

DRAFT Remedial Action Plan

SIERRA REFLECTIONS SUBDIVSION Washoe County, NV

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DRAFT

Remedial Action Plan for:

Sierra Reflections Subdivision

Washoe County, Nevada

September 2025

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1.0 INTRODUCTION

On behalf of World Properties Inc., UES Professional Solutions 30, LLC (UES) has prepared this Draft Remedial Action Plan (RAP) for the Sierra Reflections Subdivision (Site) located in Washoe County, to address a portion of the project which contains elevated concentrations of mercury within the soil above residential and commercial action levels. The RAP will be finalized during the Final Map submission process to include the final grading plans. The location of the Site is indicated in <u>Figure 1</u>. Note that while concentrations of arsenic exceeding regulatory action levels were found on the Site, they are within background ranges for the region and therefore not considered in this RAP. A summary of recent mercury characterization activities conducted at the Site in March 2025 is also provided herein. Comments from Northern Nevada Public Heath (NNPH), received on June 18, 2025, were incorporated into this RAP.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

The Site is comprised of approximately 760 acres of agricultural land, grazing pastures, and vacant, vegetated land traversed by Steamboat Creek, Browns Creek, and unimproved roadways. The Site is identified as Washoe County Assessor Parcel Numbers (APNs) 046-080-40, 046-090-09, 046-090-01, 046-060-45, 046-090-10, 046-090-04, 046-060-47, 046-090-11, 046-090-05, 046-060-55 046-090-12, 046-090-06, 046-100-02, 046-090-13, 046-090-07, 046-100-03, 046-090-14, 046-090-08, 046-100-04, 046-090-15, 046-090-18, 046-100-07, 046-090-16, 046-090-23, 046-100-10, 046-090-17, 046-090-24, 046-090-25, and 046-090-26. The Site is planned for development as a common open space residential subdivision called Sierra Reflections.

2.2 SITE HISTORY

Prior to the 1900s, historical gold milling activities occurred on the Site and the Virginia and Truckee Railroad traversed along Steamboat Creek. The Site appeared to be utilized for agricultural and ranching operations since at least the 1930s with various ranching and rural residential structures previously located on the Site. By 2017, all structures appeared to be removed from the Site with the exception of an existing trailer and well house located in the northeastern portion. UES understands that the majority of the low-lying land in the meadow area has been flood irrigated utilizing water from Steamboat Creek which is known to be impacted with mercury from historical mining and milling activities. Additionally, portions of the site including Steamboat Creek and the former mill location are located within the Carson River Mercury Superfund Site (CRMS). The boundaries of the CRMS in relation to the Site are depicted in Figure 2.

2.3 Previous Investigations/Regulatory Involvement

2.3.1 Carson River Mercury Superfund Site (CRMS)

During the late 1800s, Comstock Lode gold and silver mills in the Carson River and Steamboat Creek watersheds resulted in contamination to nearby soils and drainages. An estimated 14 million pounds of elemental mercury, which was used to extract precious metals from ore through operations utilizing the Washoe amalgamation process, were released to the environment. The Washoe amalgamation process



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was developed in the 1860s. Large, circular iron tanks or "pans" with mechanical agitators held crushed ore, which was mixed with water, mercury, salt, and copper sulfate, then heated and agitated. The valuable part of the ore (precious metals) would then amalgamate in the mercury and subsequently be removed. The mercury would then be boiled away leaving the precious metals. The Washoe process resulted in mercury contamination proximal to and hydrologically downgradient from the mill sites. After around 1900, cyanide leaching and flotation processes replaced mercury amalgamation. The milling process may also have concentrated arsenic in the processed materials (tailings). The historical mills that impacted Steamboat Creek were located on Galena Creek and in Washoe City, near Washoe Lake and on Steamboat Creek downstream of Washoe Lake. Fluvial transport of the mercury and arsenic is the primary means by which the metals were mobilized in Steamboat Creek. Based on previous studies in Washoe County, mercury and arsenic impacted material is co-located and generally contained in the stream channel of Steamboat Creek, but long-term flood-irrigation with water from Steamboat Creek and flood events in the areas surrounding Steamboat Creek are known to have deposited mercury and arsenic impacted sediment outside of the stream channel.

With EPA oversight, several local agencies have conducted studies to determine the extent of contamination and evaluate the human health and ecological risks from the mercury contamination associated with the CRMS. These investigations have found that historic releases of mercury have impacted: sediments and adjacent floodplains of the Carson River from New Empire downstream through Lahontan Reservoir and extending to the Stillwater National Wildlife Refuge; soils and sediments in Virginia City, Gold Hill, and Gold, Sixmile, Sevenmile, and Daney Canyons; soils and sediments associated with mill sites in and around Washoe and Little Washoe Lakes and Steamboat Creek; and aquatic and semi-aquatic species living in or near the impacted water bodies. The EPA listed the CRMS on the Superfund National Priorities List in August 1990.

The EPA draft Carson River Mercury Superfund Site map dated March 6, 2018, and the NDEP Carson River Mercury Superfund Site Risk Area Boundaries map dated January 19, 2012, both depict the Site as located within Operable Unit 1 (OU-1) of the CRMS. The CRMS Locations of Risk Area Boundaries map dated April 20, 2011, identifies the Site as potentially containing high level risk zones associated with Steamboat Creek and the Temelic Mill Site which is mapped on the northeastern portion of the Site as indicated in <u>Figure 2</u>. In addition to the areas shown to be in the CRMS, areas that were historically flood-irrigated and/or within the 100-year flood plain could reasonably be expected to be impacted. Based on aerial photographs reviewed during a Phase I Environmental Site Assessment (ESA) conducted by UES (formerly McGinley and Associates, Inc.) in January 2023, the northeast portion of the Site appears to have been flood-irrigated with water from Steamboat Creek since at least 1939.

2.3.2 1993 Steamboat Creek Erosion Study

Based on a review of the EPA CRMS Map Explorer sampling data, limited soil sampling occurred on the Site in June 1993 as part of a Steamboat Creek bank erosion study. At least twelve soil samples were collected from the Site during this sampling event and detectable concentrations of mercury were reported in four of the collected samples ranging from 9.68 milligrams per kilograms (mg/kg) to 117.49 mg/kg. Soil samples appeared to be collected between six inches and three feet below ground surface (bgs) from the banks of Steamboat Creek.



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2.3.3 2023 Phase I ESA

In January 2023, UES conducted a Phase I ESA for the Site. The Phase I ESA was conducted to identify any recognized environmental conditions (REC), controlled recognized environmental conditions, or historical recognized environmental conditions associated with the Site. The following REC was identified:

• The Site is located within the boundaries of the CRMS which includes mercury contamination associated with the legacy gold mining and milling era of the late 1800s. Mercury contamination is known to exist in soils at mill sites, such as the former Temelic Mill Site which is located on the Site, and in nearby waterways and drainages, including the Steamboat Creek and land irrigated with Steamboat Creek water, which are present on the Site. Concentrations of mercury exceeding the CRMS action level of 80 mg/kg have been reported in the Site soils up to 117 mg/kg during a limited soil investigation conducted in 1993. Additional contamination of the Site related to the CRMS cannot be ruled out.

2.3.4 2023 Screening Level Soil Sampling

In April and May 2023, UES conducted a screening level soil sampling event at the Site to provide baseline knowledge of existing site conditions to evaluate decisions for future development and/or sampling activities. During the screening level sampling, 43 soil samples were collected from locations of suspected mercury impacts including Steamboat Creek, flood irrigated land, and the former mill site. Additionally, two background soil samples were collected from locations topographically upgradient of Steamboat Creek where mercury impacts were not anticipated. Detectable mercury concentrations were reported in all of the collected samples ranging from 0.079 mg/kg to 116 mg/kg. Thirty of the 43 samples were reported above the EPA Regional Screening Level (RSL) of 7.1 mg/kg for residential soil and six samples were reported above the EPA RSL of 30 mg/kg for industrial soils. A summary of the sample results is provided in Table 1. These samples were located in the flood irrigated areas in the northeastern portion of the Site and in the vicinity of Steamboat Creek as depicted in Figure 3.

2.3.5 2024 Site Characterization Soil Sampling

Between January and March 2024, soil sampling activities were conducted by UES to characterize and delineate mercury, lead, and arsenic impacts at the Site prior to approval of development plans in compliance with Northern Nevada Public Health (NNPH) policy.

The Site was divided into three zones as differing levels of impacts were expected based on location, historical use, and potential for flooding and/or flood irrigation. The zones are depicted in **Figure 4**. Zone 1 was located within the northeastern portion of the Site and is characterized by low-lying meadows and agricultural grazing land along Steamboat Creek which are subject to flood events and flood irrigation which is known to deposit impacted sediments outside the creek bed. Additionally, the former Temelic Mill site is located within this zone. Zone 2 encompassed the banks of Steamboat Creek which traverses the central portion of the Site from the southwest to the northeast. Zone 3 is located along the western and eastern portions of the Site and is characterized by areas located topographically upgradient of Steamboat Creek, outside the 100-year floodplain, and with no known flood irrigation.

Characterization activities included advancing 210 borings/test pits and collecting composite soil samples from two soil horizons (0-4' and 4-8') in Zone 1, collecting 46 discrete soil samples from Zone 2 along Steamboat Creek, and collecting 23 discrete soil samples from Zone 3. A total of 449 samples were



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collected from across the Site. Of those 449 samples, 81 exceeded the residential action level for mercury (7.1 mg/kg) and 16 exceeded the commercial action level (30 mg/kg).

Mercury analytical results for samples collected in the 0-4' horizon within the meadow (Zone 1) ranged from 0.09 mg/kg to 181 mg/kg. Of the 210 grid cells sampled in this horizon, 61 cells exceeded the residential action level (7.1 mg/kg) and only 12 grid cells exceeded the commercial action level (30 mg/kg), as indicated in <u>Figure 5A</u>. Mercury analytical results for samples collected in the 4-8' horizon within the meadow (Zone 1) ranged from 0.0225 mg/kg to 79.7 mg/kg. Of the 170 samples collected for this horizon, only six cells exceeded the residential action level (7.1 mg/kg) and only two samples exceeded the commercial action level (30 mg/kg) as indicated in <u>Figure 5B</u>. A summary of the sample results is provided in Table 2.

Mercury analytical results for samples collected from the Steamboat Creek bank (Zone 2) ranged from 0.0392 mg/kg to 311 mg/kg. This is consistent with known mercury impacts from the CRMS. While the entirety of this portion of Steamboat Creek is included in the CRMS boundaries, impacts above action levels appear limited as they are located sporadically and are not consistently present along Steamboat Creek due to the mechanisms of sedimental transport of mercury and dilution over the last 120 years. Mercury analytical results for samples collected from areas above the flood zone which were not irrigated with Steamboat Creek water (Zone 3) ranged from 0.0269 mg/kg to 1.4 mg/kg, well below the residential action level of 7.1 mg/kg. A summary of the sample results for Zone 2 and Zone 3 are provided in Tables 3 and 4 respectively. As such, Zone 2 and Zone 3 were cleared and are not included in this RAP.

A total of 82 samples were collected and analyzed for arsenic and lead. With the exception of one sample collected from the former mill site (B49), concentrations of arsenic ranged between 0.625 mg/kg and 21.5 mg/kg with an average concentration of 4.94 mg/kg, and concentrations of lead ranged between 3.89 mg/kg and 76.1 mg/kg with an average concentration of 13.0 mg/kg. These results are consistent with naturally occurring background concentrations within the region. The sample collected from the former mill site (B49) had elevated concentrations of arsenic (308 mg/kg) and lead (556 mg/kg) well above the Site average and EPA residential RSLs within the 0-4' soil horizon. Lead and arsenic are known byproducts of milling techniques. The affected area appears to be limited and will be mitigated with the same methodology as mercury impacted soils. Complete details of this investigation are provided in *Results of Mercury Characterization and Corrective Action Plan (CAP)* dated June 14, 2025.

3.0 2025 SITE CHARACTERIZATION ACTIVITES

Based on the elevated mercury concentrations observed during the 2024 mercury characterization activities, additional sampling activities were conducted to further delineate of mercury, arsenic, and lead impacts in Zone 1 at the Site prior to preparing tentative maps and this RAP. The additional sampling activities were conducted in general accordance with the SAP prepared by UES, dated November 22, 2023.

3.1 CHARACTERIZATION ACTIVITIES

The additional characterization activities conducted at the Site consisted of advancing 29 borings in Zone 1, collecting composite soil samples from one soil horizon (0-4') in each boring, analytical testing of the collected soil samples, and preparing this summary of findings. Characterization activities were conducted in March 2025. Methods for drilling and sampling were consistent with the SAP and the subsequent report. Soil boring locations are indicated in **Figure 5A**.



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3.2 ANALYTICAL TESTING AND RESULTS

Soil samples were shipped to Pace Analytical National (Pace) of Mount Juliet, Tennessee for analytical testing. All soil samples were analyzed for mercury using EPA Method SW7471 with the exception of samples collected from borings B238 and B239, which were analyzed for lead and arsenic by EPA Method 6010D. Copies of the chain of custody records and analytical laboratory reports for the soil samples have been provided under separate cover and can be provided upon request.

Analytical results for the collected soil samples are included in Table 5. Detectable concentrations of mercury were reported in 25 of the 29 samples collected, with concentrations ranging from 0.109 mg/kg (B234) to 56.0 mg/kg (B225). Of the 29 samples collected, 11 exceed the residential action level for mercury (7.1 mg/kg) and two exceed the commercial action level for mercury (30 mg/kg). The two samples analyzed for arsenic and lead reported concentrations of arsenic above the industrial action level of 3.0 mg/kg but within background ranges and concentrations of lead below the residential action level of 200 mg/kg. The additional site characterization sampling event achieved complete delineation of the impacted areas.

4.0 CONCEPTUAL SITE MODEL

The mercury, arsenic, and lead impacted soil at the Site is related to legacy gold milling activities from the historic Comstock Lode mining era. Processing of the ore at Comstock's gold mills generally involved comminution of the ore with stamp mills, creating a slurry, and adding mercury to form an amalgam with the gold and silver. The gold and silver were later separated from the mercury using a distillation process and the mercury was reused. After about 1900, cyanide leaching and flotation processes replaced mercury amalgamation. The milling process may also have concentrated arsenic and lead in the processed materials (tailings). The historical mills that impacted Steamboat Creek were located on Galena Creek and in Washoe City, near Washoe Lake. The Temelic Mill site is also located on the Site. Fluvial transport of the metals is the primary means by which the metals were mobilized in Steamboat Creek. The mercury, arsenic, and lead impacted material is co-located and generally contained in the stream channel of Steamboat Creek, but decades of flood-irrigation at the Site with water from Steamboat Creek and flood events in the area allowed mercury sediment to be deposited on the Site. As such, mercury-impacted soil or soil with elevated concentrations of arsenic and lead are not expected to exist outside of the flood-irrigated lands and/or the 100-year floodplain. Additionally, due to alluvial transport, vertical migration of mercury is limited, as mercury gets caught up in the soil particles as it moves downward. As such, elevated concentrations of mercury are not anticipated in areas where surficial samples were below action levels and overall mercury concentrations will decrease significantly with depth.

5.0 REMEDIAL ACTION LEVELS

Pursuant to direction and discussion with the Nevada Division of Environmental Protection (NDEP) and the NNPH, action levels at the Site will follow the EPA Regional Screening Levels (RSLs). The EPA RSLs for mercury, lead, and arsenic are summarized in the table below.

COCs	EPA RSL – Residential	EPA RSL – Commercial
Mercury	7.1 mg/kg	30 mg/kg



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Lead	200 mg/kg	800 mg/kg
Arsenic	0.68 mg/kg	3.0 mg/kg

As indicated in UES's (formerly McGinley) September 27, 2021, South Truckee Meadows Regional Arsenic Background Levels report, regional background arsenic concentrations in soils appear to range from 1.8 mg/kg to 320 mg/kg. While arsenic concentrations in soil samples collected for the Sierra Reflections Subdivision appear to be elevated when compared to the EPA action level of 0.68 mg/kg for residential scenarios, these soil sample concentrations are within the known background range for arsenic within this region. In general, soil with elevated concentrations of arsenic are known to be collocated with elevated mercury concentrations in this region. Therefore, the proposed RAP for mercury impacted soils would inherently address elevated arsenic concentrations in the low-lying areas.

6.0 REMEDIAL ACTION PLAN

Remedial action will focus on protecting public health by removing and/or capping mercury impacted soils such that shallow soils do not contain mercury above the residential action level of 7.1 mg/kg and roadways do not contain mercury above the industrial/construction action level of 30 mg/kg.

In general, the RAP for this Site includes moving impacted soil from the meadow area to beneficial reuse areas which require fill as part of site grading activities. Impacted soil used as beneficial fill in other parts of the Site will be capped with a minimum of eight feet of clean material. Additionally, as a conservative measure, areas where soil was removed in Zone 1 will be capped with eight feet of clean material. This cap will prevent contact with potentially impacted soil following Site development. The remedial action site grading plans are provided in **Appendix A.** These plans outline the anticipated cut and fill locations. Exhibit EX1 outlines the anticipated extent of cut and locations for beneficial reuse (fill), exhibit EX2 indicates where the eight-foot clean cap will be applied, exhibit EX3 provides information on buried utility locations and depths, and exhibit EX4 provides cross sections for select areas of interest. As indicated in the Exhibits in Appendix A and in **Figures 5A and 5B**, impacted areas within the meadows will be excavated and capped with clean material. Additional details of the remedial action are provided in the following sections.

6.1 CLEARING AND GRUBBING

Prior to soil excavation, the impacted areas will be cleared and grubbed. Soil associated with the grubbed material in this area is assumed to be impacted. Vegetation and surface debris that is cleared and grubbed will be placed in the designated beneficial reuse areas. All grubbed material will be placed as soon as possible in order to avoid double handling. Any material that must be stored for a length of time will follow the Materials Handling Plan provided in Appendix B.

6.2 IMPACTED SOIL EXCAVATION

Prior to mass grading on the property, the areas known to be impacted will be excavated to approximately eight feet below the planned final grade to account for eight feet of clean cap as indicated in Appendix A. For ease, the entire cut area outlined in **Appendix A, EX1** will be removed and treated as impacted. Excavation boundaries were dictated by sample results and conservative lateral estimates provided in



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Figure 5A and Figure 5B. Development plans dictate that utilities will be no deeper than eight feet bgs in areas that have mercury impacts above applicable action levels. As such, no additional excavation and/or sampling activities will be conducted in roadways. In the event final design places utilities greater than eight feet bgs, additional confirmation samples will be collected to total depth as outlined in Section 7.1. Based on previous sample results and mercury transport mechanisms, mercury is not anticipated to be below eight feet bgs in concentrations greater than the commercial action level (see Section 4.0). Additionally, no excavation of impacted material is planned for the Steamboat Creek exclusion area. Excavated soil will be transported to the beneficial reuse areas concurrently with excavation to prevent double handling, migration via wind, stormwater, and/or confusion regarding what soil can be placed where. All contaminated soil excavation will take place prior to beginning other grading efforts for the Site (with the exception of preparing the beneficial reuse areas), in order to keep mercury laden soil segregated from non-impacted soils.

Temporary stockpiling of impacted soil during the grading process is not anticipated; however, the minimum requirements for materials handling are provided in and will follow the Materials Handling Plan in Appendix B. Additionally, tentative stockpile locations have been identified on the erosion control plan provided in Appendix A. *Prior to mass grading, a site-specific materials handling plan will be developed by the grading contractor and provided to the NNPH and Washoe County for review. The site-specific plan will include temporary soil staging locations, phasing plan in relation to location of work, and specific best management practices (BMP) to be followed and used to protect stockpiled soil if they differ from those outlined in Appendix B. The Site-Specific Materials Handling Plan will be submitted to the NNPH for review at least 30 days prior to commencement of site grading activities.*

6.3 OPEN SPACE SOIL DISTURBANCES

Given the proximity to Steamboat Creek (mercury source), soil within the open space and Steamboat Creek avoidance area is assumed to be contaminated. However, no specific mercury remediation and/or capping will take place within the Steamboat Creek corridor or areas designated as open spaces proximal to Steamboat Creek as this area will be subject to additional mercury deposition over time.

There will be some activity within the open space area proximal to Steamboat Creek including bridge construction and utility installation at the two identified Steamboat Creek crossings in which impacted soils will need to be handled appropriately. The current bridge design is provided in the Tentative Map submittal. Utilities will generally be advanced via jack and bore and then run above ground with the bridge over the creek crossing. Any spoils associated with bridge construction and/or utility installation will be segregated and placed into beneficial reuse areas. As this area will be subject to additional mercury deposition over time, no additional excavation outside of what is required for construction efforts will be conducted. Additionally, no capping and/or confirmation sampling will be conducted in association with these structures.

6.4 FUTURE DRINKING WATER INFRASTRUCTURE

Various wells and tanks are proposed to be installed in the Meadow area to support future drinking water infrastructure. Proposed locations have been provided for Washoe County and NNPH review in the tentative map submittal.



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Infrastructure that will be installed in areas with mercury containing soil that has already been excavated and capped with eight feet of clean material will require no additional remedial consideration.

Infrastructure that will be installed in areas known to be impacted with mercury but not remediated will require appropriate handling of impacted soils. Locations will be reviewed with the CEM who will determine the handling requirements based on historic sampling results. Note that if infrastructure is installed prior to beneficial reuse areas being ready to receive soil and/or after they are capped, spoils associated with infrastructure installation will need to be characterized and properly disposed of offsite.

Tank locations will not require additional sampling following installation as any remaining mercury will be capped. Per discussion with the NDEP, no additional sampling will be required for well installation under this RAP or related to mercury impacted soil in the area.

6.5 FILL PLACEMENT AND SITE GRADING

Impacted soil removed from Zone 1 of the Site will be placed in one of the beneficial reuse areas identified in **Appendix A, EX1.** As indicated in the exhibits, these areas are proposed to be open space in the development and will not contain residential housing or roadways.

Impacted soil will be placed in beneficial reuse areas as soon as reasonable following excavation to prevent migration via wind, stormwater, and/or confusion regarding what soil can be placed where. The eight-foot cap will be placed as soon as possible following the placement of impacted soil. The eight-foot cap will be placed in the Zone 1 areas where impacted soil was removed and in the beneficial reuse areas. The cap will be placed consistent with engineering and geotechnical requirements. It should be noted that the open space area that makes up the exclusion area around Steamboat Creek will not receive a clean cap. Fill material will be sourced primarily from the southeastern portion of the Site which is located topographically upgradient, outside of impacts from flood and irrigation events (Zone 3).

Some of the beneficial reuse areas will be located on slopes. Prior to placement of the cap, impacted soil will be graded to a 3:1 (or less steep) incline in areas with slopes. Specific attention will be paid to erosion control measures in these areas to ensure the cap stays in place and impacted soil is not exposed. At a minimum, a final cap of 12" to 18" of rock rip rap will be placed on slopes 3:1 or greater which represents a more conservative approach than required for county code. More specific erosion control measures such as revegetation (if appropriate) will be determined later in the planning process and will be presented in a RAP addendum if the measures change the overall approach to the beneficial reuse areas. A draft erosion control plan has been provided in Appendix A. Final erosion control plans will be approved by Washoe County Planning & Engineering through typical map review iterative processes.

Fill material in beneficial reuse areas and any capping material that has been placed will be demarcated such that it is not moved once placed.

After the impacted soil is removed, placed in a beneficial re-use area, and the clean cap is placed and demarcated, mass site grading can proceed as normal. It should be noted that the grading plans used for exhibits in Appendix A are consistent with the submittals being provided to Washoe County for development.



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7.0 CONFIRMATION SAMPLING

Confirmation sampling will be conducted within the roadways and areas receiving the eight-foot clean cap to ensure that remedial action measures were successful. Confirmation samples collected from the areas receiving the eight-foot clean cap will provide confirmation that soil above the action level does not exist within the top eight feet of finished grade. The following sections outline the general approach to confirmation sampling. No other confirmation or fill material sampling is proposed as initial sampling efforts did not identify any other areas of concern. Should the design location of the roadways and utility depths differ significantly from plans submitted in this RAP, a standalone confirmation sampling plan will be submitted to the NNPH for approval.

7.1 ROADWAY SAMPLING

Confirmation sampling will be conducted in the roadways to confirm that any material that may be encountered during future maintenance activities is below commercial action levels (30 mg/kg) for mercury. There are approximately 13,000 linear feet of roadways within Zone 1 at this time.

First, in a computer mapping program, sampling locations will be laid out for all public roadways within Zone 1 which were previously identified as impacted. Sample locations will be placed 2,000 feet on center and then labeled with a unique identification. In instances where roadways are located within areas that previously exceeded commercial action levels, samples will be collected 200 feet on center.

Soil borings will be advanced utilizing a direct push drill rig to facilitate sampling efforts. Soil borings will be advanced to approximately eight feet bgs which is consistent with the deepest proposed utility. Samples will be collected as composite samples from two soil horizons: 0-4 feet bgs and 4-8 feet bgs. Samples will be collected from the drill cores from the desired interval and placed in one-gallon ziplock bags. A new bag will be utilized for each sample location. The bag will be thoroughly homogenized and then a sample aliquot will be collected in a laboratory provided sample jar. The sample jar shall be sealed with a Teflon lined lid, labeled, and stored in a chilled cooler pending shipment to the laboratory. Sample locations will be recorded with GPS coordinates for inclusion in the final report. In the event final utility depth exceeds eight feet bgs in areas with elevated mercury, additional samples will be collected at four-foot intervals or a portion thereof, to the bottom of the deepest utility. Samples will be collected consistent with the methodology described above. Should soils exceeding the commercial action level of 30 mg/kg be encountered, additional excavation will occur in that area to remove those soils from the utility right of way.

7.2 RESIDENTIAL AREA AND BENEFICIAL REUSE AREA SAMPLING

Following final grading and cap placement, confirmation samples will be collected from the areas receiving the eight-foot clean cap, to provide confirmation that soil above the residential action level (7.1 mg/kg) does not exist within the top eight feet of finished grade. A 1/4 acre grid system will be applied to the fill areas and the beneficial reuse areas using a computer mapping program. Each cell of the grid system will be given a unique identifier. A random number generator will be used to select 25% of the grid cells for sampling with at least two samples collected in each beneficial reuse area.

Soil borings will be advanced utilizing a direct push drill rig to facilitate sampling efforts. Soil borings will be advanced to four feet bgs. One boring will be advanced per cell and a sample will be collected from two



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soil horizons: 0-4 feet bgs and 4-8 feet bgs. Samples will be collected from the drill cores from the desired interval and placed in one-gallon ziplock bags. A new bag will be utilized for each sample location. The bag will be thoroughly homogenized and then a sample aliquot will be collected in a laboratory provided sample jar. The sample jar shall be sealed with a Teflon lined lid, labeled, and stored in a chilled cooler pending shipment to the laboratory. Sample locations will be recorded with GPS coordinates for inclusion in the final report.

7.3 SAMPLE ANALYSIS

Soil samples will be shipped under chain-of-custody protocol to Pace Analytical in Mount Juliet, Tennessee for analytical testing. The samples will be analyzed for mercury using EPA Method SW7471.

7.4 EVALUATION OF RESULTS

Analytical data collected will be compared to the appropriate action level. Should impacts above the applicable action level be encountered, NNPH and Washoe County will be notified and a path forward for additional sampling and remedial action will be discussed.

The 95% UCL will be calculated using the data from Zone 1. The 95% UCL will be calculated using the Student's-t methodology and equation.

$$UCL = \bar{X} + t_n x \left(\frac{S_{\bar{x}}}{\sqrt{n}}\right)$$

Where:

 \bar{X} = arithmetic mean of all samples

 $t_n = Student's - t$ distribution number for 95% based on sample quantiy n

n = number of samples

 $S_{\bar{x}} = standard\ deviation\ of\ all\ samples$

In the event of a "non-detect" result, for calculation purposes, the result will be considered one half of the reporting limit. The values including a "J" flag (i.e., estimated value above the method detection limit but below the reporting limit) will be used within calculations as-is. The 95% UCL will be calculated for each sampling group (i.e., roadways, capped areas, etc.) The final calculated 95% UCL (mercury concentration) shall be representative of conditions in Zone 1.

8.0 NNPH NOTIFICATION AND ADDITIONAL PLAN SUBMITTAL

At least one month prior to beginning grading activities, a Site-Specific Materials Handling Plan will be provided to NNPH for review. The site-specific plan will include temporary soil staging locations, phasing plan in relation to location of work, and specific best management practices (BMP) to be followed and used to protect stockpiled soil if they differ from those outlined in Appendix B. The intent of this plan is to provide specific details on soil movement and management that cannot be determined prior to selecting a contractor for development.



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In addition to the site-specific plan, the NNPH shall be notified at the following times during soil remedial activities:

- 1. 48 hours prior to commencing excavation activities
- 2. During placement and construction of beneficial re-use areas
 - a. Following placement of impacted soils
 - b. Following placement of drainage/channel bank rip rap
 - c. Following placement of erosion control
- 3. Following placement of the eight-foot clean material cap
- 4. 48 hours prior to confirmation sample collection
- 5. Following receipt of analytical data if results exceed applicable action levels.

Notifications shall be made in writing via email to Wesley Rubio at wrubio@nnph.gov or as requested by NNPH.

9.0 REPORT PREPARATION

Following completion of the remedial and soil sampling activities, UES will prepare a Remedial Action Report for submittal to the NNPH. The report will include a description of remedial activities, final disposition locations of contaminated soil, confirmation soil sampling protocols and results, analytical laboratory reports and chain-of-custody documentation, and any other relevant information/documents.

Additionally, a request for No Further Action will also be submitted with the report. UES anticipates this report will be submitted to NNPH within 45 days following completion of grading, remedial, and sampling activities.

10.0 ADDITIONAL GENERAL REQUIREMENTS

10.1 Environmental Remediation Bond

A bond shall be provided by the project developer to Washoe County. The intent of this bond is to provide assurance to Washoe County that remediation activities shall be completed in full. The bond amount shall be based on a cost estimate for the excavation and transport of mercury impacted soils, placement of said materials, slope stabilization and capping of said soil. This bond shall be submitted to Washoe County in accordance with standard procedures. The bond shall be released in full following review and approval of soil placement, capping, and slope stabilization of the beneficial reuse fill areas and once NNPH has confirmed the requirements of the approved RAP have been satisfied.

10.2 IRREVOCABLE EASEMENTS FOR BENEFICIAL REUSE AREAS

Irrevocable non-build easements shall be established for the areas used for beneficial reuse. The format for said easements will be approved by Washoe County. The easements shall be recorded by the Washoe County Recorders office and will be accompanied by a Record of Survey depicting the non-build easements. The easements will include environmental covenant language indicating that environmental

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assessment and planning will be required for any future earthwork being conducted below eight feet bgs (i.e., below the clean cap), in those areas. The final recording of the easements shall be completed prior to the issuance of the building permit.



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11.0 LIMITATIONS

The conclusions presented herein are partially based on information provided by UES. UES makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. The results reported herein are applicable to the time the sampling occurred. Changes in site hydrogeology may occur as a result of rainfall, snowmelt, water usage, or other factors.

It should be recognized that definition and evaluation of environmental conditions is a difficult and inexact science. Judgments and opinions leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies. Additional information not found or available to UES at the time of writing this report may result in a modification to the conclusions and recommendations contained herein.

The presentation of data presented herein is intended for the purpose of the visualization of environmental conditions. A greater degree of spatial and temporal data density may result in a more accurate representation of environmental conditions. Although such data visualization techniques may aid in providing a conceptual understanding of environmental conditions, such presentations are not intended to completely depict environmental conditions.

The use of the word "certify" in this document constitutes an expression of professional opinion regarding those facts or findings which are the subject of the certification and does not constitute a warranty or guarantee, either expressed or implied.

This report is not a legal opinion. The services performed by UES have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, express or implied, is made.





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12.0 CLOSING

UES and World Properties Inc. trust the information provided herein satisfies the requirements of the NNPH at this time. Should you have any questions regarding this report, please contact the undersigned at (775) 829-2245.

Respectfully submitted,

Carllin Jelle

UES

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations, and ordinances.

Caitlin Jelle, P.E., C.E.M #2454, (Exp. 3/26)

Director, Due Diligence and Remediation



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TABLES

Table 1	. Summary of Analytical Re	sults - Screening Level	Sampling
Sample Location	Sample ID	Date	Mercury (mg/kg)
S1	KKC012-S1@6"	4/7/2023	0.255
S2	KKC012-S2@6"	4/7/2023	115
S3	KKC012-S3@6"	4/7/2023	13.0
S4	KKC012-S4@6"	4/7/2023	0.466
S 5	KKC012-S5@6"	4/7/2023	11.6
S6	KKC012-S6@6"	4/7/2023	9.4
S7	KKC012-S7@6"	4/7/2023	19.6
\$8	KKC012-S8@6"	4/7/2023	35.5
S9	KKC012-S9@6"	4/7/2023	7.7
S10	KKC012-S10@6"	4/7/2023	9.7
S11	KKC012-S11@6"	4/7/2023	20.6
S12	KKC012-S12@6"	4/7/2023	116
S13	KKC012-S13@6"	4/7/2023	12.1
S14	KKC012-S14@6"	4/7/2023	25.5
S15	KKC012-S15@6"	4/7/2023	20.1
S16	KKC012-S16@6"	4/7/2023	71.9
S17	KKC012-S17@6"	4/7/2023	99.2
S18	KKC012-S18@6"	4/7/2023	6.49
S19	KKC012-S19@6"	4/7/2023	6.77
S20	KKC012-S20@6"	4/7/2023	1.62
S21	KKC012-S21@6"	4/7/2023	33.4
S22	KKC012-S22@6"	4/7/2023	8.6
S23	KKC012-S23@6"	4/7/2023	10.6
S24	KKC012-S24@6"	4/7/2023	11.1
S25	KKC012-S25@6"	4/7/2023	6.83
S26	KKC012-S26@6"	4/7/2023	2.06
S27	KKC012-S27@6"	4/7/2023	2.53
S28	KKC012-S28@6"	4/7/2023	4.67
S29	KKC012-S29@6"	4/7/2023	5.3
S30	KKC012-S30@6"	4/7/2023	13.9
BG1	KKC012-BG1@6"	4/7/2023	3.0
BG2	KKC012-BG2@6"	4/7/2023	0.0790
EPA RSL (Commercial)			30
EPA RSL (Residential)			7.1

mg/kg miligrams per kilogram

Table 2. Summary of Analytical Results - Zone 1						
Sample Location	Sample ID	Date	Depth	Me	tals (mg/kg	
Sample Location	Sample 10			Mercury	Arsenic	Lead
B2	KKC012-Z1-B2@0-4'	1-Feb-24	0-4'	0.377	21.5	69
	KKC012-Z1-B2@4-8'	1-Feb-24	4-8'	<0.0186	1.01 J	5.28
В3	KKC012-Z1-B3@0-4'	1-Feb-24	0-4'	0.132	NA	NA
	KKC012-Z1-B3@4-8'	1-Feb-24	4-8'	<0.0183	NA	NA
B4	KKC012-Z1-B4@0-4'	1-Feb-24	0-4'	0.794	NA	NA
D4	KKC012-Z1-B4@4-8'	1-Feb-24	4-8'	0.0232 J	NA	NA
B5	KKC012-Z1-B5@0-4'	1-Feb-24	0-4'	11.00	NA	NA
60	KKC012-Z1-B5@4-8'	1-Feb-24	4-8'	0.900	NA	NA
В6	KKC012-Z1-B6@0-4'	1-Feb-24	0-4'	3.77	2.99	13
DO	KKC012-Z1-B6@4-8'	1-Feb-24	4-8'	0.0862	<0.211	4.54
D.7	KKC012-Z1-B7@0-4'	1-Feb-24	0-4'	1.98	NA	NA
В7	KKC012-Z1-B7@4-8'	1-Feb-24	4-8'	0.178	NA	NA
D.O.	KKC012-Z1-B8@0-4'	1-Feb-24	0-4'	1.85	8.62	9.77
B8	KKC012-Z1-B8@4-8'	1-Feb-24	4-8'	0.541	6.29	6.59
	KKC012-Z1-B9@0-4'	1-Feb-24	0-4'	1.10	NA	NA
В9	KKC012-Z1-B9@4-8'	1-Feb-24	4-8'	0.176	NA	NA
540	KKC012-Z1-B10@0-4'	1-Feb-24	0-4'	0.556	NA	NA
B10	KKC012-Z1-B10@4-8'	1-Feb-24	4-8'	0.182	NA	NA
	KKC012-Z1-B11@0-4'	1-Feb-24	0-4'	1.02	9.53	18.4
B11	KKC012-Z1-B11@4-8'	1-Feb-24	4-8'	0.0732	6.03	5.78
	KKC012-Z1-B12@0-4'	1-Feb-24	0-4'	2.38	NA	NA
B12	KKC012-Z1-B12@4-8'	1-Feb-24	4-8'	0.218	NA	NA
	KKC012-Z1-B13@0-4'	1-Feb-24	0-4'	2.99	NA	NA
B13	KKC012-Z1-B13@4-8'	1-Feb-24	4-8'	0.154	NA	NA
	KKC012-Z1-B15@0-4'	22-Jan-24	0-4'	2.45	NA	NA
B15	KKC012-Z1-B15@4-8'	22-Jan-24	4-8'	0.241	NA	NA
	KKC012-Z1-B16@0-4'	22-Jan-24	0-4'	1.17	NA	NA
B16	KKC012-Z1-B16@4-8'	22-Jan-24	4-8'	0.0542	NA	NA
	KKC012-Z1-B17@0-4'	22-Jan-24	0-4'	3.73	NA	NA
B17	KKC012-Z1-B17@4-8'	22-Jan-24	4-8'	0.238	NA	NA
	KKC012-Z1-B18@0-4'	22-Jan-24	0-4'	1.18	NA	NA
B18	KKC012-Z1-B18@4-8'	22-Jan-24	4-8'	<0.0216	NA	NA
	KKC012-Z1-B19@0-4'	22-Jan-24	0-4'	3.86	NA	NA
B19	KKC012-Z1-B19@4-8'	22-Jan-24	4-8'	0.495	NA	NA
	KKC012-Z1-B20@0-4'	22-Jan-24	0-4'	1.14	NA	NA
B20	KKC012-Z1-B20@4-8'	22-Jan-24	4-8'	0.129	NA NA	NA
	KKC012-Z1-B20@4-8	22-Jan-24	0-4'	4.11	NA NA	NA
B21	KKC012-Z1-B21@0-4 KKC012-Z1-B21@4-8'	22-Jan-24 22-Jan-24	4-8'	6.64	NA NA	NA
	KKC012-Z1-B21@4-8 KKC012-Z1-B24@0-4'	1-Feb-24	0-4'	6.96	NA NA	NA
B24	KKC012-Z1-B24@0-4 KKC012-Z1-B24@4-8'	1-Feb-24	4-8'	0.35	NA NA	NA NA
	KKC012-Z1-B24@4-8 KKC012-Z1-B25@0-4'	1-Feb-24	0-4'	0.55	NA NA	NA NA
B25			0-4 4-8'		NA NA	
	KKC012-Z1-B25@4-8'	1-Feb-24	0-4'	4.81	1	NA NA
B26	KKC012-Z1-B26@0-4'	1-Feb-24		3.0	NA NA	NA NA
	KKC012-Z1-B26@4-8'	1-Feb-24	4-8'	0.148	NA	NA

Table 2. Summary of Analytical Results - Zone 1						
Sample Location	Sample ID	Date	Depth		tals (mg/kg	
- Campre 100atron	·			Mercury	Arsenic	Lead
B27	KKC012-Z1-B27@0-4'	1-Feb-24	0-4'	1.83	9.45	13.6
	KKC012-Z1-B27@4-8'	1-Feb-24	4-8'	0.176	5.4	5.73
B28	KKC012-Z1-B28@0-4'	1-Feb-24	0-4'	2.55	NA	NA
	KKC012-Z1-B28@4-8'	1-Feb-24	4-8'	0.353	NA	NA
B29	KKC012-Z1-B29@0-4'	1-Feb-24	0-4'	11.4	NA	NA
	KKC012-Z1-B29@4-8'	1-Feb-24	4-8'	0.115	NA	NA
B30	KKC012-Z1-B30@0-4'	29-Jan-24	0-4'	64.3	NA	NA
	KKC012-Z1-B30@4-8'	29-Jan-24	4-8'	4.17	NA	NA
B31	KKC012-Z1-B31@0-4'	29-Jan-24	0-4'	3.51	NA	NA
	KKC012-Z1-B31@4-8'	29-Jan-24	4-8'	0.178	NA	NA
B32	KKC012-Z1-B32@0-4'	29-Jan-24	0-4'	0.638	3.48	15.7
	KKC012-Z1-B32@4-8'	29-Jan-24	4-8'	0.101	2.37	6.16
B33	KKC012-Z1-B33@0-4'	29-Jan-24	0-4'	0.969	NA	NA
	KKC012-Z1-B33@4-8'	29-Jan-24	4-8'	0.294	NA	NA
B34	KKC012-Z1-B34@0-4'	1-Feb-24	0-4'	0.246	NA	NA
	KKC012-Z1-B34@4-8'	1-Feb-24	4-8'	0.199	NA	NA
B35	KKC012-Z1-B35@0-4'	1-Feb-24	0-4'	0.040 J	NA	NA
	KKC012-Z1-B35@4-8'	1-Feb-24	4-8'	<0.0186	NA	NA
B36	KKC012-Z1-B36@0-4'	1-Feb-24	0-4'	0.157	5.27	6.61
	KKC012-Z1-B36@4-8'	1-Feb-24	4-8'	0.0995	3.83	5.5
B37	KKC012-Z1-B37@0-4'	29-Jan-24	0-4'	4.62	NA	NA
537	KKC012-Z1-B37@4-8'	29-Jan-24	4-8'	0.0261 J	NA	NA
B38	KKC012-Z1-B38@0-4'	29-Jan-24	0-4'	12.9	4.54	28.4
	KKC012-Z1-B38@4-8'	29-Jan-24	4-8'	0.386 J6	2.49	4.86
B39	KKC012-Z1-B39@0-4'	29-Jan-24	0-4'	7.32	NA	NA
B33	KKC012-Z1-B39@4-8'	29-Jan-24	4-8'	1.51	NA	NA
B40	KKC012-Z1-B40@0-4'	29-Jan-24	0-4'	39.1	NA	NA
D40	KKC012-Z1-B40@4-8'	29-Jan-24	4-8'	7.93	NA	NA
B41	KKC012-Z1-B41@0-4'	29-Jan-24	0-4'	13.6	5.61	31
D41	KKC012-Z1-B41@4-8'	29-Jan-24	4-8'	0.969	2.04 J	5.05
B42	KKC012-Z1-B42@0-4'	29-Jan-24	0-4'	32.6	NA	NA
D42	KKC012-Z1-B42@4-8'	29-Jan-24	4-8'	3.64	NA	NA
B43	KKC012-Z1-B43@0-4'	29-Jan-24	0-4'	53.9	NA	NA
D43	KKC012-Z1-B43@4-8'	29-Jan-24	4-8'	1.81	NA	NA
B44	KKC012-Z1-B44@0-4'	29-Jan-24	0-4'	16.2	NA	NA
D44	KKC012-Z1-B44@4-8'	29-Jan-24	4-8'	0.134	NA	NA
D4F	KKC012-Z1-B45@0-4'	29-Jan-24	0-4'	17	NA	NA
B45	KKC012-Z1-B45@4-8'	29-Jan-24	4-8'	0.482	NA	NA
D46	KKC012-Z1-B46@0-4'	1-Feb-24	0-4'	1.54	NA	NA
B46	KKC012-Z1-B46@4-8'	1-Feb-24	4-8'	7.63	NA	NA
D 4.7	KKC012-Z1-B47@0-4'	22-Jan-24	0-4'	20.1	NA	NA
B47	KKC012-Z1-B47@4-8'	22-Jan-24	4-8'	1.17	NA	NA
D.40	KKC012-Z1-B48@0-4'	22-Jan-24	0-4'	0.15	NA	NA
B48	KKC012-Z1-B48@4-8'	22-Jan-24	4-8'	0.192	NA	NA

Table 2. Summary of Analytical Results - Zone 1						
Sample Location	Sample ID	Date	Depth	Me	tals (mg/kg	
Sample Location	Sample 1D	Date		Mercury	Arsenic	Lead
B49	KKC012-Z1-B49@0-4'	22-Jan-24	0-4'	0.979	308 J3 J5	556 J3 V
	KKC012-Z1-B49@4-8'	22-Jan-24	4-8'	0.0292 J	2.85	7.59
B50	KKC012-Z1-B50@0-4'	22-Jan-24	0-4'	8.45	NA	NA
	KKC012-Z1-B50@4-8'	22-Jan-24	4-8'	0.51	NA	NA
B51	KKC012-Z1-B51@0-4'	22-Jan-24	0-4'	12.5	NA	NA
D31	KKC012-Z1-B51@4-8'	22-Jan-24	4-8'	0.283	NA	NA
B52	KKC012-Z1-B52@0-4'	22-Jan-24	0-4'	10	4.86	26.4
DJZ	KKC012-Z1-B52@4-8'	22-Jan-24	4-8'	0.111 B	1.26 J	5.68
B53	KKC012-Z1-B52@0-4'	22-Jan-24	0-4'	10.7	NA	NA
D33	KKC012-Z1-B52@4-8'	22-Jan-24	4-8'	0.108 B	NA	NA
B54	KKC012-Z1-B54@0-4'	22-Jan-24	0-4'	6.29	NA	NA
D34	KKC012-Z1-B54@4-8'	22-Jan-24	4-8'	0.274	NA	NA
DEE	KKC012-Z1-B55@0-4'	22-Jan-24	0-4'	11.2	NA	NA
B55	KKC012-Z1-B55@4-8'	22-Jan-24	4-8'	0.526	NA	NA
DEC	KKC012-Z1-B56@0-4'	22-Jan-24	0-4'	6	NA	NA
B56	KKC012-Z1-B56@4-8'	22-Jan-24	4-8'	0.766	NA	NA
557	KKC012-Z1-B57@0-4'	29-Jan-24	0-4'	10.1	NA	NA
B57	KKC012-Z1-B57@4-8'	29-Jan-24	4-8'	0.17	NA	NA
	KKC012-Z1-B58@0-4'	29-Jan-24	0-4'	2.03	NA	NA
B58	KKC012-Z1-B58@4-8'	29-Jan-24	4-8'	1.41	NA	NA
	KKC012-Z1-B59@0-4'	29-Jan-24	0-4'	2.91	NA	NA
B59	KKC012-Z1-B59@4-8'	29-Jan-24	4-8'	0.129	NA	NA
	KKC012-Z1-B60@0-4'	29-Jan-24	0-4'	37.6	4.98	76.1
B60	KKC012-Z1-B60@4-8'	29-Jan-24	4-8'	0.636	1.34 J	3.96
	KKC012-Z1-B61@0-4'	29-Jan-24	0-4'	45.4	NA	NA
B61	KKC012-Z1-B61@4-8'	29-Jan-24	4-8'	55.9	NA	NA
	KKC012-Z1-B62@0-4'	29-Jan-24	0-4'	181	3.87	59.9
B62	KKC012-Z1-B62@4-8'	29-Jan-24	4-8'	0.342	1.42 J	3.89
	KKC012-Z1-B63@0-4'	1-Feb-24	0-4'	12.3	NA	NA
B63	KKC012-Z1-B63@4-8'	NS	4-8'	Refusal - No S		
	KKC012-Z1-B64@0-4'	29-Jan-24	0-4'	6.26	NA	NA
B64	KKC012-Z1-B64@4-8'	NS	4-8'	Refusal - No S		
	KKC012-Z1-B65@0-4'	1-Feb-24	0-4'	5.27	NA NA	NA
B65	KKC012-Z1-B65@4-8'	1-Feb-24	4-8'	0.114	NA	NA
	KKC012-Z1-B66@0-4'	1-Feb-24	0-4'	2.3	<0.546	10.8
B66	KKC012-Z1-B66@4-8'	1-Feb-24	4-8'	0.158	3.26	5.63
	KKC012-Z1-B67@0-4'	22-Mar-24	0-4'	13.6	NA	NA
B67	KKC012-Z1-B67@4-8'	NS	4-8'	Refusal - No S		14/1
	KKC012-Z1-B68@0-4'	22-Mar-24	0-4'	5.27	NA NA	NA
B68	KKC012-Z1-B68@4-8'	NS	4-8'	Refusal - No S	1	INC
	KKC012-Z1-B69@0-4'	1-Feb-24	0-4'	0.491	NA NA	NA
B69	KKC012-Z1-B69@0-4 KKC012-Z1-B69@4-8'	1-Feb-24	0-4 4-8'	0.491	NA NA	NA NA
	KKC012-Z1-B69@4-8 KKC012-Z1-B70@0-4'	1-Feb-24	0-4'	<0.0187	NA NA	NA NA
B70				•	1	
	KKC012-Z1-B70@4-8'	1-Feb-24	4-8'	0.115	NA	NA

Sample Location Sample ID Date Depth Mercury Arser	NA 24.1
B71 KKC012-Z1-B71@0-4' 22-Mar-24 0-4' 7.47 NA KKC012-Z1-B71@4-8' NS 4-8' Refusal - No Sample B72 KKC012-Z1-B72@0-4' 22-Mar-24 0-4' 10 2.34 KKC012-Z1-B72@4-8' NS 4-8' Refusal - No Sample KKC012-Z1-B73@0-4' 22-Mar-24 0-4' 1.79 NA	NA 24.1
B71 KKC012-Z1-B71@4-8' NS 4-8' Refusal - No Sample KKC012-Z1-B72@0-4' Z2-Mar-24 O-4' Refusal - No Sample KKC012-Z1-B72@4-8' NS 4-8' Refusal - No Sample KKC012-Z1-B73@0-4' Z2-Mar-24 O-4' 1.79 NA	24.1
KKC012-Z1-B71@4-8' NS 4-8' Refusal - No Sample B72 KKC012-Z1-B72@0-4' 22-Mar-24 0-4' 10 2.34 KKC012-Z1-B72@4-8' NS 4-8' Refusal - No Sample KKC012-Z1-B73@0-4' 22-Mar-24 0-4' 1.79 NA	· · ·
B72 KKC012-Z1-B72@4-8' NS 4-8' Refusal - No Sample KKC012-Z1-B73@0-4' 22-Mar-24 0-4' 1.79 NA	· · ·
KKC012-Z1-B72@4-8' NS 4-8' Refusal - No Sample KKC012-Z1-B73@0-4' 22-Mar-24 0-4' 1.79 NA	NA
1 B73	NA
KKC012-Z1-B73@4-8' NS 4-8' Refusal - No Sample	
The sample of th	
B74 KKC012-Z1-B74@0-4' 1-Feb-24 0-4' 4 NA	NA
KKC012-Z1-B74@4-8' 1-Feb-24 4-8' 0.487 NA	NA
B75 KKC012-Z1-B75@0-4' 1-Feb-24 0-4' 1.59 NA	NA
KKC012-Z1-B75@4-8' 1-Feb-24 4-8' 1.3 NA	NA
B76 KKC012-Z1-B76@0-4' 1-Feb-24 0-4' 11.2 6.80	18.7
KKC012-Z1-B76@4-8' 1-Feb-24 4-8' 0.131 0.73	2 4.91
B77 KKC012-Z1-B77@0-4' 1-Feb-24 0-4' 11.8 NA	NA
KKC012-Z1-B77@4-8' 1-Feb-24 4-8' 0.169 NA	NA
B78 KKC012-Z1-B78@0-4' 29-Jan-24 0-4' 4.35 NA	NA
KKC012-Z1-B78@4-8' 29-Jan-24 4-8' 22.3 NA	NA
B79 KKC012-Z1-B79@0-4' 29-Jan-24 0-4' 17.3 NA	NA
KKC012-Z1-B79@4-8' 29-Jan-24 4-8' 1.64 NA	NA
KKC012-Z1-B80@0-4' 29-Jan-24 0-4' 43.7 NA	NA
B80 KKC012-Z1-B80@4-8' 29-Jan-24 4-8' 0.104 NA	NA
RS4 KKC012-Z1-B81@0-4' 29-Jan-24 0-4' 4.61 NA	NA
B81 KKC012-Z1-B81@4-8' 29-Jan-24 4-8' 1.64 NA	NA
KKC012-Z1-B82@0-4' 29-Jan-24 0-4' 0.76 3.33	7.91
B82 KKC012-Z1-B82@4-8' 29-Jan-24 4-8' <0.0199 3.59	4.29
RS2 KKC012-Z1-B83@0-4' 29-Jan-24 0-4' <0.0221 NA	NA
B83 KKC012-Z1-B83@4-8' 29-Jan-24 4-8' 0.974 NA	NA
RS4 KKC012-Z1-B84@0-4' 29-Jan-24 0-4' 6.59 2.98	3 12.2
B84 KKC012-Z1-B84@4-8' 29-Jan-24 4-8' 0.0936 J 1.2	5.25
RASE KKC012-Z1-B85@0-4' 29-Jan-24 0-4' 2.72 NA	NA
B85 KKC012-Z1-B85@4-8' 29-Jan-24 4-8' 0.0497 NA	NA
RAC KKC012-Z1-B86@0-4' 29-Jan-24 0-4' 11.8 NA	NA
B86 KKC012-Z1-B86@4-8' 29-Jan-24 4-8' 2.6 NA	NA
NA RKC012-Z1-B87@0-4' 30-Jan-24 0-4' 1.07 NA	NA
B87 KKC012-Z1-B87@4-8' 30-Jan-24 4-8' 0.446 NA	NA
KKC012-Z1-B88@0-4' 30-Jan-24 0-4' 4.73 4.53	12.8
B88 KKC012-Z1-B88@4-8' 30-Jan-24 4-8' 0.654 3.8'	8.02
KKC012-71-B89@0-4' 30-lan-24 0-4' <0.0217 ΝΔ	
B89 KKC012-Z1-B89@4-8' 30-Jan-24 4-8' 0.0722 NA	NA
KKC012-71-B90@0-4' 30-Jan-24 0-4' 0.0236 J NA	NA
B90 KKC012-Z1-B90@4-8' 30-Jan-24 4-8' <0.0223 NA	NA
KKC012-71-B91@0-4' 30-lan-24 0-4' 0.105 NA	NA
B91 KKC012-Z1-B91@4-8' 30-Jan-24 4-8' 0.0357 J NA	NA
KKC012-71-B92@0-4' 30-lan-24 0-4' 4.29 NA	
B92 KKC012-Z1-B92@4-8' 30-Jan-24 4-8' 0.0339 J NA	NA

Table 2. Summary of Analytical Results - Zone 1						
Sample Location	Sample ID	Date	Depth	Me	tals (mg/kg	
Sample Location	Sample 1D	Date	Deptil	Mercury	Arsenic	Lead
B93	KKC012-Z1-B93@0-4'	30-Jan-24	0-4'	0.193	NA	NA
233	KKC012-Z1-B93@4-8'	30-Jan-24	4-8'	0.522	NA	NA
B94	KKC012-Z1-B94@0-4'	29-Jan-24	0-4'	27.8	NA	NA
231	KKC012-Z1-B94@4-8'	29-Jan-24	4-8'	0.671	NA	NA
B95	KKC012-Z1-B95@0-4'	29-Jan-24	0-4'	9.41	NA	NA
555	KKC012-Z1-B95@4-8'	29-Jan-24	4-8'	14.7	NA	NA
B96	KKC012-Z1-B96@0-4'	29-Jan-24	0-4'	6.62	NA	NA
230	KKC012-Z1-B96@4-8'	29-Jan-24	4-8'	3.5	NA	NA
B97	KKC012-Z1-B97@0-4'	29-Jan-24	0-4'	26.5	NA	NA
557	KKC012-Z1-B97@4-8'	29-Jan-24	4-8'	0.428	NA	NA
B98	KKC012-Z1-B98@0-4'	29-Jan-24	0-4'	1.35	3.7	12.6
D30	KKC012-Z1-B98@4-8'	29-Jan-24	4-8'	0.231	2.77	6.15
B99	KKC012-Z1-B99@0-4'	29-Jan-24	0-4'	13.4	NA	NA
	KKC012-Z1-B99@4-8'	29-Jan-24	4-8'	0.289	NA	NA
B100	KKC012-Z1-B100@0-4'	29-Jan-24	0-4'	16	3.27	10.6
B100	KKC012-Z1-B100@4-8'	29-Jan-24	4-8'	5.42	2.68	8.73
B101	KKC012-Z1-B101@0-4'	22-Mar-24	0-4'	15.6	NA	NA
P101	KKC012-Z1-B101@4-8'	NS	4-8'	Refusal - No Sa	ample	
B102	KKC012-Z1-B102@0-4'	22-Mar-24	0-4'	2.01	NA	NA
B102	KKC012-Z1-B102@4-8'	NS	4-8'	Refusal - No Sa	ample	
D102	KKC012-Z1-B103@0-4'	22-Mar-24	0-4'	1.14	NA	NA
B103	KKC012-Z1-B103@4-8'	NS	4-8'	Refusal - No Sa	ample	
D104	KKC012-Z1-B104@0-4'	1-Feb-24	0-4'	0.286	NA	NA
B104	KKC012-Z1-B104@4-8'	1-Feb-24	4-8'	0.0582	NA	NA
D10F	KKC012-Z1-B105@0-4'	22-Mar-24	0-4'	11.5	NA	NA
B105	KKC012-Z1-B105@4-8'	NS	4-8'	Refusal - No Sa	ample	
D106	KKC012-Z1-B106@0-4'	22-Mar-24	0-4'	74.3	NA	NA
B106	KKC012-Z1-B106@4-8'	NS	4-8'	Refusal - No Sa	ample	
B107	KKC012-Z1-B107@0-4'	22-Mar-24	0-4'	0.539	NA	NA
B10/	KKC012-Z1-B107@4-8'	NS	4-8'	Refusal - No Sa	ample	
D100	KKC012-Z1-B108@0-4'	22-Mar-24	0-4'	0.505	NA	NA
B108	KKC012-Z1-B108@4-8'	NS	4-8'	Refusal - No Sa	ample	
D100	KKC012-Z1-B109@0-4'	22-Mar-24	0-4'	1.51	NA	NA
B109	KKC012-Z1-B109@4-8'	NS	4-8'	Refusal - No Sa	ample	
D110	KKC012-Z1-B110@0-4'	22-Mar-24	0-4'	5.93	NA	NA
B110	KKC012-Z1-B110@4-8'	NS	4-8'	Refusal - No Sa	ample	
D144	KKC012-Z1-B111@0-4'	31-Jan-24	0-4'	25.8	2.84	23.3
I B111 -	KKC012-Z1-B111@4-8'	31-Jan-24	4-8'	3.46	2.6	7.71
	KKC012-Z1-B112@0-4'	31-Jan-24	0-4'	3.88	NA	NA
I B112 -	KKC012-Z1-B112@4-8'	31-Jan-24	4-8'	0.104	NA	NA
	KKC012-Z1-B113@0-4'	31-Jan-24	0-4'	0.187	NA	NA
I B113 ⊢	KKC012-Z1-B113@4-8'	31-Jan-24	4-8'	0.0298 J	NA	NA
	KKC012-Z1-B114@0-4'	29-Jan-24	0-4'	1.85	NA	NA
B114	KKC012-Z1-B114@4-8'	29-Jan-24	4-8'	0.318	NA	NA

	Table 2. Sumn	nary of Analytica	l Results - Z	one 1		
Canada Lacation					tals (mg/kg	
Sample Location	Sample ID	Date	Depth	Mercury	Arsenic	Lead
B115	KKC012-Z1-B115@0-4'	29-Jan-24	0-4'	1.89	NA	NA
B112	KKC012-Z1-B115@4-8'	29-Jan-24	4-8'	0.0718	NA	NA
5116	KKC012-Z1-B116@0-4'	29-Jan-24	0-4'	2.45	NA	NA
B116	KKC012-Z1-B116@4-8'	29-Jan-24	4-8'	0.163	NA	NA
	KKC012-Z1-B117@0-4'	31-Jan-24	0-4'	0.385	NA	NA
B117	KKC012-Z1-B117@4-8'	31-Jan-24	4-8'	0.0601	NA	NA
	KKC012-Z1-B118@0-4'	30-Jan-24	0-4'	3.85	NA	NA
B118	KKC012-Z1-B118@4-8'	30-Jan-24	4-8'	0.112	NA	NA
	KKC012-Z1-B119@0-4'	30-Jan-24	0-4'	1.93	4.62	9.78
B119	KKC012-Z1-B119@4-8'	30-Jan-24	4-8'	0.0755	4.29	7.09
	KKC012-Z1-B120@0-4'	30-Jan-24	0-4'	1.88	NA	NA
B120	KKC012-Z1-B120@4-8'	30-Jan-24	4-8'	0.0253 J	NA	NA
	KKC012-Z1-B121@0-4'	30-Jan-24	0-4'	2.1	NA	NA
B121	KKC012-Z1-B121@0-4 KKC012-Z1-B121@4-8'	30-Jan-24	4-8'	0.0305 J	NA NA	NA
	KKC012-Z1-B121@4-8 KKC012-Z1-B122@0-4'	30-Jan-24	0-4'	2.45	4.84	8.97
B122	KKC012-Z1-B122@0-4 KKC012-Z1-B122@4-8'	30-Jan-24	4-8'	<0.0218	4.93	7.47
	KKC012-Z1-B122@4-8 KKC012-Z1-B123@0-4'	30-Jan-24	0-4'	0.736	4.93 NA	NA
B123	KKC012-Z1-B123@0-4 KKC012-Z1-B123@4-8'	30-Jan-24	4-8'	0.736	NA NA	NA NA
			0-4'		1	
B124	KKC012-Z1-B124@0-4'	30-Jan-24		2.76	NA NA	NA
	KKC012-Z1-B124@4-8'	30-Jan-24	4-8'	0.0228 J	NA	NA
B125	KKC012-Z1-B125@0-4'	30-Jan-24	0-4'	2.49	NA	NA
	KKC012-Z1-B125@4-8'	30-Jan-24	4-8'	0.0302 J	NA	NA
B126	KKC012-Z1-B126@0-4'	31-Jan-24	0-4'	0.166	NA	NA
	KKC012-Z1-B126@4-8'	31-Jan-24	4-8'	<0.0220	NA	NA
B127	KKC012-Z1-B127@0-4'	31-Jan-24	0-4'	0.112	2.97	10.4
	KKC012-Z1-B127@4-8'	31-Jan-24	4-8'	<0.0219	0.625 J	5.68
B128	KKC012-Z1-B128@0-4'	31-Jan-24	0-4'	0.436 J3 J5	NA	NA
	KKC012-Z1-B128@4-8'	31-Jan-24	4-8'	<0.0216	NA	NA
B129	KKC012-Z1-B129@0-4'	31-Jan-24	0-4'	0.794	NA	NA
	KKC012-Z1-B129@4-8'	31-Jan-24	4-8'	0.358	NA	NA
B130	KKC012-Z1-B130@0-4'	31-Jan-24	0-4'	5.81	NA	NA
	KKC012-Z1-B130@4-8'	31-Jan-24	4-8'	0.457	NA	NA
B131	KKC012-Z1-B131@0-4'	31-Jan-24	0-4'	11.3	2.79	15.2
D131	KKC012-Z1-B131@4-8'	31-Jan-24	4-8'	0.247	4.51	8.4
B132	KKC012-Z1-B132@0-4'	31-Jan-24	0-4'	17.1	NA	NA
DIJZ	KKC012-Z1-B132@4-8'	31-Jan-24	4-8'	0.829	NA	NA
B133	KKC012-Z1-B133@0-4'	22-Mar-24	0-4'	2.58	NA	NA
D133	KKC012-Z1-B133@4-8'	NS	4-8'	Refusal - No Sa	ample	
D124	KKC012-Z1-B134@0-4'	22-Mar-24	0-4'	0.279	NA	NA
B134	KKC012-Z1-B134@4-8'	NS	4-8'	Refusal - No Sa	ample	
D135	KKC012-Z1-B135@0-4'	22-Mar-24	0-4'	0.263	NA	NA
B135	KKC012-Z1-B135@4-8'	NS	4-8'	Refusal - No Sa	ample	
D400	KKC012-Z1-B136@0-4'	22-Mar-24	0-4'	0.561	NA	NA
B136	KKC012-Z1-B136@4-8'	NS	4-8'	Refusal - No Sa	l .	
		.,,		1.10.0.00	p.,c	

Table 2. Summary of Analytical Results - Zone 1						
Sample Location	Sample ID	Date				
Sample Location	Sample 1D	Date	Depth	Mercury	Arsenic	Lead
B137	KKC012-Z1-B137@0-4'	22-Mar-24	0-4'	4.92	NA	NA
5137	KKC012-Z1-B137@4-8'	NS	4-8'	Refusal - No Sa	ample	
B138	KKC012-Z1-B138@0-4'	22-Mar-24	0-4'	17.20	NA	NA
D130	KKC012-Z1-B138@4-8'	NS	4-8'	Refusal - No Sa	ample	
B139	KKC012-Z1-B139@0-4'	22-Mar-24	0-4'	36.3	NA	NA
B133	KKC012-Z1-B139@4-8'	NS	4-8'	Refusal - No Sa	ample	
B140	KKC012-Z1-B140@0-4'	22-Mar-24	0-4'	1.51	NA	NA
B140	KKC012-Z1-B140@4-8'	NS	4-8'	Refusal - No Sa	ample	
B141	KKC012-Z1-B141@0-4'	21-Mar-24	0-4'	3.77	NA	NA
D141	KKC012-Z1-B141@4-8'	NS	4-8'	A.92 NA Refusal - No Sample 17.20 NA Refusal - No Sample 36.3 NA Refusal - No Sample 1.51 NA Refusal - No Sample 3.77 NA Refusal - No Sample 2 NA Refusal - No Sample 7.24 NA Refusal - No Sample 7.24 NA Refusal - No Sample 8.55 NA Refusal - No Sample 1.2 NA Refusal - No Sample 1.1 NA Refusal - No Sample 1.13 NA 0.739 NA 9.73 NA 0.186 NA 5.18 NA 0.354 NA 0.146 NA 0.354 NA 0.146 NA 0.352 NA 0.338 NA <0.0207 NA 0.908 3.65 <0.215 2.09 J 0.102 NA <0.0215 NA 0.28 NA <0.0217 5.45 0.0448 J 9.71		
D142	KKC012-Z1-B142@0-4'	21-Mar-24	0-4'	2	NA	NA
B142	KKC012-Z1-B142@4-8'	NS	4-8'	Mercury Arsenic 4.92 NA Refusal - No Sample NA 17.20 NA Refusal - No Sample NA 36.3 NA Refusal - No Sample NA Refusal - No Sample 3.77 NA Refusal - No Sample NA Refusal - No Sample 7.24 NA Refusal - No Sample 8.55 NA Refusal - No Sample 1.2 NA Refusal - No Sample 1.1 NA Refusal - No Sample 1.09 NA Refusal - No Sample 1.13 NA NA 0.739 NA NA 9.73 NA NA 0.186 NA NA 0.146 NA NA 0.0522 NA NA 0.00207 NA NA 0.0207 NA NA 0.0215 NA NA 0.28 NA NA 0.247 <t< td=""><td></td></t<>		
D4.42	KKC012-Z1-B143@0-4'	21-Mar-24	0-4'	7.24	NA	NA
B143	KKC012-Z1-B143@4-8'	NS	4-8'	Mercury Arsenic 4.92 NA Refusal - No Sample NA 36.3 NA Refusal - No Sample NA 1.1 NA Refusal - No Sample NA 1.09 NA Refusal - No Sample NA 1.13 NA 0.739 NA 9.73 NA 0.186 NA 5.18 NA 0.354 NA 0.0522 NA 0.338 NA <0.0207		
2444	KKC012-Z1-B144@0-4'	21-Mar-24	0-4'	8.55	NA	NA
B144	KKC012-Z1-B144@4-8'	NS	4-8'	Refusal - No Sa	ample	
D4.45	KKC012-Z1-B145@0-4'	22-Mar-24	0-4'			NA
B145	KKC012-Z1-B145@4-8'	NS	4-8'	Refusal - No Sa	ample	
	KKC012-Z1-B146@0-4'	22-Mar-24	0-4'			NA
B146	KKC012-Z1-B146@4-8'	NS	4-8'	Refusal - No Sa		
	KKC012-Z1-B147@0-4'	22-Mar-24	0-4'			NA
B147	KKC012-Z1-B147@4-8'	NS	4-8'	-		
	KKC012-Z1-B148@0-4'	31-Jan-24	0-4'			NA
B148	KKC012-Z1-B148@4-8'	31-Jan-24	4-8'			NA
	KKC012-Z1-B149@0-4'	31-Jan-24	0-4'			NA
B149	KKC012-Z1-B149@4-8'	31-Jan-24	4-8'			NA
	KKC012-Z1-B150@0-4'	31-Jan-24	0-4'			NA
B150	KKC012-Z1-B150@4-8'	31-Jan-24	4-8'	Refusal - No Sample 17.20 NA Refusal - No Sample 1.51 NA Refusal - No Sample 3.77 NA Refusal - No Sample NA Refusal - No Sample NA Refusal - No Sample 1.2 NA Refusal - No Sample 1.1 NA Refusal - No Sample 1.09 NA Refusal - No Sample 1.13 NA 0.09 NA Refusal - No Sample 1.09 NA 1.13 NA 0.739 NA 0.739 NA 0.186 NA 0.186 NA 0.146 NA 0.0522 NA 0.038 NA <0.0207		NA
	KKC012-Z1-B151@0-4'	31-Jan-24	0-4'	17.20 NA Refusal - No Sample 36.3 NA Refusal - No Sample 1.51 NA Refusal - No Sample 3.77 NA Refusal - No Sample 2 NA Refusal - No Sample NA NA Refusal - No Sample 1.2 NA Refusal - No Sample 1.1 NA Refusal - No Sample 1.09 NA Refusal - No Sample 1.13 NA 0.739 NA P.73 NA 0.186 NA 5.18 NA 0.354 NA 0.046 NA 0.0522 NA 0.0207 NA 0.908 3.65 <0.215 2.09 J 0.102 NA <0.0215 NA 0.247 5.45 0.0448 J 9.71 1.02 NA 0.303 NA	NA	
B151	KKC012-Z1-B151@4-8'	31-Jan-24	4-8'			NA
	KKC012-Z1-B152@0-4'	31-Jan-24	0-4'	1		NA
B152	KKC012-Z1-B152@4-8'	31-Jan-24	4-8'			NA
	KKC012-Z1-B153@0-4'	31-Jan-24	0-4'	1		8.24
B153	KKC012-Z1-B153@4-8'	31-Jan-24	4-8'	ł		8.8
	KKC012-Z1-B154@0-4'	31-Jan-24	0-4'	ł		NA
B154	KKC012-Z1-B154@4-8'	31-Jan-24	4-8'			NA
	KKC012-Z1-B154@4-8 KKC012-Z1-B155@0-4'	30-Jan-24	0-4'	ł		NA NA
B155	KKC012-Z1-B155@0-4 KKC012-Z1-B155@4-8'	30-Jan-24	4-8'			NA NA
	KKC012-Z1-B155@4-8 KKC012-Z1-B156@0-4'	30-Jan-24	0-4'			9.18
B156			4-8'			
	KKC012-Z1-B156@4-8'	30-Jan-24	0-4'	ł		7.98
B157	KKC012-Z1-B157@0-4'	30-Jan-24				NA NA
	KKC012-Z1-B157@4-8'	30-Jan-24	4-8'			NA
B158	KKC012-Z1-B158@0-4'	30-Jan-24	0-4'	1		NA
	KKC012-Z1-B158@4-8'	30-Jan-24	4-8'	<0.0223	NA	NA

Sample Location	Table 2. Summary of Analytical Results - Zone 1						
B159	Sample Location	Sample ID	Date	Donth	Me	tals (mg/kg	
B159	Sample Location	Sample 1D	Date	Deptii	Mercury	Arsenic	Lead
RKC012-Z1-B159@4-8 30-Jan-24 4-8 0.0255 NA	R159			_			NA
B160 KKC012-Z1-B161@04-8' 30-Jan-24 4-8' 0.13 NA					0.0255 J	NA	NA
RKC012-Z1-B160@4-8' 30-Jan-24 4-8' 0.13 NA NA	B160			_		NA	NA
B161 KKC012-Z1-B161@4-8' 30-Jan-24 4-8' 0.102 3.93 8.17		KKC012-Z1-B160@4-8'	30-Jan-24		0.13	NA	NA
RKC012-Z1-B162@4-8' 30-Jan-24 4-8' 0.102 3.93 8.17	B161					6.7	
RKC012-Z1-B162@4-8' 30-Jan-24 4-8' < 0.0218 NA	DIOI	KKC012-Z1-B161@4-8'	30-Jan-24		0.102	3.93	8.17
KKC012-Z1-B162@4-8 30-Jan-24	B162	KKC012-Z1-B162@0-4'	30-Jan-24	0-4'	0.65	NA	NA
RKC012-Z1-B163@4-8' 30-Jan-24 4-8' 0.0226 J NA		KKC012-Z1-B162@4-8'	30-Jan-24			NA	NA
RKC012-Z1-B163@4-8' 30-Jan-24	B163		30-Jan-24	0-4'	5.11	NA	NA
B164		KKC012-Z1-B163@4-8'	30-Jan-24	4-8'	0.0226 J	NA	NA
RKC012-Z1-B165@0-4' 30-Jan-24 4-8' 0.0501 NA NA NA KKC012-Z1-B165@0-4' 30-Jan-24 4-8' 0.102 5.47 6.12	R16/	KKC012-Z1-B164@0-4'	30-Jan-24	0-4'	6.57	NA	NA
RKC012-Z1-B165@4-8' 30-Jan-24 4-8' 0.102 5.47 6.12	DIOT	KKC012-Z1-B164@4-8'	30-Jan-24	4-8'	Mercury Arsenic 0.999 NA 0.0255 J NA 3.45 NA 0.13 NA 0.995 6.7 0.102 3.93 0.65 NA <0.0218	NA	
KKC012-71-B165@4-8' 30-Jan-24 4-8' 0.102 5.47 6.12	R165	KKC012-Z1-B165@0-4'	30-Jan-24	0-4'	2.72	9.5	11.3
RKC012-Z1-B166@4-8' 31-Jan-24 4-8' <0.0212 NA	B103	KKC012-Z1-B165@4-8'	30-Jan-24	4-8'	0.102	5.47	6.12
RKC012-Z1-B166@4-8' 31-Jan-24 4-8' <0.0212 NA	D166	KKC012-Z1-B166@0-4'	31-Jan-24	0-4'	2.33	NA	NA
RKC012-Z1-B167@4-8' 31-Jan-24	B100	KKC012-Z1-B166@4-8'	31-Jan-24	4-8'	<0.0212	NA	NA
RKC012-Z1-B168@0-4' 31-Jan-24 4-8' 0.0249 NA NA NA KKC012-Z1-B168@0-4' 31-Jan-24 4-8' 0.759 NA NA NA KKC012-Z1-B168@0-4' 31-Jan-24 4-8' 0.747 NA NA NA KKC012-Z1-B169@0-4' 31-Jan-24 4-8' 0.747 NA NA NA KKC012-Z1-B169@0-4' 31-Jan-24 4-8' 0.42 NA NA NA KKC012-Z1-B170@0-4' 31-Jan-24 4-8' 0.42 NA NA NA KKC012-Z1-B170@0-4' 31-Jan-24 4-8' 79.7 3.53 32.7 3.53 32.7 SKKC012-Z1-B170@0-4' 21-Mar-24 0-4' 0.09 NA NA NA NA KKC012-Z1-B171@0-4' 21-Mar-24 0-4' 0.09 NA NA NA KKC012-Z1-B171@0-4' 21-Mar-24 0-4' 0.10 3.94 6.51 KKC012-Z1-B172@0-4' 21-Mar-24 0-4' 0.10 3.94 6.51 KKC012-Z1-B173@0-4' 21-Mar-24 0-4' 0.27 NA NA NA KKC012-Z1-B173@0-4' 21-Mar-24 0-4' 0.27 NA NA KKC012-Z1-B173@0-4' 21-Mar-24 0-4' 0.73 NA NA KKC012-Z1-B173@0-4' 21-Mar-24 0-4' 0.73 NA NA KKC012-Z1-B174@0-4' 21-Mar-24 0-4' 0.73 NA NA KKC012-Z1-B175@0-4' 21-Mar-24 0-4' 4.24 4.82 18.3 KKC012-Z1-B175@0-4' 21-Mar-24 0-4' 4.24 4.82 18.3 KKC012-Z1-B176@0-4' 21-Mar-24 0-4' 4.26 30 NA NA NA KKC012-Z1-B176@0-4' 31-Jan-24 0-4' 7.28 NA NA NA KKC012-Z1-B178@0-4' 31-Jan-24 0-4' 0.14 NA NA KKC012-Z1-B178@0-4' 31-Jan-24 0-4' 0.08 NA NA NA KKC012-Z1-B179@0-4' 31-Jan-24 0-4' 6.08 NA NA KKC012-Z1-B179@0-4' 31-Jan-24 0-4' 6.08 NA NA KKC012-Z1-B180@0-4' 31-Jan-24 0-4' 6.08 NA NA	D167	KKC012-Z1-B167@0-4'	31-Jan-24	0-4'	1.39	NA	NA
B168	D107	KKC012-Z1-B167@4-8'	31-Jan-24	4-8'	0.0249 J	NA	NA
RKC012-Z1-B168@4-8' 31-Jan-24 4-8' 0.747 NA NA NA KKC012-Z1-B169@0-4' 31-Jan-24 0-4' 41.1 NA NA NA KKC012-Z1-B169@4-8' 31-Jan-24 4-8' 0.42 NA NA NA RKC012-Z1-B170@0-4' 31-Jan-24 4-8' 0.42 NA NA NA NA RKC012-Z1-B170@0-4' 31-Jan-24 4-8' 79.7 3.53 32.7 3.53 32.7 STANDER	D160	KKC012-Z1-B168@0-4'	31-Jan-24	0-4'	0.759	NA	NA
RKC012-Z1-B169@4-8' 31-Jan-24 4-8' 0.42 NA	B109	KKC012-Z1-B168@4-8'	31-Jan-24	4-8'	0.747	NA	NA
RKC012-Z1-B169@4-8' 31-Jan-24 4-8' 0.42 NA NA	D160	KKC012-Z1-B169@0-4'	31-Jan-24	0-4'	41.1	NA	NA
RKC012-Z1-B170@4-8' 31-Jan-24 4-8' 79.7 3.53 32.7 B171	D103	KKC012-Z1-B169@4-8'	31-Jan-24	4-8'	0.42	NA	NA
B171 KKC012-Z1-B171@0-4' 21-Mar-24 4-8' 79.7 3.53 32.7 B171 KKC012-Z1-B171@0-4' 21-Mar-24 0-4' 0.09 NA NA B172 KKC012-Z1-B171@4-8' NS 4-8' Refusal - No Sample B173 KKC012-Z1-B172@4-8' NS 4-8' Refusal - No Sample B173 KKC012-Z1-B173@0-4' 21-Mar-24 0-4' 0.27 NA NA KKC012-Z1-B173@4-8' NS 4-8' Refusal - No Sample B174 KKC012-Z1-B174@0-4' 21-Mar-24 0-4' 0.73 NA NA B175 KKC012-Z1-B175@0-4' 21-Mar-24 0-4' 4.24 4.82 18.3 B176 KKC012-Z1-B175@0-4' 21-Mar-24 0-4' 4.24 4.82 18.3 B176 KKC012-Z1-B176@0-4' 21-Mar-24 0-4' 26.30 NA NA B177 KKC012-Z1-B176@0-4' 21-Mar-24 0-4' 7.28 NA NA B178 KKC012-Z1-B177@0-4'	D170	KKC012-Z1-B170@0-4'	31-Jan-24	0-4'	3.64	3.16	13.6
Refusal - No Sample RKC012-Z1-B171@4-8' NS	81/0	KKC012-Z1-B170@4-8'	31-Jan-24	4-8'	79.7	3.53	32.7
RKK012-Z1-B171@4-8' NS	D171	KKC012-Z1-B171@0-4'	21-Mar-24	0-4'	0.09	NA	NA
RKC012-Z1-B172@4-8' NS	B1/1	KKC012-Z1-B171@4-8'	NS	4-8'	Refusal - No Sa	ample	
Refusal - No Sample NS 4-8' Refusal - No Sample NS KKC012-Z1-B173@0-4' 21-Mar-24 0-4' 0.27 NA NA NA KKC012-Z1-B173@4-8' NS 4-8' Refusal - No Sample NS NS NS NS NS NS NS N	D172	KKC012-Z1-B172@0-4'	21-Mar-24	0-4'	0.10	3.94	6.51
Refusal - No Sample NS 4-8' Refusal - No Sample NS NS NS NS NS NS NS N	B1/2	KKC012-Z1-B172@4-8'	NS	4-8'	Refusal - No Sa	ample	
RKC012-Z1-B173@4-8' NS	D472	KKC012-Z1-B173@0-4'	21-Mar-24	0-4'	0.27	NA	NA
KKC012-Z1-B174@4-8' NS	B1/3	KKC012-Z1-B173@4-8'	NS	4-8'	Refusal - No Sa	ample	
KKC012-Z1-B174@4-8' NS	D174	KKC012-Z1-B174@0-4'	21-Mar-24	0-4'	0.73	NA	NA
Refusal - No Sample RKC012-Z1-B175@4-8' NS 4-8' Refusal - No Sample RKC012-Z1-B176@0-4' 21-Mar-24 0-4' 26.30 NA NA NA RKC012-Z1-B176@4-8' NS 4-8' Refusal - No Sample RKC012-Z1-B177@0-4' 21-Mar-24 0-4' 7.28 NA NA NA RKC012-Z1-B177@4-8' NS 4-8' Refusal - No Sample RKC012-Z1-B177@4-8' NS 4-8' Refusal - No Sample RKC012-Z1-B178@0-4' 31-Jan-24 0-4' 0.14 NA NA NA RKC012-Z1-B178@4-8' 31-Jan-24 4-8' 0.08 NA NA NA RKC012-Z1-B179@0-4' 31-Jan-24 0-4' 6.08 NA NA NA RKC012-Z1-B179@4-8' 31-Jan-24 4-8' 2.72 NA NA RKC012-Z1-B179@4-8' 31-Jan-24 4-8' 2.72 NA NA NA RKC012-Z1-B180@0-4' 31-Jan-24 4-8' 2.72 NA NA REfusal - No Sample NA NA NA NA NA NA NA N	B1/4	KKC012-Z1-B174@4-8'	NS	4-8'	Refusal - No Sa	ample	•
Refusal - No Sample KKC012-Z1-B175@4-8' NS 4-8' Refusal - No Sample KKC012-Z1-B176@0-4' 21-Mar-24 0-4' 26.30 NA NA NA KKC012-Z1-B176@4-8' NS 4-8' Refusal - No Sample KKC012-Z1-B177@0-4' 21-Mar-24 0-4' 7.28 NA NA NA KKC012-Z1-B177@4-8' NS 4-8' Refusal - No Sample KKC012-Z1-B177@4-8' NS 4-8' Refusal - No Sample KKC012-Z1-B178@0-4' 31-Jan-24 0-4' 0.14 NA NA NA KKC012-Z1-B178@4-8' 31-Jan-24 4-8' 0.08 NA NA NA KKC012-Z1-B179@0-4' 31-Jan-24 0-4' 6.08 NA NA KKC012-Z1-B179@4-8' 31-Jan-24 4-8' 2.72 NA NA KKC012-Z1-B180@0-4' 31-Jan-24 4-8' 2.72 NA NA NA NA NA NA NA N	D4.75	KKC012-Z1-B175@0-4'	21-Mar-24	0-4'	4.24	4.82	18.3
B176 KKC012-Z1-B176@4-8' NS 4-8' Refusal - No Sample	R1/2	KKC012-Z1-B175@4-8'	NS	4-8'	Refusal - No Sa	ample	
Refusal - No Sample KKC012-Z1-B177@0-4' 21-Mar-24 0-4' 7.28 NA NA NA KKC012-Z1-B177@4-8' NS 4-8' Refusal - No Sample NS A-8' Refusal - No Sample NS A-8' Refusal - No Sample NS A-8' A-8' NS A-8'	D476	KKC012-Z1-B176@0-4'	21-Mar-24	0-4'	26.30	NA	NA
Refusal - No Sample RKC012-Z1-B177@4-8' NS 4-8' Refusal - No Sample RKC012-Z1-B178@0-4' 31-Jan-24 0-4' 0.14 NA NA NA RKC012-Z1-B178@4-8' 31-Jan-24 4-8' 0.08 NA NA NA RKC012-Z1-B179@0-4' 31-Jan-24 0-4' 6.08 NA NA RKC012-Z1-B179@4-8' 31-Jan-24 4-8' 2.72 NA NA NA RKC012-Z1-B180@0-4' 31-Jan-24 0-4' 8.51 2.43 14.9	B1/6	KKC012-Z1-B176@4-8'	NS	4-8'	Refusal - No Sa	ample	
Refusal - No Sample RKC012-Z1-B177@4-8' NS 4-8' Refusal - No Sample RKC012-Z1-B178@0-4' 31-Jan-24 0-4' 0.14 NA NA NA RKC012-Z1-B178@4-8' 31-Jan-24 4-8' 0.08 NA NA NA RKC012-Z1-B179@0-4' 31-Jan-24 0-4' 6.08 NA NA RKC012-Z1-B179@4-8' 31-Jan-24 4-8' 2.72 NA NA NA RKC012-Z1-B180@0-4' 31-Jan-24 0-4' 8.51 2.43 14.9			21-Mar-24	0-4'	7.28	NA	NA
B178	B1//						
KKC012-Z1-B178@4-8' 31-Jan-24 4-8' 0.08 NA NA B179 KKC012-Z1-B179@0-4' 31-Jan-24 0-4' 6.08 NA NA KKC012-Z1-B179@4-8' 31-Jan-24 4-8' 2.72 NA NA KKC012-Z1-B180@0-4' 31-Jan-24 0-4' 8.51 2.43 14.9	2470		31-Jan-24	0-4'			NA
B179 KKC012-Z1-B179@0-4' 31-Jan-24 0-4' 6.08 NA NA NA KKC012-Z1-B179@4-8' 31-Jan-24 4-8' 2.72 NA NA NA KKC012-Z1-B180@0-4' 31-Jan-24 0-4' 8.51 2.43 14.9	R1/8			4-8'	ł		
B179 KKC012-Z1-B179@4-8' 31-Jan-24 4-8' 2.72 NA NA B180 KKC012-Z1-B180@0-4' 31-Jan-24 0-4' 8.51 2.43 14.9	5.170						
B180 KKC012-Z1-B180@0-4' 31-Jan-24 0-4' 8.51 2.43 14.9	B179						
8180	2122						
KKC012-Z1-B180@4-8' 31-Jan-24 4-8' 0.20 1.60 J 5.29	B180	KKC012-Z1-B180@4-8'		4-8'			

Sample Location Sample ID Date Depth Mercury Arsenic Lead	Table 2. Summary of Analytical Results - Zone 1						
B181	Sample Location	Sample ID	Date	Donth	Me		
B181	Sample Location	Sample 10	Date		•	Arsenic	Lead
B182 KKC012-Z1-B182@4-8' NS	R121						NA
B182 KKC012-Z1-B182@4-8' 31-Jan-24 4-8' 0.16		KKC012-Z1-B181@4-8'	NS		Refusal - No Sa	ample	T
KKC012-Z1-B183@0-4' 31-Jan-24 4-8' 0.16 NA	R182	KKC012-Z1-B182@0-4'	31-Jan-24	0-4'	1.93	NA	NA
B183	DIOZ	KKC012-Z1-B182@4-8'	31-Jan-24	4-8'	0.16	NA	NA
RKC012-Z1-B183@0-4* 31-Jan-24	R183	KKC012-Z1-B183@0-4'	31-Jan-24	0-4'	7.68	NA	NA
B184	D103	KKC012-Z1-B183@4-8'	31-Jan-24	4-8'	0.45	NA	NA
KKC012-71-B184@4-8' 31-Jan-24	B18/I	KKC012-Z1-B184@0-4'	31-Jan-24	0-4'	3.70	NA	NA
B185 KKC012-Z1-B185@4-8' 31-Jan-24 4-8' 0.05	DIOT	KKC012-Z1-B184@4-8'	31-Jan-24	4-8'	1.69	NA	NA
RKC012-Z1-B185@4-8' 31-Jan-24	R185	KKC012-Z1-B185@0-4'	31-Jan-24	0-4'	21.70	NA	NA
B186	B103	KKC012-Z1-B185@4-8'	31-Jan-24	4-8'	Mercury Arsenio 1.00 NA Refusal - No Sample 1.93 1.93 NA 0.16 NA 7.68 NA 0.45 NA 3.70 NA 1.69 NA 21.70 NA 0.05 NA 23.30 2.84 0.60 2.22 J 0.28 NA 0.050 J NA 0.81 NA 0.050 J NA 0.81 NA 0.050 J NA 0.81 NA 0.050 J NA 0.86 NA 0.12 NA 2.67 7.11 0.13 11.3 2.29 NA 0.18 NA 4.29 NA 0.23 NA 1.54 7.15 0.82 7.26 4.48 NA 0.25	NA	NA
RKC012-Z1-B186@4-8' 30-Jan-24 4-8' 0.60 2.22 J 7.36 RKC012-Z1-B187@0-4' 30-Jan-24 0-4' 0.28 NA	D106	KKC012-Z1-B186@0-4'	30-Jan-24	0-4'	23.30	2.84	16.7
KKC012-Z1-B187@4-8' 30-Jan-24 4-8' 0.050 J NA	D100	KKC012-Z1-B186@4-8'	30-Jan-24	4-8'	Mercury	2.22 J	7.36
RKC012-71-B187@4-8' 30-Jan-24 4-8' 0.050 NA	D107	KKC012-Z1-B187@0-4'	30-Jan-24	0-4'	0.28	NA	NA
RKC012-Z1-B188@4-8' 30-Jan-24	B187	KKC012-Z1-B187@4-8'	30-Jan-24	4-8'	0.050 J F	NA	NA
RKC012-Z1-B188@4-8' 30-Jan-24 4-8' <0.210 NA NA NA NA KKC012-Z1-B189@0-4' 30-Jan-24 4-8' 0.12 NA NA NA NA KKC012-Z1-B189@4-8' 30-Jan-24 4-8' 0.12 NA NA NA KKC012-Z1-B190@0-4' 30-Jan-24 4-8' 0.13 11.3 9.11 13.2 KKC012-Z1-B190@4-8' 30-Jan-24 4-8' 0.13 11.3 9.11 MKC012-Z1-B191@0-4' 30-Jan-24 4-8' 0.18 NA NA NA NA KKC012-Z1-B191@4-8' 30-Jan-24 4-8' 0.18 NA NA NA NA NA KKC012-Z1-B192@0-4' 30-Jan-24 4-8' 0.23 NA NA NA NA KKC012-Z1-B192@0-4' 30-Jan-24 4-8' 0.23 NA NA NA NA KKC012-Z1-B193@0-4' 30-Jan-24 4-8' 0.23 NA NA NA NA NA MA MA MA	D100	KKC012-Z1-B188@0-4'	30-Jan-24	0-4'	0.81	NA	NA
RKC012-Z1-B189@4-8' 30-Jan-24 4-8' 0.12 NA	B188	KKC012-Z1-B188@4-8'	30-Jan-24	4-8'	<0.210	NA	NA
RKC012-Z1-B189@4-8' 30-Jan-24 4-8' 0.12 NA NA	D4.00	KKC012-Z1-B189@0-4'	30-Jan-24	0-4'	6.86	NA	NA
B190	B189	KKC012-Z1-B189@4-8'	30-Jan-24	4-8'	0.12	NA	NA
RKC012-Z1-B190@4-8' 30-Jan-24 4-8' 0.13 11.3 9.11	5400	KKC012-Z1-B190@0-4'	30-Jan-24	0-4'	2.67	7.11	13.2
B191	B190	KKC012-Z1-B190@4-8'	30-Jan-24	4-8'	0.13		9.11
KKC012-Z1-B191@4-8' 30-Jan-24 4-8' 0.18	5101	_	30-Jan-24	0-4'	2.29	NA	NA
B192 KKC012-Z1-B192@0-4' 30-Jan-24 0-4' 4.29 NA NA NA KKC012-Z1-B192@4-8' 30-Jan-24 4-8' 0.23 NA NA NA NA SKC012-Z1-B193@0-4' 30-Jan-24 0-4' 1.54 7.15 12.2 KKC012-Z1-B193@4-8' 30-Jan-24 4-8' 0.82 7.26 7.93 NA NA NA NA NA NA KKC012-Z1-B194@0-4' 30-Jan-24 0-4' 4.48 NA NA NA KKC012-Z1-B194@4-8' 30-Jan-24 4-8' 2.27 NA NA NA NA NA NA NA N	B191			4-8'	+	1	
B193 KKC012-Z1-B193@0-4' 30-Jan-24 4-8' 0.23 NA NA B193 KKC012-Z1-B193@0-4' 30-Jan-24 0-4' 1.54 7.15 12.2 KKC012-Z1-B193@4-8' 30-Jan-24 4-8' 0.82 7.26 7.93 B194 KKC012-Z1-B194@0-4' 30-Jan-24 0-4' 4.48 NA NA KKC012-Z1-B194@4-8' 30-Jan-24 4-8' 2.27 NA NA B195 KKC012-Z1-B195@0-4' 30-Jan-24 0-4' 7.83 J3 V 9.27 18.6 KKC012-Z1-B195@4-8' 30-Jan-24 4-8' 0.35 18.4 9.54 B196 KKC012-Z1-B196@0-4' 30-Jan-24 0-4' 0.74 NA NA KKC012-Z1-B196@4-8' 30-Jan-24 4-8' 0.25 NA NA B197 KKC012-Z1-B197@4-8' 30-Jan-24 4-8' 0.13 NA NA B198 KKC012-Z1-B198@0-4' 30-Jan-24 4-8' 0.323 J 9.86 6.7 B199<	5400	_	30-Jan-24	0-4'	4.29	NA	NA
B193 KKC012-Z1-B193@0-4' 30-Jan-24 0-4' 1.54 7.15 12.2	B192		30-Jan-24	4-8'	0.23	NA	NA
RKC012-Z1-B193@4-8' 30-Jan-24 4-8' 0.82 7.26 7.93 B194	5400		30-Jan-24	0-4'	1.54	7.15	12.2
RKC012-Z1-B194@4-8' 30-Jan-24 4-8' 2.27 NA	B193	KKC012-Z1-B193@4-8'	30-Jan-24	4-8'	0.82	7.26	7.93
RKC012-Z1-B194@4-8' 30-Jan-24 4-8' 2.27 NA	5404	KKC012-Z1-B194@0-4'	30-Jan-24	0-4'	4.48	NA	NA
RKC012-Z1-B195@0-4' 30-Jan-24 0-4' 7.83 J3 V 9.27 18.6	B194	KKC012-Z1-B194@4-8'	30-Jan-24	4-8'	2.27	NA	NA
KKC012-Z1-B195@4-8' 30-Jan-24 4-8' 0.35 18.4 9.54 B196 KKC012-Z1-B196@0-4' 30-Jan-24 0-4' 0.74 NA NA KKC012-Z1-B196@4-8' 30-Jan-24 4-8' 0.25 NA NA B197 KKC012-Z1-B197@0-4' 30-Jan-24 0-4' 3.84 NA NA KKC012-Z1-B197@4-8' 30-Jan-24 4-8' 0.13 NA NA B198 KKC012-Z1-B198@0-4' 30-Jan-24 0-4' 3.01 J3 V 6.03 9.54 KKC012-Z1-B198@4-8' 30-Jan-24 4-8' 0.323 J 9.86 6.7 B199 KKC012-Z1-B199@0-4' 30-Jan-24 0-4' 3.54 NA NA B200 KKC012-Z1-B199@4-8' 30-Jan-24 4-8' 0.07 NA NA B201 KKC012-Z1-B200@0-4' 30-Jan-24 4-8' 0.21 NA NA KKC012-Z1-B201@0-4' 31-Jan-24 0-4' 8.05 NA NA KKC012-Z1-B201@4-8' <td>5405</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	5405						
B196 KKC012-Z1-B196@0-4' 30-Jan-24 0-4' 0.74 NA NA B197 KKC012-Z1-B196@4-8' 30-Jan-24 4-8' 0.25 NA NA KKC012-Z1-B197@0-4' 30-Jan-24 0-4' 3.84 NA NA KKC012-Z1-B197@4-8' 30-Jan-24 4-8' 0.13 NA NA B198 KKC012-Z1-B198@0-4' 30-Jan-24 0-4' 3.01 J3 V 6.03 9.54 KKC012-Z1-B198@4-8' 30-Jan-24 4-8' 0.323 J 9.86 6.7 B199 KKC012-Z1-B199@0-4' 30-Jan-24 0-4' 3.54 NA NA KKC012-Z1-B199@4-8' 30-Jan-24 4-8' 0.07 NA NA B200 KKC012-Z1-B200@0-4' 30-Jan-24 0-4' 13.20 NA NA B201 KKC012-Z1-B201@0-4' 31-Jan-24 0-4' 8.05 NA NA KKC012-Z1-B201@0-4' 31-Jan-24 4-8' 0.10 NA NA KKC012-Z1-B202	B195	KKC012-Z1-B195@4-8'		4-8'		18.4	9.54
RKC012-Z1-B196@4-8' 30-Jan-24 4-8' 0.25 NA	5100			0-4'	0.74	1	
B197	B196			4-8'	+	1	
B197 KKC012-Z1-B197@4-8' 30-Jan-24 4-8' 0.13 NA	D407					1	
B198	B19/				†	1	
R198	5.100					1	
B199	B198						
B199 KKC012-Z1-B199@4-8' 30-Jan-24 4-8' 0.07 NA NA B200 KKC012-Z1-B200@0-4' 30-Jan-24 0-4' 13.20 NA NA KKC012-Z1-B200@4-8' 30-Jan-24 4-8' 0.21 NA NA B201 KKC012-Z1-B201@0-4' 31-Jan-24 0-4' 8.05 NA NA KKC012-Z1-B201@4-8' 31-Jan-24 4-8' 0.10 NA NA KKC012-Z1-B201@4-8' 31-Jan-24 4-8' 0.10 NA NA KKC012-Z1-B202@0-4' 31-Jan-24 0-4' 6.39 2.39 12.8	B199				+	1	
B200 KKC012-Z1-B200@0-4' 30-Jan-24 0-4' 13.20 NA NA KKC012-Z1-B200@4-8' 30-Jan-24 4-8' 0.21 NA NA B201 KKC012-Z1-B201@0-4' 31-Jan-24 0-4' 8.05 NA NA KKC012-Z1-B201@4-8' 31-Jan-24 4-8' 0.10 NA NA KKC012-Z1-B202@0-4' 31-Jan-24 0-4' 6.39 2.39 12.8					†	1	
B200 KKC012-Z1-B200@4-8' 30-Jan-24 4-8' 0.21 NA NA B201 KKC012-Z1-B201@0-4' 31-Jan-24 0-4' 8.05 NA NA KKC012-Z1-B201@4-8' 31-Jan-24 4-8' 0.10 NA NA KKC012-Z1-B202@0-4' 31-Jan-24 0-4' 6.39 2.39 12.8	B200						
B201 KKC012-Z1-B201@0-4' 31-Jan-24 0-4' 8.05 NA NA NA KKC012-Z1-B201@4-8' 31-Jan-24 4-8' 0.10 NA NA NA KKC012-Z1-B202@0-4' 31-Jan-24 0-4' 6.39 2.39 12.8							
KKC012-Z1-B201@4-8' 31-Jan-24 4-8' 0.10 NA NA KKC012-Z1-B202@0-4' 31-Jan-24 0-4' 6.39 2.39 12.8							
KKC012-71-B202@0-4' 31-Jan-24 0-4' 6.39 2.39 12.8	B201						
DOOD 1					†	1	
B202 KKC012-Z1-B202@4-8' 31-Jan-24 4-8' 0.56 1.52 6.19	B202						

	Table 2. Summary of Analytical Results - Zone 1						
Sample Location	Sample ID	Date	Depth	Met	tals (mg/kg)		
Sample Location	Sample 1D	Date	Depth	Mercury	Arsenic	Lead	
B203	KKC012-Z1-B203@0-4'	31-Jan-24	0-4'	7.46	NA	NA	
D203	KKC012-Z1-B203@4-8'	31-Jan-24	4-8'	0.0811 J5 O1	NA NA 2.06 1.27 NA NA 3.93	NA	
B204	KKC012-Z1-B204@0-4'	31-Jan-24	0-4'	4.17	2.06	9.27	
D204	KKC012-Z1-B204@4-8'	31-Jan-24	4-8'	<0.0193	NA N	5.62	
B205	KKC012-Z1-B205@0-4'	31-Jan-24	0-4'	169	NA	NA	
6203	KKC012-Z1-B205@4-8'	31-Jan-24	4-8'	0.94	NA	NA	
B206	KKC012-Z1-B206@0-4'	31-Jan-24	0-4'	22.10	3.93	40.7	
B200	KKC012-Z1-B206@4-8'	NS	4-8'	Refusal - No Sa	NA		
B207	KKC012-Z1-B207@0-4'	31-Jan-24	0-4'	0.54	NA	NA	
B2U7	KKC012-Z1-B207@4-8'	31-Jan-24	4-8'	0.0225 J	NA	NA	
B208	KKC012-Z1-B208@0-4'	31-Jan-24	0-4'	0.89	NA	NA	
D2U0	KKC012-Z1-B208@4-8'	31-Jan-24	4-8'	0.0394 J	NA	NA	
B209	KKC012-Z1-B209@0-4'	31-Jan-24	0-4'	0.37	NA	NA	
B209	KKC012-Z1-B209@4-8'	31-Jan-24	4-8'	0.05	NA 2.06 1.27 NA NA NA 3.93 Sample NA NA NA NA NA NA NA NA NA N	NA	
B210	KKC012-Z1-B210@0-4'	30-Jan-24	0-4'	7.20	3.65	7.88	
B210	KKC012-Z1-B210@4-8'	30-Jan-24	4-8'	1.34	2.46	5.6	
B211	KKC012-Z1-B211@0-4'	30-Jan-24	0-4'	26.5	NA	NA	
DZII	KKC012-Z1-B211@4-8'	30-Jan-24	4-8'	0.459	NA NA 2.06 1.27 NA NA 3.93 ample NA	NA	
B212	KKC012-Z1-B212@0-4'	30-Jan-24	0-4'	2.36	NA	NA	
DZIZ	KKC012-Z1-B212@4-8'	30-Jan-24	4-8'	0.195	NA	NA	
B213	KKC012-Z1-B213@0-4'	30-Jan-24	0-4'	6.14	NA	NA	
D213	KKC012-Z1-B213@4-8'	30-Jan-24	4-8'	0.303	3.93 o Sample NA	NA	
B214	KKC012-Z1-B214@0-4'	30-Jan-24	0-4'	2.18	NA	NA	
DZ14	KKC012-Z1-B214@4-8'	30-Jan-24	4-8'	0.0634	NA	NA	
EPA RSL (Commercia	EPA RSL (Commercial Soils)				3.0	800	
EPA RSL (Residentia	EPA RSL (Residential)				0.69	200	

mg/kg	milligram per kilogram
RSL	Environmental Protection Agency Regional Screening Level
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
01	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures
V	The sample concentration is too high to evaluate accurate spike recoveries.
NA	Not Analyzed
NS	Not sampled

^{*} Exceedance of the arsenic RSLs are not called out within the table as regional background concentrations are known to be well above RSLs

Sierra Reflections Subdivision - RAP Page 1 of 1

Table 3. Summary of Analytical Results - Zone 2						
Sample Location	Sample ID	Date	Mercury (mg/kg)			
S1	KKC012-Z2-S1-L	26-Jan-24	0.455 J6			
31	KKC012-Z2-S1-U	26-Jan-24	1.46			
S2	KKC012-Z2-S2-L	26-Jan-24	0.492			
32	KKC012-Z2-S2-U	26-Jan-24	<0.0201			
S3	KKC012-Z2-S3-L	26-Jan-24	0.264			
33	KKC012-Z2-S3-U	26-Jan-24	1.53			
S4	KKC012-Z2-S4-L	26-Jan-24	9.98			
34	KKC012-Z2-S4-U	26-Jan-24	0.823			
S5	KKC012-Z2-S5-L	26-Jan-24	14.3			
35	KKC012-Z2-S5-U	26-Jan-24	52.2			
S6	KKC012-Z2-S6-L	26-Jan-24	0.866			
30	KKC012-Z2-S6-U	26-Jan-24	0.455			
S7	KKC012-Z2-S7-L	26-Jan-24	0.168			
3/	KKC012-Z2-S7-U	26-Jan-24	2.17			
CO	KKC012-Z2-S8-L	26-Jan-24	2.03			
S8	KKC012-Z2-S8-U	26-Jan-24	0.336			
60	KKC012-Z2-S9-L	26-Jan-24	4.97			
S9	KKC012-Z2-S9-U	26-Jan-24	0.255			
640	KKC012-Z2-S10-L	26-Jan-24	0.284			
S10	KKC012-Z2-S10-U	26-Jan-24	0.173			
644	KKC012-Z2-S11-L	26-Jan-24	0.479			
S11	KKC012-Z2-S11-U	26-Jan-24	4.42			
642	KKC012-Z2-S12-L	2-Feb-24	3.53			
S12	KKC012-Z2-S12-U	2-Feb-24	0.818			
640	KKC012-Z2-S13-L	2-Feb-24	11.5			
S13	KKC012-Z2-S13-U	2-Feb-24	9.34			
64.4	KKC012-Z2-S14-L	2-Feb-24	2.55			
S14	KKC012-Z2-S14-U	2-Feb-24	2.7			
C4.F	KKC012-Z2-S15-L	2-Feb-24	4.01			
S15	KKC012-Z2-S15-U	2-Feb-24	0.191			
546	KKC012-Z2-S16-L	2-Feb-24	2.73			
S16	KKC012-Z2-S16-U	2-Feb-24	0.575			
647	KKC012-Z2-S17-L	2-Feb-24	10.5			
S17	KKC012-Z2-S17-U	2-Feb-24	13.9			
C40	KKC012-Z2-S18-L	2-Feb-24	7.2			
S18	KKC012-Z2-S18-U	2-Feb-24	10.1			
C10	KKC012-Z2-S19-L	2-Feb-24	19.1			
S19	KKC012-Z2-S19-U	2-Feb-24	80.4			
630	KKC012-Z2-S20-L	2-Feb-24	15.6			
S20	KKC012-Z2-S20-U	2-Feb-24	130			
624	KKC012-Z2-S21-L	2-Feb-24	2.58			
S21	KKC012-Z2-S21-U	2-Feb-24	311			
622	KKC012-Z2-S22-L	2-Feb-24	0.181			
S22	KKC012-Z2-S22-U	2-Feb-24	1.59			
600	KKC012-Z2-S23-L	2-Feb-24	0.0392 J			
S23	KKC012-Z2-S23-U	2-Feb-24	0.0508			
EPA RSL (Commerci			30			
EPA RSL (Residentia	nl)		7.1			

mg/kg miligram per kilogram

RSL Environmental Protection Agency Regional Screening Level

The identification of the analyte is acceptable; the reported value is an estimate.

 $\label{thm:continuous} The sample \ matrix \ interfered \ with \ the \ ability \ to \ make \ any \ accurate \ determination; \ spike \ value \ is \ low$

J6

	Table 4. Summary of Analytical Results - Zone 3				
Sample Location	Sample ID	Date	Mercury (mg/kg)		
S1	KKC012-Z3-S1	19-Jan-24	0.424		
S2	KKC012-Z3-S2	19-Jan-24	0.558		
S3	KKC012-Z3-S3	19-Jan-24	0.483		
S4	KKC012-Z3-S4	19-Jan-24	0.981		
S5	KKC012-Z3-S5	19-Jan-24	0.154		
S6	KKC012-Z3-S6	25-Jan-24	0.0269		
S7	KKC012-Z3-S7	25-Jan-24	0.068		
\$8	KKC012-Z3-S8	25-Jan-24	0.0543		
S9	KKC012-Z3-S9	25-Jan-24	0.994		
S10	KKC012-Z3-S10	25-Jan-24	0.359		
S11	KKC012-Z3-S11	25-Jan-24	0.239		
S12	KKC012-Z3-S12	25-Jan-24	0.0549		
S13	KKC012-Z3-S13	25-Jan-24	0.0504		
S14	KKC012-Z3-S14	25-Jan-24	0.183		
S15	KKC012-Z3-S15	25-Jan-24	0.14 B		
S16	KKC012-Z3-S16	25-Jan-24	0.212 B		
S17	KKC012-Z3-S17	25-Jan-24	0.434		
S18	KKC012-Z3-S18	25-Jan-24	0.491		
S19	KKC012-Z3-S19	25-Jan-24	0.0463 B		
S20	KKC012-Z3-S20	25-Jan-24	1.4		
S21	KKC012-Z3-S21	25-Jan-24	0.374 O1		
S22	KKC012-Z3-S22	25-Jan-24	0.778		
S23	KKC012-Z3-S23	25-Jan-24	1.19		
EPA RSL (Commerci	ial)		30		
EPA RSL (Residentia	al)		7.1		

mg/kg miligram per kilogram

RSL Environmental Protection Agency Regional Screening Level

B The same analyte is found in the associated blank.

The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures

O1 indicate matrix interference.

Table 5. Summary of Analytical Results					
Sample Location	Sample ID	Date	Mercury (mg/kg)	Arsenic (mg/kg)	Lead (mg/kg)
B215	KKC012-B215@4FT	3/4/2025	9.39	NA	NA
B216	KKC012-B216@4FT	3/4/2025	4.90	NA	NA
B217	KKC012-B217@4FT	3/4/2025	0.238	NA	NA
B218	KKC012-B218@4FT	3/13/2025	7.62	NA	NA
B219	KKC012-B219@4FT	3/13/2025	3.89	NA	NA
B220	KKC012-B220@4FT	3/4/2025	7.33	NA	NA
B221	KKC012-B221@4FT	3/4/2025	11.5	NA	NA
B222	KKC012-B222@4FT	3/4/2025	4.97	NA	NA
B223	KKC012-B223@4FT	3/4/2025	48.5	NA	NA
B224	KKC012-B224@4FT	3/4/2025	19.4	NA	NA
B225	KKC012-B225@4FT	3/4/2025	56.0	NA	NA
B226	KKC012-B226@4FT	3/4/2025	12.8	NA	NA
B227	KKC012-B227@4FT	3/4/2025	27.3	NA	NA
B228	KKC012-B228@4FT	3/4/2025	9.20	NA	NA
B229	KKC012-B229@4FT	3/4/2025	1.63	NA	NA
B230	KKC012-B230@4FT	3/4/2025	3.43	NA	NA
B231	KKC012-B231@4FT	3/5/2025	0.84	NA	NA
B232	KKC012-B232@4FT	3/5/2025	<0.0415	NA	NA
B233	KKC012-B233@4FT	3/5/2025	<0.0431	NA	NA
B234	KKC012-B234@4FT	3/5/2025	0.109	NA	NA
B235	KKC012-B235@4FT	3/5/2025	1.01	NA	NA
B236	KKC012-B236@4FT	3/5/2025	0.545	NA	NA
B237	KKC012-B237@4FT	3/5/2025	0.607	NA	NA
B238	KKC012-B238@4FT	3/5/2025	NA	22.2	48.5
B239	KKC012-B239@4FT	3/5/2025	NA	11.4	68.6
B241	KKC012-B241@3FT	3/13/2025	8.60	NA	NA
B242	KKC012-B242@4FT	3/13/2025	3.17	NA	NA
B243	KKC012-B243@4FT	3/13/2025	2.89	NA	NA
B244	KKC012-B244@4FT	3/13/2025	0.704	NA	NA
EPA RSL (Commercial)			30	3.0	800
EPA RSL (Residential)			7.1	0.68	200

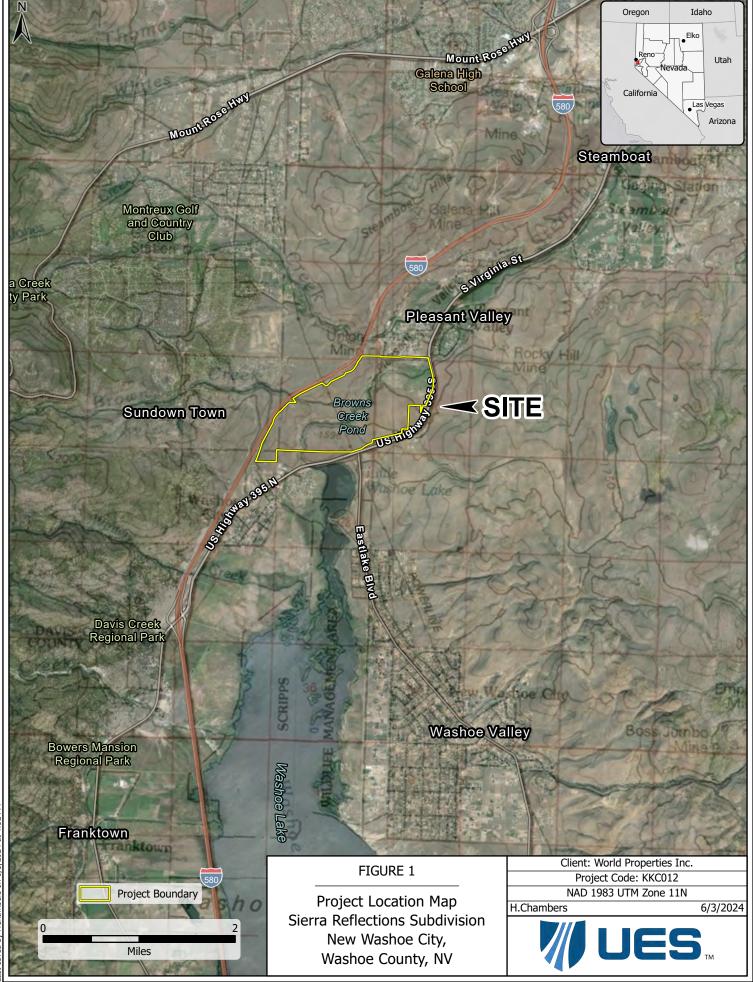
mg/kg miligrams per kilogram
NA not analyzed

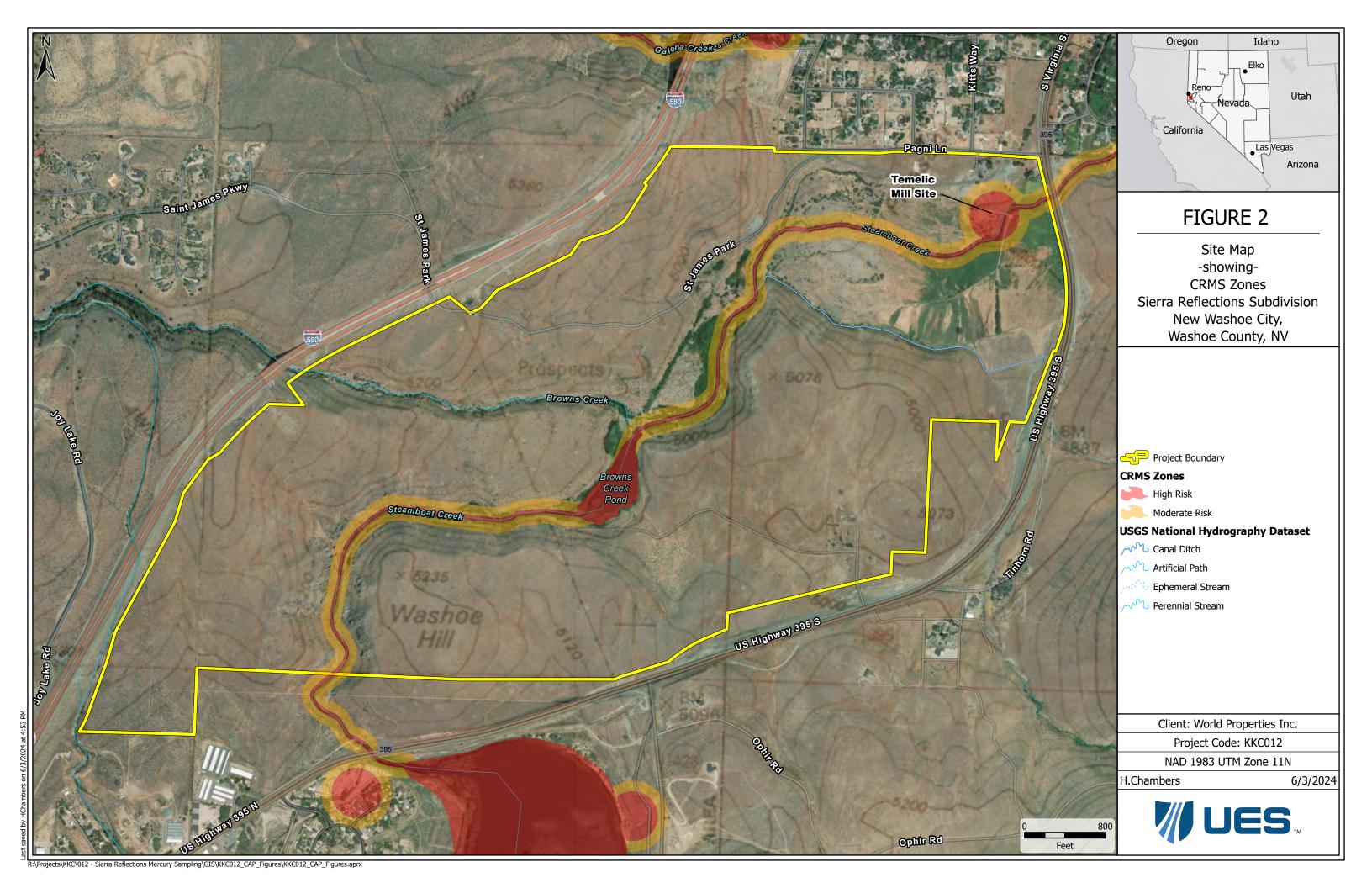
EPA RSL Environmental Protection Agency Regional Screening Level

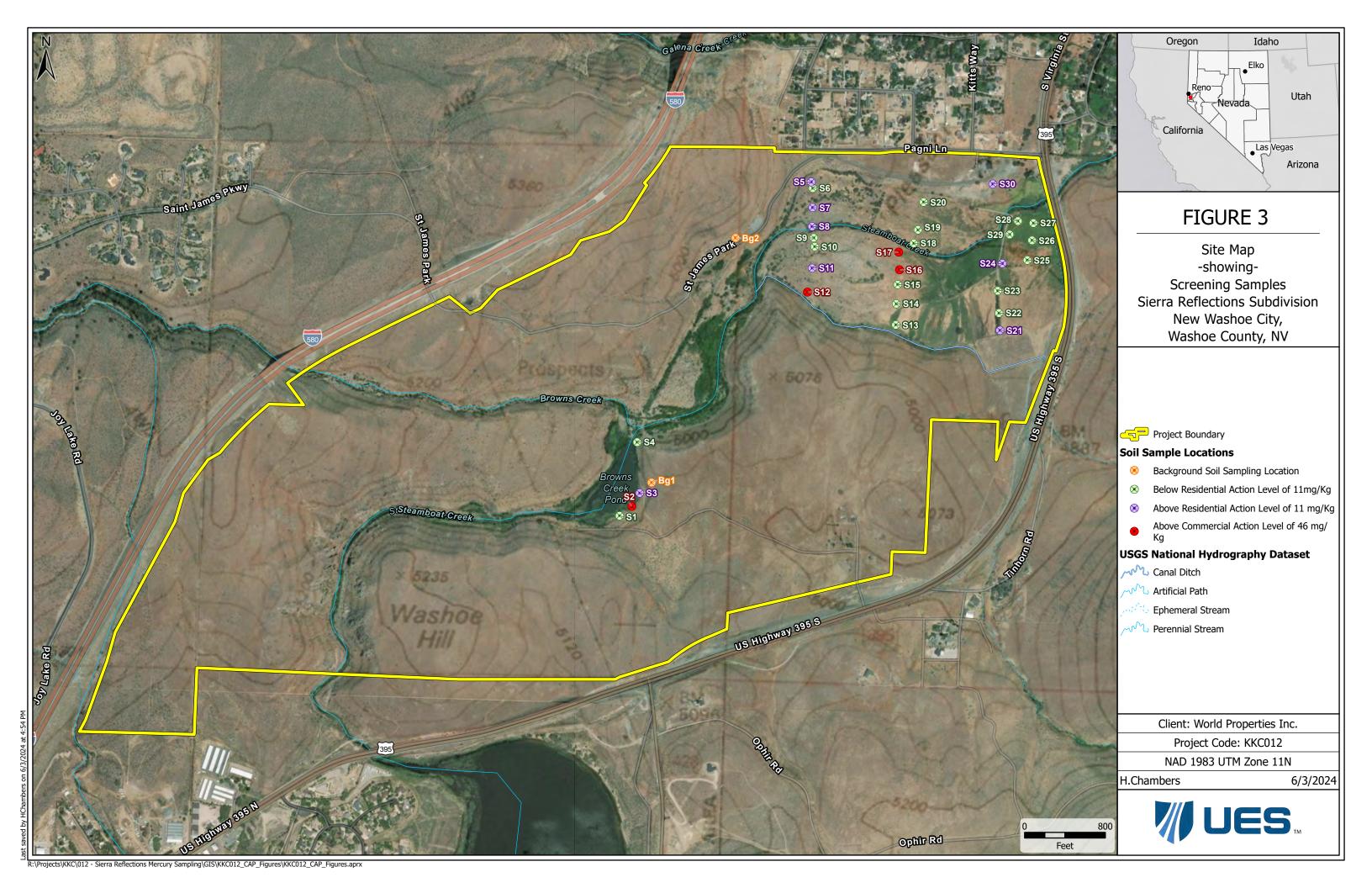


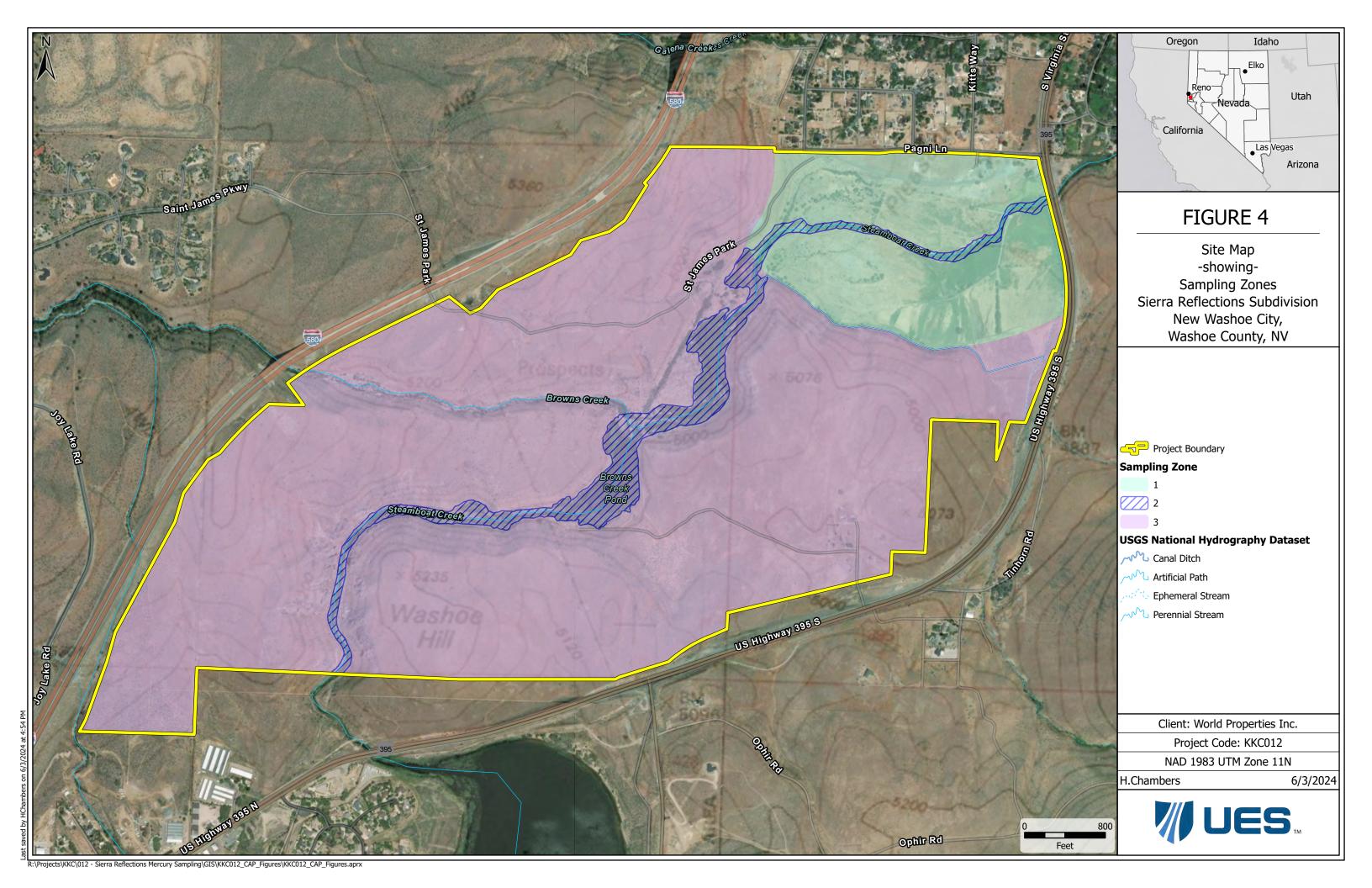
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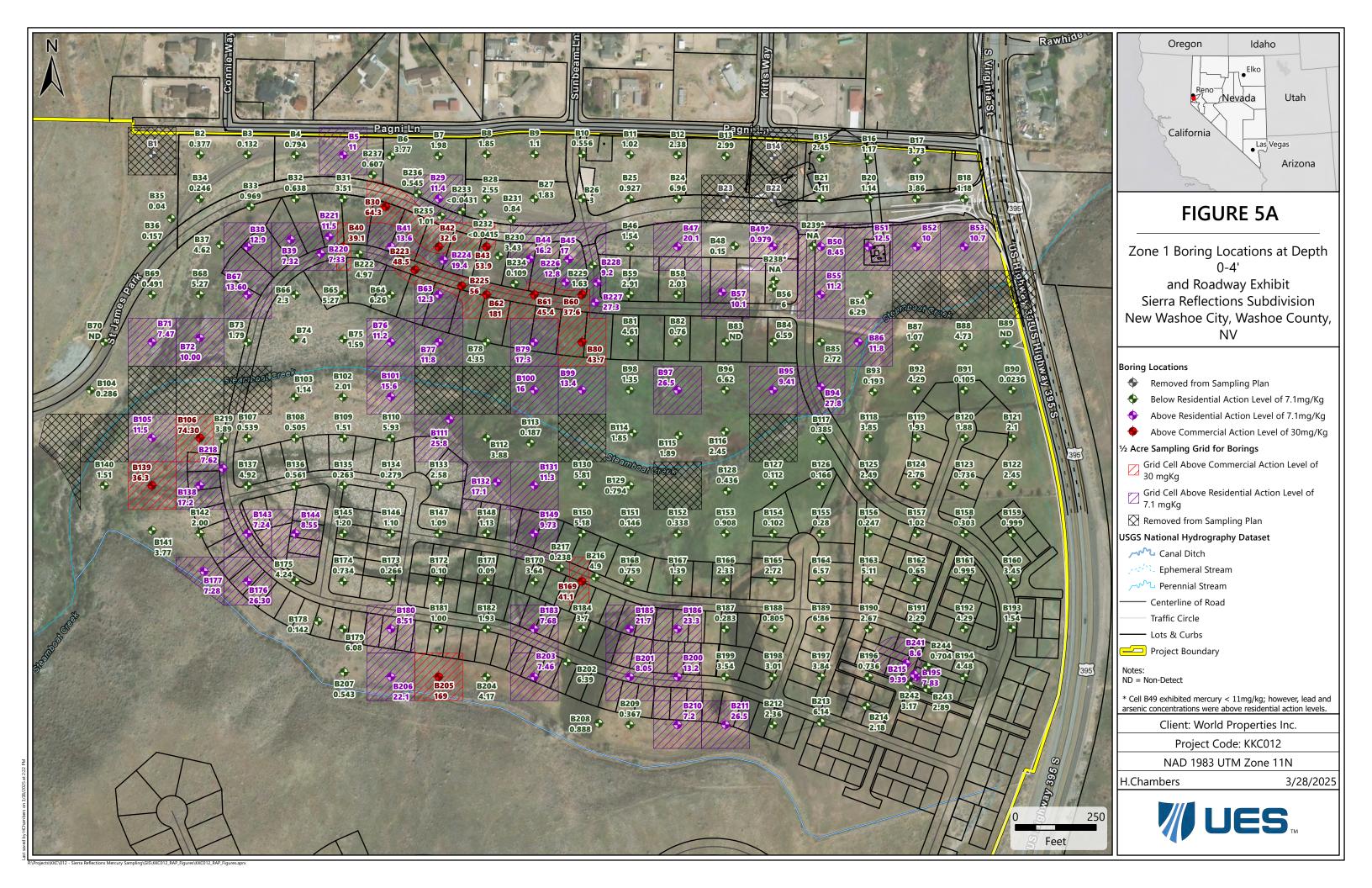
FIGURES

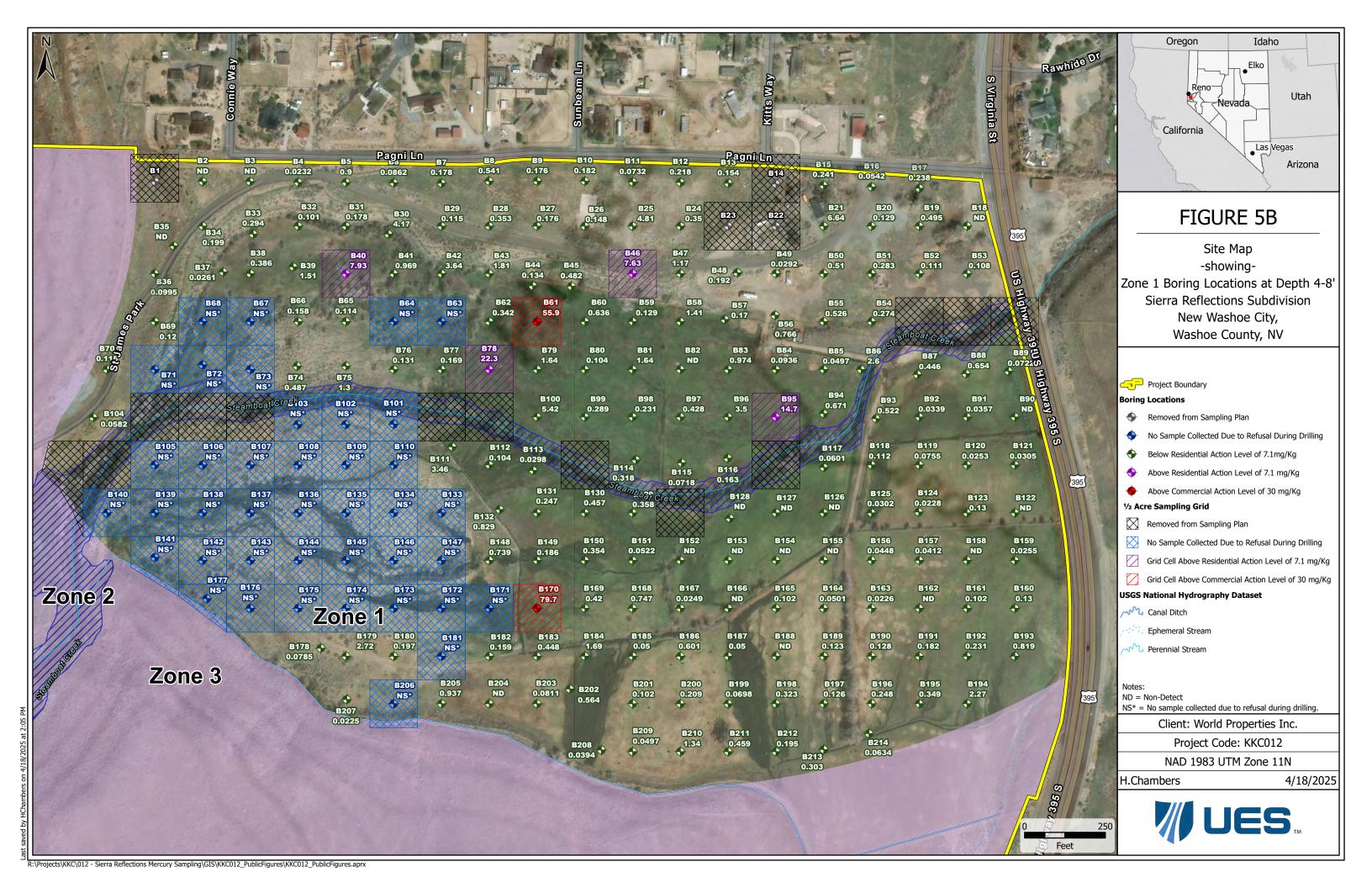








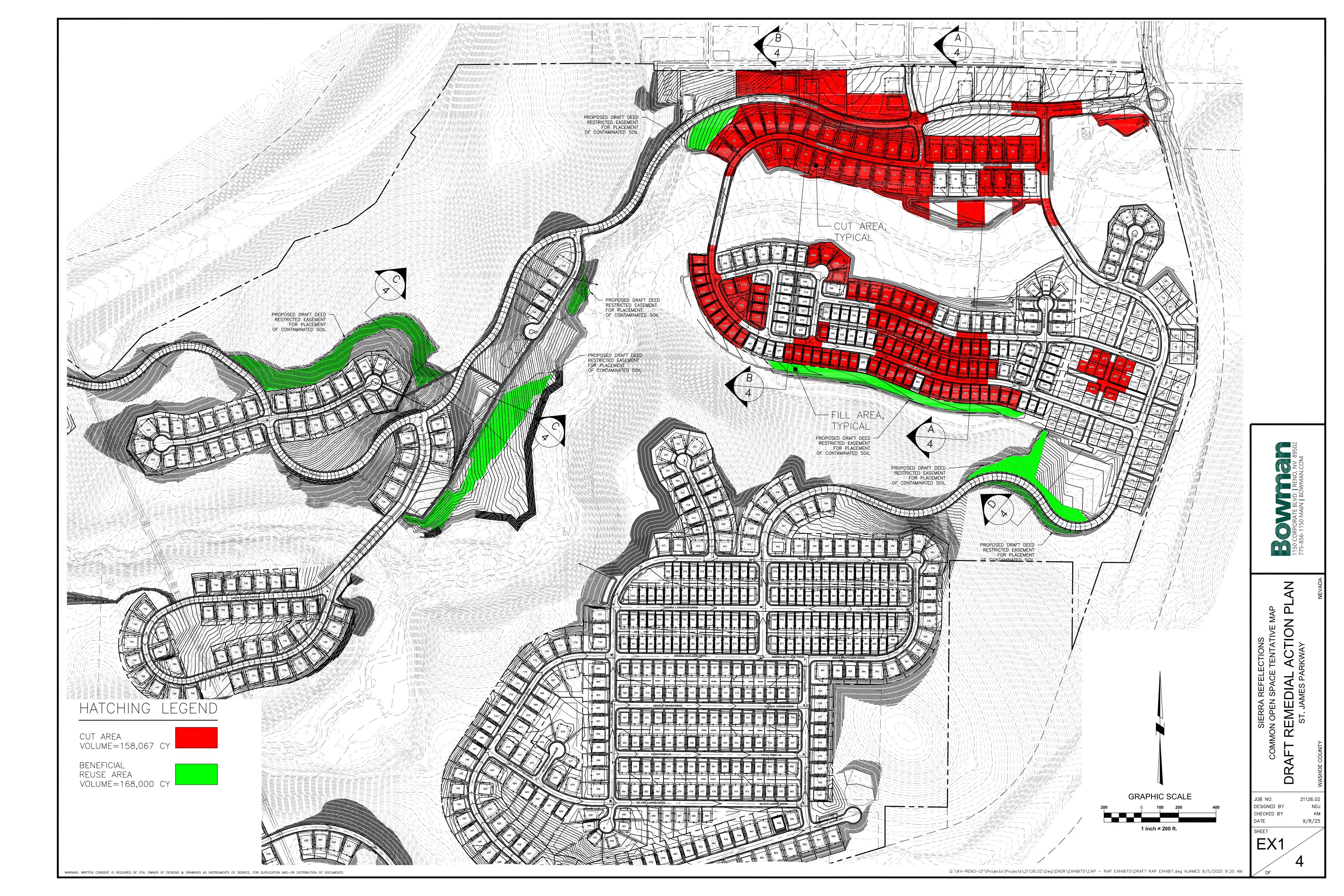


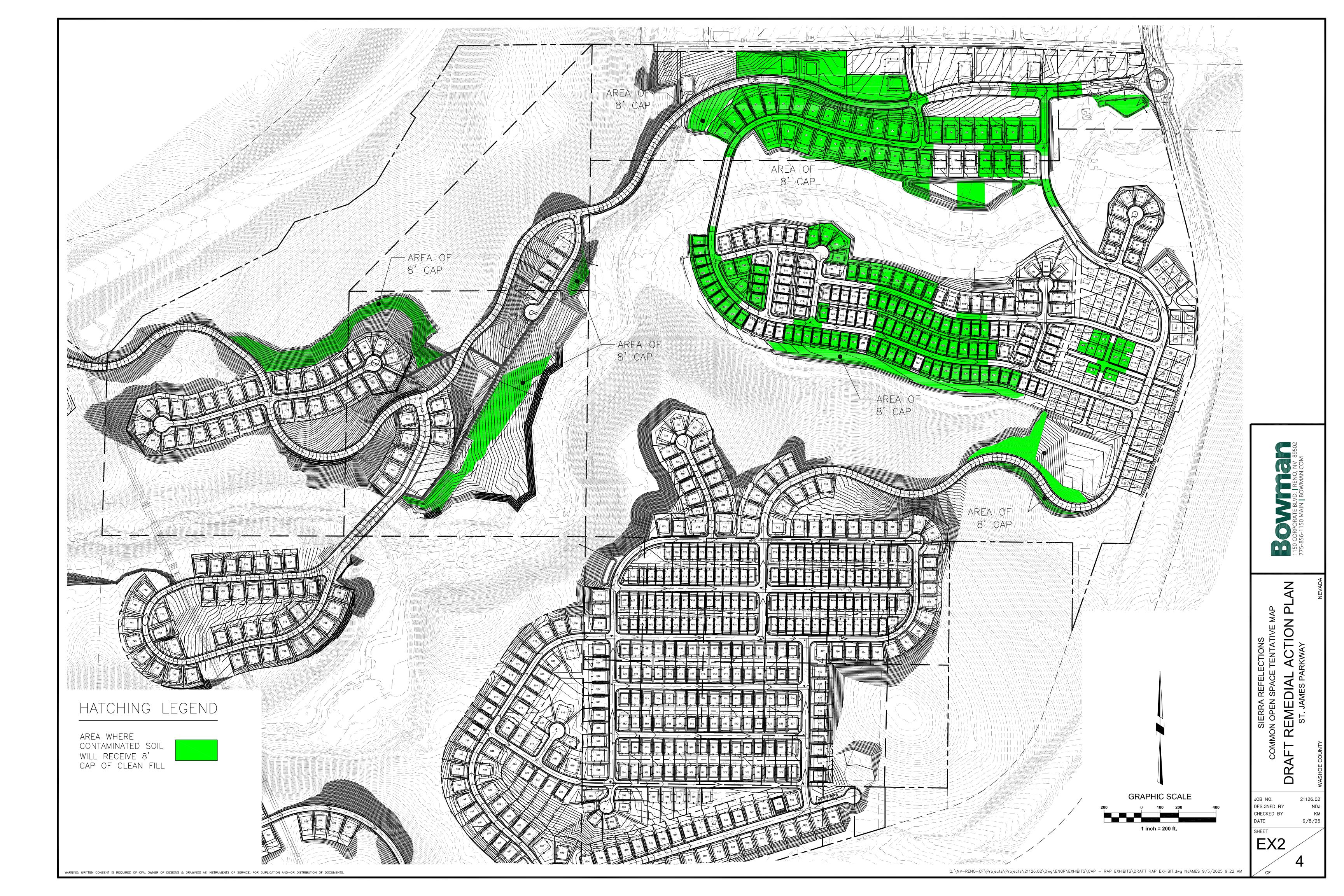


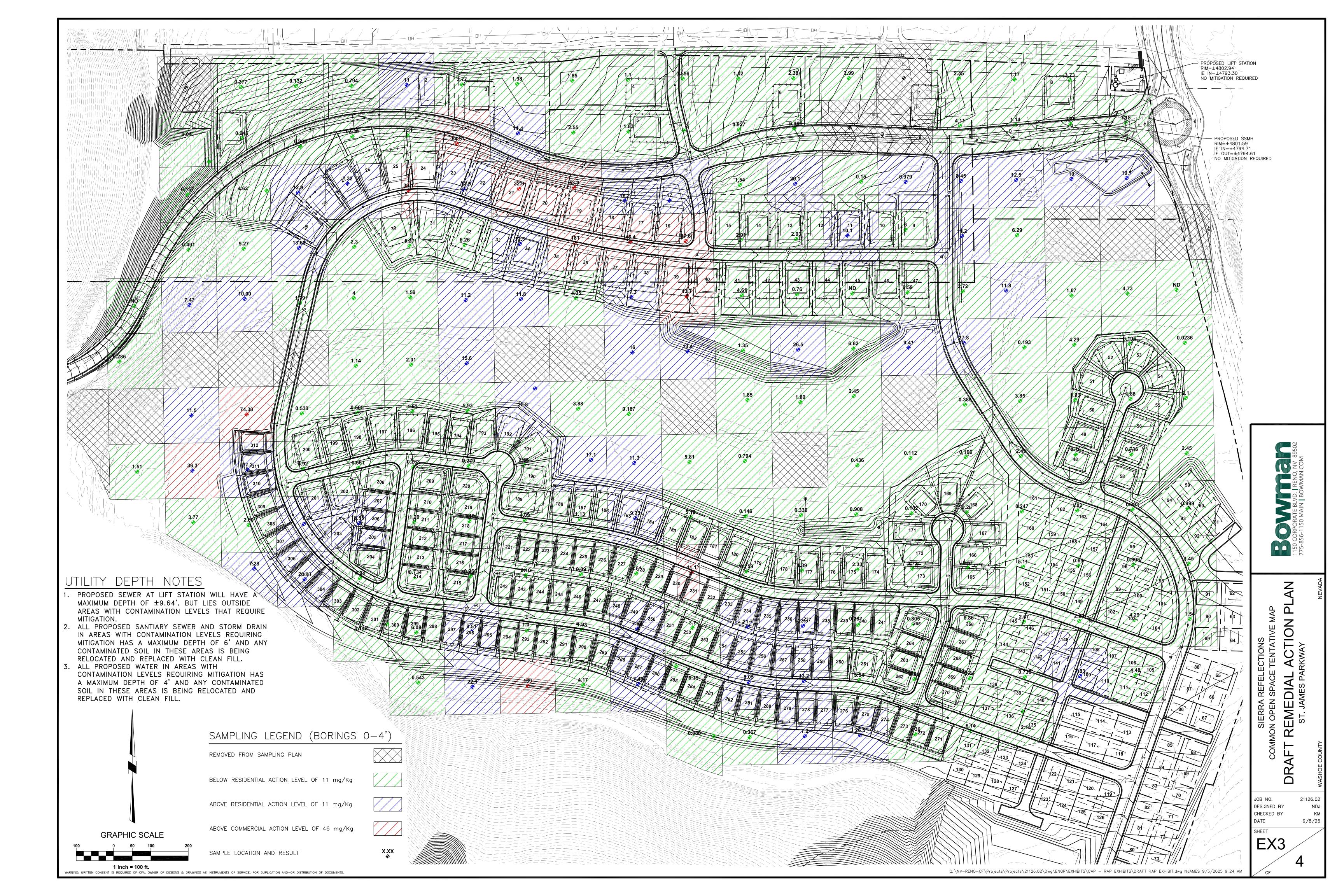


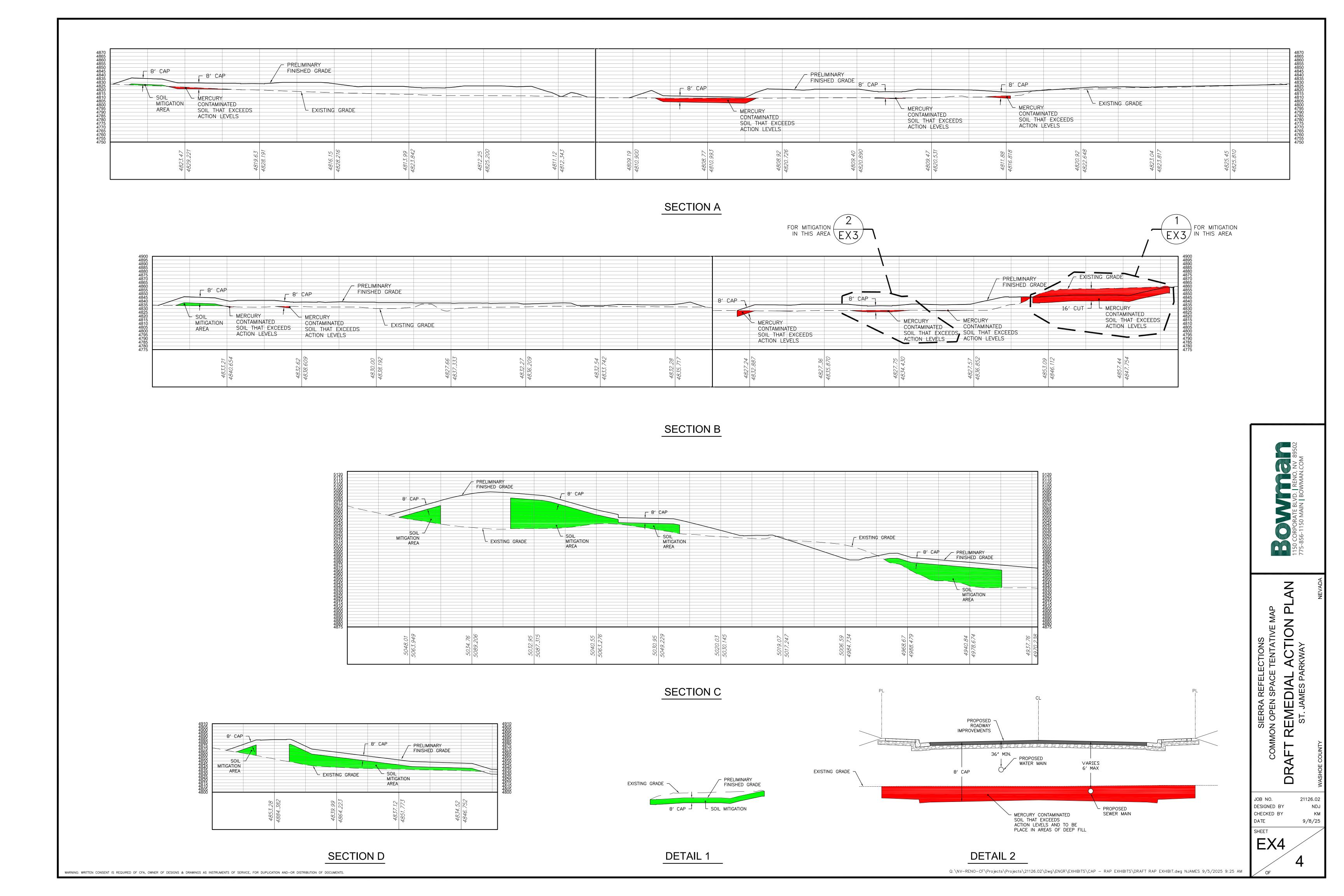
APPENDIX A

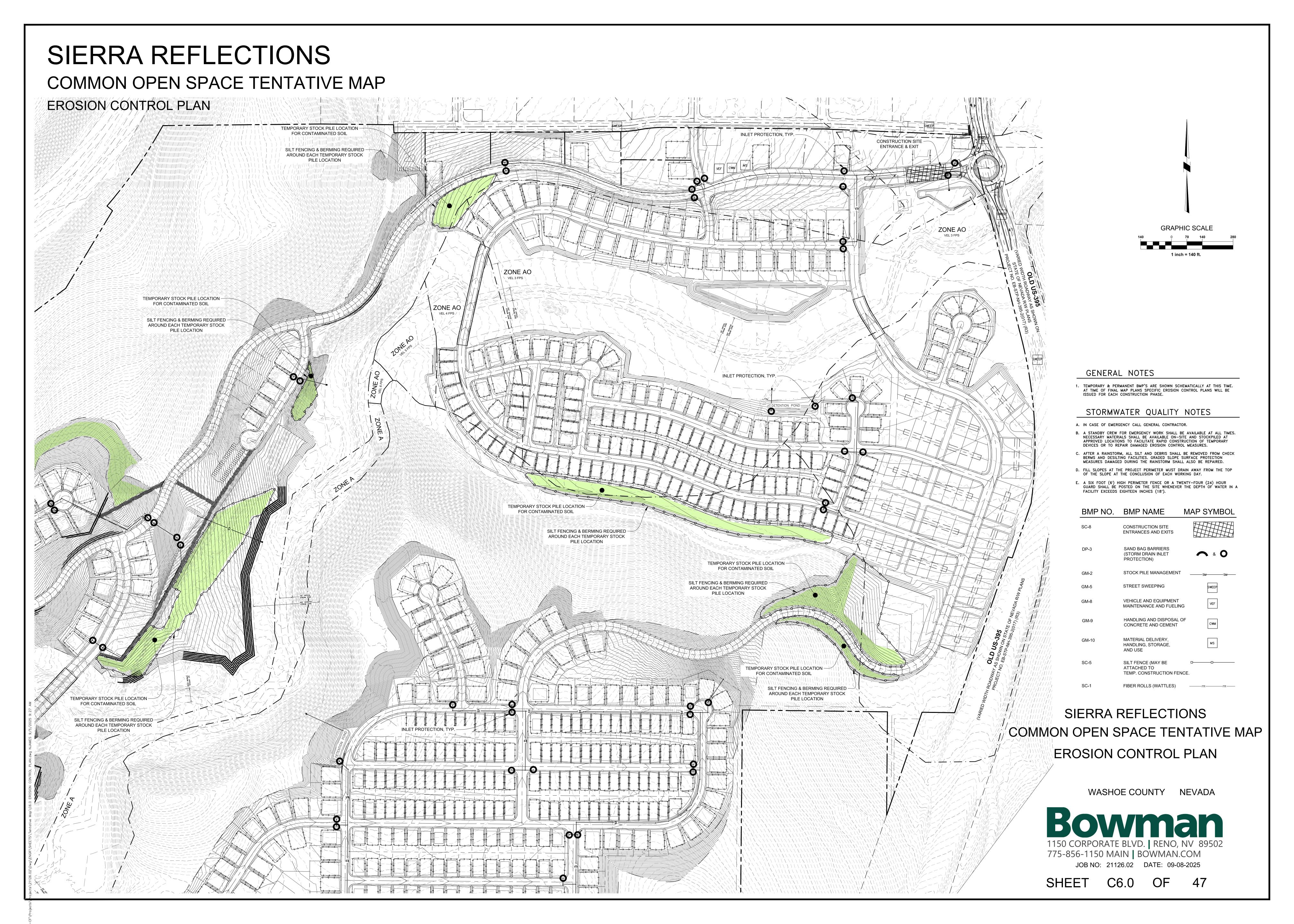
Remedial Action Grading Plans













APPENDIX B

Materials Handling Plan



Material Handling Plan

SIERRA REFLECTIONS SUBDIVSION Washoe County, NV

Prepared for:

World Properties Inc. Joy Lake Road Reno, NV 89511

and

Northern Nevada Public Health Environmental Health Attn: Wesley Rubio 1001 E Ninth Street, Bldg. B Reno, NV 89512

Prepared By:

UES

6995 Sierra Center Parkway Reno, Nevada 89511

September 5, 2025 Project No. A23173.00128



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4.0	Scope of Work	
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FIGURES

Figure 1 Project Location Map

APPENDICIES

Appendix A Remedial Action Grading Plans (to be included when MHP is a standalone document)

Appendix B – Erosion Control Plan (to be included when MHP is a standalone document)



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1.0 INTRODUCTION

On behalf of World Properties Inc., UES Professional Solutions 30, LLC (UES) has prepared this Material Handling Plan (MHP) to support the Sierra Reflections Subdivision (Site) located in Washoe County, Nevada. The Site is identified as Washoe County Assessor Parcel Numbers (APNs) 046-080-40, 046-090-09, 046-090-01, 046-060-45, 046-090-10, 046-090-04, 046-060-47, 046-090-11, 046-090-05, 046-060-55 046-090-12, 046-090-06, 046-100-02, 046-090-13, 046-090-07, 046-100-03, 046-090-14, 046-090-08, 046-100-04, 046-090-15, 046-090-18, 046-100-07, 046-090-16, 046-090-23, 046-100-10, 046-090-17, 046-090-24, 046-090-25, and 046-090-26. The location of the Site is indicated in **Figure 1**.

UES has prepared this MHP to provide the minimum requirements for proper management of soil containing mercury above the residential and commercial action levels which is associated with legacy gold milling activities from the historic Comstock Lode mining era and naturally occurring sources in the area. It should be noted that while concentrations of arsenic exceeding regulatory action levels were found across the Site, they are within background ranges for the region and therefore not considered in this MHP except for sample location B49 discussed further in Section 2.2.

This MHP is intended to provide the minimum requirements for soil handling and stockpiling at the Site. Prior to mass grading, a site-specific materials handling plan will be developed by the grading contractor and provided to the NNPH and Washoe County for review. The site-specific plan will include temporary soil staging locations, phasing plan in relation to location of work, and specific best management practices (BMP) to be followed and used to protect stockpiled soil if they differ from those outlined in this MHP. The Site-Specific Materials Handling Plan will be submitted to the NNPH for review at least 30 days prior to commencement of site grading activities.

2.0 BACKGROUND

2.1 DEVELOPMENT INFORMATION

The Site is planned for development as a residential community by World Properties Inc. named Sierra Reflections Subdivision. Mercury-impacted soil associated with the Carson River Mercury Superfund Site (CRMS) is known to exist in the area of the Site. The EPA draft Carson River Mercury Superfund Site map dated March 6, 2018, and the NDEP Carson River Mercury Superfund Site Risk Area Boundaries map dated January 19, 2012, both depict the Site as located within Operable Unit 1 (OU-1) of the CRMS. The CRMS Locations of Risk Area Boundaries map dated April 20, 2011, identifies the Site as potentially containing high level risk zones associated with Steamboat Creek and the Temelic Mill Site which is mapped on the northeastern portion of the Site. In addition to the areas shown to be in the CRMS, areas that were historically flood-irrigated and/or within the 100-year flood plain could reasonably be expected to be impacted. Based on aerial photographs reviewed during a Phase I Environmental Site Assessment (ESA) conducted by UES (formerly McGinley and Associates, Inc.) in January 2023, the northeast portion of the Site appears to have been flood-irrigated with water from Steamboat Creek since at least 1939. As such, a recognized environmental conditions (REC) was identified and multiple ESAs were conducted to assess for mercury within the soil at the Site.



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2.2 PREVIOUS ESA ACTIVITIES

In April and May 2023, UES conducted a screening level soil sampling event at the Site to provide baseline knowledge of existing site conditions to evaluate decisions for future development and/or sampling activities. Detectable mercury concentrations were reported in all 43 of the collected soil samples ranging from 0.079 mg/kg to 116 mg/kg. In general, samples with elevated concentrations of mercury were located in the flood irrigated areas in the northeastern portion of the Site and in the vicinity of Steamboat Creek.

Between January and March 2024, soil sampling activities were conducted by UES to characterize and delineate mercury, lead, and arsenic impacts at the Site prior to approval of development plans. The Site was divided into three zones as differing levels of impacts were expected based on location, historical use, and potential for flooding and/or flood irrigation. Mercury analytical results for samples collected in the 0-4' horizon within the meadow (Zone 1) ranged from 0.09 mg/kg to 181 mg/kg. Mercury analytical results for samples collected in the 4-8' horizon within the meadow (Zone 1) ranged from 0.0225 mg/kg to 79.7 mg/kg. Mercury analytical results for samples collected from the Steamboat Creek bank (Zone 2) ranged from 0.0392 mg/kg to 311 mg/kg. This is consistent with known mercury impacts from the CRMS. Mercury analytical results for samples collected from areas above the flood zone which were not irrigated with Steamboat Creek water (Zone 3) ranged from 0.0269 mg/kg to 1.4 mg/kg, well below the residential action level of 7.1 mg/kg. All samples analyzed for arsenic and lead were consistent with naturally occurring background concentrations within the region with the exception of one sample.

The sample collected from 0-4' bgs at B49, collected from the former mill site, had elevated concentrations of arsenic (308 mg/kg) and lead (556 mg/kg) well above the Site average and EPA residential RSLs. Lead and arsenic are known by products of milling techniques. Based on additional sampling in 2025, the affected area is limited and will be mitigated with the same methodology as mercury impacted soils.

In March 2025, additional soil sampling activities were conducted to further characterize and delineate mercury, lead, and arsenic impacts within Zone 1 at the Site. Detectable concentrations of mercury were reported in 25 of the 29 samples collected, with concentrations ranging from 0.109 mg/kg (B234) to 56.0 mg/kg (B225). Of the 29 samples collected, 11 exceeded the residential action level for mercury (7.1 mg/kg) and two exceeded the industrial action level for mercury (30 mg/kg). The two samples analyzed for arsenic and lead reported concentrations of arsenic with the background range for the Site and concentrations of lead below the residential action level of 200 mg/kg. The additional site characterization sampling event achieved complete delineation of the impacted areas. Based on the characterization activities, arsenic and lead are not considered contaminants of concern under the Remedial Action Plan (RAP) prepared for the development or this MHP (see Section 3).

2.3 CONCEPTUAL SITE MODEL

The mercury, arsenic, and lead impacted soil at the Site is related to legacy gold milling activities from the historic Comstock Lode mining era. Processing of the ore at Comstock's gold mills generally involved comminution of the ore with stamp mills, creating a slurry, and adding mercury to form an amalgam with the gold and silver. The gold and silver were later separated from the mercury using a distillation process and the mercury was reused. After about 1900, cyanide leaching and flotation processes replaced mercury amalgamation. The milling process may also have concentrated arsenic and lead in the processed materials (tailings). The historical mills that impacted Steamboat Creek were located on Galena Creek and in Washoe



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City, near Washoe Lake. The Temelic Mill site is also located on the Site. Fluvial transport of the metals is the primary means by which the metals were mobilized in Steamboat Creek. The mercury, arsenic, and lead impacted material is co-located and generally contained in the stream channel of Steamboat Creek, but decades of flood-irrigation at the Site with water from Steamboat Creek and flood events in the area allowed mercury sediment to be deposited on the Site. As such, mercury-impacted soil or soil with elevated concentrations of arsenic and lead are not expected to exist outside of the flood-irrigated lands and/or the 100-year floodplain. Additionally, due to alluvial transport, vertical migration of mercury is limited, as mercury gets caught up in the soil particles as it moves downward. As such, elevated concentrations of mercury are not anticipated in areas where surficial samples were below action levels and overall mercury concentrations will decrease significantly with depth.

3.0 REMEDIAL ACTION LEVELS

Pursuant to direction and discussion with the Nevada Division of Environmental Protection (NDEP) and the NNPH, action levels at the Site will follow the EPA Regional Screening Levels (RSLs). The EPA RSLs for mercury, lead, and arsenic are summarized in the table below.

COCs	EPA RSL – Residential	EPA RSL – Commercial
Mercury	7.1 mg/kg	30 mg/kg
Lead	200 mg/kg	800 mg/kg
Arsenic	0.68 mg/kg	3.0 mg/kg

As indicated in UES's September 27, 2021, South Truckee Meadows Regional Arsenic Background Levels report, regional background arsenic concentrations in soils appear to range from 1.8 mg/kg to 320 mg/kg. While arsenic concentrations in soil samples collected for the Sierra Reflections Subdivision appear to be elevated when compared to the EPA action level of 0.69 mg/kg for residential scenarios, these soil sample concentrations are within the known background range for arsenic within this region. In general, soil with elevated concentrations of arsenic is known to be collocated with elevated mercury concentrations in this region. Therefore, the proposed RAP for mercury impacted soils would inherently address elevated arsenic concentrations in the low-lying areas.

4.0 SCOPE OF WORK

A RAP has been written for this development project which will be executed under the regulatory oversight of the Northern Nevada Public Health (NNPH).

Remedial action will focus on protecting public health by removing and/or capping mercury impacted soils such that shallow soils do not contain mercury above the residential action level of 7.1 mg/kg and roadways do not contain mercury above the industrial/construction action level of 30 mg/kg.

In general, the RAP for this Site includes moving impacted soil from the meadow area to beneficial reuse areas which require fill as part of site grading activities. Impacted soil used as beneficial fill in other parts of the Site will be capped with a minimum of eight feet of clean material. Additionally, as a conservative measure, areas where soil was removed in Zone 1 will be capped with eight feet of clean material. This



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cap will prevent contact with potentially impacted soil following Site development. The remedial action site grading plans are provided in **Appendix A.** These plans outline the anticipated cut and fill locations. Exhibit EX1 outlines the anticipated extent of cut and locations for beneficial reuse (fill), exhibit EX2 indicates where the eight-foot clean cap will be applied, Exhibit EX3 provides information on buried utility locations and depths, and Exhibit EX4 provides cross sections for select areas of interest. As indicated in the Exhibits in Appendix A and in Figures 2A and 2B, impacted areas within the meadows will be excavated and capped with clean material.

5.0 SOIL MANAGEMENT

All soil excavated from the impacted soil noted in Zone 1, estimated to include approximately 160,000 cubic yards, shall be excavated and placed in beneficial reuse areas identified in the grading plans in Appendix A. Excavated soil will be transported to the beneficial reuse areas concurrently with excavation to prevent double handling, migration via wind, stormwater, and/or confusion regarding what soil can be placed where. All contaminated soil excavation will take place prior to beginning other grading efforts for the Site (with the exception of preparing the beneficial reuse areas), in order to keep mercury laden soil segregated from non-impacted soils.

6.0 STOCKPILE MANAGEMENT

If the excavated soil is not immediately placed in the beneficial resuse areas, it will be stockpiled on visqueen away from areas with surface drainage. Stockpiles will be limited in size. If stockpiles are to be left in place for more than 12 hours (i.e., overnight or during a precipitation/wind event), the stockpile shall be covered with an impermeable material (i.e., visqueen or plastic) and secured such that wind will not remove the covering, to prevent erosion from precipitation and wind events. Work which includes handling of impacted soil will cease should a major wind event take place and stockpiles will be covered as described above. Stockpiles shall be bermed in accordance with the Stormwater Pollution Prevention Plan (SWPPP) to prevent runoff during storm events. If stockpiles are to remain in place for more than 60-days, best management practices (BMPs) shall include, at minimum, wire backed silt fence, orange construction fencing and signage indicating that soils are only suitable for fill material in specified areas.

At least 30 days prior to mass grading, a site-specific materials handling plan will be developed by the grading contractor and provided to the NNPH and Washoe County for review. The site-specific plan will include soil staging locations, phasing plan in relation to location of work, and specific best management practices (BMP) to be followed and used to protect stockpiled soil if they differ from those outlined in this plan.

7.0 TRANSPORTATION ACTIVITIES

Trucks shall not enter the excavation area or track through soils known to be impacted with mercury. During transportation activities, mercury containing material shall be wetted thoroughly to prevent airborne exposure. Haul truck beds shall be covered with suitable cover during transport from the excavation location to the fill area. Haul trucks will comply with applicable traffic laws when transport is taking place on public roadways (not anticipated). All used BMP-derived waste (wattles, silt fence, etc.) shall be placed in appropriate waste containers, labeled, and treated as non-hazardous waste.

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Sierra Reflections, Material Handling Plan

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8.0 FINAL CAP

Following placement of the impacted fill materials, the beneficial reuse areas and excavated areas in Zone 1 shall be capped with at least eight feet of clean fill material. The cap is intended prevent direct human contact with impacted soil. Capping, confirmation sampling, and reporting are outlined in the Remedial Action Plan (RAP) prepared for this Site.



FIGURES



APPENDIX A

Remedial Action Grading Plans (to be included when MHP is a standalone document)

APPENDIX B

Erosion Control Plan (to be included when MHP is a standalone document)