	307	mg/kg	339	mg/kg	216	mg/kg
Mercury	0.341	mg/kg	0.302	mg/kg	0.362	mg/kg	0.15	mg/kg	0.277	mg/kg
Nickel	125	mg/kg	106	mg/kg	95.3	mg/kg	77.3	mg/kg	78	mg/kg
Potassium	7840	mg/kg	7070	mg/kg	6140	mg/kg	5250	mg/kg	7230	mg/kg
Selenium	34.5	mg/kg	57.9	mg/kg	43.9	mg/kg	17.6	mg/kg	44	mg/kg
Silver	27.2	mg/kg	18.8	mg/kg	24.9	mg/kg	17.9	mg/kg	29	mg/kg
Sodium	1680	mg/kg	1650	mg/kg	1430	mg/kg	1110	mg/kg	2160	mg/kg
Thallium	15.8	mg/kg	18.8	mg/kg	13	mg/kg	10.4	mg/kg	16.8	mg/kg
Uranium	65.4	mg/kg	64.6	mg/kg	43.5	mg/kg	43	mg/kg	49.3	mg/kg
Vanadium	871	mg/kg	770	mg/kg	710	mg/kg	395	mg/kg	632	mg/kg
Zinc	8470	mg/kg	8070	mg/kg	4640	mg/kg	4970	mg/kg	7690	mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	SGW-5 0-2 in		SGW-5 2-12 in		TBWRS-1 0-2 in		TBWRS-4 0-2 in		TBWRS-6 0-2 in	
Sample Date	5/29/2009		5/29/2009		6/3/2009		5/15/2009		5/16/2009	
Sample ID	SGW-5 0-2 in		SGW-5 2-12 in		TBWRS-1 0-2 in		TBWRS-4 0-2 in		TBWRS-6 0-2 in	
Lab Name	Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt		Columbia Analyt	
Lab ID	K0904840		K0904840		K0905008		K0905008		K0905008	
Report	RFI-2009		RFI-2009		RFI-2009		RFI-2009		RFI-2009	
Antimony	6.72	R mg/kg	14	R mg/kg	2.49	mg/kg				
Arsenic	26.4	mg/kg	40.8	mg/kg	67.5	mg/kg				
Barium	157	mg/kg	228	mg/kg	157	mg/kg				
Beryllium	1.45	mg/kg	2.12	mg/kg	0.6	B mg/kg				
Cadmium	241	mg/kg	411	mg/kg	42.1	mg/kg				
Calcium	139000	mg/kg	106000	mg/kg	18400	mg/kg				
Chromium	298	mg/kg	352	mg/kg	36.1	mg/kg				
Cobalt	3.2	mg/kg	4.1	mg/kg	4.5	mg/kg				
Copper	68.1	mg/kg	80.9	mg/kg	100	mg/kg	171	mg/kg	130	mg/kg
Iron	12000	mg/kg	15200	mg/kg	17800	mg/kg				
Lead	56.2	mg/kg	78.6	mg/kg	38.7	mg/kg				
Magnesium	3880	mg/kg	5470	mg/kg	3380	mg/kg				
Manganese	239	mg/kg	253	mg/kg	455	mg/kg				
Mercury	0.099	mg/kg	0.185	mg/kg	0.19	mg/kg				
Nickel	49.8	mg/kg	59.7	mg/kg	10.3	mg/kg				
Potassium	4380	mg/kg	6410	mg/kg	2770	mg/kg				
Selenium	18.2	mg/kg	29	mg/kg	3.3	mg/kg				
Silver	8.5	mg/kg	20.6	mg/kg	1.4	B mg/kg				
Sodium	1550	mg/kg	2080	mg/kg	182	mg/kg				
Thallium	6.44	mg/kg	13.8	mg/kg	1.2	mg/kg				
Uranium	53.6	mg/kg	41.8	mg/kg	5.44	mg/kg				
Vanadium	291	mg/kg	411	mg/kg	73.2	mg/kg				
Zinc	3650	mg/kg	6580	mg/kg	306	mg/kg				

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	TBWRS-7 0-2 in	TBWRS-10 0-2 in	TBWRS-11 0-2 in	TBWRS-12 0-2 in	TBWRS-13 0-2 in
Sample Date	5/16/2009	5/16/2009	6/3/2009	5/17/2009	6/3/2009
Sample ID	TBWRS-7 0-2 in	TBWRS-10 0-2 in	TBWRS-11 0-2 in	TBWRS-12 0-2 in	TBWRS-13 0-2 in
Lab Name	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt
Lab ID	K0905008	K0905008	K0905008	K0905008	K0905008
Report	RFI-2009	RFI-2009	RFI-2009	RFI-2009	RFI-2009
Antimony			1.83 mg/kg		4.39 J mg/kg
Arsenic			23.5 mg/kg	72.3 mg/kg	129 mg/kg
Barium			157 mg/kg		285 mg/kg
Beryllium			0.54 B mg/kg		0.61 B mg/kg
Cadmium			3.5 mg/kg		8.8 mg/kg
Calcium			6100 mg/kg		5050 mg/kg
Chromium			12.1 mg/kg		16.2 mg/kg
Cobalt			4.8 mg/kg		5.6 mg/kg
Copper	101 mg/kg	116 mg/kg	134 mg/kg	130 mg/kg	355 mg/kg
Iron			17800 mg/kg		17200 mg/kg
Lead			41.4 mg/kg		118 mg/kg
Magnesium			3740 mg/kg		3370 J mg/kg
Manganese			356 mg/kg		943 mg/kg
Mercury			0.051 mg/kg		0.17 mg/kg
Nickel			4.5 mg/kg		6.5 mg/kg
Potassium			3470 mg/kg		5130 mg/kg
Selenium			0.8 U mg/kg		0.8 U mg/kg
Silver			0.4 U mg/kg		1.2 B mg/kg
Sodium			188 mg/kg		84.2 mg/kg
Thallium			0.405 mg/kg		0.556 mg/kg
Uranium			1.82 mg/kg		2.29 mg/kg
Vanadium			43.1 mg/kg		35.3 mg/kg
Zinc			123 mg/kg		235 mg/kg

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	TBWRS-14 0-2 in	TBWRS-16 0-2 in	TBWRS-16 0-2 in	TBWRS-18 0-2 in	TBWRS-19 0-2 in
Sample Date	5/16/2009	6/3/2009	6/3/2009	5/17/2009	5/17/2009
Sample ID	TBWRS-14 0-2 in	TBWRS-100 0-2 i	TBWRS-16 0-2 in	TBWRS-18 0-2 in	TBWRS-19 0-2 in
Lab Name	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt
Lab ID	K0905008	K0905008	K0905008	K0905008	K0905008
Report	RFI-2009	RFI-2009	RFI-2009	RFI-2009	RFI-2009
Antimony		2.54 mg/kg	2.5 mg/kg		
Arsenic	88.7 mg/kg	63 mg/kg	55.7 mg/kg	86.7 mg/kg	105 mg/kg
Barium		127 mg/kg	127 mg/kg		
Beryllium		0.47 B mg/kg	0.44 B mg/kg		
Cadmium		2.4 mg/kg	2.8 mg/kg		
Calcium		3630 mg/kg	3730 mg/kg		
Chromium		12.9 mg/kg	11.9 mg/kg		
Cobalt		4.1 mg/kg	4.6 mg/kg		
Copper		125 mg/kg	125 mg/kg	148 mg/kg	142 mg/kg
Iron		18500 mg/kg	16200 mg/kg		
Lead		44.8 mg/kg	47.5 mg/kg		
Magnesium		1770 mg/kg	1680 mg/kg		
Manganese		385 mg/kg	397 mg/kg		
Mercury		0.047 mg/kg	0.049 mg/kg		
Nickel		2.6 B mg/kg	2.8 B mg/kg		
Potassium		2480 mg/kg	2350 mg/kg		
Selenium		0.7 U mg/kg	0.7 U mg/kg		
Silver		0.4 U mg/kg	0.9 B mg/kg		
Sodium		105 mg/kg	82.7 mg/kg		
Thallium		0.334 mg/kg	0.324 mg/kg		
Uranium		1.76 mg/kg	1.55 mg/kg		
Vanadium		52.9 mg/kg	45.3 mg/kg		
Zinc		106 mg/kg	109 mg/kg		

Table 2

**Soil Quality Data - Confirmatory
XRF Correlation
Rhodia Silver Bow Plant**

Station ID	TBWRS-20 0-2 in	TBWRS-21 0-2 in	TBWRS-22 0-2 in	TBWRS-24 0-2 in	TBWRS-25 0-2 in
Sample Date	5/17/2009	5/17/2009	5/17/2009	5/18/2009	5/17/2009
Sample ID	TBWRS-20 0-2 in	TBWRS-21 0-2 in	TBWRS-22 0-2 in	TBWRS-24 0-2 in	TBWRS-25 0-2 in
Lab Name	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt	Columbia Analyt
Lab ID	K0905008	K0905008	K0905008	K0905008	K0905008
Report	RFI-2009	RFI-2009	RFI-2009	RFI-2009	RFI-2009
Antimony					
Arsenic	57 mg/kg	82.2 mg/kg	70.6 mg/kg	84 mg/kg	97.8 mg/kg
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper	103 mg/kg				133 mg/kg
Iron					
Lead					
Magnesium					
Manganese					
Mercury					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Uranium					
Vanadium					
Zinc					

Table 3

XRF and Confirmatory Data
Rhodia Silver Bow Plant
(concentrations in mg/Kg)

Station ID	Sample Date	Arsenic		Cadmium		Chromium		Copper		Iron		Lead		Manganese	
		XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory
CF-32 0-2 in	5/20/2009	130	82.9												
CF-33 0-2 in	5/20/2009	130	101												
EPP-1 4.5-6.5ft	5/19/2009	21	4.5	50	36.6	56	27.8	37 U	15.2	35000	20200	140	72	410	235
EPP-2 7-9 ft	5/18/2009	14	5.5	15 U	0.2 U	36	8.7	43	29	31000	21600	28	13.3	1100	1070
EPP-3 3-4 ft	5/18/2009	22	15.6	15 U	1.2	36	11.1	35	27	22000	14400	19	10.3	450	290
EPP-4 15.5-17.5	5/18/2009	20	6.4	15 U	0.2 U	34	7.8	41	34.6	38000	25700	37	23.3	710	531
EPP-5 7-9 ft	5/15/2009	16	5.5	15 U	0.2 U	41	6.8	47	28.5	33000	23600	23	9.8	660	522
EPP-6 5.5-8 ft	5/15/2009	15	5.6	11	0.2 U	45 U	6.7	34	22.2	30000	17600	23	7.3	650	475
EPP-7 10-12 ft	5/15/2009	14	3.6	16 U	0.2 U	46 U	7.2	33 U	13.9	28000	18300	21	3.3 U	1300	708
EPP-8 1-3.5 ft	5/15/2009	29	19.1	15 U	0.5	41	11.6	33 U	22.1	25000	17300	15	9.8	430	311
EPP-9 0-2 ft	5/17/2009	13	12.8	16 U	1.2	350	145	63	43.3	38000	20300	25	9.5	600	356
EPP-10 7-8 ft	5/17/2009	28	15.9	26	14.6	59	7.2	55	29.8	27000	15500	18	11.5	540	372
EPP-11 5-7 ft	5/17/2009	38	21.6	50	42.5	170	66.4	50	43	25000	16900	49	31.3	530	283
EPP-12 0-2 ft	5/17/2009	21	8	14	5.2	46	10.7	26	24.1	28000	18300	21	9.4	670	473
EPP-13 2-3 ft	5/18/2009	15	6.4	15 U	0.7	49	5.7	23	17.9	29000	18500	19	5.9	900	553
EPP-14 2-4 ft	5/19/2009	10	6.4	15 U	0.2 U	48 U	4.1	34 U	21.1	32000	20000	18	4.6	610	400
RM-9-1 0-2 in	5/19/2009	19	18.2	150	132	870	657	100	102	9300	7870	20	16.1	170	69
RM-9-1 2-12 in	5/19/2009	140	94.4	34	19	480	372	38	28.8	15000	10300	38	41.2	130 U	21.9
RM-9-3 0-2 in	5/19/2009														
RM-9-3 2-12 in	5/19/2009														
RM-10-3 2-12 in	5/19/2009			170	74										
RM-10-4 0-2 in	5/19/2009			140	113										
RM-10-5 0-2 in	5/19/2009	26	9.1	66	35.9	750	249	130	65	21000	7960	58	29.6	330	151
RM-10-5 2-12 in	5/19/2009	47	18.7	42	18.5	560	201	93	54.8	20000	12600	85	45.5	220	157
RM-10-6 0-2 in	5/19/2009	110	59.9												
RM-10-6 2-12 in	5/19/2009	110	57.1												
FTS-19 0-2 in	5/21/2009							190	158						
FTS-21 0-2 in	5/21/2009											140	105		
SGW-1 0-2 in	5/29/2009	56	61.4	530	534	950	860	160	153	24000	20400	140	109	330	214
SGW-1 2-12 in	5/29/2009	47	53.3	340	310	990	817	130	160	31000	25600	97	73.7	260	239
SGW-2 0-2 in	5/29/2009	37	37.6	380	360	860	917	120	138	18000	18400	130	90.2	220	170
SGW-2 2-12 in	5/29/2009	70	80	560	507	900	731	160	124	20000	18000	91	71	290	240
SGW-3 0-2 in	5/29/2009	53	43.6	540	507	710	645	120	120	19000	17400	160	130	290	229
SGW-3 1-2 ft	5/15/2009	45	53.1	210	189	720	555	96	108	19000	17700	81	65	340	307
SGW-3 2-12 in	5/29/2009	65	86.6	590	610	780	650	120	106	15000	13400	110	72.6	280	214
SGW-4 0-2 in	5/29/2009	28	28.2	290	298	690	373	89	86.7	29000	18700	110	105	480	339
SGW-4 2-12 in	5/29/2009	56	51.5	440	466	600	563	100	102	21000	16300	130	112	280	216
SGW-5 0-2 in	5/29/2009	24	26.4	270	241	720	298	99	68.1	26000	12000	89	56.2	420	239
SGW-5 2-12 in	5/29/2009	31	40.8	400	411	480	352	63	80.9	18000	15200	100	78.6	310	253
TBWRS-1 0-2 in	6/3/2009	84	67.5	74	42.1	210	36.1	160	100	23000	17800	85	38.7	630	455
TBWRS-4 0-2 in	5/15/2009							200	171						
TBWRS-6 0-2 in	5/16/2009							180	130						
TBWRS-7 0-2 in	5/16/2009							180	101						
TBWRS-10 0-2 in	5/16/2009							180	116						
TBWRS-11 0-2 in	6/3/2009	49	23.5	12	3.5	42	12.1	180	134	27000	17800	84	41.4	470	356
TBWRS-12 0-2 in	5/17/2009	110	72.3					210	130						
TBWRS-13 0-2 in	6/3/2009	150	129	11	8.8	42	16.2	260	355	20000	17200	100	118	910	943
TBWRS-14 0-2 in	5/16/2009	140	88.7												
TBWRS-16 0-2 in	6/3/2009	82	63	15 U	2.8	64	12.9	240	125	23000	18500	120	47.5	610	397
TBWRS-18 0-2 in	5/17/2009	150	86.7					180	148						
TBWRS-19 0-2 in	5/17/2009	140	105					200	142						
TBWRS-20 0-2 in	5/17/2009	100	57					180	103						
TBWRS-21 0-2 in	5/17/2009	120	82.2												
TBWRS-22 0-2 in	5/17/2009	120	70.6												
TBWRS-24 0-2 in	5/18/2009	130	84												
TBWRS-25 0-2 in	5/17/2009	170	97.8					220	133						
Linear Equation		y = 0.65 X + 3.92		y = 1.02 X + -20.21		y = 0.82 X + -50		y = 0.78 X + 3.0		y = 0.45 X + 6000		y = 0.78 X - 6.4		y = 0.75 X + -14.7	
Correlation Coefficient (R ²)		0.85		0.99		0.87		0.69		0.54		0.85		0.82	

Table 3

XRF and Confirmatory Data Rhodia Silver Bow Plant (concentrations in mg/Kg)

Station ID	Sample Date	Nickel		Silver		Zinc		Uranium		Vanadium		Selenium		Barium		
		XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	XRF Field	Laboratory	
CF-32 0-2 in	5/20/2009															
CF-33 0-2 in	5/20/2009															
EPP-1 4.5-6.5ft	5/19/2009	88 U	5.9	10	0.4 U	820	540	26	9.71	120	68.5	8 U	0.9	870	131	
EPP-2 7-9 ft	5/18/2009	80 U	7.5	11 U	0.5 U	68	53.4	16	3.84	100	45.8	6 U	0.8 U	710	299	
EPP-3 3-4 ft	5/18/2009	81 U	5.8	11 U	0.5 U	120	70.8	21 U	1.9	50	34.4	5	0.8 U	610	138	
EPP-4 15.5-17.5	5/18/2009	90 U	7.1	11 U	0.5 U	89	67.8	23 U	1.79	110	42.6	7 U	0.8 U	490	247	
EPP-5 7-9 ft	5/15/2009	86 U	7.1	11 U	0.5 U	68	57.1	22 U	1.53	69	46.2	7 U	0.9 U	680	178	
EPP-6 5.5-8 ft	5/15/2009	83 U	5.3	11 U	0.5 U	74	44.6	21 U	3.06	85	33.8	7 U	0.8 U	600	192	
EPP-7 10-12 ft	5/15/2009	82 U	3	13 U	0.4 U	50	25.3	22 U	1	94	46.6	6 U	0.8 U	890	270	
EPP-8 1-3.5 ft	5/15/2009	80 U	4.6	12	0.5 U	100	61.3	21 U	3.7	84	42.2	7 U	0.8 U	780	163	
EPP-9 0-2 ft	5/17/2009	95 U	35.4	13	1.4	140	88.4	22 U	14.9	220	130	7 U	3.2	710	169	
EPP-10 7-8 ft	5/17/2009	81 U	6.2	11 U	0.5	94	57.3	21 U	1.39	100	33.1	7 U	0.8 U	600	162	
EPP-11 5-7 ft	5/17/2009	89 U	19.9	8	2	540	375	27	20.1	150	114	12	3.8	690	236	
EPP-12 0-2 ft	5/17/2009	85 U	5.7	11 U	0.5 U	130	76.7	22 U	2.66	97	46.5	7 U	1.2	560	171	
EPP-13 2-3 ft	5/18/2009	82 U	4.4	11 U	0.5 U	89	41	20 U	2.18	91	33.8	7	0.9 U	630	204	
EPP-14 2-4 ft	5/19/2009	81 U	3.5	11 U	0.5 U	57	36.8	16	2.28	76	31.4	6 U	0.9 U	650	264	
RM-9-1 0-2 in	5/19/2009	310	162	19	7.1	2100	1740	130	119	750	1100	69	129	500	62	
RM-9-1 2-12 in	5/19/2009	110 U	30.2	13 U	0.4 U	310	338	130	114	330	399	15	7.8	900	447	
RM-9-3 0-2 in	5/19/2009					16000	9130									
RM-9-3 2-12 in	5/19/2009					15000	12200									
RM-10-3 2-12 in	5/19/2009															
RM-10-4 0-2 in	5/19/2009															
RM-10-5 0-2 in	5/19/2009	140	36.4	17	3.8	1500	596	82	60.5	530	255	11	4	470	161	
RM-10-5 2-12 in	5/19/2009	120	36.1	24	5.6	4200	1300	56	33.1	370	174	10	2.4	530	146	
RM-10-6 0-2 in	5/19/2009															
RM-10-6 2-12 in	5/19/2009															
FTS-19 0-2 in	5/21/2009															
FTS-21 0-2 in	5/21/2009															
SGW-1 0-2 in	5/29/2009	140	142	47	32.6	8300	8370	81	62.4	710	1020	41	28.4	300	235	
SGW-1 2-12 in	5/29/2009	160	121	36	24.9	5300	5120	61	41.8	700	917	29	31.9	420	248	
SGW-2 0-2 in	5/29/2009	280	180	33	19.1	5600	5490	91	79.3	700	1250	31	25.4	300	157	
SGW-2 2-12 in	5/29/2009	220	124	34	19.8	7100	7130	75	61.7	650	792	46	47.6	400	209	
SGW-3 0-2 in	5/29/2009	230	125	41	27.2	9100	8470	90	65.4	580	871	47	34.5	370	205	
SGW-3 1-2 ft	5/15/2009	140	95.3	40	24.9	4600	4640	64	43.5	530	710	40	43.9	450	193	
SGW-3 2-12 in	5/29/2009	150	106	28	18.8	8500	8070	84	64.6	590	770	45	57.9	330	203	
SGW-4 0-2 in	5/29/2009	180	77.3	27	17.9	4500	4970	56	43	460	395	23	17.6	420	185	
SGW-4 2-12 in	5/29/2009	130	78	41	29	6800	7690	66	49.3	450	632	39	44	460	247	
SGW-5 0-2 in	5/29/2009	120	49.8	18	8.5	4500	3650	61	53.6	480	291	17	18.2	550	157	
SGW-5 2-12 in	5/29/2009	81	59.7	26	20.6	5400	6580	55	41.8	370	411	28	29	430	228	
TBWRS-1 0-2 in	6/3/2009	84 U	10.3	10	1.4	670	306	20	5.44	180	73.2	9	3.3	600	157	
TBWRS-4 0-2 in	5/15/2009															
TBWRS-6 0-2 in	5/16/2009															
TBWRS-7 0-2 in	5/16/2009															
TBWRS-10 0-2 in	5/16/2009															
TBWRS-11 0-2 in	6/3/2009	82 U	4.5	11 U	0.4 U	210	123	17	1.82	89	43.1	8 U	0.8 U	580	157	
TBWRS-12 0-2 in	5/17/2009															
TBWRS-13 0-2 in	6/3/2009	79 U	6.5	11 U	1.2	290	235	19 U	2.29	84	35.3	6 U	0.8 U	410	285	
TBWRS-14 0-2 in	5/16/2009															
TBWRS-16 0-2 in	6/3/2009	77 U	2.8	11 U	0.9	220	109	20 U	1.76	88	52.9	6 U	0.7 U	570	127	
TBWRS-18 0-2 in	5/17/2009															
TBWRS-19 0-2 in	5/17/2009															
TBWRS-20 0-2 in	5/17/2009															
TBWRS-21 0-2 in	5/17/2009															
TBWRS-22 0-2 in	5/17/2009															
TBWRS-24 0-2 in	5/18/2009															
TBWRS-25 0-2 in	5/17/2009															
Linear Equation Correlation Coefficient (R ²)		y = 0.55 X + 0.62	5.1	y = 0.87 X - 0.94	8.3	log(y) = 1.07 *log(X) -0.35 0.98		y = 0.97 X - 0.98	13.8	y = 1.47 X - 0.88		118.8	y = 1.57 X + 0.84	-15.5	y = 0.09 X + 0.04	152.6

Table 3

XRF and Confirmatory Data
Rhodia Silver Bow Plant
(concentrations in mg/Kg)

Station ID	Sample Date	Mercury		Antimony	
		XRF Field	Laboratory	XRF Field	Laboratory
CF-32 0-2 in	5/20/2009				
CF-33 0-2 in	5/20/2009				
EPP-1 4.5-6.5ft	5/19/2009	18 U	0.015	53	1.57
EPP-2 7-9 ft	5/18/2009	14 U	0.024	46	0.37
EPP-3 3-4 ft	5/18/2009	14 U	0.034	31	0.68
EPP-4 15.5-17.5	5/18/2009	16 U	0.018	21	0.51
EPP-5 7-9 ft	5/15/2009	16 U	0.026	25 U	0.38
EPP-6 5.5-8 ft	5/15/2009	15 U	0.015	35	0.29
EPP-7 10-12 ft	5/15/2009	15 U	0.014	58	0.45
EPP-8 1-3.5 ft	5/15/2009	15 U	0.029	45	0.42
EPP-9 0-2 ft	5/17/2009	16 U	0.018	33	0.74
EPP-10 7-8 ft	5/17/2009	15 U	0.645	31	1.21
EPP-11 5-7 ft	5/17/2009	16 U	0.217	48	2.13
EPP-12 0-2 ft	5/17/2009	16 U	0.032	37	0.77
EPP-13 2-3 ft	5/18/2009	15 U	0.052	35	0.65
EPP-14 2-4 ft	5/19/2009	15 U	0.022	39	0.88
RM-9-1 0-2 in	5/19/2009	22 U	0.401	61	10.4
RM-9-1 2-12 in	5/19/2009	22 U	4.33	110	38.4
RM-9-3 0-2 in	5/19/2009				
RM-9-3 2-12 in	5/19/2009				
RM-10-3 2-12 in	5/19/2009				
RM-10-4 0-2 in	5/19/2009				
RM-10-5 0-2 in	5/19/2009	21 U	0.06	34	3.17
RM-10-5 2-12 in	5/19/2009	23 U	0.106	47	5.73
RM-10-6 0-2 in	5/19/2009				
RM-10-6 2-12 in	5/19/2009				
FTS-19 0-2 in	5/21/2009				
FTS-21 0-2 in	5/21/2009				
SGW-1 0-2 in	5/29/2009	30 U	0.389	33	15.7
SGW-1 2-12 in	5/29/2009	26 U	0.303	51	17.3
SGW-2 0-2 in	5/29/2009	27 U	0.385	41	15.1
SGW-2 2-12 in	5/29/2009	27 U	0.268	49	18.1
SGW-3 0-2 in	5/29/2009	31 U	0.341	44	19
SGW-3 1-2 ft	5/15/2009	24 U	0.362	51	19.3
SGW-3 2-12 in	5/29/2009	30 U	0.302	37	25.9
SGW-4 0-2 in	5/29/2009	24 U	0.15	41	8.48
SGW-4 2-12 in	5/29/2009	28 U	0.277	44	26
SGW-5 0-2 in	5/29/2009	25 U	0.099	41	6.72
SGW-5 2-12 in	5/29/2009	24 U	0.185	39	14
TBWRS-1 0-2 in	6/3/2009	17 U	0.19	36	2.49
TBWRS-4 0-2 in	5/15/2009				
TBWRS-6 0-2 in	5/16/2009				
TBWRS-7 0-2 in	5/16/2009				
TBWRS-10 0-2 in	5/16/2009				
TBWRS-11 0-2 in	6/3/2009	15 U	0.051	24	1.83
TBWRS-12 0-2 in	5/17/2009				
TBWRS-13 0-2 in	6/3/2009	14 U	0.17	24 U	4.39
TBWRS-14 0-2 in	5/16/2009				
TBWRS-16 0-2 in	6/3/2009	15 U	0.049	29	2.54
TBWRS-18 0-2 in	5/17/2009				
TBWRS-19 0-2 in	5/17/2009				
TBWRS-20 0-2 in	5/17/2009				
TBWRS-21 0-2 in	5/17/2009				
TBWRS-22 0-2 in	5/17/2009				
TBWRS-24 0-2 in	5/18/2009				
TBWRS-25 0-2 in	5/17/2009				
Linear Equation				y = 0.38 X +	-7.7
Correlation Coefficient (R ²)				0.35	