TETRA TECH

February 24, 2014

Mr. Todd Campbell
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

Subject: **Site Re-Assessment Report and Addendum to Removal Action Summary Report**
National Zinc Site, Cherryvale, Kansas
CERCLIS ID KSD980406698
EPA Region 7, START 4, Contract No. EP-S7-13-06, Task Order No. 0008
Task Monitor: Todd Campbell, On-Scene Coordinator

Dear Mr. Campbell:

Tetra Tech, Inc. is submitting the enclosed Site Re-Assessment Report and Addendum to Removal Action Summary Report regarding the National Zinc Site in Cherryvale, Kansas. If you have any questions or comments regarding this submittal, please call Rob Monnig at (816) 412-1775.

Sincerely,

Robert Monnig, PE
START Project Manager

Ted Faile, PG, CHMM
START Program Manager

Enclosures

cc: Roy Crossland, START Project Officer (cover letter only)

415 Oak Street, Kansas City, MO 64106
Tel 816.412.1741 Fax 816.410.1748 www.tetratech.com

SITE RE-ASSESSMENT AND ADDENDUM TO REMOVAL ACTION SUMMARY REPORT

NATIONAL ZINC SITE
CHERRYVALE, KANSAS
CERCLIS ID KSD980406698

Superfund Technical Assessment and Response Team (START) 4

Contract No. EP-S7-13-06, Task Order No. 0008

Prepared For:

U.S. Environmental Protection Agency
Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

February 24, 2014

Prepared By:

Tetra Tech, Inc.
415 Oak Street
Kansas City, Missouri 64106
(816) 412-1741

CONTENTS

Section **Page**

1.0 INTRODUCTION 1

2.0 SITE DESCRIPTION AND PREVIOUS ASSESSMENTS 3

3.0 REMOVAL ACTION ACTIVITIES 4

4.0 COMPILATION OF SAMPLING DATA 7

4.1 DATA SOURCES 7
4.2 COMPILATION INTO A SCRIBE DATABASE 7
4.3 RESULTS OF DATA CONSOLIDATION 9

4.3.1 Number of Measurements 9
4.3.2 List of Properties Sampled 10
4.3.3 Mapping Property Boundaries 10
4.3.4 Property Aliases and Misnomers 10
4.3.5 List of Properties Excavated 10
4.3.6 Mapping Pre-Removal Sampling Data 12

5.0 RE-ASSESSMENT OF MARCH 2001 THROUGH MAY 2002 SAMPLING DATA 13

5.1 REVIEW OF THE TIME-CRITICAL REMOVAL ACTION CRITERIA 13
5.2 PROPERTIES FLAGGED FOR FURTHER EVALUATION 13
5.3 BASIS FOR NO REMOVAL ACTION AT CERTAIN PROPERTIES 14
5.4 CONCLUSIONS OF RE-ASSESSMENT 17

6.0 SUMMARY OF RE-ASSESSMENT 18

7.0 REFERENCES 19

APPENDICES

Appendix

A FIGURES

B ANALYSIS OF ASSESSMENT AND REMOVAL ACTION DATA

C START LOGBOOKS

D START FIELD SHEETS

E EPA LOGBOOKS

F SCRIBE DATABASE FOR MARCH 2001 THROUGH MAY 2002 SAMPLING DATA (ELECTRONIC DELIVERABLE ONLY)

CONTENTS (Continued)

TABLES

Table		Page
4-1	PROPERTIES SAMPLED AND EXCAVATED	11
5-1	PROPERTIES FLAGGED FOR ADDITIONAL EXAMINATION	14

1.0 INTRODUCTION

The Tetra Tech, Inc. (Tetra Tech) Region 7 Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to re-assess data obtained during a Removal Site Evaluation (RSE) and a time-critical Removal Action (RA) by EPA and the Kansas Department of Health and Environment (KDHE) at the National Zinc site in Cherryvale, Kansas, between March 2001 and May 2002. Intent of the EPA time-critical RA was to address lead-impacted surface soil at residential area properties posing an imminent and substantial endangerment to public health. The RA, performed between November 2001 and May 2002, resulted in removal of approximately 76,000 cubic yards of lead-impacted soil from residential yards and other nearby properties (Tetra Tech EM Inc. [Tetra Tech EMI] 2002).

In August 2012, the EPA Office of Inspector General (OIG) began a review of the previous March 2001 through May 2002 assessment and cleanup activities in response to a hotline complaint alleging that residential properties near the former National Zinc Company smelter had not been addressed during the 2001-2002 time-critical RA (OIG 2013). Based on its review, OIG recommended that EPA review all site records and documents to determine whether an imminent and substantial endangerment to public health existed at the National Zinc site. To support EPA in this determination, START compiled, reviewed, and re-assessed the March 2001 through May 2002 National Zinc site data, and has prepared this report to summarize findings of the re-assessment. Objectives of this re-assessment and addendum are to:

- Provide a conclusive list of properties where sampling occurred and where contaminated soil was removed during the March 2001 through May 2002 activities.
- Provide figures showing locations and approximate boundaries of all sampled properties as well as sample results.
- Provide copies of all START and EPA field notes containing sampling information.
- List specific date(s) on which sampling occurred at each property to provide an index for locating property-specific information contained in the START and EPA handwritten field notes.
- Provide an electronic database containing all soil lead measurements recorded by KDHE, EPA, and START during the March 2001 through May 2002 activities.
- Provide a cross reference to the conclusive list of properties of any aliases (or misnomers) used by KDHE, EPA, or START in their documentation of the March 2001 through May 2002 activities.

- Indicate EPA's final action at each sampled property.

- Re-examine sampling data and EPA's actions regarding any unexcavated property at which one or more soil lead measurements equaled or exceeded 400 milligrams per kilogram (mg/kg).

This report includes the following components:

- **Section 2.0 – Site Description and Previous Assessments:** Historical background of the site and a summary of investigations up to March 2001.

- **Section 3.0 – Removal Action Activities:** Description of continuing assessment and RA activities by KDHE, EPA, and START between March 2001 and May 2002.

- **Section 4.0 – Compilation of Sampling Data:** Description of how the previous March 2001 through May 2002 sampling data were compiled and consolidated into an electronic database.

- **Section 5.0** – Re-Assessment of March 2001 through May 2002 Sampling Data: START's re-assessment of the March 2001 through May 2002 sampling data.

- **Section 6.0 – Summary of Re-Assessment:** START's findings and conclusions regarding the re-assessment of the March 2001 through May 2002 sampling data.

Site figures appear in Appendix A. Details of the consolidation and re-assessment of the March 2001 through May 2002 site assessment and RA data appear in Appendix B. Copies of START logbooks and field sheets are in Appendices C and D, respectively. Copies of EPA logbooks are in Appendix E. The Scribe database is available in electronic format (Appendix F).

2.0 SITE DESCRIPTION AND PREVIOUS ASSESSMENTS

The National Zinc site lies along U.S. Highway 169 at the northwestern edge of Cherryvale, Montgomery County, Kansas, near the location of the former National Zinc smelter (see Appendix A, Figure 1). The approximately 360-acre former smelter property is within a mixed residential and light industrial area. The site encompasses adjacent residential properties (see Appendix A, Figure 2).

The Edgar Zinc Company constructed a primary zinc and lead smelter at the site in 1898. Initially, the facility had 1,800 retorts and three furnace buildings. By 1908, the facility had been modified to include 4,800 retorts and 24 furnaces. By 1928, the facility also had four ore roasters in operation. Approximately half of the zinc production was for galvanizing purposes. The facility was recognized as the Edgar Zinc Company until sometime after 1928, when the facility was reorganized as the National Zinc Company. Production operations declined through the 1930s; however, the National Zinc smelter facility continued to operate in some capacity until December 24, 1976 (Tetra Tech EMI 2002).

Numerous investigations at the site had occurred prior to the start of EPA's RA activities in November 2001. Incidents of surface water contamination in the 1950s were reported to KDHE by adjacent property owners when contaminated water breached from a large settling pond at the former smelter facility. In response, KDHE collected surface water and co-located sediment samples from Drum Creek, which were found to contain significant concentrations of lead, cadmium, mercury, and zinc. Moreover, in 1982 and 1984, concentrations of cadmium, chromium, and lead exceeded their respective maximum contaminant levels in groundwater samples collected within the site vicinity (Tetra Tech EMI 2002).

In March 2001, KDHE began an RSE of the residential properties immediately south of the former National Zinc facility, collecting surface soil samples at 11 residential properties within a two-block area. Samples were screened in the field by use of a Niton Model 733 X-ray fluorescence (XRF) analyzer, and samples also were collected for laboratory analysis for metals. Each of the 11 sampled residential properties exhibited lead levels exceeding the residential KDHE Risk Based Standards for Kansas (RSK) level for lead of 400 mg/kg. These residential yards were targeted for soil excavation and referred to EPA for RA.

3.0 REMOVAL ACTION ACTIVITIES

Based on results of the March 2001 KDHE RSE that identified lead-impacted surface soils at residential yards south of the former National Zinc facility, EPA determined that an RA was warranted to reduce potential for human exposure to lead through contact with soils (EPA 2001). For the site, EPA established a risk-based soil screening level for lead in surface soils of 400 mg/kg for standard residential settings (Tetra Tech EMI 2001). In September 2001, EPA Region 7 tasked START to provide technical support during an RA at the National Zinc site. RA activities occurred between November 2001 and May 2002 and focused primarily on the residential area south of the former National Zinc smelter facility and a 35-acre field, known as the Rodeo Grounds, just west of the residential properties (see Appendix A, Figure 2). START documented these activities in the *Removal Action Summary Report for the National Zinc Site, Cherryvale, Kansas* dated December 17, 2002 (Tetra Tech EMI 2002). The following summarizes the November 2001 through May 2002 RA activities.

November 2001 through May 2002 Removal Action Activities

Removal support activities of KDHE, EPA, and START included, but were not limited to, the following:

- Obtaining access to properties for field screening, sampling, and cleanup activities
- Determining lead concentrations in soils to identify where excavation was required
- Documenting all site activities.

Removal activities began on November 5, 2001, and continued through the second week of May 2002. The removal contractor was International Technology Corporation (IT), under the EPA Region 7 Emergency Response and Removal Services (ERRS) contract. Throughout the RA, START helped to gain access to the Cherryvale residential properties, performed field screening for lead using a Niton™ XRF analyzer, documented pre-removal site conditions, performed soil sampling for laboratory confirmation analysis, and managed/evaluated the resulting analytical data. START ensured that all activities accorded with the site-specific Quality Assurance Project Plan (QAPP) (Tetra Tech EMI 2001).

Prior to field screening at each property, permission for access was obtained from owners. After access permission was granted for each property, a sketch of the property was drawn, and the lot was screened for lead concentration using the XRF unit; the XRF readings were recorded on the sketch (see Appendix D) and in a site logbook (see Appendix C).

During the RA activities, KDHE continued to conduct screening of surface soil at additional properties, and regularly provided data from those assessments to EPA. Following the RA, KDHE documented its

sampling in its report: *Phase II Removal Site Evaluation (RSE) for the Cherryvale Residential Yards Site, Cherryvale, Montgomery County, Kansas* (KDHE 2002).

Activities at Residential Properties

At most residential properties, four cells (typically referred to as quadrants or "quads") were established around the home (if present) that radiated out 50 feet from each side of the residence. At small lots, this was sometimes not feasible, and fewer areas were defined. At larger lots, areas beyond 50 feet from the residence were designated separately, as necessary. Within each cell, a nine-aliquot sample was collected in a disposable aluminum pan. The material was homogenized using a disposable stainless steel spoon, and then three readings from a Niton® XRF spectrometer were taken to screen the sample. If the average of these three readings of lead concentration was less than 400 mg/kg, no subsequent RA occurred within that cell.

START flagged the contaminated cells that needed excavation (i.e., above 400 mg/kg of lead), based on the Niton® XRF readings. The ERRS contractor initially excavated approximately 12 inches of soil within those areas, and then additional XRF readings were taken to determine if lead levels still exceeded the action level of 400 mg/kg. If at the 12-inch depth lead levels still exceeded 400 mg/kg, an orange plastic barrier guard was laid at the interface between the underlying contaminated soil and clean backfill material. This barrier was placed as a reminder to the homeowner (or other future landscaper) of the underlying contamination in the event subsequent excavation would be conducted in those areas. Several circumstances inhibited excavation from reaching the aforementioned depths at a number of properties. For example, if an excavated area extended within the root zone of trees or over buried utility lines, the desired excavation depth was not always achieved. In these cases, orange plastic barrier guard was then laid, where possible, to cover the underlying contaminated soil before spreading clean backfill material. To prevent damage to trees, plastic barriers were generally not placed over tree roots.

Rodeo Grounds

At the Rodeo Grounds property, a grid consisting of 158 cells (most 100 by 100 feet) was established over the entire area. Composite samples consisting of 9 to 12 aliquots (depending on presence of obstructions, underground utilities, etc.) were collected within each cell and screened by use of the XRF spectrometer as previously described for the residential area. Cells where XRF readings of lead concentration exceeded 400 mg/kg were excavated to a minimum depth of 12 inches. Because no post-excavation XRF readings exceeded 400 mg/kg in those cells, no barrier guard or backfill materials were used at the Rodeo Grounds property, except at isolated areas where cisterns, trenches, and a large

abandoned cast iron pipe were located, which required additional excavation to several feet below ground surface. These areas were backfilled with clean soil from the borrow pit area. During the RA, excavations occurred within 135 of the 158 cells.

Laboratory Confirmation Sampling

START collected a soil sample for laboratory confirmation analysis at a rate of approximately one for every tenth XRF field screening of a cell (including pre- and post-removal field screenings). In all, 27 samples from the residential area and 32 samples from the Rodeo Grounds property were collected and sent to Stat Analysis Corporation in Chicago, Illinois, for analysis for lead. In addition, 28 of those 59 samples were also analyzed for arsenic, cadmium, and zinc, and nine of those 28 samples were also analyzed for mercury. A correlation coefficient (R) of 0.93 was calculated for a comparison of laboratory data to XRF results for samples collected from the residential properties, and an R value of 0.97 was calculated for a comparison of laboratory data to XRF data for samples collected from the Rodeo Grounds property. These R values were within EPA's top range of comparability criteria for characterizing data quality (EPA 1993), qualifying the XRF results as "definitive level" data.

Restoration and Disposal Activities

After excavation of each residential lot, options of backfill material (soil or rock) were presented to the property owner(s). After the residential lots had been backfilled and groomed, those areas were hydro-seeded. The hydro-seeding mixture contained grass seed, fertilizer, a glue-like substance, and shredded wood fibers to hold the seed in place. No backfill materials were used at the Rodeo Grounds property, other than at the aforementioned cisterns and trenches present on the northern portion of the property.

The contaminated soil removed from the yards of the Cherryvale residences and the Rodeo Grounds was transported to the southeast portion of the former National Zinc smelter property, where it was consolidated into a repository and capped with clean soil. Remnants of old buildings used by the former smelter in the lead extraction process were demolished and consolidated with the excavated soil in the repository, along with old steel pipes and other debris that also had been present within the repository area.

4.0 COMPILATION OF SAMPLING DATA

The following sections describe compilation and consolidation of the sampling data recorded by KDHE, EPA, and START during the assessment and cleanup activities between March 2001 and May 2002.

4.1 DATA SOURCES

Data for the re-assessment was obtained from these sources:

- **Removal Site Evaluation (RSE) for the Cherryvale Residential Yard Site (KDHE 2001):** This report documents RSE activities of KDHE in March 2001, which included sampling surface soils at 11 residential yards on Martin and Front Streets south of the former smelter site. This sampling identified surface soil in residential yards exceeding the RSK of 400 mg/kg.

- **Phase II Removal Site Evaluation (RSE) for the Cherryvale Residential Yards Site (KDHE 2002):** This report documents additional RSE sampling by KDHE from October through December 2001. This sampling was concurrent with EPA's RA activities to identify other nearby properties potentially warranting a removal response and/or further evaluation by EPA. Properties assessed included residential yards farther south of the former smelter site along First, Second, Liberty, and Front Streets; right-of-ways along Coyle and Second Streets; and several other outlying properties. This sampling identified additional properties warranting an RA by EPA.

- **Removal Action Summary Report, National Zinc Site – Cherryvale, Kansas (Tetra Tech EMI 2002):** This report documents the November 2001 through May 2002 RA activities of EPA and START, and includes pre-removal and post-removal sampling results. Also in the report are copies of START field notes, including START logbooks #1 through 7 and field sheets containing field sketches and sampling results at excavated properties.

- **EPA Site Logbooks #1, #2, and #3 for the National Zinc Site:** During RA activities, the EPA on-scene coordinator documented site activities in three logbooks.

Copies of the 2001/2002 START logbooks and the START field sheets are included in this report (see Appendices C and D, respectively). Copies of the EPA On-scene Coordinator (OSC) logbooks are in Appendix E.

4.2 COMPILATION INTO A SCRIBE DATABASE

To facilitate consolidation, examination, and mapping of the March 2001 through May 2002 sampling data, START created a Scribe database, reviewed each document listed in Section 4.1, transcribed soil lead measurement encountered in the documents, and populated the Scribe database with the transcribed measurement values and other pertinent measurement information.

The following data were recorded with each soil lead measurement:

- **Property No.:** A unique numerical identifier was assigned to each property (or survey area).

- **Property name:** Each property (or survey area) was assigned a descriptive name. The assigned names are consistent with the name given to the property by START field personnel during the 2001/2002 RA activities. For most properties, the mailing address was used as the identifier; however, other properties were more readily identified by another association (e.g., the owner's last name).

- **Final action at property (did excavation occur?):** A yes/no field indicates if an RA (i.e., removal of surface soils) by EPA occurred at the property. Generally, only those cells of a property that exhibited soil lead concentrations exceeding the RA criterion were excavated. If any portion of a property was excavated, this field is assigned a "yes" value.

- **Data source:** The source of the data is noted. This is generally a report name or field logbook identifier (see Section 4.1).

- **Description of measurement location/area:** The location or cell associated with the measurement is described.

- **Reading number:** A reading number (e.g. reading 1, 2, 3…etc.) was assigned to distinguish repeated measurements of the same sample (typical for START's XRF screening of an ex-situ sample where three repeated measurements were obtained and averaged) or multiple measurements within the same cell (typical for START's assessment of a cell using multiple in-situ "spot measurements" spaced over the ground surface of a cell area).

- **Latitude/Longitude:** Approximate geographic coordinates were assigned to each mapable measurement based on figures included in the KDHE or START reports or based on site sketches or descriptions in field logbooks. Measurements obtained by START are generally associated with a property cell (sometimes referred to as a "quad"); such measurements are assigned a latitude/longitude of the approximate center of the associated cell. Some measurements (approximately 2.5 percent of the total measurements recorded) were "un-mapable" because they could not be assigned precise geographic coordinates based on the available documentation. Except for several un-mapable measurements which were identified as "right-of-way" type measurements, the un-mapable measurements were able to be assigned to the appropriate property based on a documented address or other description. In all cases, measurement data associated with "un-mapable" locations were entered into the Scribe database and evaluated as part of the re-assessment described in Section 5.0.

- **Project Phase:** Measurements were assigned according to the phase of the project:

  - Background: Indicates a measurement taken to determine background concentrations.

  - Pre-Removal: Indicates a measurement representing conditions prior to any removal activity (the measurement was obtained prior to any excavation).

- During Removal: Indicates the measurement was taken from the surface of an excavated area; however, additional excavation subsequently occurred.
- Post-Removal: Indicates the measurement is of the final surface of a soil excavation.

- **Measurement date, time, and sampler:** If available, the measurement data, time, and name of the sampler (or the agency sampling) were assigned to each measurement.
- **Measurement type:** Measurements were assigned one of the following categories according to the sampling method employed:
  - Ex-situ XRF: Measurements obtained via XRF analysis of a multi-aliquot, homogenized soil sample.
  - In-situ XRF: Measurements obtained via in-situ XRF analysis of the ground surface. Such measurements are point concentrations (or "spot measurements"). Multiple in-situ XRF measurements may be associated with a particular cell (or "quad").
  - Fixed laboratory: Measurements from soil samples submitted for analysis by a fixed laboratory.

4.3 RESULTS OF DATA CONSOLIDATION

The following sections describe results of the data consolidation. Table B-1 in Appendix B lists the sampled properties identified, dates of sampling, and final actions by EPA (excavated or not excavated).

4.3.1 Number of Measurements

In all, nearly 3,000 lead measurements that had been recorded by KDHE, EPA, and START were entered into the database. Numbers of measurements according to project phase and measurement type are as follows:

Measurement Type	**Measurements**
Pre-Removal – In-situ	935
Pre-Removal – Ex-situ	886
Pre-Removal – Fix laboratory	87
Background, during removal, and post-removal	1,049
Total Measurements	**2,927**

Some measurements encountered in the documents were collected for purposes other than determining an appropriate removal action (i.e., "pre-removal" measurements) or assessing the effectiveness of a cleanup (i.e., "post-removal" measurements). Such measurements included those of gravel roads, potential soil borrow areas, haul road routes, and background areas. These measurements were generally not entered into the database.

4.3.2 List of Properties Sampled

Consolidation of the March 2001 through May 2002 sampling data resulted in designation of 67 sampled properties (or areas). The 67 properties were named and defined based on the designations used by START during the RA activities. Designations of sampled properties that included a single-family residential home and yard were generally straightforward, with a property typically assigned its mailing address as the property name. For other types or arrangements of properties (such as undeveloped lots, lots with multiple mobile homes, residential lots associated with adjoining undeveloped lots, non-residential properties, street right-of-ways, etc.), other identifiers may have been used for a property's name. Names of the 67 sampled properties are listed in Table 4-1.

4.3.3 Mapping Property Boundaries

Approximate boundaries of sampled properties were established and mapped based on hand sketches and other descriptions contained in the START logbooks and field sheets. These boundaries are depicted on Figure 3 in Appendix A. One property, 406 N. Liberty, apparently a misnamed property, could not be mapped. This property name was designated when KDHE recorded a soil sample collected on November 28, 2001, as having been sampled at "406 N. Liberty." This address does not match any known address on the 400 block of N. Liberty.

4.3.4 Property Aliases and Misnomers

Consolidation of the sampling data revealed several property aliases and misnomers. Sampling data presented in the source documents under these aliases or misnomers were assigned to the correct property through examination of figures, site sketches, or descriptions of properties or sampling locations found in logbooks. The encountered property aliases and misnomers are listed with their accepted property names on Figure 4 in Appendix A.

4.3.5 List of Properties Excavated

Sampled properties that underwent an RA (i.e., removal of surface soils) by EPA between November 2001 and May 2002 were identified by indications of excavation on site sketches and by documentation of post-removal soil samples. Thirty-five of the 67 sampled properties underwent an RA. At these properties, surface soils were removed within one or more cells that exhibited soil lead concentrations exceeding the RA criterion. Table 4-1 and Figure 3 in Appendix A indicate the properties that underwent an RA by EPA.

TABLE 4-1

PROPERTIES SAMPLED AND EXCAVATED
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

Scribe No.	Property Name	Scribe No.	Property Name
[001]	0 Martin St ♦	[035]	536 W Front St ♦
[002]	271 - A	[036]	5399 County Road 5050 ♦
[003]	334 W Front St	[037]	605 & 609 W First St
[004]	400 N Liberty ♦	[038]	606 W First St & 609 W Front St ♦
[005]	404 N Liberty ♦	[039]	610 & 614 W Front St ♦
[006]	408 N Liberty	[040]	602, 604, 608, 612, 614 W Second St
[007]	412 N Liberty	[041]	617 W Front St ♦
[008]	416 N Liberty ♦	[042]	618 W Front St ♦
[009]	420 N Liberty ♦	[043]	620 W Front St ♦
[010]	435 Butler	[044]	621 W Front St ♦
[011]	500, 502, 504, 506 Coyle St	[045]	629 Martin St ♦
[012]	500 W First St ♦	[046]	630 W Second St
[013]	501 Martin St and 508 Coyle St	[047]	634 W Front St ♦
[014]	502 N Liberty	[048]	635 W First St ♦
[015]	505 - 513 W Front St ♦	[049]	638 W First St / 635 W Front St ♦
[016]	506 W First St ♦	[050]	640 W Second St
[017]	508 N Liberty	[051]	700 W Second St
[018]	508 W Second St	[052]	726 W Third St
[019]	509 W First St ♦	[053]	730 W Third St
[020]	511 Martin St ♦	[054]	Alley, between Front and Martin St
[021]	511 W First St ♦	[055]	Arias Vacant Lot ♦
[022]	512 W Front St ♦	[056]	background
[023]	514 W First St ♦	[057]	Drainage ditch west of Coyle St, south of Martin St ♦
[024]	515 W First St ♦	[058]	Montgomery Co. Rural Fire
[025]	516 W Second St	[059]	Ponderosa Property ♦
[026]	520 W Front St ♦	[060]	Right-of-way, soil adjacent to sidewalk
[027]	524 W Front St ♦	[061]	Right-of-way, Coyle St
[028]	524 W Second St	[062]	Right-of-way, Front St
[029]	527 W First St ♦	[063]	Right-of-way, Martin St
[030]	529 W First St	[064]	Right-of-way, School St
[031]	Waste Water Treatment Plant	[065]	Right-of-way, Second St
[032]	530 W Front St ♦	[066]	Rodeo Grounds ♦
[033]	532 W First St ♦	[067]	406 N Liberty
[034]	534 W Second St		

Note:

♦ Indicates a property where a removal action (excavation of surface soil) by EPA occurred in 2001 or 2002

4.3.6 Mapping Pre-Removal Sampling Data

Figure 5A, 5B, and 5C in Appendix A show pre-removal soil lead measurements with respect to the sampled and excavated property boundaries. Figure 5A presents the pre-removal in-situ lead measurements, Figure 5B presents pre-removal ex-situ measurements, and Figure 5C presents measurements obtained from fix laboratory analysis of soil samples. As shown in each of these figures, the highest pre-removal soil lead concentrations were generally encountered at the properties closest (immediately south of) the former National Zinc smelter facility.

5.0 RE-ASSESSMENT OF MARCH 2001 THROUGH MAY 2002 SAMPLING DATA

START re-assessed the March 2001 through May 2002 sampling data and other documentation to evaluate whether the November 2001 through May 2002 RA activities by EPA and START were consistent with the proposed time-critical RA activities specified in EPA's action memorandum for the site and the approved QAPP.

5.1 REVIEW OF THE TIME-CRITICAL REMOVAL ACTION CRITERIA

The EPA action memorandum specifies the following procedure for an RA (EPA 2001):

> "Each residential property will be divided into four quadrants and multi-aliquot surface soil sampling will be performed at each quadrant. Soil sample aliquots will not be collected from within three feet of the residential dwelling to reduce the potential lead-based paint contribution to soil lead concentrations. Multi-aliquot surface soil samples will also be collected from any play areas and gardens, or sand piles and driveways that appear to consist of mine waste. Excavation will be done only in quadrant(s) or areas where soil samples are found to have lead levels equal to, or greater than, 400 mg/kg. Once an action is triggered by having a surface soil sample greater than 400 mg/kg of lead, excavation activities will proceed at that location."

The approved QAPP further defines the collection method for the multi-aliquot surface soil samples at residential properties (Tetra Tech EMI 2001):

> "…four quadrants will be established around each residential property, which will radiate out 50 feet from each side of the home. In each quadrant, a nine-aliquot composite sample will be collected from the upper 1 inch of soil and screened for lead with a Niton™ XRF."

As indicated in the EPA action memorandum and approved QAPP, the criterion triggering an RA at a given quadrant (or cell) of a residential property was a lead concentration equal to or exceeding 400 mg/kg in a multi-aliquot surface soil sample collected within that quadrant (or cell).

5.2 PROPERTIES FLAGGED FOR FURTHER EVALUATION

To identify sampled properties that had met the criterion for an RA but had not been excavated, START first queried the Scribe database to identify any unexcavated property associated with a maximum soil lead measurement equal to or greater than 400 mg/kg (see Appendix B, Table B-2). Although this query identified maximum soil lead measurements without regard to whether the measurement was relevant to direct comparison with the RA criterion, the query served as a simple screening measure to identify properties for further examination. The query identified the 17 properties listed in Table 5-1.

TABLE 5-1

PROPERTIES FLAGGED FOR ADDITIONAL EXAMINATION
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

Scribe No.	Property Name	Scribe No.	Property Name
[011]	500, 502, 504, 506 Coyle St	[053]	730 W Third St
[013]	501 Martin St and 508 Coyle St	[054]	Alley, between Front and Martin St
[017]	508 N Liberty	[060]	Right-of-way, soil adjacent to sidewalk
[025]	516 W Second St	[061]	Right-of-way, Coyle St
[028]	524 W Second St	[062]	Right-of-way, Front St
[030]	529 W First St	[063]	Right-of-way, Martin St
[031]	Waste Water Treatment Plant	[064]	Right-of-way, School St
[034]	534 W Second St	[067]	406 N Liberty
[046]	630 W Second St		

5.3 BASIS FOR NO REMOVAL ACTION AT CERTAIN PROPERTIES

START reviewed the sampling data and field notes related to each of these properties, and compared the data and actions at the property to the proposed time-critical RAs specified in EPA's action memorandum for the site (EPA 2001). A detailed review of each of the 17 identified properties is in Appendix B, Table B-3.

EPA's basis for no action at 15 of the properties fell into one of the following three categories:

The relevant lead concentration measurements did not exceed the RA criterion of 400 mg/kg; thus no RA by EPA resulted.

One or more measurements of lead concentration equal to or greater than 400 mg/kg occurred at the following four properties:

- 500, 502, 504, 506 Coyle St.
- 501 Martin and 508 Coyle St.
- 529 W. First St.
- 730 W. Third St.

However, measurements at these properties were not relevant to direct comparison with the RA criterion because either:

- The measurement was a single, in-situ XRF measurement of the ground surface (a spot measurement), and subsequent sampling per methods approved in the QAPP yielded lead concentrations less than 400 mg/kg.

OR

- The measurement was one of three repeated readings of an ex-situ soil sample that yielded an average lead concentration of less than 400 mg/kg.

Each of these properties had been assessed by START using sampling methods specified in the approved QAPP—that is, the property was divided into multiple cells, a multi-aliquot surface soil sample was collected from each cell, the aliquots were homogenized, three repeated lead concentration measurements were obtained for each sample using a Niton XRF spectrometer, and for each sample the average of the three repeated readings was compared to the RA criterion of 400 mg/kg. For these four properties, no ex-situ, multi-aliquot soil sample exhibited an average XRF reading exceeding 400 mg/kg, and thus no RA resulted. XRF measurements by START of the ex-situ, multi-aliquot surface soil samples from these properties are listed in Appendix B, Table B-3.

Homeowner declined further sampling or possible cleanup activities; thus no RA resulted.

At each of the following five properties, a soil lead measurement equal to or greater than 400 mg/kg was recorded; however, the owner declined further sampling or possible cleanup activities, and thus no RA resulted:

- 508 N. Liberty St.
- 516 W. Second St.
- 524 W. Second St.
- 534 W. Second St.
- 630 W. Second St.

For each of these properties, the EPA OSC noted that he had discussed available sampling results with the owner and that the owner had declined further sampling or possible cleanup activities. Dates of these discussions with the homeowners are listed in Appendix B, Table B-3.

Results of preliminary assessment of alley and right-of-way areas were referenced for project planning purposes.

The following properties are alley and right-of-ways along public streets that KDHE and EPA had assessed prior to sampling adjacent residential properties:

- Alley, between Front and Martin Streets
- Right-of-way, soil adjacent to sidewalk
- Right-of-way, Coyle Street
- Right-of-way, Front Street
- Right-of-way, Martin Street
- Right-of-way, School Street.

Excavation of right-of-ways and alleyways were not within the scope of EPA's response action, thus no RA resulted within these areas. Sampling within the right-way-way and alleyways did, however, provide a general indication of area soil lead levels and were referenced for project planning purposes. Moreover, EPA subsequently assessed residential properties along these streets and alleys per the methods described in the approved QAPP, and proceeded with an RA where warranted. Measurements from these non-residential areas and right-of-way areas are plotted on Figure 7 in Appendix A.

Other Properties: Waste Water Treatment Plant and 406 N. Liberty

EPA's reasons for specifying no action at the remaining two properties— Water Treatment Plant and 406 N. Liberty—were property-specific:

Waste Water Treatment Plant

No RA by EPA resulted because cleanup of the property (a former waste water treatment facility) was not within the scope of EPA's response action. The assessment data were shared with the potentially responsible party.

406 N. Liberty St.

KDHE recorded a soil sample collected on November 28, 2001, as having been sampled from "406 N. Liberty"—an apparent typographical error because 406 N. Liberty was not a known address on the 400 block of N. Liberty (mailing addresses of this block at the time of the 2001/2002 assessment included 400, 404, 408, 412, 416, and 420 N. Liberty). This soil sample exhibited a lead concentration exceeding 400 mg/kg. Although the correct address for the "406 N. Liberty" soil sample is unknown, the site documentation shows that all the residential properties on this block were subsequently address by

EPA—either through a cleanup or a re-assessment finding no relevant measurements exceeded the RA criterion (removals by EPA occurred at 400, 404, 416, and 420 N. Liberty and re-assessment by EPA/START occurred at 408 and 412 N. Liberty; see Appendix A, Figure 6).

5.4 CONCLUSIONS OF RE-ASSESSMENT

For each of the 67 designated sampled properties, Table B-4 in Appendix B lists sampling date(s), EPA's final action (i.e., excavated or not excavated), and the basis for the final action. Figure 6 in Appendix A plots each mapable soil lead measurement that is relevant for comparison to the RA criteria of 400 mg/kg (measurements considered relevant are those obtained from ex-situ, multi-aliquot, homogenized surface soil samples; where no ex-situ sample data is available, in-situ measurements are also considered relevant and are shown on the figure). As shown on Figure 6, except for the aforementioned properties, each of the residential properties that is associated with a relevant soil lead measurement equal to, or exceeding, the RA criteria of 400 mg/kg was subject to excavation. Overall, re-assessment of the March 2001 through May 2002 sampling data and other documentation indicates that EPA's actions were consistent with proposed actions specified in the action memorandum.

6.0 SUMMARY OF RE-ASSESSMENT

START was tasked by EPA Region 7 to re-assess data obtained during an RSE and a time-critical RA by KDHE, EPA, and START at the National Zinc site in Cherryvale, Kansas, between March 2001 and May 2002. Intent of the EPA time-critical RA was to address lead-impacted surface soil at residential area properties posing an imminent and substantial endangerment to public health as defined in Section 300.415(b) of the National Contingency Plan (40 Code of Federal Regulations Part 300) and EPA's action memorandum for the site (EPA 2001). In August 2012, the EPA OIG began a review of the previous March 2001 through May 2002 assessment and cleanup activities in response to a hotline complaint alleging that residential properties near the former National Zinc Company smelter had not been addressed during the 2001/2002 time-critical RA. OIG recommended that EPA review all site records and documents to determine whether an imminent and substantial endangerment to public health existed at the National Zinc site. To support this determination, START compiled, reviewed, and re-assessed the March 2001 through May 2002 National Zinc site data and compiled a Scribe database containing the soil lead measurements that were recorded by KDHE, EPA, and START during the assessment and cleanup activities. This report also provides a conclusive list of properties sampled and properties excavated during the March 2001 and May 2002 activities.

START re-assessed the March 2001 through May 2002 sampling data and other documentation to evaluate if the November 2001 through May 2002 RA activities by EPA and START were consistent with the proposed time-critical RA activities specified in EPA's action memorandum for the site and the approved QAPP. This re-assessment revealed that, except where a homeowner declined further sampling or possible cleanup activities, EPA conducted an RA at each residential property where relevant soil lead measurements exceeded the RA criterion of 400 mg/kg. Based on this finding, no further RA activities by EPA appear to be warranted.

7.0 REFERENCES

Kansas Department of Health and Environment (KDHE).

2001. Removal Site Evaluation (RSE) for the Cherryvale Residential Yards Site. Randolph L. Brown, Peter Haxton, and Travis Kogel. March.

2002. Phase II Removal Site Evaluation (RSE) for the Cherryvale Residential Yards Site, Cherryvale, Montgomery County, Kansas. March.

Tetra Tech EM, Inc. (Tetra Tech EMI).

2001. Quality Assurance Project Plan, National Zinc Site – Cherryvale, Kansas. October 4.

2002. Removal Action Summary Report, National Zinc Site – Cherryvale, Kansas. December 17.

U.S. Environmental Protection Agency (EPA).

1993. Data Quality Objectives Process for Superfund-Interim Final Guidance. Office of Solid Waste and Emergency Response. Washington D.C. EPA/540/R-93/071.

2001. Action Memorandum, Request for Removal Action at the National Zinc Company Site, Cherryvale, Kansas. August 23.

U.S. Environmental Protection Agency Office of Inspector General (OIG).

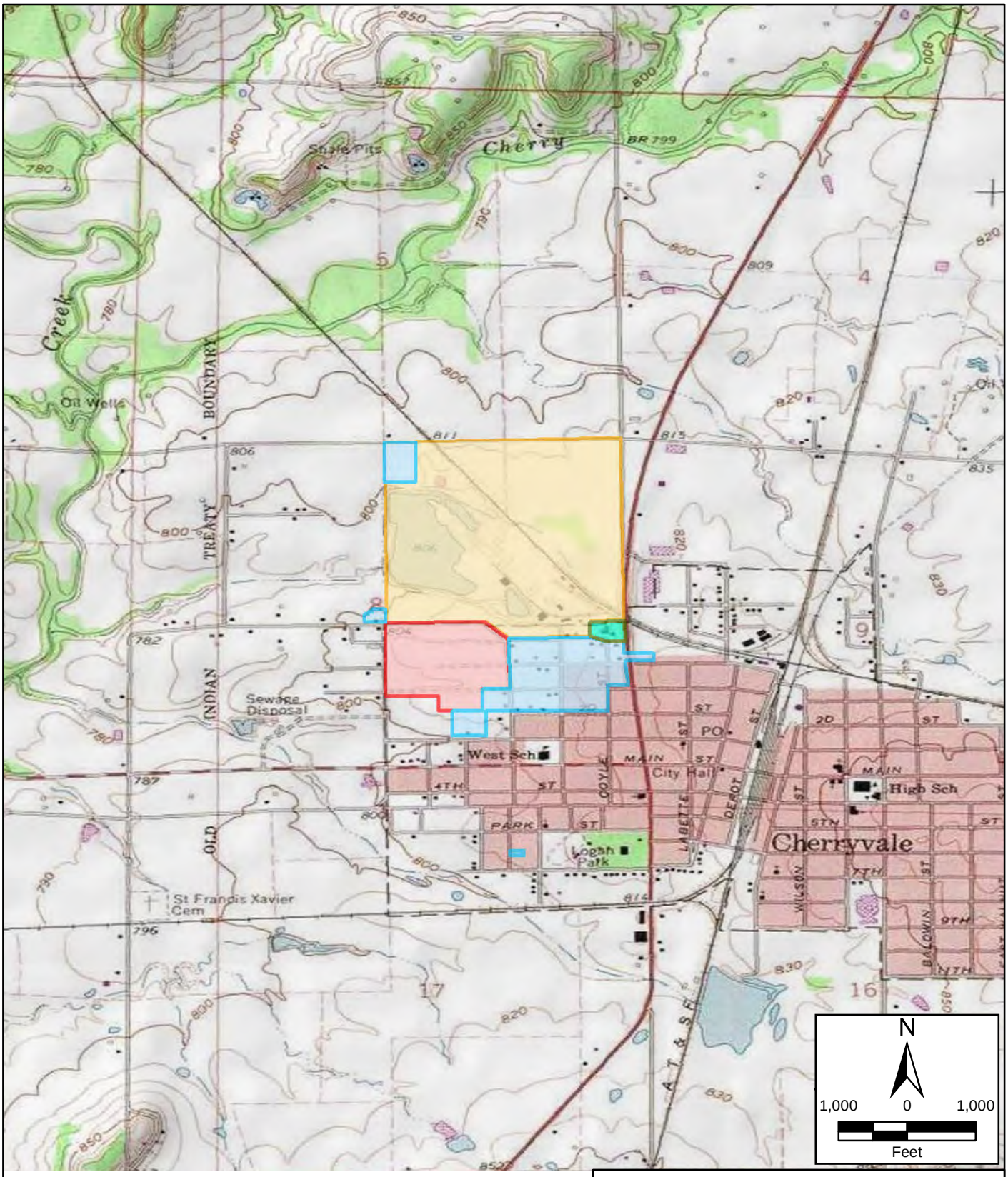
2013. Review of Hotline Complaint Regarding Residential Soil Contamination in Cherryvale, Kansas. Report No. 13-P-0207. March 28.

U.S. Geological Survey (USGS).

1979. Cherryvale, Kansas Quadrangle. USGS 7.5-Minute Topographic Series.

APPENDIX A

FIGURES



Legend

- Former National Zinc smelter facility
- Rodeo ground site
- Cherryvale residence sampling area
- Waste water treatment

Source: HISP Gold, 2012
ESRI Topographic Basemap, 2014

National Zinc Site Re-Assessment
Cherryvale, Kansas

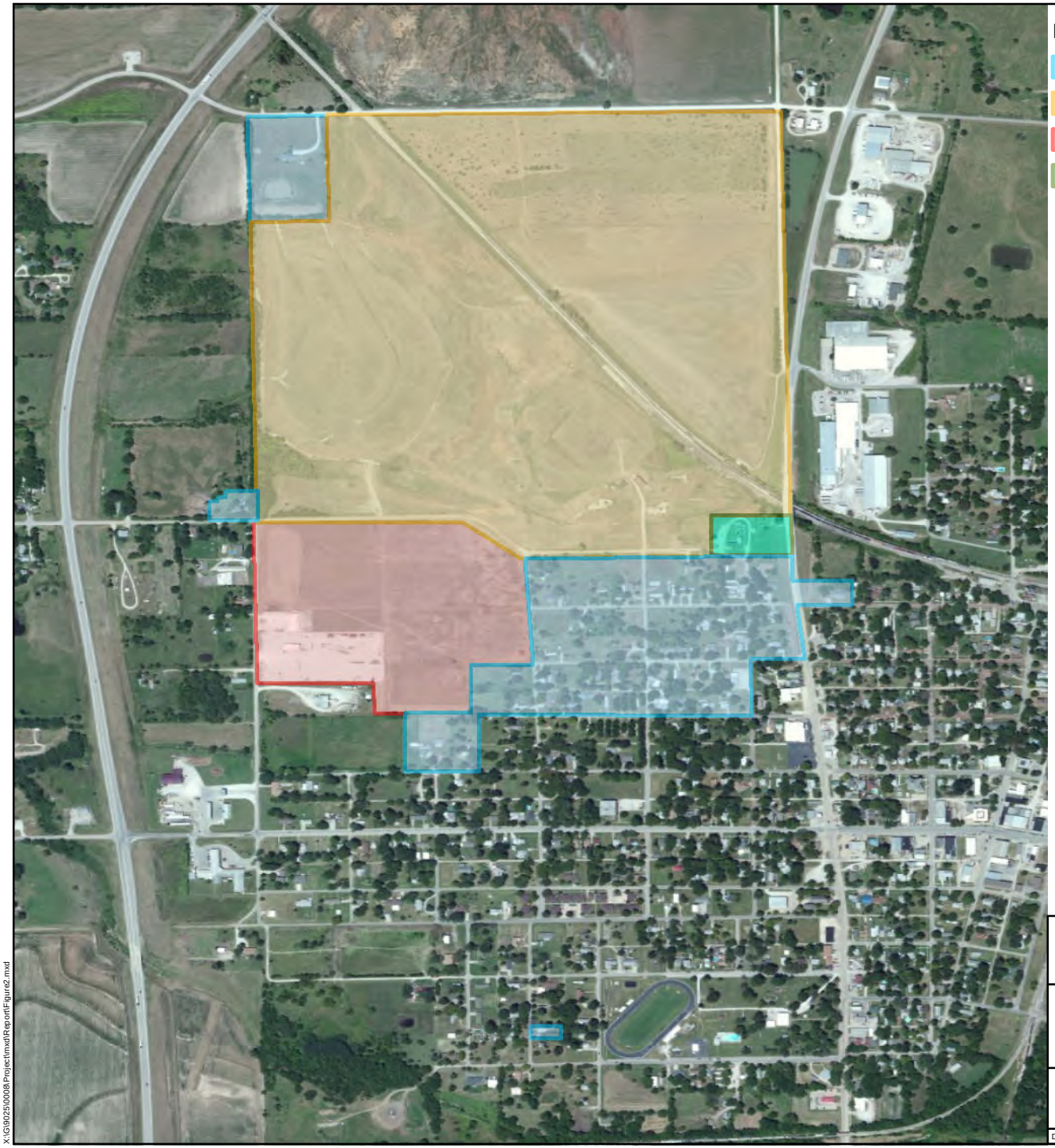
Figure 1

Site Location Map

TETRA TECH

Date: 2/21/2014 Drawn By: Colin Willits Project No: 103X9025140008.000

X:\G\9025\0008\Projectmxd\Report\Figure1.mxd



Legend

- Cherryvale residence sampling area
- Former National Zinc facility
- Rodeo grounds area
- Waste water treatment plant sampling area

N

500 0 500

Feet

Source: ESRI Imagery Basemap, 2014

National Zinc Site Re-Assessment
Cherryvale, Kansas

Figure 2

Site Layout Map

TETRA TECH

Date: 2/21/2014 Drawn By: Colin Willits Project No: 103X9025140008.000

X:\G\9025\0008\Project\mxd\Report\Figure2.mxd

National Zinc Site Re-Assessment
Cherryvale, Kansas

Figure 3

Residential Sampling Area Properties

TETRA TECH

Date: 1/20/2014 Drawn By: Colin Willits Project No: 103X9025140008.000

X:\G\9025\0008\Project\mxd\Report\Figure3.mxd

Legend

- Survey unit with no excavation resulting
- Survey unit with excavation resulting

N

125 0 125

Feet

Source: ESRI Imagery Basemap, 2014.

National Zinc Site Re-Assessment
Cherryvale, Kansas

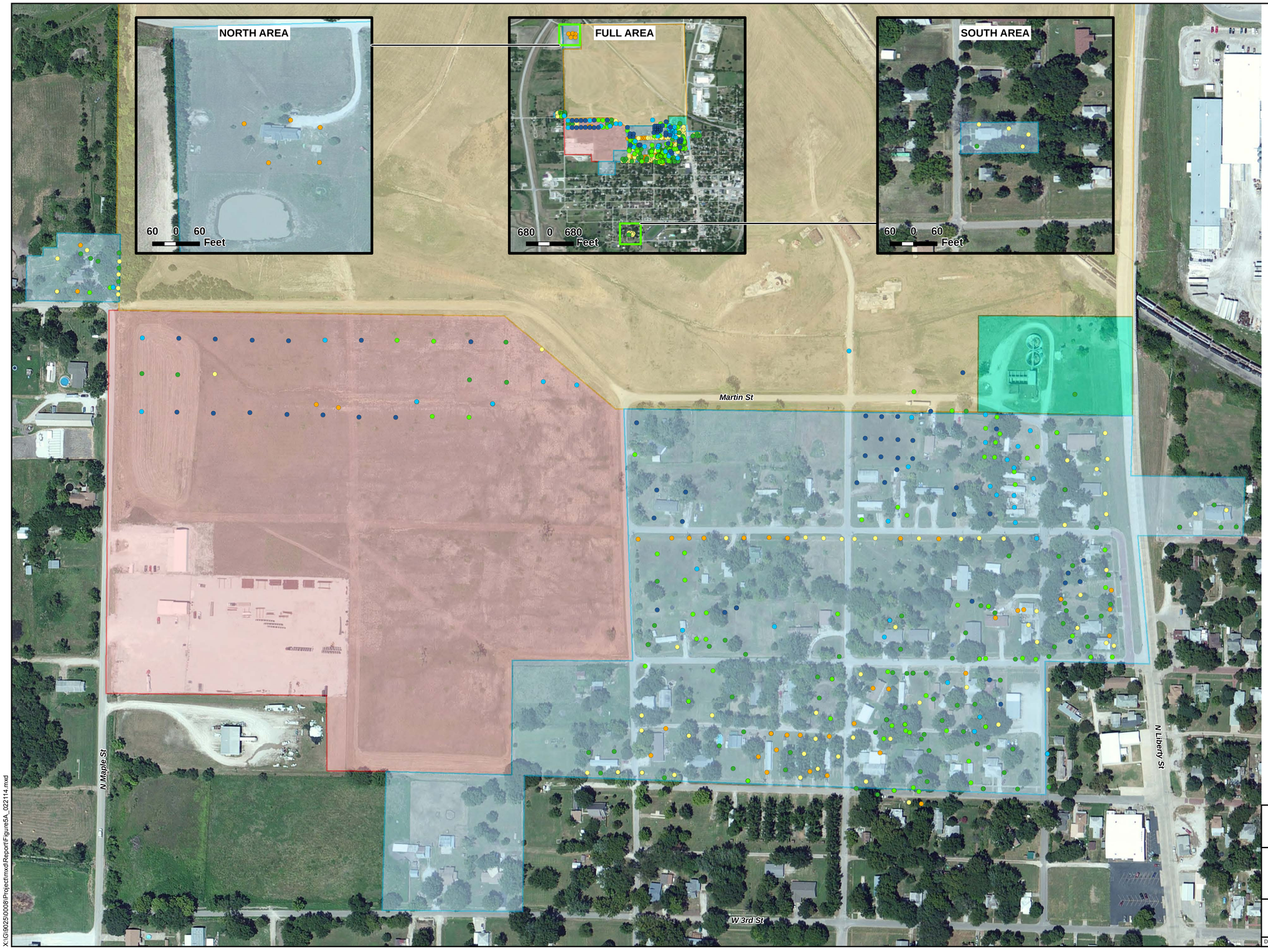
Figure 4

Property Aliases and Misnomers

TETRA TECH

Date: 1/20/2014 Drawn By: Colin Willits Project No: 103X9025140008.000

X:\G\9025\0008\Projects\mxd\Report\Figure4.mxd



Legend

Pre-removal soil lead measurement (in-situ[1])

- ≤ 99.99 ppm lead result
- 100.00 - 199.99 ppm lead result
- 200.00 - 399.99 ppm lead result
- 400.00 - 599.99 ppm lead result
- 600.00 - 799.99 ppm lead result
- ≥ 800.00 ppm lead result
- Cherryvale residence sampling area
- Former National Zinc facility
- Rodeo grounds area
- Waste water treatment plant sampling area

ppm - parts per million

[1]The maximum in-situ measurement is depicted where multiple readings are associated with a single sampling quadrant.

N

130 0 130

Feet

Source: KDHE. Removal Site Evaluation for the Cherryvale Residential Yards Site. March 2001.
KDHE Expanded Site Inspection for the Former National Zinc Site. 2001.
Tetra Tech. Removal Action Summary Report for National Zinc Site. December 2002.
ESRI Imagery Base Mapping, 2013.

National Zinc Site Re-Assessment
Cherryvale, Kansas

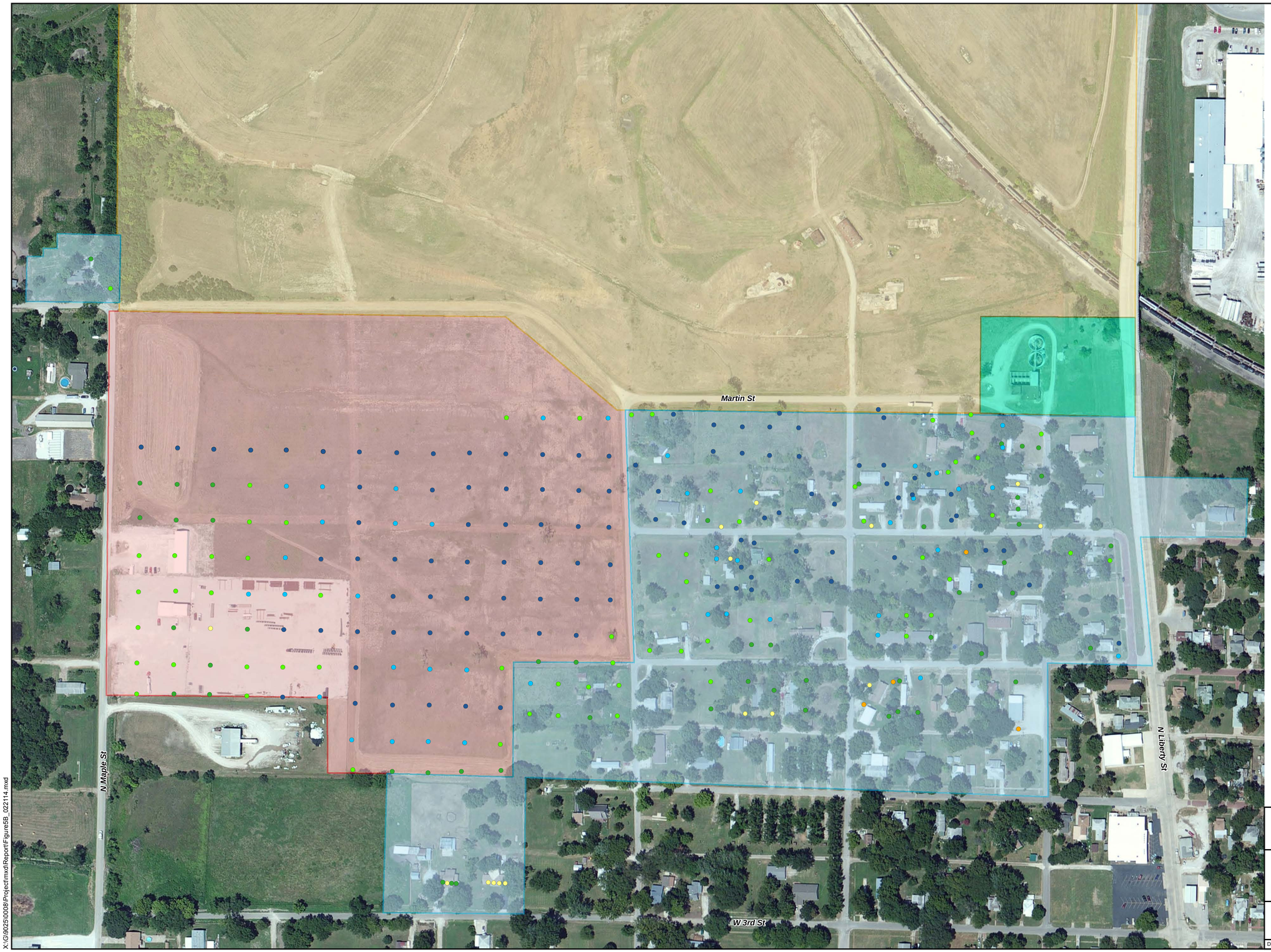
Figure 5A

Pre-Removal Soil In-Situ Lead Measurements

TETRA TECH

Date: 2/21/2014 Drawn By: Colin Willits Project No: 103X9025140008.000

X:\G\9025\0008\Project\mxd\Report\Figure5A_022114.mxd



Legend

Pre-removal soil lead measurement (ex-situ[1])

- ≤ 99.99 ppm lead result
- 100.00 - 199.99 ppm lead result
- 200.00 - 399.99 ppm lead result
- 400.00 - 599.99 ppm lead result
- 600.00 - 799.99 ppm lead result
- ≥ 800.00 ppm lead result
- Cherryvale residence sampling area
- Former National Zinc facility
- Rodeo grounds area
- Waste water treatment plant sampling area

ppm - parts per million

[1]Ex-situ XRF measurements are the average of three repeated XRF readings of a multi-aliquot, homogenized sample. This average is depicted.

N

130 0 130

Feet

Source: KDHE. Removal Site Evaluation for the Cherryvale Residential Yards Site. March 2001.
KDHE Expanded Site Inspection for the Former National Zinc Site. 2001.
Tetra Tech. Removal Action Summary Report for National Zinc Site. December 2002.
ESRI Imagery Base Mapping, 2013.

National Zinc Site Re-Assessment
Cherryvale, Kansas

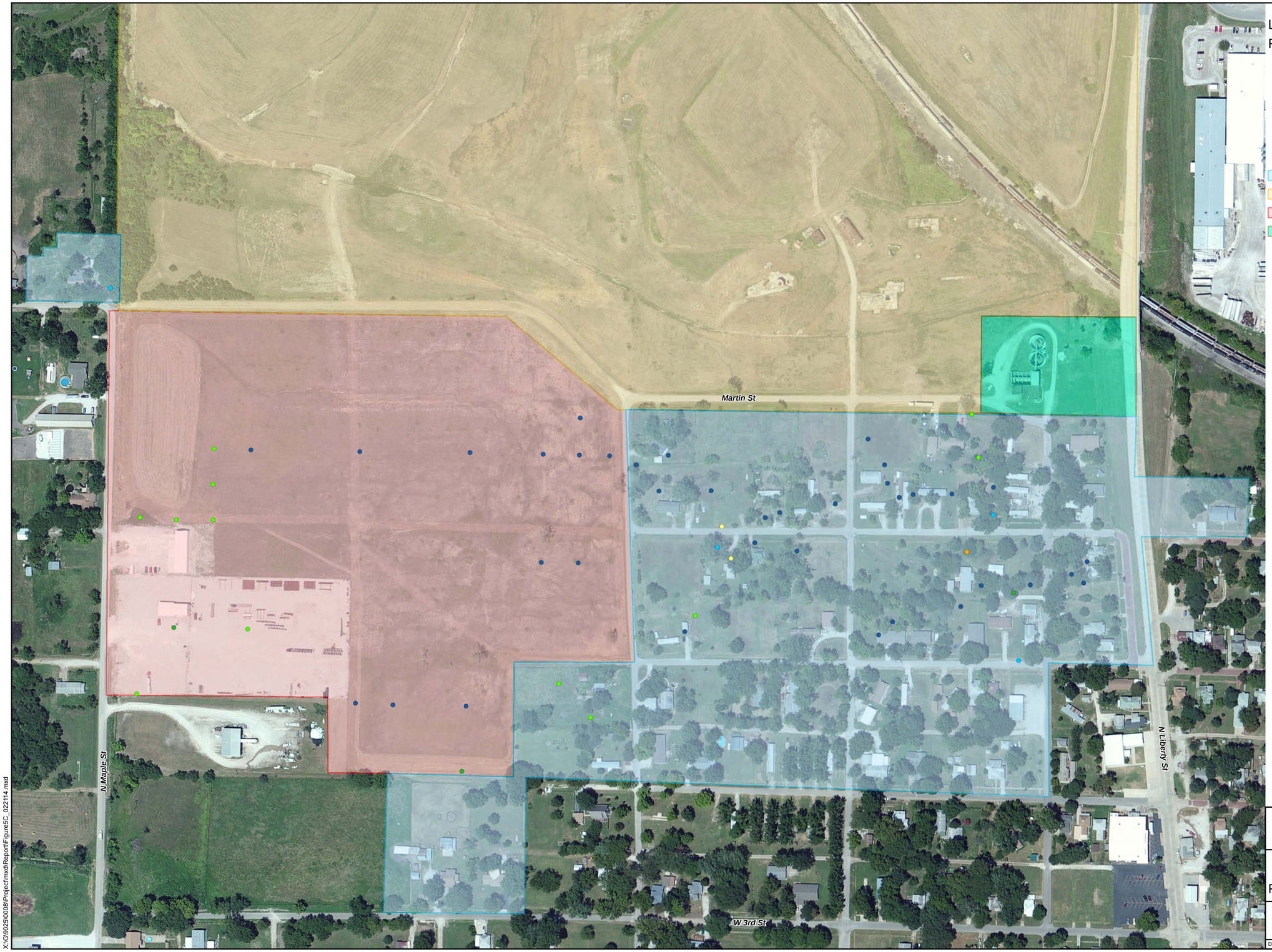
Figure 5B

Pre-Removal Soil Ex-Situ Lead Measurements

TETRA TECH

Date: 2/21/2014 Drawn By: Colin Willits Project No: 103X9025140008.000

X:\G9025\0008\Project\mxd\Report\Figure5B_022114.mxd



Legend

Pre-removal soil lead measurement (laboratory)

- ≤ 99.99 ppm lead result
- 100.00 - 199.99 ppm lead result
- 200.00 - 399.99 ppm lead result
- 400.00 - 599.99 ppm lead result
- 600.00 - 799.99 ppm lead result
- ≥ 800.00 ppm lead result
- Cherryvale residence sampling area
- Former National Zinc facility
- Rodeo grounds area
- Waste water treatment plant sampling area

ppm - parts per million

N

130 0 130

Feet

Source: KDHE. Removal Site Evaluation for the Cherryvale Residential Yards Site. March 2001.
KDHE Expanded Site Inspection for the Former National Zinc Site. 2001.
Tetra Tech. Removal Action Summary Report for National Zinc Site. December 2002.
ESRI Imagery Base Mapping, 2013.

National Zinc Site Re-Assessment
Cherryvale, Kansas

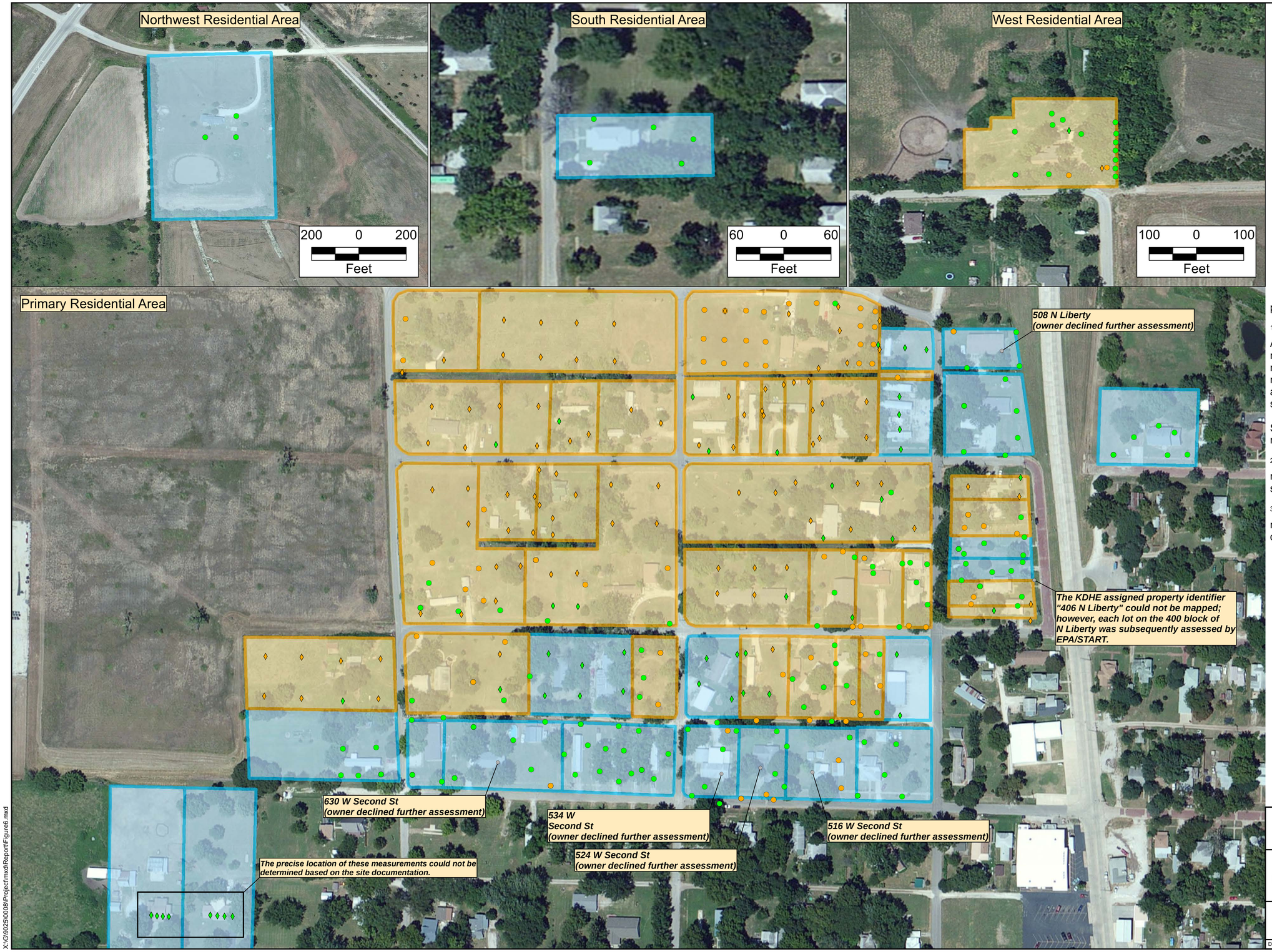
Figure 5C

Pre-Removal Soil Laboratory Lead Measurements

TETRA TECH

Date: 2/21/2014 Drawn By: Colin Willits Project No: 103X9025140008.000

X:\G9025\0008\Project\mxd\Report\Figure5C_022114.mxd



Legend

Relevant residential soil lead measurements[1]

Ex-situ measurement[2]

- < 400 ppm lead result
- ≥ 400 ppm lead result

In-situ measurement[3]

- < 400 ppm lead result
- ≥ 400 ppm lead result

Survey unit with no excavation resulting

Survey unit with excavation resulting

ppm - parts per million

[1] Measurements relevant for comparison to the Removal Action criterion of 400 ppm lead include pre-removal measurements obtained via XRF analysis of homogenized, multi-aliquot surface soil samples samples (ex-situ measurements). Where no ex-situ measurements are available, in-situ XRF measurements of the ground surface may be relevant; such measurements are shown.

See Figure 7 for measurements in "right-of-way" and non-residential areas.

[2]Ex-situ XRF measurements are the average of three repeated XRF readings of a multi-aliquot, homogenized sample.

[3]The maximum in-situ measurement is depicted where multiple readings are associated with a single sampling quadrant.

N

100 0 100

Feet

Source: KDHE. Removal Site Evaluation for the Cherryvale Residential Yards Site. March 2001.
KDHE Expanded Site Inspection for the Former National Zinc Site. 2001.
Tetra Tech. Removal Action Summary Report for National Zinc Site. December 2002.
ESRI Imagery Base Mapping, 2013.

National Zinc Site Re-Assessment
Cherryvale, Kansas

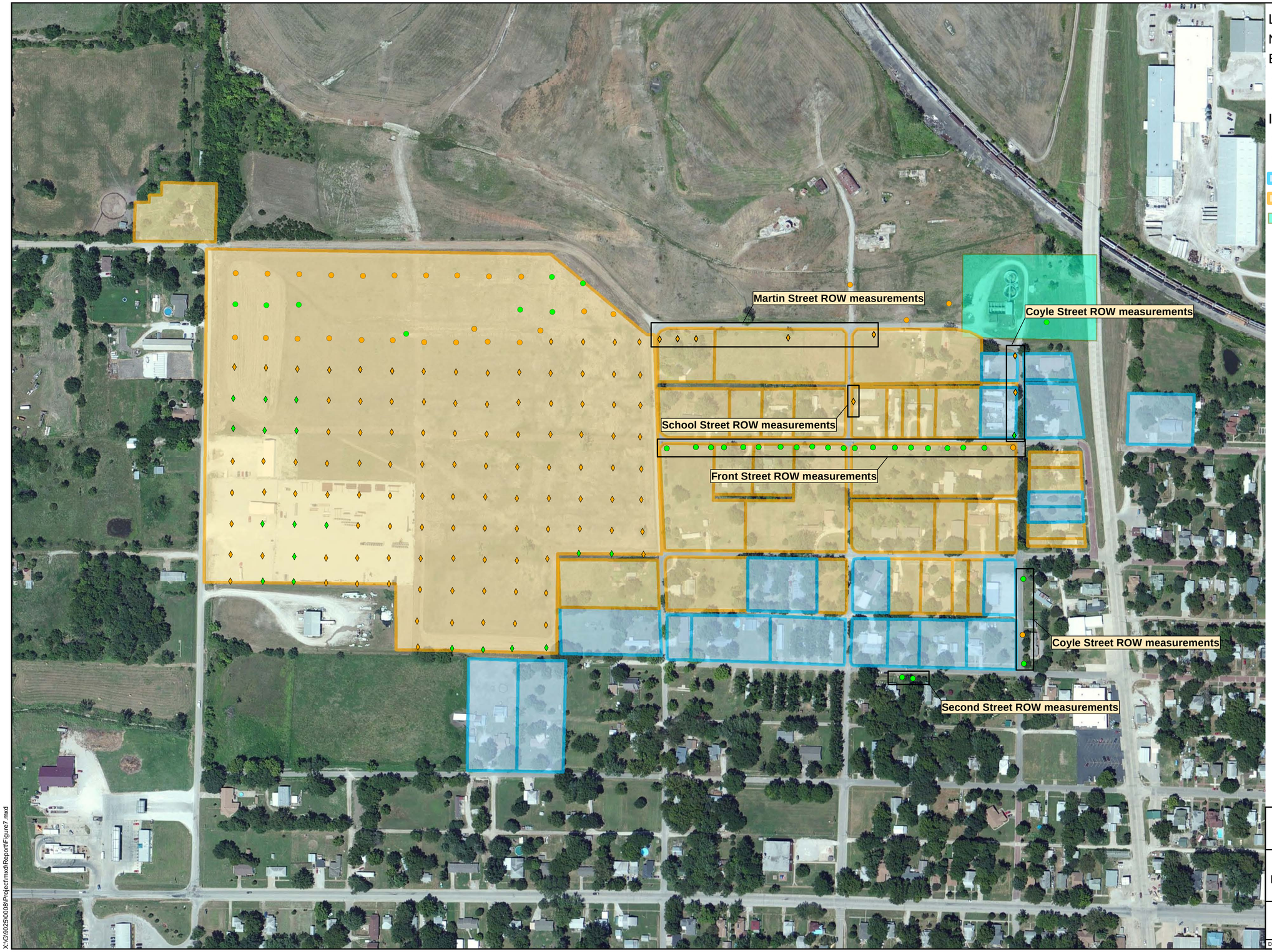
Figure 6

Relevant Residential Area Soil Lead Measurements Compared to the Removal Action Criterion

TETRA TECH

Date: 1/20/2014 Drawn By: Colin Willits Project No: 103X9025140008.000

X:\G\9025\0008\Project\mxd\Report\Figure6.mxd



Legend

Non-residential and ROW soil lead measurements

Ex-situ XRF measurement[1]

- < 400 ppm lead result
- ≥ 400 ppm lead result

In-Situ XRF Measurement[2]

- < 400 ppm lead result
- ≥ 400 ppm lead result
- Survey unit with no excavation resulting
- Survey unit with excavation resulting
- Waste water treatment plant sampling area

ppm - parts per million
ROW - right-of-way

[1]Ex-situ XRF measurements are the average of three repeated XRF readings of a multi-aliquot, homogenized sample. This average is depicted.

[2]The maximum in-situ measurement is depicted where multiple readings are associated with a single sampling quadrant.

N

150 0 150

Feet

Source: KDHE. Removal Site Evaluation for the Cherryvale Residential Yards Site. March 2001.
KDHE Expanded Site Inspection for the Former National Zinc Site. 2001.
Tetra Tech. Removal Action Summary Report for National Zinc Site. December 2002.
ESRI Imagery Base Mapping, 2013.

National Zinc Site Re-Assessment
Cherryvale, Kansas

Figure 7

Non-Residential Area and Right-of-Way Measurements Compared to the Removal Action Criterion

TETRA TECH

Date: 2/21/2014 Drawn By: Colin Willits Project No: 103X9025140008.000

X:\G\9025\0008\Project\mxd\Report\Figure7.mxd

APPENDIX B

ANALYSIS OF ASSESSMENT AND REMOVAL ACTION DATA

TABLE B-1
SUMMARY OF PROPERTIES ASSESSED BY KDHE AND EPA BETWEEN MARCH 2001 AND MARCH 2002
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

Scribe No.	Property Name *(Alias)*	Property Type	Date Assessed by KDHE (Pre-Removal)	Date(s) Assessed by EPA (Pre-Removal)	Removal action (excavation) by EPA resulted?	Date(s) of Post-Excavation Assessment by EPA
[001]	0 Martin St	lot	*NA*	11/30/2001	Yes	12/7/2001
[002]	271 - A	residence	12/18/2001	*NA*	No	-
[003]	334 W Front St	residence	12/6/2001	*NA*	No	-
[004]	400 N Liberty	residence	11/28/2001	12/6/2001	Yes	1/3/2002
[005]	404 N Liberty	residence	11/28/2001	12/6/2001	Yes	1/3/2002
[006]	408 N Liberty	residence	11/28/2001	*NA*	No	-
[007]	412 N Liberty	residence	11/28/2001	*NA*	No	-
[008]	416 N Liberty	residence	11/28/2001	*NA*	Yes	1/4/2002
[009]	420 N Liberty	residence	11/28/2001	12/6/2001	Yes	1/6/2002
[010]	435 Butler	residence	12/6/2001	*NA*	No	-
[011]	500, 502, 504, 506 Coyle St	residence	*NA*	11/7 - 11/8/2001	No	-
[012]	500 W First St	residence	10/31/2001	11/30/2001	Yes	12/4/2001
[013]	501 Martin St and 508 Coyle St	residence	*NA*	11/7 - 11/8/2001	No	-
[014]	502 N Liberty	residence	11/28/2001	*NA*	No	-
[015]	505 - 513 W Front St *(509 Front St)*	residence	3/6/2001	11/16/2001	Yes	11/30/2001
[016]	506 W First St	residence	10/31/2001	12/5/2001	Yes	12/3/2001
[017]	508 N Liberty	residence	11/28/2001	*NA*	No	-
[018]	508 W Second St	residence	11/15/2001	*NA*	No	-
[019]	509 W First St	residence	10/31/2001	*NA*	Yes	12/7 - 12/12/2001
[020]	511 Martin St	residence	3/5/2001	11/6 - 11/16/2001	Yes	11/13/2001
[021]	511 W First St	residence	10/31/2001	11/26/2001	Yes	12/7/2001
[022]	512 W Front St	residence	*NA*	11/8/2001	Yes	11/14/2001
[023]	514 W First St	residence	10/31/2001	11/26/2001	Yes	12/7/2001
[024]	515 W First St	residence	*NA*	11/26/2001	Yes	12/6/2001
[025]	516 W Second St	residence	11/15/2001	*NA*	No	-
[026]	520 W Front St	residence	3/6/2001	*NA*	Yes	3/28/2002
[027]	524 W Front St	residence	3/6/2001	*NA*	Yes	11/14/2001
[028]	524 W Second St	residence	11/15/2001	*NA*	No	-
[029]	527 W First St *(Vacant lot on First St. / Lindquist)*	residence	10/31/2001 and 11/8/2001	11/26 and 12/5/2001	Yes	12/7/2001
[030]	529 W First St	residence	11/15/2001	*NA*	No	-
[031]	Waste Water Treatment Plant	non-residential	*NA*	12/3/2001	No	-
[032]	530 W Front St	residence	*NA*	11/9/2001	Yes	11/14/2001
[033]	532 W First St	lot	10/31/2001	12/4/2001	Yes	3/28/2002
[034]	534 W Second St	residence	11/15/2001	*NA*	No	-
[035]	536 W Front St	residence	3/6/2001	11/9/2001	Yes	11/15/2001
[036]	5399 County Road 5050	residence	12/18/2001	1/5/2002	Yes	1/6/2002
[037]	605 & 609 W First St	residence	*NA*	12/3 - 12/4/2001	No	-
[038]	606 W First St & 609 W Front St	lot	11/8/2001	11/28/2001	Yes	12/5/2001
[039]	610 & 614 W Front St	residence	3/6/2001	*NA*	Yes	11/15/2001
[040]	602, 604, 608, 612, 614 W Second St	residence	11/8/2001	*NA*	No	-
[041]	617 W Front St	residence	3/6/2001	*NA*	Yes	11/28/2001
[042]	618 W Front St	residence	3/6/2001	*NA*	Yes	11/15/2001

TABLE B-1
(continued)
SUMMARY OF PROPERTIES ASSESSED BY KDHE AND EPA BETWEEN MARCH 2001 AND MARCH 2002
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

Scribe No.	Property Name *(Alias)*	Property Type	Date Assessed by KDHE (Pre-Removal)	Date(s) Assessed by EPA (Pre-Removal)	Removal action (excavation) by EPA resulted?	Date(s) of Post-Excavation Assessment by EPA
[043]	620 W Front St	residence	3/6/2001	11/12/2001	Yes	11/15 - 11/16/2001
[044]	621 W Front St	residence	3/6/2001	11/12/2001	Yes	11/26/2001
[045]	629 Martin St *(619 Martin St)*	residence	3/6/2001	11/7/2001	Yes	11/13/2001
[046]	630 W Second St	residence	11/8/2001	*NA*	No	-
[047]	634 W Front St	residence	*NA*	11/10/2001	Yes	11/16/2001
[048]	635 W First St	residence	11/8/2001	*NA*	Yes	12/14/2001
[049]	638 W First St / 635 W Front St	lot	11/15/2001	11/29/2001	Yes	12/12/2001
[050]	640 W Second St	residence	11/8/2001	*NA*	No	-
[051]	700 W Second St	residence	12/6/2001	*NA*	No	-
[052]	726 W Third St	residence	*NA*	3/7/2002	No	-
[053]	730 W Third St	residence	*NA*	3/10/2002	No	-
[054]	Alley, between Front and Martin St	right-of-way	3/6/2001	*NA*	No	-
[055]	Arias Vacant Lot *(SW corner of First & School)*	lot	11/15/2001	*NA*	Yes	12/14/2001
[056]	background[1]	various background sampling locations	*NA*	3/3 - 3/8/2002	No	-
[057]	Drainage ditch west of Coyle St, south of Martin St	drainage ditch	*NA*	11/7/2001	Yes	11/13/2001
[058]	Montgomery Co. Rural Fire *(Southwest corner of 1st and Coyle St.)*	non-residential	*NA*	11/30/2001	No	-
[059]	Ponderosa Property *(701 W First St / 610 E. Fifth St[2])*	non-residential	*NA*	3/5/2002	Yes	4/4/2002
[060]	Right-of-way, soil adjacent to sidewalk	right-of-way	11/15/2001	*NA*	No	-
[061]	Right-of-way, Coyle St *(Coyle ERROW)*	right-of-way	3/6/2001 and 11/15/2001	*NA*	No	-
[062]	Right-of-way, Front St	right-of-way	*NA*	11/16/2001	No	-
[063]	Right-of-way, Martin St	right-of-way	3/6/2001	*NA*	No	-
[064]	Right-of-way, School St	right-of-way	3/6/2001	*NA*	No	-
[065]	Right-of-way, Second St *(Second St. SRROW)*	right-of-way	11/15/2001	*NA*	No	-
[066]	Rodeo Grounds	lot used for a rodeo grounds	*NA*	1/4/2001 - 3/1/2002	Yes	1/6/2002 - 3/27/2002
[067]	*"406 N Liberty"*[3]	residence[3]	11/28/2001	*NA*	No[3]	-

Notes

EPA U.S. Environmental Protection Agency KDHE Kansas Department of Health and Environment *NA* not assessed

[1] Several locations were sampled to assess background surface soil lead concentrations to provide information for a Hazard Ranking System scoring.

[2] Field staff erroneously recorded this property as "610 E. Fifth Street" on a field sheet—this address is the mailing address of the property owner. No assessment was performed at 610 E. Fifth Street. The assessed property is 701 W. First Street, and was also referred to as the "Ponderosa Property."

[3] KDHE recorded a soil sample collected on 11/28/01 as having been sampled at “406 N. Liberty”—an address not matching the known addresses on the 400 block of N. Liberty. See Table 3 for findings related to this sample.

TABLE B-2
EXAMINATION OF MAXIMUM SURFACE SOIL LEAD MEASUREMENTS FOR PROPERTIES NOT SUBJECT TO REMOVAL ACTION BY EPA IN 2001/2002
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

Scribe No.	Property Name *(Alias)*	Property Type	Maximum Surface Soil Lead Measurement Recorded[1] (ppm)	Property Flagged for Additional Examination? (see Table 3)[2]
[002]	271 - A	residence	103	no
[003]	334 W Front St.	residence	314	no
[006]	408 N Liberty	residence	365	no
[007]	412 N Liberty	residence	341	no
[010]	435 Butler	residence	264	no
[011]	**500, 502, 504, 506 Coyle St.**	**residence**	**788**	**yes**
[013]	**501 Martin St and 508 Coyle St.**	**residence**	**700**	**yes**
[014]	502 N Liberty	residence	332	no
[017]	**508 N Liberty**	**residence**	**672**	**yes**
[018]	508 W Second St.	residence	354	no
[025]	**516 W Second St.**	**residence**	**561.57**	**yes**
[028]	**524 W Second St.**	**residence**	**1,012.93**	**yes**
[030]	**529 W First St.**	**residence**	**440.96**	**yes**
[031]	**Waste Water Treatment Plant**	**non-residential**	**3,650**	**yes**
[034]	**534 W Second St.**	**residence**	**544.05**	**yes**
[037]	605 & 609 W First St.	residence	351	no
[040]	602, 604, 608, 612, 614 W Second St.	residence	306	no
[046]	**630 W Second St.**	residence	**570.24**	**yes**
[050]	640 W Second St.	residence	220	no
[051]	700 W Second St.	residence	233	no
[052]	726 W Third St.	residence	235	no
[053]	**730 W Third St.**	**residence**	**457**	**yes**
[054]	**Alley, between Front and Martin St.**	**right-of-way**	**2,270**	**yes**
[056]	background	background	100	no
[058]	Montgomery County Rural Fire (*SW corner of 1st and Coyle St.*)	non-residential	231	no
[060]	**Right-of-way, soil adjacent to sidewalk**	**right-of-way**	**864**	**yes**
[061]	**Right-of-way, Coyle St.**	**right-of-way**	**632**	**yes**
[062]	**Right-of-way, Front St.**	**right-of-way**	**694**	**yes**
[063]	**Right-of-way, Martin St.**	**right-of-way**	**1,370**	**yes**
[064]	**Right-of-way, School St.**	**right-of-way**	**577**	**yes**
[065]	Right-of-way, Second St.	right-of-way	128	no
[067]	***"406 N. Liberty"*** [3]	**residence**[3]	**1,710**	**yes**

Notes:

Shading and bold type indicates a property flagged for additional examination.

EPA U.S. Environmental Protection Agency
KDHE Kansas Department of Health and Environment
ppm Parts per million

[1] As a simple screening measure, the maximum soil lead measurement recorded for each property assessed by EPA/KDHE in 2001 or 2002, but not subject to a removal action (removal of surface soils), is listed in this column. This value is not necessarily relevant for comparison to the removal action criterion.

[2] Properties associated with soil lead measurements exceeding 400 ppm are flagged for additional examination (see Table 3).

[3] KDHE recorded a soil sample collected on 11/28/01 as having been sampled at "406 N. Liberty"—an address not matching the known addresses on the 400 block of N. Liberty. See Table 3 for findings related to this sample.

TABLE B-3
ANALYSIS OF SAMPLING DATA FOR PROPERTIES FLAGGED FOR RE-EVALUATION
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

<table>
<tr><th rowspan="2">Property Name and Other Identifiers</th><th colspan="2">Results of KDHE Assessment</th><th colspan="2">Results of EPA Assessment</th><th rowspan="2">EPA/KDHE Actions</th><th rowspan="2">Resolution</th></tr>
<tr><th>Pre-Removal Assessment Date(s)</th><th>Maximum Recorded Lead Concentrations and Measurement Types</th><th>Pre-Removal Assessment Date(s)</th><th>Maximum Recorded Lead Concentrations and Measurement Types</th></tr>
<tr><td>500, 502, 504, 506 Coyle St.

(Scribe Property No. 011)</td><td>Property not sampled by KDHE</td><td>Property not sampled by KDHE</td><td>11/7/2001 and 11/8/2001</td><td><u>Maximum recorded measurement:</u>
788 ppm (a single XRF spot measurement of the ground surface)

<u>Maximum measurement suitable for direct comparison to removal action criterion:</u>
312 ppm (average of three XRF readings of a homogenized, multi-aliquot sample)</td><td>On 11/7/2001, EPA/START obtained preliminary soil lead measurements by recording several in-situ, ground surface spot measurements with an XRF; some measurements exceeded 400 ppm (a maximum measurement of 788 ppm was recorded), indicating additional assessment was warranted. On 11/8/2001, START assessed the property using sampling methods specified in the approved QAPP, defining four cells—Quads A, B, C, and D—and collecting a multi-aliquot surface soil sample within each cell. Each sample was homogenized, and then three repeated lead concentration measurements were obtained using a Niton XRF spectrometer. <u>None of these XRF measurements exceeded 400 ppm; thus the property did not meet the criteria for a removal action.</u> The XRF measurements by START of the multi-aliquot surface soil samples are summarized as follows:
<table>
<tr><th rowspan="2">Cell</th><th colspan="4">Lead Concentration Measurements (ppm)</th></tr>
<tr><th>Reading 1</th><th>Reading 2</th><th>Reading 3</th><th>Average</th></tr>
<tr><td>A</td><td>228</td><td>277</td><td>192</td><td>232</td></tr>
<tr><td>B</td><td>329</td><td>308</td><td>300</td><td>312</td></tr>
<tr><td>C</td><td>248</td><td>270</td><td>287</td><td>268</td></tr>
<tr><td>D</td><td>123</td><td>121</td><td>176</td><td>140</td></tr>
</table></td><td>The relevant lead concentration measurements did not exceed the removal action criterion of 400 mg/kg (equivalent to 400 ppm); thus no removal action by EPA resulted.</td></tr>
<tr><td>501 Martin and 508 Coyle St.

(Scribe Property No. 013)</td><td>Property not sampled by KDHE</td><td>Property not sampled by KDHE</td><td>11/7/2001 and 11/8/2001</td><td><u>Maximum recorded measurement:</u>
700 ppm (a single XRF spot measurement of the ground surface)

<u>Maximum measurement suitable for direct comparison to removal action criterion:</u>
388 ppm (average of three XRF readings of a homogenized, multi-aliquot sample)</td><td>On 11/7/2001, EPA/START took preliminary soil lead measurements, recording several in-situ, ground surface spot measurements using an XRF spectrometer; some measurements exceeded 400 ppm (a maximum measurement of 700 ppm was recorded), indicating additional assessment was warranted. On 11/8/2001, START assessed the property using sampling methods specified in the approved QAPP, defining three cells —Quad A, B, and C—and collecting a multi-aliquot surface soil sample within each cell. Each of these samples was homogenized, and then three repeated lead concentration measurements were obtained using a Niton XRF spectrometer. One of the individual measurements exceeded 400 ppm lead; however, the relevant lead concentration measurements—the average of repeated XRF readings—did not exceed 400 ppm. The XRF measurements by START of the multi-aliquot surface soil samples are summarized as follows:
<table>
<tr><th rowspan="2">Cell</th><th colspan="4">Lead Concentration Measurements (ppm)</th></tr>
<tr><th>Reading 1</th><th>Reading 2</th><th>Reading 3</th><th>Average</th></tr>
<tr><td>A</td><td>311</td><td>344</td><td>337</td><td>331</td></tr>
<tr><td>B</td><td>357</td><td>410</td><td>398</td><td>388</td></tr>
<tr><td>C</td><td>263</td><td>277</td><td>286</td><td>275</td></tr>
</table></td><td>The relevant lead concentration measurements did not exceed the removal action criterion of 400 mg/kg (equivalent to 400 ppm); thus no removal action resulted.</td></tr>
</table>

TABLE B-3
(continued)
ANALYSIS OF SAMPLING DATA FOR PROPERTIES FLAGGED FOR RE-EVALUATION
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

<table>
<tr><th rowspan="2">Property Name and Other Identifiers</th><th colspan="2">Results of KDHE Assessment</th><th colspan="2">Results of EPA Assessment</th><th rowspan="2">EPA/KDHE Actions</th><th rowspan="2">Resolution</th></tr>
<tr><th>Pre-Removal Assessment Date(s)</th><th>Maximum Recorded Lead Concentrations and Measurement Types</th><th>Pre-Removal Assessment Date(s)</th><th>Maximum Recorded Lead Concentrations and Measurement Types</th></tr>
<tr><td>508 N. Liberty St.

(Scribe Property No.017)</td><td>11/28/2001</td><td>672 mg/kg (single-aliquot, surface soil grab sample submitted for laboratory analysis)</td><td>Property not sampled by EPA</td><td>Property not sampled by EPA</td><td>On 11/28/2001, KDHE took six in-situ, ground surface spot measurements using an XRF spectrometer; one measurement (411.6 ppm) exceeded 400 ppm. KDHE also submitted one single-aliquot (grab), surface soil sample for laboratory analysis; a lead concentration of 672 mg/kg resulted. On 12/3/2001 and 12/4/2001, <u>EPA discussed the KDHE results with the homeowner, and the homeowner indicated disinterest in pursuing additional sampling or possible cleanup activities.</u> A record of this discussion is in EPA's field logbook for the site (see the third page of the 12/4/2001 entry and the third page of the 12/5/2001 entry).</td><td>Homeowner declined further sampling or possible cleanup activities; thus no removal action resulted.</td></tr>
<tr><td>529 W. First St.

(Scribe Property No. 030)</td><td>11/15/2001</td><td>440.96 mg/kg (single-aliquot, surface soil grab sample submitted for laboratory analysis)</td><td>11/26/2001 and 12/4/2001</td><td><u>Maximum recorded measurement:</u>
339 ppm (one of three repeated measurements obtained via XRF spectrometry of a homogenized, multi-aliquot soil sample)

<u>Maximum measurement suitable for direct comparison to removal action criteria:</u>
288 ppm (average of three XRF readings of a homogenized, multi-aliquot sample)</td><td>On 11/15/2001, KDHE took six in-situ, ground surface spot measurements using an XRF spectrometer; one measurement (423.2 ppm) exceeded 400 ppm. KDHE also submitted one single-aliquot (grab), surface soil sample for laboratory analysis; a lead concentration of 440.96 mg/kg resulted.

On 11/26/2001 and 12/4/2001, START assessed the property using sampling methods specified in the approved QAPP, defining multiple cells —Quad A, B, C, and D and an area further south of the residence— and collecting a multi-aliquot surface soil sample within each cell. Each of these samples was homogenized, and then three repeated lead concentration measurements were obtained using a Niton XRF spectrometer. <u>None of the four samples exhibited lead above 400 ppm:</u>
<table>
<tr><th rowspan="2">Cell</th><th colspan="4">Lead Concentration Measurements (ppm)</th></tr>
<tr><th>Reading 1</th><th>Reading 2</th><th>Reading 3</th><th>Average</th></tr>
<tr><td>A</td><td>84</td><td>78</td><td>73</td><td>57</td></tr>
<tr><td>B</td><td>264</td><td>168</td><td>254</td><td>229</td></tr>
<tr><td>C</td><td>55</td><td>90</td><td>73</td><td>73</td></tr>
<tr><td>D</td><td>145</td><td>129</td><td>128</td><td>134</td></tr>
<tr><td>"Area further than 50 feet from residence to alley"</td><td>193</td><td>332</td><td>339</td><td>288</td></tr>
</table>
Furthermore, on 12/4/2001, <u>EPA discussed the sampling results with the homeowner, and the homeowner indicated disinterest in pursuing additional sampling or possible cleanup activities.</u> Occurrence of this discussion with the homeowner was recorded in the EPA field logbook for the site (see the third page of the 12/4/2001 entry).</td><td>The relevant lead concentration measurements did not exceed the removal action criterion of 400 mg/kg, and furthermore, the homeowner indicated disinterest in pursuing additional sampling or possible cleanup activities; thus no removal action resulted.</td></tr>
</table>

TABLE B-3
(continued)
ANALYSIS OF SAMPLING DATA FOR PROPERTIES FLAGGED FOR RE-EVALUATION
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

Property Name and Other Identifiers	Results of KDHE Assessment		Results of EPA Assessment		EPA/KDHE Actions	Resolution
	Pre-Removal Assessment Date(s)	Maximum Recorded Lead Concentrations and Measurement Types	Pre-Removal Assessment Date(s)	Maximum Recorded Lead Concentrations and Measurement Types		
516 W. Second St. (Scribe Property No. 025)	11/15/2001	561.57 mg/kg (single-aliquot, surface soil grab sample submitted for laboratory analysis)	*Property not sampled by EPA*	*Property not sampled by EPA*	On 11/15/2001, KDHE took six in-situ, ground surface spot measurements using an XRF spectrometer; two measurements (414.8 and 464.8 ppm) exceeded 400 ppm. KDHE also submitted one single-aliquot (grab) surface soil sample for laboratory analysis; a lead concentration of 561.57 mg/kg resulted. On 12/4/2001, EPA discussed the KDHE results with the homeowner, and the homeowner indicated disinterest in pursuing additional sampling or possible cleanup activities. A record of this discussion is in EPA's field logbook for the site (see the third page of the 12/4/2001 entry and the second page of the 12/5/2001 entry).	Homeowner declined further sampling or possible cleanup activities; thus no removal action resulted.
524 W. Second St. (Scribe Property No. 028)	11/15/2001	1,012.93 mg/kg (single-aliquot, surface soil grab sample submitted for laboratory analysis)	*Property not sampled by EPA*	*Property not sampled by EPA*	On 11/15/2001, KDHE obtained seven discrete XRF measurements of the ground surface; four measurements (586.4, 444.8, 401.8, 432.4 ppm) exceeded 400 ppm. KDHE also submitted one single-aliquot (grab) surface soil sample for laboratory analysis; a lead concentration of 1,012.93 mg/kg resulted. On 12/4/2001, EPA discussed the KDHE results with the homeowner, and the homeowner indicated disinterest in pursuing additional sampling or possible cleanup activities. A record of this discussion is in EPA's field logbook for the site (see the fourth page of the 12/4/2001 entry).	Homeowner declined further sampling or possible cleanup activities; thus no removal action resulted.
534 W. Second St. (Scribe Property No. 034)	11/15/2001	544.05 mg/kg (single-aliquot, surface soil grab sample submitted for laboratory analysis)	*Property not sampled by EPA*	*Property not sampled by EPA*	On 11/15/2001, KDHE obtained seven discrete XRF measurements of the ground surface; one measurement (400.4 ppm) exceeded 400 ppm. This measurement was obtained at the northeast corner of the property at a location greater than 50 feet from the residence. KDHE also submitted one single-aliquot (grab), surface soil sample for laboratory analysis; a lead concentration of 544.05 mg/kg resulted. On 12/5/2001, EPA discussed the KDHE results with the homeowner, and the homeowner indicated disinterest in pursuing additional sampling or possible cleanup activities. A record of this discussion is in EPA's field logbook for the site (see the third page of the 12/5/2001 entry).	Homeowner declined further sampling or possible cleanup activities; thus no removal action resulted.
630 W. Second St. (Scribe Property No. 0046)	11/8/2001	570.24 mg/kg (single-aliquot, surface soil grab sample submitted for laboratory analysis)	*Property not sampled by EPA*	*Property not sampled by EPA*	On 11/8/2001, KDHE obtained eight discrete XRF measurements of the ground surface; two measurements (477.6 and 408.8 ppm) exceeded 400 ppm. One of these measurements was obtained at a location greater than 50 feet from the residence. KDHE also submitted one single-aliquot (grab), surface soil sample for laboratory analysis; a lead concentration of 570.24 mg/kg resulted. On 11/30/2001, EPA discussed the KDHE results with the homeowner, and the homeowner indicated disinterest in pursuing additional sampling or possible cleanup activities. A record of this discussion is in EPA's field logbook for the site (see the third page of the 11/30/2001 entry).	Homeowner declined further sampling or possible cleanup activities; thus no removal action resulted.

TABLE B-3
(continued)
ANALYSIS OF SAMPLING DATA FOR PROPERTIES FLAGGED FOR RE-EVALUATION
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

<table>
<tr><th rowspan="2">Property Name and Other Identifiers</th><th colspan="2">Results of KDHE Assessment</th><th colspan="2">Results of EPA Assessment</th><th rowspan="2">EPA/KDHE Actions</th><th rowspan="2">Resolution</th></tr>
<tr><th>Pre-Removal Assessment Date(s)</th><th>Maximum Recorded Lead Concentrations and Measurement Types</th><th>Pre-Removal Assessment Date(s)</th><th>Maximum Recorded Lead Concentrations and Measurement Types</th></tr>
<tr><td>730 W. Third St.

(Scribe Property No. 053)</td><td>Property not sampled by KDHE</td><td>Property not sampled by KDHE</td><td>3/10/2002</td><td><u>Maximum recorded measurement:</u>
457 ppm (one of three repeated measurements obtained via XRF spectrometry of a homogenized, multi-aliquot soil sample)

<u>Maximum measurement suitable for direct comparison to removal action criteria:</u>
387 ppm (average of three XRF readings of a homogenized, multi-aliquot sample)</td><td>On 3/10/2002, START assessed the property using sampling methods specified in the approved QAPP, defining multiple cells —Quads A, B, C, and D—and collecting a multi-aliquot surface soil sample within each cell. Each of the samples was homogenized, and then three repeated lead concentration measurements were obtained using a Niton XRF spectrometer. One of the individual measurements exceeded 400 ppm lead; however, the relevant lead concentration measurements—the average of repeated XRF readings—did not exceed 400 ppm. The XRF measurements by EPA/START are summarized as follows:
<table>
<tr><th rowspan="2">Cell</th><th colspan="4">Lead Concentration Measurements (ppm)</th></tr>
<tr><th>Reading 1</th><th>Reading 2</th><th>Reading 3</th><th>Average</th></tr>
<tr><td>A</td><td>394</td><td>134</td><td>252</td><td>260</td></tr>
<tr><td>B</td><td>217</td><td>184</td><td>188</td><td>196</td></tr>
<tr><td>C</td><td>278</td><td>362</td><td>288</td><td>309</td></tr>
<tr><td>D</td><td>457</td><td>372</td><td>332</td><td>387</td></tr>
</table></td><td>The relevant lead concentration measurements did not exceed the removal action criterion of 400 mg/kg; thus no removal action resulted.</td></tr>
<tr><td>406 N. Liberty

(Scribe Property No. 067)</td><td>11/28/2001</td><td>1,710 mg/kg (single-aliquot, surface soil grab sample submitted for laboratory analysis)</td><td>Property not sampled by EPA</td><td>Property not sampled by EPA</td><td>KDHE recorded a soil sample collected on 11/28/01 as having been sampled at “406 N. Liberty”—an address not matching the known addresses on the 400 block of N. Liberty. The mailing addresses of this block at the time of the 2001/2002 assessment included 400, 404, 408, 412, 416, and 420 N. Liberty. Each of these residential lots was assessed by KDHE/EPA, and removal action proceeded where relevant measurements exceeded the removal action criterion (removals occurred at the 400, 404, 416, and 420 N. Liberty lots).</td><td>Because each of these residential lots of the 400 block of N. Liberty was assessed by KDHE/EPA (with removal action resulting where conditions met the removal action criterion), no further action related to the “406 N. Liberty” sample result appears to be warranted.</td></tr>
<tr><td>Waste Water Treatment Plant

(Scribe Property No. 031)</td><td>Property not sampled by KDHE</td><td>Property not sampled by KDHE</td><td>12/3/2001</td><td>3,650 ppm (a single XRF spot measurement of the ground surface)</td><td>On 12/3/2001, START took soil lead measurements by recording several in-situ, ground surface spot measurements using an XRF spectrometer; some measurements exceeded 400 ppm (a maximum measurement of 3,650 ppm was recorded), indicating additional assessment may be warranted by a potentially responsible party.</td><td>Preliminary soil lead concentrations exceeded 400 mg/kg; however no removal action by EPA resulted because cleanup of the property (a former waste water treatment facility) was not within the scope of EPA’s response action. The assessment data were shared with the potentially responsible party.</td></tr>
</table>

TABLE B-3
(continued)
ANALYSIS OF SAMPLING DATA FOR PROPERTIES FLAGGED FOR RE-EVALUATION
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

Property Name and Other Identifiers	Results of KDHE Assessment		Results of EPA Assessment		EPA/KDHE Actions	Resolution
	Pre-Removal Assessment Date(s)	Maximum Recorded Lead Concentrations and Measurement Types	Pre-Removal Assessment Date(s)	Maximum Recorded Lead Concentrations and Measurement Types		
Alley, between Front and Martin St. (Scribe Property No. 054)	3/6/2001	2,270 ppm (a single XRF spot measurement of the ground surface)	*Property not sampled by EPA*	*Property not sampled by EPA*	KDHE and EPA assessed alleys and right-of-ways along public streets in advance of sampling adjacent residential properties. This sampling provided a general indication of area soil lead levels, and was referenced for project planning purposes. EPA subsequently assessed residential properties along these streets and alleys per the methods described in the approved QAPP.	Results of preliminary assessment of alley and right-of-way areas were referenced for project planning purposes. Residential properties adjacent to these areas were assessed via methods described in the approved QAPP (e.g., by dividing properties into cells and collected multi-aliquot surface soil samples), and removal actions resulted at properties meeting the removal action criterion.
Right-of-way, soil adjacent to sidewalk (Scribe Property No. 060)	11/15/2001	864 ppm (a single XRF spot measurement of the ground surface)	*Property not sampled by EPA*	*Property not sampled by EPA*		
Right-of-way, Coyle St. (Scribe Property No. 061)	3/6/2001 and 11/15/2001	632 ppm (a single XRF spot measurement of the ground surface)	*Property not sampled by EPA*	*Property not sampled by EPA*		
Right-of-way, Front St. (Scribe Property No. 062)	*Property not sampled by KDHE*	*Property not sampled by KDHE*	11/16/2001	694 ppm (a single XRF spot measurement of the ground surface)		
Right-of-way, Martin St. (Scribe Property No. 063)	3/6/2001	1,370 ppm (a single XRF spot measurement of the ground surface)	*Property not sampled by EPA*	*Property not sampled by EPA*		
Right-of-way, School St. (Scribe Property No. 064)	3/6/2001	577 ppm (a single XRF spot measurement of the ground surface)	*Property not sampled by EPA*	*Property not sampled by EPA*		

Notes:

EPA	U.S. Environmental Protection Agency	ppm	Parts per million	START	Superfund Technical Assessment and Response Team
KDHE	Kansas Department of Health and Environment	QAPP	Quality Assurance Project Plan	XRF	X-ray fluorescence
mg/kg	Milligrams per kilogram				

TABLE B-4
FINDINGS FROM RE-ASSESSMENT OF PROPERTIES ASSESSED BY KDHE AND EPA BETWEEN MARCH 2001 AND MARCH 2002
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

Scribe No.[1]	Property Name *(Alias)*	Property Type	Summary of KDHE and EPA Actions in 2001/2002			Findings from Re-Assessment			
			Date(s) of KDHE Assessment (Pre-Removal)	Date(s) of EPA Assessment (Pre-Removal)	Date(s) of EPA Post-Removal Assessment	Further Action Warranted?[2]	Basis for No Further Action		
							Removal action completed[3]	Did not meet criterion for a removal action[4]	Other (explain)
[001]	0 Martin St	lot	*NA*	11/30/01	12/7/01	No	X		
[002]	271 - A	residence	12/18/01	*NA*	*no removal*	No		X	
[003]	334 W Front St	residence	12/6/01	*NA*	*no removal*	No		X	
[004]	400 N Liberty	residence	11/28/01	12/6/01	1/3/02	No	X		
[005]	404 N Liberty	residence	11/28/01	12/6/01	1/3/02	No	X		
[006]	408 N Liberty	residence	11/28/01	*NA*	*no removal*	No		X	
[007]	412 N Liberty	residence	11/28/01	*NA*	*no removal*	No		X	
[008]	416 N Liberty	residence	11/28/01	*NA*	1/4/02	No	X		
[009]	420 N Liberty	residence	11/28/01	12/6/01	1/6/02	No	X		
[010]	435 Butler	residence	12/6/01	*NA*	*no removal*	No		X	
[011]	500, 502, 504, 506 Coyle St	residence	*NA*	11/7 - 11/8/01	*no removal*	No		X[5]	
[012]	500 W First St	residence	10/31/01	11/30/2001	12/4/01	No	X		
[013]	501 Martin St and 508 Coyle St	residence	*NA*	11/7 - 11/8/01	*no removal*	No			
[014]	502 N Liberty	residence	11/28/01	*NA*	*no removal*	No		X	
[015]	505 - 513 W Front St *(509 Front St)*	residence	3/6/01	11/16/01	11/30/01	No	X		
[016]	506 W First St	residence	10/31/01	12/5/01	12/3/01	No	X		
[017]	508 N Liberty	residence	11/28/01	*NA*	*no removal*	No			owner declined[6]
[018]	508 W Second St	residence	11/15/01	*NA*	*no removal*	No		X	
[019]	509 W First St	residence	10/31/01	*NA*	12/7 - 12/12/01	No	X		
[020]	511 Martin St	residence	3/5/01	11/6 - 11/16/01	11/13/01	No	X		
[021]	511 W First St	residence	10/31/01	11/26/01	12/7/01	No	X		
[022]	512 W Front St	residence	*NA*	11/8/01	11/14/01	No	X		
[023]	514 W First St	residence	10/31/01	11/26/01	12/7/01	No	X		
[024]	515 W First St	residence	*NA*	11/26/01	12/6/01	No	X		
[025]	516 W Second St	residence	11/15/01	*NA*	*no removal*	No			owner declined[6]
[026]	520 W Front St	residence	3/6/01	*NA*	3/28/02	No	X		
[027]	524 W Front St	residence	3/6/01	*NA*	11/14/01	No	X		
[028]	524 W Second St	residence	11/15/01	*NA*	*no removal*	No			owner declined[6]
[029]	527 W First St *(Vacant lot on First St. / Lindquist)*	residence	10/31/01, 11/8/01	11/26/01, 12/5/01	12/7/01	No	X		
[030]	529 W First St	residence	11/15/01	*NA*	*no removal*	No		X[5]	
[031]	Waste Water Treatment Plant	non-residential	*NA*	12/3/01	*no removal*	No			referred to PRP[7]
[032]	530 W Front St	residence	*NA*	11/9/01	11/14/01	No	X		
[033]	532 W First St	lot	10/31/01	12/4/01	3/28/02	No	X		
[034]	534 W Second St	residence	11/15/01	*NA*	*no removal*	No		X	
[035]	536 W Front St	residence	3/6/01	11/9/01	11/15/01	No	X		

TABLE B-4
(continued)
FINDINGS FROM RE-ASSESSMENT OF PROPERTIES ASSESSED BY KDHE AND EPA BETWEEN MARCH 2001 AND MARCH 2002
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

Scribe No.[1]	Property Name *(Alias)*	Property Type	Summary of KDHE and EPA Actions in 2001/2002			Findings from Re-Assessment			
			Date(s) of KDHE Assessment (Pre-Removal)	Date(s) of EPA Assessment (Pre-Removal)	Date(s) of EPA Post-Removal Assessment	Further Action Warranted?[2]	Basis for No Further Action		
							Removal action completed[3]	Did not meet criterion for a removal action[4]	Other (explain)
[036]	5399 County Road 5050	residence	12/18/01	1/5/02	1/6/02	No	X		
[037]	605 & 609 W First St	residence	*NA*	12/3 - 12/4/01	*no removal*	No		X	
[038]	606 W First St & 609 W Front St	lot	11/8/01	11/28/01	12/5/01	No	X		
[039]	610 & 614 W Front St	residence	3/6/01	*NA*	11/15/01	No	X		
[040]	602, 604, 608, 612, 614 W Second St	residence	11/8/01	*NA*	*no removal*	No		X	
[041]	617 W Front St	residence	3/6/01	*NA*	11/28/01	No	X		
[042]	618 W Front St	residence	3/6/01	*NA*	11/15/01	No	X		
[043]	620 W Front St	residence	3/6/01	11/12/01	11/15 - 11/16/01	No	X		
[044]	621 W Front St	residence	3/6/01	11/12/01	11/26/01	No	X		
[045]	629 Martin St *(619 Martin St)*	residence	3/6/01	11/7/01	11/13/01	No	X		
[046]	630 W Second St	residence	11/8/01	*NA*	*no removal*	No			owner declined[6]
[047]	634 W Front St	residence	*NA*	11/10/01	11/16/01	No	X		
[048]	635 W First St	residence	11/8/01	*NA*	12/14/01	No	X		
[049]	638 W First St / 635 W Front St	lot	11/15/01	11/29/01	12/12/01	No	X		
[050]	640 W Second St	residence	11/8/01	*NA*	*no removal*	No		X	
[051]	700 W Second St	residence	12/6/01	*NA*	*no removal*	No		X	
[052]	726 W Third St	residence	*NA*	3/7/02	*no removal*	No		X	
[053]	730 W Third St	residence	*NA*	3/10/02	*no removal*	No		X[5]	
[054]	Alley, between Front and Martin St	right-of-way	3/6/01	*NA*	*no removal*	No			right-of-way[8]
[055]	Arias Vacant Lot *(SW corner of First & School)*	lot	11/15/01	*NA*	12/14/01	No	X		
[056]	background[9]	various background sampling locations	*NA*	3/3 - 3/8/02	*no removal*	No		X	
[057]	Drainage ditch west of Coyle St, south of Martin St	drainage ditch	*NA*	11/7/01	11/13/01	No	X		
[058]	Montgomery Co. Rural Fire *(Southwest corner of 1st and Coyle St.)*	non-residential	*NA*	11/30/01	*no removal*	No		X	
[059]	Ponderosa Property *(701 W First St / "610 E. Fifth St")*	non-residential	*NA*	3/5/02	4/4/02	No	X		
[060]	Right-of-way, soil adjacent to sidewalk	right-of-way	11/15/01	*NA*	*no removal*	No			right-of-way[8]
[061]	Right-of-way, Coyle St *(Coyle ERROW)*	right-of-way	3/6/01, 11/15/01	*NA*	*no removal*	No			right-of-way[8]
[062]	Right-of-way, Front St	right-of-way	*NA*	11/16/01	*no removal*	No			right-of-way[8]
[063]	Right-of-way, Martin St	right-of-way	3/6/01	*NA*	*no removal*	No			right-of-way[8]
[064]	Right-of-way, School St	right-of-way	3/6/01	*NA*	*no removal*	No			right-of-way[8]
[065]	Right-of-way, Second St *(Second St. SRROW)*	right-of-way	11/15/01	*NA*	*no removal*	No		X	
[066]	Rodeo Grounds	lot used for a rodeo ground	*NA*	1/4/01 - 3/1/02	1/6/02 - 3/27/02	No	X		

TABLE B-4
(continued)
FINDINGS FROM RE-ASSESSMENT OF PROPERTIES ASSESSED BY KDHE AND EPA BETWEEN MARCH 2001 AND MARCH 2002
NATIONAL ZINC SITE, CHERRYVALE, KANSAS

Scribe No.[1]	Property Name *(Alias)*	Property Type	Summary of KDHE and EPA Actions in 2001/2002			Findings from Re-Assessment			
			Date(s) of KDHE Assessment (Pre-Removal)	Date(s) of EPA Assessment (Pre-Removal)	Date(s) of EPA Post-Removal Assessment	Further Action Warranted?[2]	Basis for No Further Action		
							Removal action completed[3]	Did not meet criterion for a removal action[4]	Other (explain)
[067]	*"406 N Liberty"*	residence	11/28/01	*NA*	-	No			addressed by EPA/KDHE actions at 400 block N. Liberty[10]

Notes

EPA U.S. Environmental Protection Agency KDHE Kansas Department of Health and Environment *NA* Not assessed PRP Potentially responsible party

[1] A Scribe database containing data from the 2001/2002 assessment/removal actions by KDHE and EPA was prepared. This column indicates the Scribe database property number assigned to the property.

[2] Indicates whether, based on review of the 2001/2002 assessment and removal action data, further action by EPA appears to be warranted.

[3] An "X" in this column indicates that a removal action (removal of surface soils) was conducted by EPA during the 2001/2002 Removal Action.

[4] An "X" in this column indicates the property was assessed in 2001/2002 by KDHE and/or EPA, and that based on the relevant measurements obtained, conditions on the property did not meet the criterion for a removal action by EPA.

[5] Although these properties are associated with lead soil measurements of 400 parts per million (ppm) or greater, the relevant lead soil measurements (generally those obtained from multi-aliquot, homogenized soil samples) did not exceed 400 ppm. Thus, the property did not meet the removal action criterion. See Table 3 for property-specific details.

[6] Indicates the homeowner declined further sampling or possible cleanup activities, and therefore, no removal action resulted. See Table 3 for property-specific details.

[7] Preliminary soil lead concentrations exceeded 400 ppm; however no removal action by EPA resulted because cleanup of the property (a former waste water treatment facility) was not within the scope of EPA's response action. The assessment data were shared with the potentially responsible party. See Table 3 for property-specific details.

[8] Results of preliminary assessment of alley and right-of-way areas were used for project planning purposes. Residential properties adjacent to these areas were assessed via methods described in the approved QAPP (e.g., by dividing properties into quadrants and collected multi-aliquot surface soil samples). See Table 3 for property-specific details.

[9] Background soil samples were collected during the 2001/2002 Removal Action to support a Hazard Ranking System scoring.

[10] KDHE recorded a soil sample collected on 11/28/01 as having been sampled at "406 N. Liberty"—an address not matching the known addresses on the 400 block of N. Liberty. However, EPA and KDHE assessed each of the residential lots of this block; thus, no further action related to the "406 N. Liberty" sample result appears to be warranted. See Table 3 for property-specific details.

APPENDIX C

START LOGBOOKS

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

HORIZONTAL LINE

All-Weather Notebook
No. 391

LOG BOOK #1 OF 7

NATIONAL ZINC.

CHERRYVALE, KS

PROJECT #: G9011.2010063.00

MONTGOMERY COUNTY

4 5/8" x 7" - 48 Numbered Pages

COPY

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Nam

Addr = CORREL (D2: D140, E2: E140)

Phor

Project

Yellow Polyethylene Protective Slipcovers (Item #31) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE
	NATIONAL ZINC SITE	
	604 N Liberty ST	
	Cherryvale, KS	
	67335 IT -> 8952	
	# 620·336·8954 - EPA	
	FAX 620·336·8956	
	MICROTEL	
	2917 West Main	
	Independence, KS	
	67301	
	#620·331·0088	
	STAT ANALYSIS LAB	
	2201 West campbell	
	PARK DRIVE, STE 315	
	Chicago, IL. 60612	
	# 312-733·0551	
	CONTACT: BRETT Nicholes	
	FEDEX Acct # 129933895	

10/11/01 G9011.L.0063.00

0700 START TEAM MEMBER meets DON Lunger, OSC for EPA Region 7, at EPA warehouse to visit the National Zinc site in Cherryvale, KS, Montgomery county. The site is a former Zinc Smelter. START has been tasked by EPA Region 7 for a removal of lead from 11 residential properties in Cherryvale Kansas. DAVIS + OSC are to visit county buildings for aerial, property descriptions and to collect samples for backfill at residential properties.

0715 Lunger + DAVIS depart EPA warehouse for an Emergency Response call OSC receives for leaking anahydrous ammonia tank in Kansas bottoms (KC, KS).

0810 depart KC for Cherryvale, KS

1130 Arrive at courthouse. obtain aerial photo + property owner survey.

1200 Arrive at National Zinc Site. IT personel at site, DAVE Brunkmeyer + Bill Cathy. SITE WALK through.

1400 Lunch

1515 City HALL - met mayor + some city council

1600 Arrive at proposed lagoon area which is where Borrow Pit will be - Backfill material

10/11/01 G9011.L.0063.00

to come from this area.

1615 Backfill samples #1-4 collected

1630 Backfill samples are screened 3X with Niton. XRF Readings are as follows:

sample #	XRF Reading
1620 #1 - SW corner	ND < 45.0
	ND < 42.0
	ND < 50.0
1635 #2 - NW corner	ND < 39.0
	ND < 45.0
	ND < 40.0
1640 #3 - NE corner	ND < 45.0
	ND < 40.0
	ND < 41.0
1645 #4 - SE corner	ND < 42.0
	ND < 43.0
	ND < 44.0

All samples collected between 2nd ~~behind~~ flagged area + 2nd telephone pole from tree line at SW corner. Depth 8"-2"

Borrow Pit/Lagoon Area (Proposed) is west across Hwy 169. Street not marked.

2000 DAVIS and Lunger Arrive in KC at EPA warehouse. Samples submitted to STAT Analysis 10/11/01 I. DAVIS

Photo Log (disposable camera)

DATE	TIME	~~DIRECTION~~ FRAME #	description
10/11/01	1233	27	Coyle + Front ST
	1235	26	brick walk on Front ST
	1240	25	School + Front ST, #536
	1246	24	614 Front ST
	1249	23	corner house on Front ST + N. Catherine
	1252	22	proposed Brownfield - Rodeo LOT
	1258	21	corner of Martin + Catherine
	1300	20	" " but with debris pile
	1320	19	Former National Zinc SITE
	1322	18	Stack, Looking SOUTH
	1325	17	Residence
	1620	16	looking NW at sample (#1) location in lagoon/ Borrow Pit area
	1635	15	looking N-NW at 2nd sample location at Borrow Pit
	1640	14	looking at 3rd sample location at Borrow Pit
	1645	13	looking N at 4th sample Location
	1648	12	looking at proposed city lagoon area (Borrow Pit) Taken from SW corner

11/5/01 G9011.L.0663.00

0800 START Member Ingrid DAVIS arrives at courthouse in Independence, KS to obtain legal descriptions of properties at the National Zinc site. Approximately 11 residential yards will be excavated to a maximum depth of 24" (in highly utilized areas by children and gardens) or to a depth of 12".

10:00 DAVIS departs courthouse with legal descriptions of site properties

Weather: foggy, ≈ 45°F, expected high of 70°F, sunny, calm

10:40 DAVIS performs site setup at National Zinc site. Wastewater Treatment Plant is being used for office, on Martin ST. DAVIS calibrates the Niton XRF to perform Readings on the gravel roads between the residential areas to be excavated. No problems

1115 3 50 XRF readings are taken every 50' along gravel road, from North to South, 0-2" DAVIS grids W 1st street out every 50' (intersection of N Coyle STreet + W 1st STreet), highest of 3 readings will be recorded

1130 NE corner of 1st grid from intersection (mentioned above) <76 ppm

11/5/01 G9011.L.0063.00

1135 2nd reading, 1st grid, center <80 ppm (on W 1st) (<74 ppm, <76 ppm)

1140 3rd reading, 1st grid (on W 1st), SW corner, <75 ppm (<80 ppm, <76 ppm)

1145 1st reading, 2nd grid (W 1st), center, <78 ppm

1150 2nd reading, 2nd grid (W 1st), NE corner, <73 ppm

1152 3rd reading, 2nd grid (W 1st), <70 ppm, SW corner

NOTE: Davis spoke with a man grading the roads for the city. He stated that the roads are going to be paved, pending on the decision at tonights city council meeting. Davis phones EPA OSC Don Luninger to inform him that the roads are going to be paved. He stated that he had been told that but at the time is wasn't confirmed. Luninger stated to continue taking XRF readings along the road but not necessarily every 50'. Davis randomly screens the rest of W 1st street. A sieve, 2.00 millimeter, 0.0787 inches, #9 mesh, is used to screen gravel with XRF. Sieve meets ASTME 11 specifications

1200 Center of W 1st gravel road, in front of resident 514 W 1st St., <76 ppm XRF

11/5/01 G9011.L.0063.00

1215 XRF reading in front of 527 W 1st St, <59 ppm

1220 XRF reading at intersection of School St + W. 1st St, <68 ppm

1235 XRF reading taken in front of 1st residence west of School St on gravel road (N side of road), <78 ppm ND

1245 XRF reading taken on South side of gravel Road, across from gravel driveway located at 638 W 1st St, <82 ppm ND

1252 XRF reading collected at intersection of W 1st St and North Catherine, collected in middle of intersection, <74 ppm

1300 XRF reading taken N of intersection of W 1st St and N Catherine, approximately 100', center of road, <78 ppm ND (<67 ppm, <65 ppm)

1315 XRF reading taken at intersection of N Catherine and Front St, <67 ppm, <77 ppm, <54 ppm

NOTE: Front St has been graded by city

1530 XRF reading taken on N side of gravel road on Front St, by 620 Front St residence, 191 ppm ± 63, 162 ppm ± 73, 177 ppm ± 68

11/5/01 G9011.2.0063.00

XRF is cooling on ac in vehicle. The detector is not cooling to appropriate temperature - Current temp is 28.9°C set temp is 30.0°C

1340 XRF Reading taken on gravel road between residences 620 + 621 Front ST, <69 ppm, <59 ppm, < 62 ppm (ND)

1350 XRF reading taken in front of residence 40 Front ST, near intersection of Front ST + School ST, <80 ppm, 133 ± 58 ppm 94.5 ± 56 ppm, Collected on N side of gravel road

1358 XRF readings collected between (b/n) residence's 536 + 530 Front ST, on south side of gravel road, <77 ppm, 151 ± 64 ppm, <78 ppm, 90.6 ± 56.0 ppm

1406 XRF reading taken in center of gravel road on Front ST, in front of residence located at 513 Front ST., <71 ppm, <63 ppm, <67 ppm

1412 XRF reading collected at 505 Front ST, (intersection of Arcoyle ST + Front ST, center of gravel road, <73 ppm, <69.0 ppm, <57 ppm

11/5/01 G9011.L.0063.00

1420 XRF reading taken in center of gravel road on School ST, approximately 100' North of intersection of school ST and W 1st ST., 95.8 ± 60 ppm, 132 ± 48 ppm, 107 ± 45 ppm

1429 XRF reading taken in gravel road North of intersection of Front ST and School ST, (reading taken on School ST, 167 ± 65.00 ppm, 250 ± 73 ppm, 278 ± 78 ppm

1440 XRF reading taken at intersection of Martin ST and N. Catherine ST, 153 ± 64 ppm, 149 ± 63 ppm, 109 ± 59 ppm

1446 XRF readings taken on N. Catherine Street in front of residence located at 110 in Front of Thompson's, <68 ppm (ND), <74 ppm, <66 ppm (ND)

1500 XRF readings taken on Martin ST, approximately 100' west of school ST. on south side of road, 444 ± 88 ppm, 534 ± 96 ppm, 403 ± 85 ppm. Above removal action level of 400 ppm

NOTE: XRF Niton unit needed to be cooled

1518 XRF reading collected at West entrance to WWTP, <76 ppm.

11/5/01 G9011.L.0063.00

<69ppm, <68ppm

NOTE: IT is present at site, have been performing site setup and grading road for stock piling.

1522 Screening of gravel roads in residential removal area is complete. One area exceeded the action level of 400ppm. Area is located ≈ 100' west of school street, along (on) Martin Street.

1525 Davis begins to measure stock pile. Stock pile will be divided into general area/quadrants and field screened with the XRF. 1st XRF reading in NW corner ~~2780ppm~~ 20

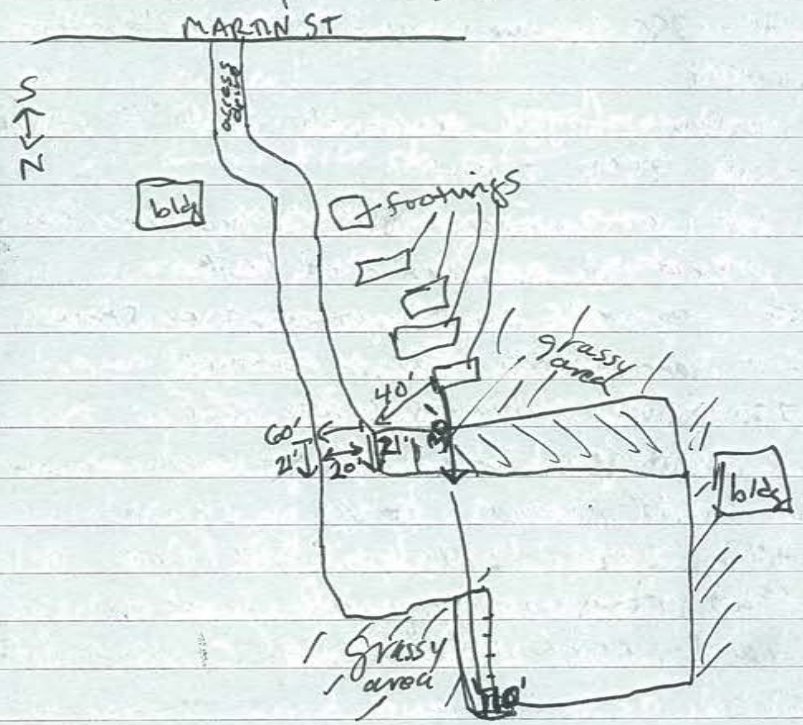
1630 Depart site for hotel - see next page

1710 Arrive at hotel. Davis works on National Zinc site info.

[signature] 11/5/01

11/5/01 G9011.L.0063.00

Stock pile site sketch



1630 Davis + IT members depart site for the day

1830 Davis reviews site information regarding property owners and area of each parcel

2000 Davis zeros miniram #15 and charges equipment

[signature] 11/5/01

11/6/01 G9011.L.0063.00

0700 START team member DAVIS arrives on-site. OSC Lunger and IT members are present

Weather: foggy, currently ≈ 47°F, expected high 75°F, sunny

0715 IT manager Bill Cathey reviews project description and task

Note: gas wells may be present on some site properties. Ed, IT FOREMAN

0730 DAVIS calibrates Niton XRF

IT crew does site walk through, Lunger + DAVIS discuss tactics on removal

0745 DAVIS talks to Steve Page regarding any special items in yard, noted utilities, etc see field sheet.

815 DAVIS video tapes 511 Martin ST + performs site sketch

0917 DAVIS grids out 511 Martin for excavation

0950 Davis does site walk through on 619 (629) Martin ST, Mr. Thompson wants to leave ash + maple tree, garden in SE corner, leave tree at gate entrance off of N Catherine ST, rock garden on N catherine can be demolished - may be

11/6/01 G9011.L.0063.00

Trees to be removed are being marked with spray paint (trees are being pointed out by owner)

1030 DAVIS video tapes 629 Martin + performs site sketch

1130 511 + 629 Martin Street to be screened with Niton. At 629 Martin screen area in front of house, off of N Catherine street, that is not in gate. At 511 Martin, screen all yard outside of 50' from house

1140 500-510 Coyle ST + 512 Front ST need to be screened with XRF/NITON

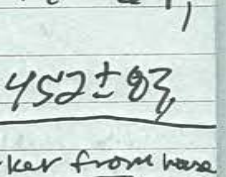
1146 DAVIS arrives at 511 Martin ST to screen yard outside of 50' radius/grid's from house with XRF

1250 XRF reading in cell #3 (from middle) reading is 643 ± 83, 712 ± 81, 488 ± 80

1255 cell #2, XRF reading 294 ± 69, 347 ± 70, 328 ± 73

1302 cell #1, XRF Reading 452 ± 83, 403 ± 79, 444 ± 88

1311 cell #4 364 ± 62, 481 ± 76, 397 ± 46



continue next page →

11/6/01 G9011.L.0063.00

1316 cell # 5, North DD cell # 4 ~~West of driveway~~ in 28' grids (last cell that borders neighbor property) 425 ± 60 ; 478 ± 51; 1250 ± 110 XRF readings

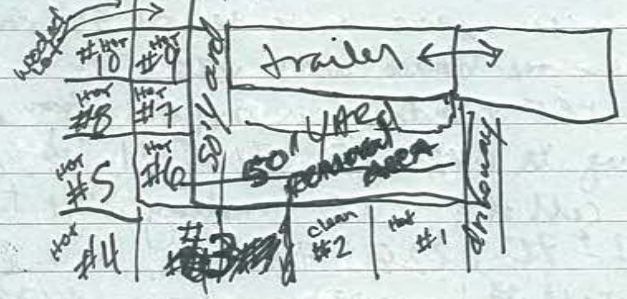
1325 cell #6, (1st cell N east of 50' removal area around house) XRF reading 476 ± 82 ; 482 ± 58; 212 ± 60

1338 cell # 7 XRF Readings 508 ± 64; 348 ± 57; 716 ± 67

1348 XRF readings on cell #8 291 ± 47; 416 ± 57; 264 ± 38 ; 290 ± 42

1355 XRF Readings on cell #9, 584 ± 64 543 ± 62; 141 ± 28

1400 XRF Readings on cell #10; 352 ± 53; 419 ± 77; 219 ± 52



1425 ONE CELL Not to be removed from outside 50' removal area, east of house/driveway + immediately west of houses 500-510 Coyle ST, CELL #2 (NO REMOVAL = CLEAN) All OTHER CELLS Above 400 ppm

11/6/01 G9011.L.0063.00

1425 DAVIS GOES TO LUNCH

1500 DAVIS RETURNS FROM LUNCH + BEGINS TO SCREEN WEST LOT OF PROPERTY 511 MARTIN ST WITH NITON XRF

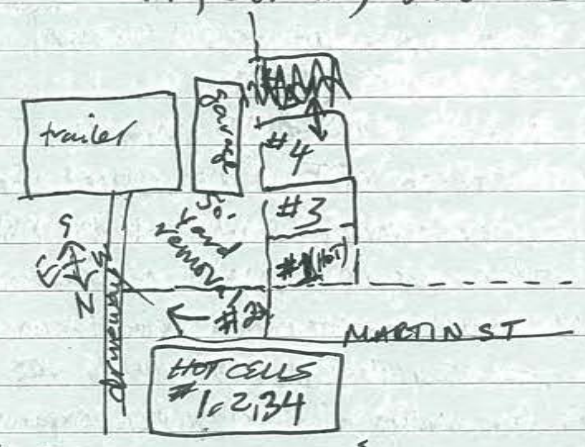
NOTE: SCHOOL ST IS BEING PAVED by CITY

1625 XRF reading west of 511 Martin residence (IN their west lot/see diagram) #1 XRF 377 ± 54; 692 ± 93; 577 ± 85

NOTE: west lot is divided into 50' grid, at an approximate, approximately 6-9 XRF readings will be taken per quad/grid

290 ± 57; 460 ± 99 ; 572 ± 81

1640 XRF Readings on #2 (in front of house, next to drive) 237 ± 48; 708 ± 95; 181 ± 69; 566 ± 97; 811 ± 110; 343 ± 48



1655 XRF Reading on cell # 3; 494 ± 60; 771 ± 72; 326 ± 42; 681 ± 68; 661 ± 120; 833 ± 85

11/6/01 G9011.L.0063.00

1700 XRF reading on cell # 4, last cell southwest of house (borders 50' removal area + alley area) XRF readings: 526±56; 707±76; 940±76; 712±62; 472±52; 479±55

1712 cells that are hot/need to be removed to date are: #1, 2, 3, 4 (all located on west side of house (511 Martin) except #2, located in front of house

1730 Davis tells IT excavator that areas to be included in removal west of house. Don Limmer video tapes road to stockpile area + the stockpile area.

1750 Davis departs site for the day

Activities to be completed tomorrow:

✓ (1) finish west lot at 511 Martin, screen using XRF, Niton

✓ (2) screen 500-510 Martin ST/ Cyle ST with Niton XRF (if hot, sketch + video)

(3) screen stockpile with Niton XRF

(4) take digital photos of excavation

NOTE: Davis goes to Walmart to make copies of Aerial, 1814 + call Dave Kinzson + Ryan Shuler → #314 482 4005

RE: spreadsheet for analytical + XRF value(s) comparison.

Coefficient (s) screen front yard at 429 Martin

[signature] 11/6/01

11/7/01 G9011.L.0063.00

0700 START team member Davis arrives at site. IT + OSC all are present.

Davis will perform task as listed on previous page 11/6/01. Site Safety + task meeting

weather: ≈ 52°F, sunny, expected high of 76°F, wind = calm, winds out of SW

NOTE: Davis calibrates XRF Niton.

0730 Davis begins screening west lot at 511 Martin ST with Niton XRF.

0745 XRF reading at #5 cell, NW 707±91; 819±110; NC 311±49, 284±47; 361±67 NE 258±65; 310±53; 251±48; CE 230±51, 222±51; 253±50; CC 173±50; 219±41; 192±52; SE 249±42; 249±54; 273±55

NOTE: SE = southeast corner of quad/grid
NE = Northeast corner
NC = North center of quad/grid
CC = center center etc.

0815 XRF readings on cell #6; EC 318±62; 352±64; 358±63, CC 502±73; 542±80

11/7/01

4	7	10	11
3	6	9	12
1	5	8	13
2			

- denote on diagram in NE corner

G9011.L.0063.00

continue XRF readings on cell #6; CC 546 ± 60
NW 807 ± 70; 770 ± 89; 704 ± 75; NC 853 ± 100;
947 ± 110; 851 ± 100; SW 1020 ± 130; 914 ± 140;
867 ± 120

NOTE: DAVIS Expanded cell #6 due to high readings.

0844 XRF readings on cell #7; NE 433 ± 63
489 ± 68; 494 ± 68; NC 459 ± 73; 500 ± 73;
CC 520 ± 94; 493 ± 89; 493 ± 85; NW 579 ± 88;
686 ± 110; 613 ± 95; SW 786 ± 87;
846 ± 94; 819 ± 78; SE 610 ± 81

0905 DAVIS makes phone call to Dave Furoth

0910 XRF pre-screening on cell # 8
NE 843 ± 74, NC 759 ± 94; CC; 1120 ± 92
(NOTE: Cells on west side are 50' cells)
SE 1040 ± 110; CC 1180 ± 120; SW 631 ± 74;
NC 617 ± 74.

0920 XRF Readings on cell # 9
NC 1340 ± 120; 1040 ± 130; 714 ± 81; 649 ± 92
(NOTE: all cells on east + west side of 511 Martin house are pre-screening numbers)
819 ± 110; 1630 ± 170 (*)
(groundcover on 511 Martin West is weed + moss on east side grass is cover)

0940 XRF readings on cell # 10
849 ± 97; 1160 ± 140; 722 ± 110; 1040 ± 110

11/7/01 G9011.L.0063.00

1400 ± 130; 999 ± 100

0945 XRF Readings on cell # 11
1300 ± 130; 1070 ± 100; 1220 ± 130;
1180 ± 100; 627 ± 100; 1170 ± 140

0952 XRF readings on cell # 12
1280 ± 120; 822 ± 99; 390 ± 55; 1970 ± 210; 1190 ± 94; 1110 ± 130;

0958 XRF pre-screening readings on cell # 13; 1030 ± 110; 770 ± 110;
1940 ± 180; 1220 ± 150; 1670 ± 160;
456 ± 83

1008 For pre-screening purposes, Davis will collect a 9 aliquot sample from each hot cell on the west side of 511 Martin (cells 5-13) and screen with XRF 3X/sample. One sample will then be submitted to the lab for analysis. Depth of samples 0-2"

1009 DAVIS collects samples from cells 5 to 13 on west side of 511 Martin

1036 XRF Readings on 9 aliquot samples on cells: 8 = 1300 ± 90; 1220 ± 110; 1140 ± 100
see field sheet for XRF values/times

(*) sample collected from cell # 12 see field sheet. 8 oz for lead, sample #: NE-001.

11/7/01 G9011.L.0063.00

1140 Davis arrives at 629 Martin Street to screen front yard (area not in fence) with XRF/NITON. Front yard split ≈27'x44' → south into two cells North + South ≈35'x66' → North. 6-9 Readings per quad.

1150 XRF Readings at North front yard are: <63.0 ppm (ND), 311±71; 340±79; 1260±140; 198±54; 323±61; 1010±140 259±58; 628±95; 276±79

1211 Davis takes XRF readings at South quad in front of 629 Martin (off of N Catherine ST entrance) prescreening results: 470±72; 557±87; 227±58; 528±67; 740±34; 262±59; 291±69

1225 Davis packs lab sample

1230 Lunch

1315 Return from lunch

NOTE: (1) call lab + Angela with Tetra Tech (TT)

✓ (2) call Quan - shipping/FedEx - Jan Mendoza

✓ (3) collect samples in front yard at 629 Martin ST + screen w/XRF

(4) Shipping FedEx Martha FedEx Acct # 129933895

put down project # on Fedex form

SITE #620.336.8954

11/7/01 G9011.L.0063.00

NOTE: ONE OUT OF EVERY 10 not prescreening XRF readings will be collected + screened 3 times with XRF and submitted to lab for analysis in cells that are +40 beginning approximately 4/7

*currently, 15 lots have been screened w/XRF, 13 sampled

1450 XRF calibrated. Davis begins to screen residence at corner of Martin + N Coyle ST/XRF detector not cooling + Davis phones in Fedex pickup between 4pm-11pm at Hotel pickup #36

1409 XRF reading to the west of driveway + trailer at 501 Martin ST 312±68; 525±100; 570±79; 571±110 (NOTE: resident has infant baby, unit is rented)

467±120; 511±100; 450±98

1423 XRF screening to Rear of (South) 501 Martin. 600±97; 644±100

1427 XRF readings between trailers at 501 + 508 Martin + Coyle ST; 646±120; 617±150; 546±88

1429 XRF readings to North of 508 ~~Martin~~ Coyle ST. 392±110; 575±110 700±84

1433 XRF Readings at 508 ~~Martin~~ Coyle ST. To East of trailer (N Coyle Rd) 168±33

11/7/01 G9011.L.0063.00

(cont'd) East of 508 ~~Martin~~ Coyle ST: XRF Readings; 374± 89; 402± 77; 370± 100

1448 XRF Readings to South of 508 Coyle ST; 402± 89; 565± 73

1450 XRF readings collected in drainage ditch to south of 501 Martin + 508 Coyle ST. / 606± 100; 593± 150; 583 ± 98; ~~370± 100~~

1455 XRF Readings from N of 506 Coyle ST; 552 ± 130

1458 XRF readings east of 506 Coyle ST. 788± 100; 450± 69

1502 XRF readings between 506 + 504 Coyle ST; 484 ± 91; 532 ± 120; 511 ± 85

1505 XRF readings to west of 506, 504, 502, + 500 Coyle ST residents; 584 ± 150; 723 ± 100; 390 ± 120; 631 ± 106

1510 XRF reading to south of 500 Coyle ST 625 ± 75; 508 ± 110; 517 ± 120

1515 XRF Readings between 500 + 502 Coyle ST. 682 ± 100; 580 ± 120

1522 XRF Readings between 502 + 504 Coyle ST; 634 ± 120; 566 ± 74

11/7/01 G9011L.0063.00

0330 DAVIS departs site to drop off sample at hotel for Fedex pickup

1600 ~~0400~~ DAVIS phones Brett with STAT ANALYSIS LAB to inform him of shipment

1630 ~~0430~~ DAVIS drops sample ~~off~~ at hotel. Tracking # 8195 5150 0970 - sample # NZ-001 sent. Analysis - see field sheet NZ-001

1634 ~~0434~~ Davis departs hotel for site

1640 ~~0440~~ DAVIS phones Ryan Shuler with STAT, he will e-mail excel spreadsheet for analytical data comparison with Niton XRF values

1650 ~~0450~~ DAVIS arrives at site, 629 Martin ST to collect 2 samples from front yard, North + South quad. Depth 0"-1", 9 aliquots each quad, screened 3x each for XRF readings

1719 ~~0519~~ XRF readings on North quad at 629 Martin (left of drive to house) see field sheet for XRF readings

1726 ~~0526~~ DAVIS grids out residence at 501 Martin and 508 Coyle, 3 grids running North to South

1800 DAVIS speaks with OSC + IT PM regarding project.

11/7/01 G2011.L.0063.00

1806 DAVIS departs site for hotel

TASKS Remaining FOR 11/8: (1) screen stockpile WITH NITON XRF

✓ (2) TAKE digital photos OF EXCAVATION

✓ (3) collect samples from yards at 500-508 ~~XXX~~ COYLE ST and 501 MARTIN ST and screen with NITON XRF 3X/quad. Submit 1-2 samples to lab for pre-screening comparison - if below 400ppm, do NOT submit

✓ (4) video + sketch 500-508 COYLE ST + 501 MARTIN ST, if > 400ppm

(5) SCREEN 1st house on Front St from intersection of N Coyle ST

Davis checks e-mail for EXCEL spreadsheet + does other data management.

2140 unable to access e-mail from hotel, presently. DAVIS updates maps/sketches with cells screened WITH NITON + reviews data/data management issues

NOTE: ~~Coyle~~ FRONT ST paved by city

[signature]
11/7/01

11/8/01 G2011.L.0063.00

0700 DAVIS arrives at site IT crew + OSC present. Safety meeting held. DAVIS screens stockpile area with NITON.

Weather: ≈ 50°F, wind ≈ 15 mph from north, high expected 55°F, 20% chance of showers, overcast

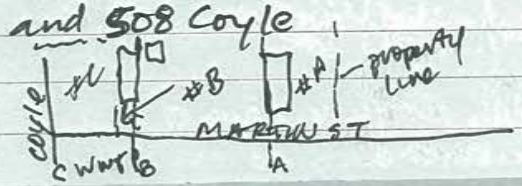
0705 DAVIS calibrates NITON

0710 NITON (XRF) readings at stockpile 2050 ± 150; 3830 ± 240; 2730 ± 190; 643 ± 96; 472 ± 92; 501 ± 88; 1000 ± 130; 1070 ± 110; 1340 ± 140; 1360 ± 150

0720 DAVIS discusses plans for morning with OSC Lininger. TASKS are as stated on previous page. 2 dump trucks are on-site to load off temp stockpiles at 511 Martin + 629 Martin and will be moved to repository area (previously screened above) Both IT excavators will be loading dump trucks today.

0735 DAVIS takes site photos with digital camera. See page 45 of this log book.

0812 DAVIS QUADS OUT 501 MARTIN and 508 Coyle



11/8/01 G9011.L.0063.00

0825 DAVIS collects samples from QUADS A,B,C at residents 501 Martin + 508 Coyle ST. 6-9 aliquots per quad. 3 XRF Readings to be taken from each sample/quad. See field sheet.

0829 Quad A sampled
0837 Quad B sampled
0850 Quad C sampled

see field sheet ~~NA~~ ~~AZ-0021-003~~ see below

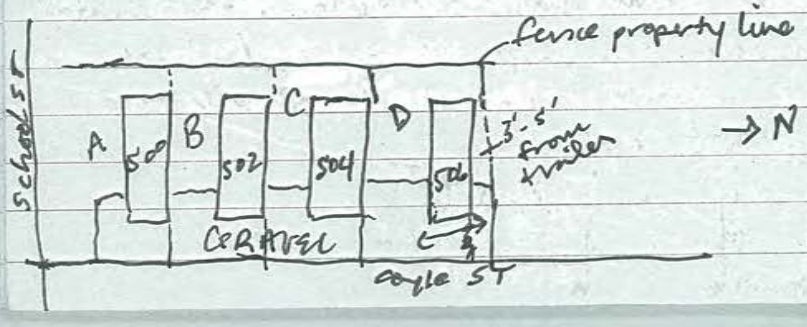
C: 263 ± 53
277 ± 56
286 ± 56

A: 311 ± 57; 344 ± 59; 337 ± 57

B: 357 ± 61; 410 ± 64; 398 ± 64

0947 DAVIS REPORTS DATA TO OSC Lanmger.
DATA CORRELATES WITH KDHE, MAY ONLY EXCAVATE DRAINAGE DITCH TO SOUTH OF RESIDENTS 501 MARTIN + 508 COYLE

0949 DAVIS collects samples between 500-506 Coyle ST. and stakes/flags QUADS



11/8/01 G9011.L.0063.00

1000 DAVIS collects sample (9 aliquot) from quad-A, located south of 500 Coyle ST. (see sketch)
brick sidewalk is south property boundry

1020 DAVIS collest 9 Aliquot sample from quad B (see sketch on pg 26)
AT 502 ~~Coyle~~ Coyle ST

NOTE: All samples collected at National Zinc follow QA PP. Depth = 0"-1" + homogenized

1035 DAVIS collects 9 Aliquot sample from quad C / see site sketch on page 26 /

1045 DAVIS collects 9 Aliquot sample from QUAD D / see site sketch on page 26

1050 Niton XRF Readings on QUAD's A-D at residents 500-506 Coyle ST. ARE AS follows:

A: 228 ± 52; 277 ± 55; 192 ± 49
B: 329 ± 60; 308 ± 58; 300 ± 60
C: 248 ± 54; 270 ± 54; 287 ± 57
D: 123 ± 43; 121 ± 44; 176 ± 46

All Readings below 400 ppm action level

1100 DAVIS reviews data + checks procedures on downloading data from Niton

11/8/01 G9011-L0063.00

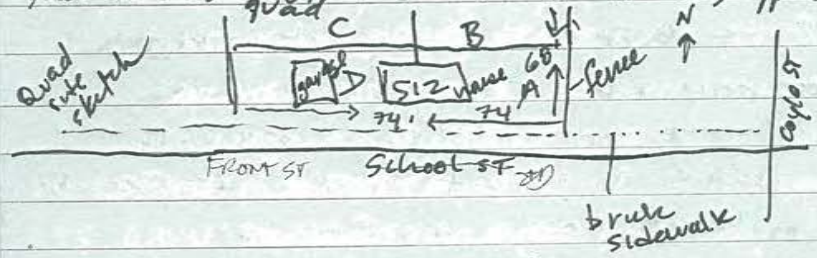
to allow for more memory

1140 DAVIS sets up MINIRAM to SOUTH OF EXCAVATION + STOCKPILE AREA WHERE CREW IS WORKING. MINIRAM IS DOWNWIND OF ACTIVITIES.

NOTE: GREG WITH IT is PRESENT ON-SITE TODAY TO PERFORM AIR MONITORING OF/AT SITE ACTIVITIES. DATA will be forwarded to START member DAVIS

1200 DAVIS arrives at 512 FRONT ST to develop quadrants and pre-screen yard with NITON XRF. Lot size → W: 150'; L: 140'

Measured ~~lot~~ quad size is 68' x 74', approx.



1300 DAVIS breaks for lunch

1330 DAVIS returns from lunch

During lunch DAVIS downloads Niton software on laptop. Niton memory needs to be cleared (95% full)

1340 DAVIS begins screening 512 Front ST with Niton. 9 ~~ALIQ~~ XRF Readings per quad, IN SITU, will

11/8/01 G9011.L.0063.00

be taken and recorded.

1350 Quad A (512 Front ST) NITON
441±68; 867±95; 441±76;
428±72; 334±62; 457±69
203±52; 372±57; 963±120

1410 Quad B (512 Front) NITON
788±91; 446±72; 177±44;
206±45; 484±82; <71 (ND)
244±60; 845±67; 257±49

1426 Quad C (512 Front ST) NITON
369±59; 138±38; 1120±120;
327±53; 469±61; 483±62
628±69; 280±56; 438±68

1435 Quad D (512 Front ST) NITON
393±60; 453±70; 643±71
522±46; 940±95; 594±79;
897±94; 681±91; 438±77

1445 collect 9 aliquot samples from Miss Hodgden residence, 512 Front St. and screen with Niton, XRF. values are:

1450 Quad A: 469±69; 383±66;
457±70

1500 Quad B: 667±80; 668±77;
597±77

1510 Quad C: 563±74; 731±81; 607±77

1520 Quad D: 1010±95; 871±85; 862±88

11/8/01 G9011.L.0063.00

1530 DAVIS fills out field sheets and will submit 2 samples to STAT ANALYSIS lab for analysis. Samples from QUAD A+B will be submitted.

1615 DAVIS performs site sketch and video of property at 512 Front ST.

1700 DAVIS takes photo (digital) at 512 Front st. / See photo log on pg 45 of this log bk

NOTE: average XRF values for submitted samples (or to be submitted)

1704 DAVIS goes to 530 + 536 FRONT ST to survey (quadrant of 6) properties

* DAVIS reads TWA on MiniRAM.

TWA = 0.17 over 5.5 hour timeframe (one reading only)

Lot size ON property 530 Front ST is 50'x140'

Lot size ON property 536 Front ST is 95'x140'

536 Quads = 47.5'x70'

1745 DAVIS goes to command post to discuss XRF readings with OSC and get sample jars to pickup samples + equip.

1800 DAVIS departs site for hotel

1630 DAVIS PICKS samples NZ-002 + NZ-003

11/8/01 G9011.L.0063.00

DAVIS to complete following tasks tonight:

(1) average XRF readings for samples collected

✓ (2) download spreadsheet from internet (if possible)

(3) erase readings in memory of Niton (if possible)

Consider this not necessary

(4) Download site photos –

TASKS FOR 11/9/01:

(1) TAKE XRF readings on 530 + 536 Front ST

(2) sample both properties if ↑ 400ppm, video tape + site sketch both if ↑ 400ppm

(3) Video properties 520 + 524 Front ST

11/8/01

11/9/01 G2011L.0063.00

0700 DAVIS arrives at site. IT safety + daily task meeting. OCC present

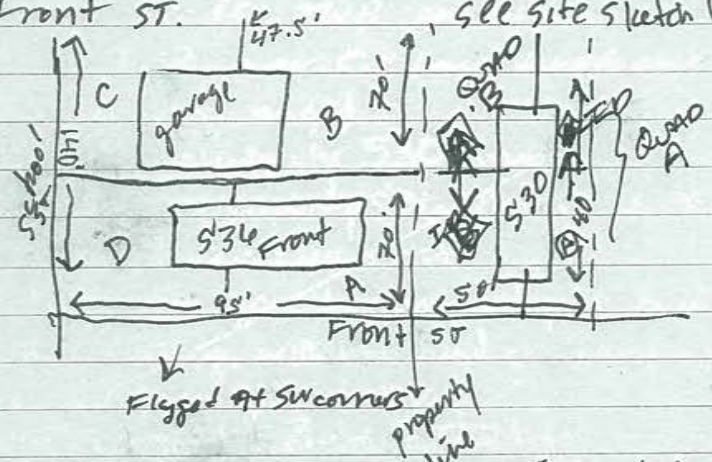
Weather: ≈ 39°F, foggy / sunny, frost on ground / high expected to be 360°F, wind is ≈ 5-10 mph N

0715 DAVIS makes photo copies of records + field sheets

0730 DAVIS ~~S~~ discusses tasks with OSC Lunger for saturday + today. Resident at 512 Front street will come by site today to discuss any objects/items in yard not to be disturbed by excavation crew

0740 DAVIS calibrates NITON XRF and goes to property at 530 + 536 Front ST.

See site sketch below



Approx. 6-9 XRF readings will be taken per Quad

11/9/01 G9011.L.0063.00

Note: Total particulates for lead is 3.4 ppm IN AIR

0815 DAVIS sets up miniram south (downwind) of excavation area at 511 Martin.

0830 DAVIS XRF'S 536 Front ST.

Quad C: (gravel 1st reading) <166 ppm (ND); 255 ± 53; 409 ± 68; 1070 ± 110; 895 ± 95; 192 ± 56

Quad B: 231 ± 60; 617 ± 86; 980 ± 130; 737 ± 100; 676 ± 84; 336 ± 66; 574 ± 82; 253 ± 71

Quad D: <100 ppm (ND); 475 ± 74; 481 ± 74; 397 ± 75; 224 ± 57; 312 ± 80; 228 ± 64; 301 ± 63; 266 ± 60

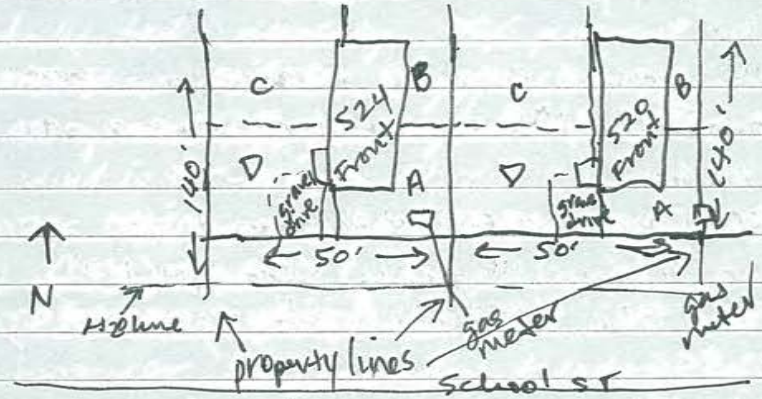
Quad A: 298 ± 58; 634 ± 99; 693 ± 90; 329 ± 79; 207 ± 60; 170 ± 49; 242 ± 54; 180 ± 57

0930 DAVIS ~~[illegible]~~ Quadrants at the following properties: (prior to field screening 530 Front with Niton) 524 + 520 Front ST. Both properties were sampled by KDHE + were found to be above action level of 400 ppm.

524 Front Pb = 1450 ppm + 520 Front Pb = 805 ppm

11/9/01 G2011.2.0063.00

1004 S24 Front ST + S20 Front ST



1010 DAVIS talks with removal crew regarding S12 Front ST, tells them + spray paints 50' marker from house to the North (every other direction from house is ↓ or ≈ 50')

1030 DAVIS takes digital photo from S12 Front ST. photo of sewer cleanout that is cracked. see pg 46

1040 DAVIS notifies OSC of 50' marker to the North of S12 Front. Lunger states that the ≈ 21' past 50' to the North will be scraped ≈ 3'-6" and then filled with clean soil.

1100 DAVIS flags S24 + S20 into Quad's Flags are in SE corners

1130 DAVIS video tapes properties S20 + S24 Front ST + does site sketches

11/9/01 G2011.2.0063-00

NOTE: DAVIS spoke with resident's mother at S20 Front ST. She didn't know of any items, other than the tree to the west of the trailer, that need special caution/attention. DAVIS asked about underground pipes/tanks. She stated that there is one to the east of the trailer.

1150 OSC Lunger states that S12 Front ST + 629 Marion ST are to be worked on today. S24 + S20 Front ST will be excavated tomorrow. Lunger to depart site for KC tonight and return Sunday morning. Crew will be working on Sunday. DAVIS to depart site Saturday after work + return Monday morning. ~~Lunger~~ OSC Lunger departs site to check out of hotel

1250 DAVIS completes site sketches for S24 + S20 Front ST properties. Both have been video taped simultaneously total time 14:52 (see field sheets)

1252 DAVIS takes XRF readings at S30 Front ST. see page 32 for site sketch.

DAVIS paints 50' line for property at S36 Front

11/9/01 G9011.L.0063.00

1300 Niton XRF readings at 530 Front street are as follows: (pre-screening CNOTE: 6-22 reading will be collected)

Quad A: 459 ± 69; 248 ± 61; 156 ± 50

Quad B: 167 ± 58; 595 ± 71; 776 ± 96

Quad C: 286 ± 53; ~~450 ± 76~~, 309 ± 69; 833 ± 102

Quad D: 450 ± 76; 583 ± 85; 518 ± 80

1330 Davis breaks for lunch

1400 Davis returns from lunch

1405 Davis phones STAT Lab regarding sample arrival (NZ-001). Sample was received and will have results on Monday. Davis gave Brett the Fax number. Lab is open on Monday, Veterans Day.

1415 Davis begins to collect samples (9 aliquots/quad) from 536 ~~530~~ Front Street. Depth 0"-1". All samples will be screened 3x with Niton.

1440 Quad D sampled

1450 Quad C " " (only 5 aliquots collected)

1500 Quad B " "

1510 Quad A " "

See NEXT PAGE

11/9/01 G9011.L.0063.00

1525 Collect samples from 530 Front ST, QUAD A

1535 " " , QUAD B

~~1545 " " , QUAD C~~

~~1555 " " , QUAD D~~

DAVIS changes QUADS. ONLY 2; A, B

1545 XRF Readings from 536 Front ST are as follows: (from samples)

Quad A: 658 ± 81; 573 ± 79; 637 ± 80

Quad B: 743 ± 86; 823 ± 89; 870 ± 94 (*)

Quad C: 368 ± 74; 344 ± 71; 363 ± 74

Quad D: 614 ± 78; 502 ± 73; 507 ± 78

1600 XRF reading from samples collected at 530 Front ST are as follows:

Quad A: 653 ± 81; 680 ± 85; 649 ± 81

Quad B: 959 ± 95; 903 ± 94; 967 ± 96 (*)

1610 Davis collects samples from Quad B at 536 Front ST and Quad B 530 Front ST to submitt to lab. See field sheets and site sketches

1640 Davis performs site sketches and video for properties at 530 + 536 Front ST.

1700 Davis Meets owner of property, Mr. Arvid Linquist, see comments field sheet.

11/9/01 C,9011.C.0063.00

1730 DAVIS does not video 536+530 Front street, Sun has set - to dark to video tape

1740 DAVIS discusses tasks with OSC and IT site manager, Bill. TASKS for DAVIS 11/10/01:

✓(1) video tape 536 + 530 Front ST

✓(2) package samples DO from 536 + 530 Front ST

(3) screen last 2 properties at intersection of Front ST + N. Catherine ST, sample if ↑400ppm + site sketch + video if ↑ 400 ppm

(4) Video tape + sketch Quigley properties

(5) screen horse pasture at Quigley property

✓(6) GET DATA from office (command post) that KDHE has - mostly property address that are highlighted in blue

(7) video tape 624 martin + stockpile

1800 DAVIS departs site for hotel

(1) put together spreadsheet for analytical comparison

✓(2) clear Niton memory, if possible

11/9/01 C,9011.C.0063.00

(3) fill out field sheets for samples

✓(4) charge equipment

NOTE: - 536 Front St not to be excavated until Monday 11/12/01

- H_2O line hit at 54 Martin by excavation crew.

* ITEMS FROM OFFICE IN KC / HOME:
  * SUPPLIES - PAINT, GLOVES (XL, L), SMALL COOLERS, large + XL TYVEK, FLAGS
  - CAMERA DISK - for photos
  - LABELS
  - MANILA FILE FOLDERS
  - STAPLES

NOTE: Miniram had malfunctioned when retrieved at 1930. Miniram had switched to "off" mode. Reading unattainable

11/10/01

11/10/01 G9011.L.0063.00

0700 DAVIS switches rooms at Hotel
0715 DAVIS arrives at site. LT has held safety meeting & is beginning to continue work on 512 Front ST and 629 Martin ST. Front yard (prior to fencing) will be excavated today at 629 Martin ST. One excavator will continue to load-out dirt (contaminated) at 629 Martin while another will remove front yard. After completion of front yard, excavator will scrape drainage ditch to North of 501 Martin & 508 Coyle ST. then move to 512 Front ST. Crew will work tomorrow, Sunday 11/11/01. OSC not present today but will return tomorrow. DAVIS' tasks are as listed on page 38 for the day. Crew will have completed 512, 520, 524 Front will be completed by end of day on Sunday. 536 Front ST will be started on Monday.

Weather: ≈37°F, sunny, high expected to be ≈60°F, wind 0-5mph from N-NE

11/10/01 G9011.L.0063.00

0720 DAVIS calibrates Niton and photocopies Access agreements that have been signed. DAVIS also photocopies KDHE list of new properties to be screened And or excavated.

NOTE: Lemunger stated on 11/9/01 that another START member may be necessary due to increased number of properties to be screened and excavated.

0800 DAVIS reviews KDHE properties and fills out fieldsheets for sampled NZ-004 + NZ-005 and phones Lynn Parman/Hien Vu re: additional person + XRF/NITON.

0845 DAVIS spoke with Hien Vu (START program manager) re: another START member + XRF for next week. Will confirm this on Monday morning.

0900 DAVIS videotapes 536 + 530 Front street properties

940 DAVIS goes to residence located at 610, 618, 620 Front ST (Quigley, Cannon, Waggoner, respectively) to perform site sketches + video tape properties. All 3 residences have been screened by KDHE

11/10/01 G9011.L.0063.00

KOHE lead readings are as follows:
610 Front → 1540 ppm; 618 Front → 3680 ppm and 3190 ppm; 620 Front → 140 ppm
NOTE: ONLY 610, 614, 618 will be sketched and video taped. 620 and corner house at FRONT ST + N CATHARINE (622 Front?) will be screened WITH Niton XRF readings to be taken

1015 DAVIS performs site sketches, video & quadrants off properties 610, 614 + 618 Front ST

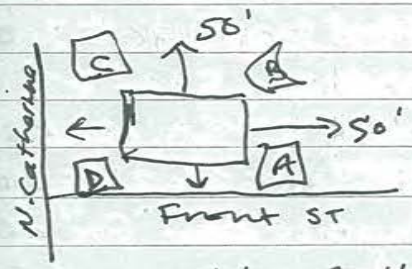
1030 Fred JONES, 529 First ST, is owner but Valverde's mother is in process of purchasing the property. Access agreement is to be delivered by Rick Valverde early next week. DAVIS + Bill spoke with him re: access agreement + property at 529 First ST. (Access agreement was Fedexed to Owner in Gurnett)

1040 DAVIS returns to sketching, etc properties see site sketches for Quadrant division on properties. Flags are at SE corner for each quad lettered.

1300 DAVIS goes to resident at end of Front ST + N Catharine ST (634) (624 Front?) to screen with XRF/Niton

11/10/01 G9011L.0063.00

Resident at house has 2 dogs on a 15'-20' chain DAVIS screens resident around dogs. Dog chased DAVIS. DAVIS gets Bill with IT to watch Dog. Owner puts dog in house.



Approximately 3-4 readings will be taken per yard, with Niton

1350 Initial pre-screening at 622
Quad A: 290 ± 59; 1180 ± 130; 652 ± 87
Quad B: 1020 ± 120; 408 ± 75; 1180 ± 130
Quad C: 523 ± 73; 988 ± 140; 4410 ± 310
Quad D: 901 ± 110; 1010 ± 110; 87 ± 49

1400 DAVIS collects 9 aliquot sample per Quad And will screen 3x/Quad with XRF. The following are XRF readings from sample
1413 Quad A: 1360 ± 120; 1240 ± 110; 1160 ± 110
1423 Quad B: 694 ± 79; 711 ± 84; 768 ± 91
1433 Quad C: 1250 ± 110; 1570 ± 130; 1250 ± 110
1443 Quad D: 1190 ± 100; 1470 ± 120; 1200 ± 110
DAVIS ~~performed~~ draws site sketch

11/10/01 G2011.L.0063A

for residence at (622 Front ST) corner of N. Catherine and FRONT ST.

1520 DAVIS screens horse pin behind Quigley property with XRF | NITON

Pre-screening readings are as follows: 4240±270; 5210±310; 3410±210; 4370±230; 7790±350; 5430±310; 569±75; 598±80; 530±73

NOTE: Zinc = 61.1K±750; 18.0K±890

Iron 18.7K±1600; 26.2K±2000

1600 DAVIS departs site for KC on 11/11 will pick up equipment Sunday at Tetra Tech office and return Monday morning to site. NO LUNCH (11/10)

NOTE! HORSE PIN AREA ONLY SCREENED, NOT SAMPLED.

MONDAY TASKS:

(1) video tape 622 Front ST

(2) speak with OSC Re: property at 620 Front ST. PROPERTY has not been screened by START but has been screened by KDHE and is ↓400 ppm

(3) TAKE NITON | XRF readings at excavated properties

samples to be delivered mon 11/12/01

(7) video tape excavated properties

NOTE: SAMPLE collected from 622 Front, QMSC

NZ-006 11/10/01

frame #	date	time	description	direction
(1) 128	11/8/01	0750	511 Martin front yard excavation	SW
(2) 127	" "	0751	511 Martin east yard + stockpile	S
(3) 126 + (4)	" "	0758	511 Martin looking at yard on east side of house, excavated	SW
(5) 125	" "	800	511 Martin looking at stockpile	W
(6) 124	" "	802	511 Martin looking at rear of trailer, shed	NW
(7) 123	" "	805	511 Martin looking at west lot excavated to 2'3"	NW
(8) 122	11/8/01	810	501 Martin + 508 Coyle residents	SW
(9) 121	11/8/01	812	508 Coyle ST trailer with ~~toys~~ in front	SW
(10) 120	11/8/01	1700	512 FRONT ST pre-excavation	NW

(NZ cont'd)

frame #	date	time	description	direction
~~(19)~~ 19 (11)	11/9/01	1030	sewer cleanout at NE corner of house at 512 Front pipe is cracked	SW

(cont'd)
See Log bk #2

Terry L Davis
11/12/01

11/12/01 G9011.L.0063.00

0600 DAVIS departs KC for National Zinc site. 3 hrs travel time

NOTE: DAVIS picks up equipment at Tetra Tech office on 11/11/01. 2 hrs billable.

0830 DAVIS stops at GAS station for bag ~~of~~ ICE for samples. Samples to be picked up by Fedex today.

0900 DAVIS discusses site progress with OSC. Front ST excavation complete ~~West to~~ East of school ST. Horse pasture at 610 Front ST (goes N to Martin ST) is being excavated to ≈ 3"-6" depth. LOAD-OUT OF STOCKPILES occuring today

Weather: approx. 45°F, cloudy + rainy, high mid 50's. ~~DAV~~

DAVIS calibrates Niton XRF, and prepares samples for pickup by Fedex.

0920 Jeromy with Tetra Tech phones DAVIS. Will be arriving tomorrow at site. DAVIS will discuss extra Niton with OSC Lunger.

NOTE: Mini RAM reading for Saturday, 11/10/01, WAS 0.07 mg/m³ TWA over 8 hrs. see log bk

SAMPLE LOG

sample #'s	time	date	location	description
NZ-001	1047	11/7/01	511 Martin	pre-screening w. pasture #1
NZ-002	1450	11/8/01	512 Front	QUAD A
NZ-003	1500	11/8/01	512 Front	Quad B
NZ-004	~~11/9/01~~ 1500	11/9/01	536 Front	QUAD B
NZ-005	~~11/9/01~~ 1535	11/9/01	530 Front	QUAD B
NZ-006	~~11/10/01~~ 1433	11/10/01	634 Front	QUAD C

(cont'd)
see log bk
#2

Fred Davis

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Outdoor writing products . . .
. . . for outdoor writing people.

BOUND BOOKS

NOTEBOOKS

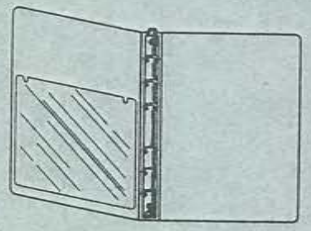
SPIRAL NOTEBOOKS

LOOSE LEAF SHEETS

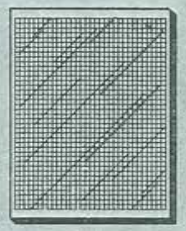
SPIRALS

MEMO BOOKS

ALL-WEATHER PEN


RING BINDERS

COPIER PAPERS


GRID SHEETS

POLY-CLIPBOARDS

Field data . . .if its worth collecting, its worth protecting.

529

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

HORIZONTAL LINE

All-Weather Notebook
No. 391

LOG BOOK #2 OF 7

NATIONAL ZINC
CHERRYVALE, KS
PROJECT#: 09011.LH0063.00
MONTGOMERY COUNTY

4 5/8" x 7" - 48 Numbered Pages

COPY

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Element	RSK
CADMIUM	39 mg/kg
MERCURY	2 mg/kg
ARSENIC	11 mg/kg (non-resid. = 86 mg/kg)
LEAD	400 mg/kg
ZINC	23,000 mg/kg

Name

Tetra Tech > JAN = 3952
Angela = 3922

Address

Phone

Project

INCHES

Yellow Polyethylene Protective Slipcovers (Item #31) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE
	NZ SITE	
	604 N. Liberty ST	
	Cherryvale, KS 67335	
	(P) 620·336·8954	
	(F) 620·336·8956	
	IT # 620·336·8952	
	STAT ANALYSIS LAB	
	2201 West Campbell	
	PARK Drive, STE 315	
	Chicago, IL 60612	
	#312·733.0551	
	CONTACT: BRETT Nicholes	
	MICROTEL	
	2917 West Main	
	Independence, KS 67301	
	#620·331·0088	
	FEDEX ACCOUNT# 1299 3389 5	
	1800 GO FEDEX	

NOTE: see Log bk #1 FOR PREVIOUS INFORMATION

11/12/01 G9011.L.0063.00

1040 DAVIS speaks with Lemmer Regarding site plans. START member Jeromy does not need to arrive on site until Wednesday, 11/14/01, when XRF is available.

Objectives: screen t/or sample:

- 620 First ST - sample
- 621 First ST - sample
- 617 Front ST - upon access video tape + sketch
- vacant lot on Martin ST b/n Thompson residence + Horse pasture → to be screened
- vacant lot east of 621 1st ST to be screened
- vacant lot west of 617 1st ST to be screened
- Hale property = lot 75' x 75' grids on west lot 505 + 513 due 50' from houses

11:00 DAVIS speaks with Lynn Parman with Tetra Tech. Jeromy to arrive Wednesday.

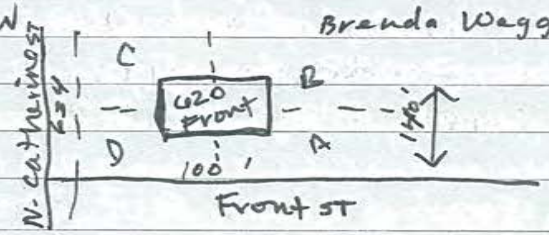
1138 Fedex pickup #21

1200 Davis samples 620 Front ST and will screen each sample 3x with Niton. 9 Aliquots per

11/12/01 G9011.L.0063.00

QUAD. see field sheets + site sketch below

Brenda Waggoner



1240 QUAD A: 456 ± 68; 455 ± 67; 496 ± 71

1250 QUAD B: ~~315 ± 56~~ 653 ± 78; 742 ± 86; 688 ± 81

1300 QUAD C: 544 ± 74; 552 ± 69; 554 ± 70

1310 QUAD D: 315 ± 56; 278 ± 56; 353 ± 61

Quadrants are flagged in the SE corner. Quad D is flagged with green flags, denoting clean area

1330 Quad C sent to lab, sample # NZ-007, 620 Front ST

1425 DAVIS completes sampling + site sketch at 620 Front ST. DAVIS FAXES Timesheet to Seagull + goes to lunch at 1445

NOTE: Video tape 634 + 620 Front ST

1445 Lunch

1500 DAVIS returns from lunch

NOTE: weather: Cloudy, rainy, wind from south 5-10 mph, high ± 62°F

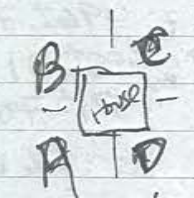
IT Crew is out loading contaminated soils from stock piles at 512 Front + 536 Front ST.

11/12/01 G9011.L.0063.00

1515 DAVIS makes a site sketch at 617 Front ST., LEETON, flags ON NW corner

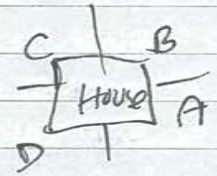
1640 DAVIS SITE sketches 621 Front ST, SAMORA, RUBEN, Flags on NE corner

621 Front



≈ 47.5'x50'

617 Front



≈ 50'x 60'

1700
DAVIS collects samples from 621 Front ST, 9 aliquots per Quad and screens 3x with Niton. Below are the readings

1700 QUAD A: 1010±93; 1290±110; 1080±100
1710 QUAD B: 626±74; 799±82; 1626±74
1720 QUAD C: 621±69; 636±71; 714±75
1730 QUAD D: 874±90; 986±94; 970±92

NOTE: 617 Front ST has been sampled by KDHE. Lead = 1660 ppm

1750 NO sample submitted to lab from 621 Front ST.

1800 Davis checks into Command post, IT crew gone

11/12/01 G9011.L.0063.00

1810 DAVIS departs site for hotel
IT Crew has completed load out of stockpile at 536 Front ST
1 excavation crew will begin excavation on 610 + 614 Front ST while the other crew completes removal of stockpile from 512 Front ST. Thursday, 11/15/01, IT crew will begin backfilling excavated areas

Tasks for Tuesday, 11/13/01:
(1) VIDEO tape residence on Front ST, west of school ST. 617, 620, 634
621 Front ST
(2) Video stockpile area
(3) screen excavated areas with Niton 3 samples

TONIGHT: (1) spreadsheet (Averages)
✓ (2) Form for excavated areas (samples to lab · tracking)
✓ (3) change equipment
✓ (4) Lynn re: Jeromy
(8) Log bk #1

* Research KDHE sampling methods for excavated homes.

1830 DAVIS arrives at hotel, works on project for 1.5 hours

End DAY

11/12/01

11/13/01 G9011.L.0063.00

0700 START MEMBER DAVIS ARRIVES ON SITE. IT SAFETY MEETING. TASKS FOR TODAY LISTED ON PAGE 5 OF THIS LOG BOOK

WEATHER: ≈ 47°F, cloudy, winds 5-10 mph out of south, high expected to be 65-70°F

0710 DAVIS calibrates Niton XRF

0720 DAVIS speaks with Bill + DOD RE: site status. Hale property to be discussed tomorrow, 11/14/01. DAVIS will get comments on Waggoner property 620 + 634 Front ST.

Site has expanded to First ST where data from KDHE shows that approximately 7 residences are above the action level for lead. Also, to be screened for removal are the residents located to the east of Coyle ST., approx. 8 residences. Project is projected to go into 1st or 2nd week in December, with 4-5 day break at Thanksgiving.

0750 DAVIS phones Lynn Parman

0800 DAVIS starts 2nd video tape of properties. Video tapes 620, 634 and 617 + 621 Front ST.

11/13/01 G9011.L.0063.00

0810 620 Front 0:04:12 min video
634 Front 0:05:01 min video
617 Front 0:05:24 min video
621 Front 0:05:04 min video

0850 DAVIS goes to repository / stockpile area + video tapes - 0:01:04 min

NOTE: MINIRAM NORTH OF excavation activity at horse pin + 536 Front ST. Quigley property to be excavated today 610 + 614 Front ST. However, excavation will occur around debris in yard. A pile of wood located to the NE of horse, off of School ST, will be thrown on the burn pile it has for tree stumps, etc. pulled from excavated yards. Burn pile is in horse pin area between Martin + Front streets.

0915 DAVIS video tapes horse pin area + 629 Martin (N part of yard) (↳ Quigley's)

NOTE: Miniram needed to be zeroed. DAVIS zeros instrument + places as mentioned above

9:30 DAVIS speaks with Lininger RE: Sample methodology on excavated properties that KDHE analytical RESULTS were used. START did NOT PRE-screen the following

11/13/01 G9011.L.0063.00

properties: 520 Front ST
524 Front ST
610 Front ST
617 Front ST
618 FRONT ST

OSC DON LININGER STATED THAT THE READINGS + ANALYTICAL DATA FROM KDHE (IN SITU + LAB RESULTS) WILL BE USED + START WILL ONLY PERFORM POST-EXCAVATION SAMPLING ON ABOVE PROPERTIES, BOTH IN SITU and Lab analysis of 10% of total excavated YARDS. QUADRANTS WILL be established as in pre-screening sampling, and a ±6-9 aliquot sample will be collected from each Quadrangle, 3 readings from each cell will be taken with Niton XRF. Approximately 50' from house, in each cardinal direction, are where the Cells/Quads will be developed.

NOTE: THE following address were screened by KDHE: 511 and 629 Martin, 509, 513, 520, 524, 610, 617, 618, 620, + 621 Front STreets. 509 + 513 Front STreet have not yet been started by STARS

11/13/01 G9011.L.0063.00

OR IT CREW.

THE Following properties have been screened by START: (IN SITU + some lab)

511 MARTIN
629 MARTIN
501 MARTIN
508 ~~MARTIN~~ Coyle
500 Coyle
502 Coyle
504 Coyle
506 Coyle
512 Front
536 Front
530 Front
624 Front
620 Front
621 FRONT

see page 48 of this log book and page 48 of log book #1 for list of samples + locations submitted to lab, to date. ALSO, 10% of pre-excavated YARDS will be sampled in situ and 10% will be submitted to Lab for analysis. OSC Lininger + DAVIS agreed that ~~10~~ 3 samples (TTL) will be collected from yards excavated to date. The following

11/13/01 G9011.L.0063.00

is a list of excavated yards to date:
- 511 and 629 Martin
- 512, 520, 524, 530, 536 Front ST
- horse pin (Quigley)

DAVIS discussed sample methodology with OSC. OSC Lunger stated that KOHE numbers will be used and DAVIS will continue to divide properties into Quadrants, within 50' each cardinal direction of house (if possible) and collect 9 aliquots from each cell And screen 3 X with Niton.

DAVIS will screen excavated areas with Niton and collect 3 samples from excavated properties for submittal to the laboratory.

OSC Lunger stated that, if possible, to acquire sq. footage of excavated properties.

1100 DAVIS updates property field Sheets + files and reviews KOHE in situ readings and lab results for sample location(s) and to select sample location(s).

TASKS: (1) collect 3 samples + take XRF readings from excavated areas

11/13/01 G9011.L.0063.00

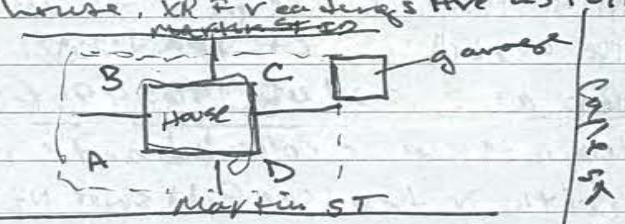
(2) obtain comments from 620 + 634 Front ST

1200 DAVIS breaks for Lunch

NOTE: AIR SAMPLES ARE NOT TO BE COLLECTED and analyzed for this site, as stated in the QAPP. OSC Don Lunger stated that use of a miniram with time-weighted averages (TWA) intermittently throughout the project would be sufficient.

1300 DAVIS returns from lunch

1310 DAVIS calibrates Niton + begins screening 511 Martin within 50' of house. XRF readings are as follows:



QUAD A: < 69 ppm (ND); 252 ± 85; 332 ± 89

QUAD B: 274 ± 95; 75 ± 43; 233 ± 60

QUAD C: 473 ± 89 (on scrapped area by AC); < 71 (ND); 213 ± 64

QUAD D: < 110 (ND); < 71 (ND); < 60 (ND)

1406 screenings on west lot at 511 MARTIN ST. see log bk #1 for sketch of QUAD #15. #1 = 891 ± 120; #3 = 743 ± 110; #4 = 80 799 ± 100; #7 = 1110 ± 120; #6 = 863 ± 130; #5 = 1210 ± 140 #8 = 1490 ± 150; #9 = 839 ± 110; #10 = 1420 ± 130; #11 = 873 ± 130

NOTE: 1 XRF Reading was used for post screening of each QUAD

11/13/01 G9011.L.0063.00

#12 = 1280 ± 140; #13 = 1990 ± 190; #2 = 466 ± 85

1430 DAVIS screens east side of drive, outside of 50' from house. See sketch on pg 14 of log bk #1 for cell location and field sheet/site sketch. XRF readings are as follows: #1 = 930 ± 55; #2 = clean in pre-screening; #3 = 379 ± 73; #4 = 519 ± 79; #5 = 1160 ± 140; #6 = 228 ± 69; #7 (treeline) = 694 ± 98; #8 (treeline) = 734 ± 99; #10 = 416 ± 70; #9 = 283 ± 74

1450 sample collected from Quad D at 511 MARTIN ST, NZ-008, see pg 11 of this log bk for site sketch. XRF readings on QUAD D are: 132 ± 48; 146 ± 49; 66 ± 40

9 Aliquots were collected and screened 3x with Niton. See field sheet NZ-008.

1515 DAVIS discuss backfilling with Bill + Ed. 511 Martin to be backfilled on thursday. Will take approx. 1-1½ days.

1530 DAVIS arrives at 629 MARTIN ST for post-excavation screening - within fenced area. See site sketch for Quad's

Quad A: 455 ± 68; 556 ± 84; 686 ± 87

Quad B: <68 (ND); 588 ± 110; 806 ± 93

Quad C: 272 ± 68; <57 (ND); (2nd Golden = <80 (ND))

Quad D: <65 (ND); 81 ± 46; <63 (ND)

11/13/01 G9011.L.0063.00

1610 DAVIS POST-SCREENS QUAD ~~A+B~~ NORTH + SOUTH ID IN FRONT DRIVE ON N. CATHERINE ST

Quad D (NORTH ID): SE corner 756 ± 100; 423 ± 74; 3840 ± 250 (NW corner)

Quad B (SOUTH ID): 528 ± 82 (Rock grid); 693 ± 94; 1390 ± 170 (SE corner)

1635 DAVIS collects sample for post-excavation at QUAD A, 629 MARTIN ST., 9 Aliquot, screened 3X WITH NITON XRF. Readings are: 684 ± 83; 431 ± 68; 503 ± 73. Sample #NZ-009

1650 DAVIS collects composite sample from Quad B at 629 Martin and screens 3x with Niton. 9 aliquots are collected. XRF readings are: 654 ± 82; 762 ± 90; 768 ± 86

NOTE: see page 45 for excavated cells/quads ↑ 400ppm

1715 DSC lunch phone: DAVIS, DAVIS will take readings with Niton in Ditch excavated behind 501 Martin + 508 Cayle ST.

1720 Davis drives by 610, 614 + 618 Front ST. IT crew completed 610 Front ST and are still working on 614 + 618 Front ST. Bill states that 620 Front ST will be started tomorrow. 2 excavators will be working on residence #1 on backfill

11/13/01 G9011.L.0063.00

from the Borrow Pit. Miniram reading TWA = 0.07 over 8 hrs

1730 IT crew departs site

1735 DAVIS locks up command Post and takes readings from ditch mentioned on previous page. XRF readings: 337±76; <64(ND); 539±84 (SOUTH OF TREE b/w 501 Martin + 508 Coyle); 665(ND); 107±45

1750 DAVIS goes by 620+634 Martin ST to discuss any items of special need/concern not to be disturbed during excavation + underground pipes/tanks, etc. DAVIS will also discuss putting debris in one location for excavation purposes. Serenity SMITH + JUSTON SMITH (owners of property, owns 634 Front ST + 620 Front ST) MRS SMITH did not know of any items of concern but asked that I stop by tomorrow morning to discuss with her husband. DAVIS told her that she will be by at 7 AM. Note: Miniram 0.07 TWA (8hrs)

1810 DAVIS departs site for hotel. START member Jeromy to arrive at site tomorrow. DAVIS to work on spreadsheets and chemical equipment update lists 11/13/01 DAVIS

11/14/01 G9011.L.0063.00

0700 DAVIS arrives at site and goes to residence at 634 Front ST. to discuss any items of concern in yards at 620 + 634 Front ST. He stated that there is nothing in either yard that is of importance or special concern. DAVIS stated that the debris in 634 Front ST yard may be pushed into a pile or left and excavated around. Mr. Smith stated that would be OK. He stated that we could take it.

0715 DAVIS goes to command post to enter in data on spreadsheet.

Weather: 56°, partly cloudy, chance of showers 20%, winds 10-15 mph from south

0750 IT CREW STARTS ON 620 Front ST. ONE EXCAVATOR IS AT 618 Front ST. (+614 Front ST)

0810 DAVIS does site walkthrough with IT at 620 Front ST. DAVIS calibrates XRF/NITON + completes Data entry.

11/14/01 G9011.L.0063.00

0900 DAVIS speaks with OSC regarding percent of samples to be sampled. Either 10% of both pre + post screening XRF samples above (400ppm) or 10% TOTAL. DAVIS + Lunger agree to do 10% of total (post + pre-excavation) XRF screening above 400ppm. Currently 9 samples have been collected out of 50 XRF screenings, 3 above needed ~~XRF~~ to XRF ~~values~~ to screenings of 10%.
{50 screenings = 6 samples/100 screen = 12 samples}
16 samples are ~~remaining~~ in budget to be submitted / 9 have been collected + submitted (+ 4 for backfill)
7 samples remaining to be submitted within budget.
0950 DAVIS phones Angela with Tetra Tech to notify her that the sample number may need to be increased because the number of homes have increased.
1000 Jeromy with START arrives at site. DAVIS shows Jeromy the site - site walk through

11/14/01 G9011.L.0063.00

and shows Jeromy how to use the Niton.
1130 Jeromy takes XRF readings at 620 + 634 Front St outside of 50' Quadrants from house. 620 Front areas outside 50' Quad's are above 400ppm and will be scrapped ≈ 3". 634 Front also 1400ppm
1200 DAVIS returns to command post. 2nd XRF/NITON #63 is down at site. DAVIS + Lunger look at Niton to switch to Bulk mode
~~OSC~~ Lunger + Davis review operations manual to switch into Bulk sample mode
1220 Kaufman + Davis break for lunch
Note XRF/NITON #53 ON SITE SINCE 11/05/01
Niton #63 sources: Cd-109; Am-241
Niton #53 sources: Cd-109; Am-241; Fe-55
1320 return from lunch (Kaufman + Davis)
1330 DAVIS + Kaufman arrive at 634 Front St to compare readings on Niton's.
1340 Kaufman to take readings with Niton at 617 + 621 Front St's outside of 50' quad's from house - see site sketch

G9011.6.0063.00 11/14/01

for XRF Readings: ~~Niton 63 10~~ (621 Front)

	Niton 53	Niton 63 ~~Niton 53 30~~	Readings
1	582 ± 80	519 ± 200	
2	530 ± 99	682 ± 210	
3	429 ± 64 226 ± 53	231 ± 130	
4	1070 ± 120	921 ± 270	

1350 Davis arrives at 512 Front ST to post-screen excavated areas.

QUAD A:

QUAD B: see site sketch

QUAD C:

QUAD D:

Excavated areas ~~to~~ TP outside of 50' from House XRF readings are as follows:

N = See site sketch

NOTE: Area screened by Jeromy Kaufman

DAVIS departs site to get ice for samples to be picked up by Fedex. at hotel pickup #36

1420 Davis + OSC discuss use of Niton #63 due to over 150 ppm between the two Niton's. Davis would not use on properties already screened with Niton #53. OSC agrees.

Backfill to happen on Friday instead of Thursday this week.

11/14/01 G9011.C.0063.00

Load out of stockpile on Thursday + stockpiling of backfill on Thurs.

- continue excavating and/or start excavating at 634 Front ST. 634 started.
- 1449 Davis returns + packs samples to be pickup at Hotel between 4pm-6pm

1500 All QUAD's (A, B, C, D) are above 400 ppm at 512 Front ST. 9 aliquots per Quad will be collected + screened 3x with Niton. XRF readings are as follows:

QUAD A: 944 ± 79; 1080 ± 110; 934 ± 100

QUAD B: 813 ± 94; 782 ± 91; 874 ± 98

QUAD C: 736 ± 93; 1020 ± 110; 781 ± 97

QUAD D: 1130 ± 110; 1200 ± 120; 1010 ± 110

NOTE: - 621 Front ST, North + ~~South~~ WEST area beyond 50' from house ↑ 400 ppm

- 617 Front ST, West + South of house, beyond 50' quad's, are ↑ 400 ppm

1600 Kaufman site sketched Hale property, 505 + 513 Coyle ST (Front)

- Davis screens 520 Front ST with Niton. XRF Readings are as follows: QUAD A: 1610 ± 160; 226 ± 69; 191 ± 60

QUAD B: < 70 (ND); 388 ± 86; 68 ± 41

QUAD C: 178 ± 69; < 70 (ND); < 67 (ND)

QUAD D: 825 ± 77 (+ rec); 1020 ± 120 (+ rec); 554 ± 85

11/14/01 G9011.L.0063.00

S20 Front ST - All areas ↓ 400ppm except around tree line's.

1640 DAVIS screens S24 Front ST with Niton XRF in QUAD's, POST. EXCAVATION. XRF readings are:

QUAD A: 1690± 150 (trees); 1150± 120; 806± 98

QUAD B: 596± 87; 728± 97; <77 (ND)

QUAD C: 320± 87; 1170± 140; 1060± 170

QUAD D: 514± 79; 1730± 140

NOTE: Readings above 400ppm (unless around tree drip line, piping, foundation, Etc) will be sampled 9 aliquots per grid and screened 3 X per quad with Niton XRF.

1710 ~~DAVIS collects 9 aliquots per QUAD at~~ ID DAVIS screens 530 + 536 Front ST with Niton XRF. Below are readings

S30 Front: QUAD A: <66 (ND); 110± 50; 330± 70

(N) A:
B:
(SOUTH) B:

S36 Front: QUAD A:
B:
C:
D:

to do 11/15/01

1745 DAVIS + Kaufman depart site for hotel. 505 + 513 has been sketched + Quadrants completed A-H.

NOTE: No miniram data for 11/14/01

11/14/01 G9011.L.0063.00

TASKS FOR 11/15/01:

√(1) screen 513 Front ST west lot w/ Niton, mark QUAD's on flags

√(2) screen between roads + sidewalk @ n Front ST, N side of ST.

√(3) screen excavated yards

(4) video tape 505 + 513 Front ST

(5) screen 8 residents on Coyle ST

√(6) send samples via Fedex

√(7) ck e-mail re: site budget/costs

(8) data update/spreadsheets

√(9) call lab re Analytical Results

(10) Average XRF values

√(11) comments form on 617 + 621 + 618 Front ST (ck other sites)

(12) Change equip if DAVIS arrives to hotel Dr 1.5 hrs

NOTE: Fedex samples to be delivered on 11/15/01. Fedex pickup #36 cancelled

- IT CREW to begin backfilling on Friday, try to backfill most or all of the yards excavated prior to Thanksgiving.
- 634 Front ST to begin tomorrow.
- Soils from Borrow Area are a fatty clay soil. IT may sub a farmer to till soil prior to digging + stockpiling. IT began stockpiling soil at Borrow Area today.

I DAVIS 11/14/01

22

11/15/01 G2011.L.0063.00

0700 Kaufman + Davis arrive at site. IT + OSC present
weather: foggy, ≈ 54°F, partly cloudy, high ≈ 70°F, wind ≈ 5-10 mph south.
0715 IT crew begins excavating at 634 Front ST. and will load out the rest of the day from 618 + 634 Front. Soils from Borrow Area are too clayey to use as backfill. Other soil will need to be found for backfill. IT tries to locate soil. Backfill may not occur on Friday. Kaufman screens road on Front ST. NOTE: 500 + 506 1st can be site sketched, video taped and quadrated off. Access has been granted. Davis updates field sheets + develops spreadsheet. Kaufman / START, records west lot at 513 Front and screens with Niton XRF – too damp. Kaufman sketches 500 + 506 First ST + will XRF 513 Front, west lot later this morning. Gravel road on Front ST has been screened between pavement and brickwalkway / ditch line. All XRF readings below 400 ppm. See attached sheet on following page for XRF readings with Niton #159.

23

11/15/01 G2011.L.0063.00

0815 IT + OSC are at Borrow pit reviewing soil areas / conditions. Readings along Front ST in gravel blindness

Kaufman 002888

11-15-01 National Zinc
Grand Sampling along Front Street
All field screening results expressed in parts per million

505	Front	Street	@ 90'	(mailbox drive off)	121 Pb ± 58
	Note	all	measurements are from	NW corner of	Front & Cogle
512	Front	Street	@ 135'	(off road parking)	149 Pb ± 54
			@ 175'	(off road parking)	321 Pb ± 85
513	No	Drive way			
520	Front	Street	@ 290'	(drive way)	157 Pb ± 64
524	Front	Street	@ 335'	(drive way)	BDL of 74.0
530	Front	Street	@ 385'	(drive way)	BDL of 75.0
536	Front	Street	@ 435'	(drive way)	BDL of 76.0
School	Street	intersection			

11/15/01 G9011.L.0063.00

0930 DAVIS phones STAT LAB re status of analytical data and Fedex for pickup at site. pickup #16 b/n 10-5.

10:00 DAVIS drives by 1st ST to identify KDHE residencies on aerial map.

1015 DAVIS arrives at 530 + 536 Front ST to complete XRF post ~~screening~~ Excavation Readings. See site sketches for XRF readings. Barrier is needed in QUAD B East of shed. see pg. 45 of this log bk

NOTE: samples to be screened in west lot with Niton #63

1115 Lunger returns with Backfill samples. Area has moved to but is within sample field that lab samples were collected on ~~in~~ October.

	Niton #53	Niton #63
#1	<53 (ND); <89; <90	<90; <150; <150
#2	<46 (ND); <64; <44	<90; 110; <150
#3	<41 (ND); <42; <47	<110; <140; <120

NOTE: Niton #53 to be used only (until standards same)

1140 DAVIS screens 530 Front with Niton XRF readings are as follows: (post screening)

QUAD A: 916±100; 579±140; 89±48

QUAD B: 261 (ND); 934±110; 114±61 radio tower

QUAD C: NOT excavated & 400 ppm

11/15/01 G9011.L.0063.00

QUAD D: 103±46; 587 (ND); 1720±150

NO Barrier (trees ↑ 400 ppm)

1200 DAVIS arrives at 610 + 614 Front ST to take XRF readings in excavated areas:

QUAD A: 491±89; 711±85; 233±61

QUAD B: <71 (ND); 3250±290; 2590±230; 2460±190

QUAD C: 1480±150; 194±48; 114±47

NOTE: ZN in QUAD B 58.0K

~~sample quad's A, B, C → 9 aliquots + take 3 XRF readings each~~ Barrier will be placed at SE corner of QUAD A, All of QUAD B and C. Kaufman to lunch

1226 DAVIS takes XRF readings with Niton #53 at 618 Front ST. Readings are:

QUAD A (East): <54 (ND); 286±62

QUAD A: 1190±120 (tree); <60 (ND); 223±66

QUAD C: <56 (ND); 102±44

QUAD D (East): 207±56; 89±53; 528±76

QUAD B - Barrier on (but barrier) east side only. (east of steps/walk only on corner → SE part of QUAD C AT 614 Front

1245 DAVIS takes XRF readings at 620 Front ST. QUAD A: 347±74; 696±97; <64 (ND)

QUAD B: 360±72; 1250±130; 1180±80 (tree)

QUAD C: 297±55; 297±55; 403±72

11/15/01 G9011.L.0063.00

1300 Kaufman returns from lunch

1315 DAVIS completes 620 Front ST Quad A to have samples collected with 9 aliquots and screened 3x with Niton. Quad B above but in tree drip line but Davis will sample w/ 9 aliquots

NOTE: Kaufman screens the west lot at 513 Front street with Niton. If above 400ppm, 9 aliquot sample to be collected & screened 3x with Niton. DAVIS Also requested if any areas come up ND to collect a sample.

1325 DAVIS goes to lunch

Note: DAVIS to screen 634 Front ST with Niton for post excavation once IT completes load out of stockpile. Quadrants that have XRF readings ↑ 400 ppm in XRF readings around tree drip lines, sewer lines, etc will not have barrier placed down prior to backfill because barrier will be too shallow of a depth & will come uncovered over time. Extra backfill to be brought in those areas. Backfill is being brought in from new area in Borrow Pit/Field. XRF Readings on pg 24.

11/15/01 G9011.L.0063.00

1355 DAVIS returns from lunch

KDHE has sampled 4 additional houses on W 1st ST to be included in excavation

NOTE: 620 Front ST to be further excavated, DAVIS will screen with Niton XRF after completion (& QUADS). Quad A + B may not need to be sampled + screened.

Backfill to begin today on 511 Martin ≈ 3-4 loads brought in today.

1500 Kaufman screens grass b/n drive on Front ST (N side)

DAVIS enters info into spreadsheet.

*LOTS TO BE SKETCHED TOMORROW:

✓ (1) 511 + 527 W 1ST - LINDQUIST

✓ (2) 514 W 1ST - WILMA ADAMS

↳ sketch 515 W 1st

* SAMPLE: 513 West Lot QUAD # 2 + 3 + ditch 513, 634, 515 (5 ON Front)

* VIDEO: ✓(1) 505 + 513 FRONT

✓(2) 500 + 506 + 514 W 1ST ST

✓(3) 527 + 511 W 1ST ST + 501 1ST ST

1645 506 1ST - ND scrape in front yard see site sketch

** 500 1ST go to 12" behind house (N)

* Shoot XRF at 620 Front, QUAD A + B

* And screen 634 Front ST

11/18/01 G9011.L.0063.00

1743 DAVIS completes data spread sheet + receives analytical results for samples and enters into Lab correlation spreadsheet, Lab + Niton correlation is 99%

1800 DAVIS and Kaufman depart site for hotel. To do list is on page 27.

Fred Davis
11/18/01

11/16/01 G9011.L.0063.00

0700 DAVIS arrives at site. IT + OSC on site. DAVIS calibrates Niton #53. Davis prints spreadsheet and Lab correlation spreadsheet for Don Lunger + Bill

0720 Jeromy with START arrives on site. Kaufman sitesketchs along 1st St. see pg 28

Weather: foggy, 7 48°F, high expected to be ≈70°F, winds 5-10mph from south

0730 ~~Kaufman~~ DAVIS calibrates / shoots both Nitons #53 + #63 on medium soil standard for comparison. see next pg. TASKS today are on page 27.

DAVIS to do site walk through with Seth to show where barrier needs to be laid down.

backfill 511 Martin, excavating 621 Front, scraping outside 50' from house at 634 Front.

0750 DAVIS does site walk through. No barrier to be laid down at 511 Martin.

Davis checks on Jeromy - additional site sketch at 515 1st + and screening.

DAVIS to collect sample at QUAD D, 511 MARTIN

11/16/01 G9011.L.0063.00

0815 DAVIS stops by 527 1st where Jeromy is sketching, Jeromy stated that the venter's wife almost pulled a gun out. He discussed task for 15min with venters and all is ok

0820 DAVIS pulls 9 aliquot sample from QUAD D at 511 Martin for <ND

NOTE: 524 Front ST, trailer has burned from a fire (Jabben-Bruce) OSC to speak with fire dept re: status of owners. Owners OK. will take ~90 days to remove

0900 XRF readings from 511 Martin QUAD D: <59(ND); <50(ND); <53(ND)

0944 XRF Readings on soil standard

(medium)	Niton #53	Niton #63
(1)	1120 ± 110	954 ± 290
(2)	1090 ± 130	1220 ± 320
(3)	1000 ± 110	1180 ± 320

Standard is medium - NIST 2711

Lead medium standard is 1162 ug/g (ppm)

1020 DAVIS screens 620 Front, QUAD A+B. IT crew removed more soils from QUADs.

QUAD A: 204 ± 67; <68(ND); 496 ± 85; 277 ± 68

QUAD B: 384 ± 70; 309 ± 69; 395 ± 72; 760 ± 12 (trace)

QUAD A is sampled with 9 aliquots in QUAD.

11/16/01 G9011.L.0063.00

NOTE: Following XRF readings were collected on 11/15/01 by START member Jeromy Kaufman. Attached are XRF readings and description of readings (are below)

11/15/01 Grass / Ditch Sampling along Front Street
1500 the side walk on the North side. All
XX feet west of coyle. All results expressed

Coyle Street

505	Front	street	25'	306 Pb	± 81
			75'	462 Pb	± 73
512	Front	street	125'	211 Pb	± 66
			180'	228 Pb	± 69
			225'	BDL of 100 Pb	
520	Front	street	275'	132 Pb	± 35
524	Front	street	325'	276 Pb	± 69
530	Front	street	375'	100 Pb	± 50
536	Front	street	425	110 Pb	± 44
			475	226 Pb	± 57

School Street

1540 Grass / Ditch Samples along Front street between
on the north side. All measurements are

610	Front	street	25'	BDL of 96 PB	
			75'	47.2 Pb	± 53
			125'	306 Pb	± 61
			160'	315 Pb	± 93
			225'	168 Pb	± 59
			285	BDL of 62 Pb	
			325	139 Pb	± 56
			375	103 Pb	± 46
			425	111 Pb	± 45
			475	635 Pb	± 87
			525	415 Pb	± 68

Intersection of North Catherine

11/16/01 G9011.L.00630

1100 DAVIS sets up nitrogen to North of excavation area. Davis phones STAT Analysis lab to inform him that we are dropping the mercury from analytical parameters.

1115, XRF readings from post screening on QUAD A at 620 Front ST to see if barrier is needed. XRF readings are: Quad A: 81.0 ± 39; 86 ± 42; 109 ± 42

1130 XRF readings, post excavation are collected at 634 Front ST. Readings are: QUAD A: <52 (ND); <49 (ND); 88 ± 39
QUAD B: 2900 ± 180 (+ trace); <60 (ND); 659 ± 81 (-ng trace)
QUAD C: (all traces) 936 ± 130; 4540 ± 240; 2600 ± 190
QUAD D: (all traces) 1830 ± 130; 1980 ± 160; 1400 ± 140

Readings beyond 50' from house to be taken after loadout of stockpile in that area.

1150 XRF post excavation readings at 620 Front ST beyond 50' from house are: east: 502 ± 73; 930 ± 110; 1260 ± 120
North; 1460 ± 120; 654 ± 86; 379 ± 75; 818 ± 100
NOTE: hydroseed at 7th for 400,000 sq ft

1215 DAVIS informs OSC of higher readings to the North of 620 Front (beyond 50' from house) crew may take off more soil

11/16/01 G9011.L.00630.00

1230 DAVIS speaks with Jeromy at 1st ST. Jeromy video taped 500, 506, 514, 527, 511, 515 w 1st and 505 + 513 front sketches for all are completed.

1300 DAVIS breaks for lunch

DAVIS to: • sample 513 Front, cell #2 + #3
• screen ditch on Front ST (south side)
• screen 515 Front ST

NOTE: Jeromy departs site for KC at 1300

1330 Davis returns from lunch.

IT crew to work extra hrs tonight to build up stockpile at Borrow Area

1400 Readings at 620 Front, beyond 50' from house: <43 (ND); <47 (ND); <45 (ND). 16" bury removed. DAVIS told IT excavator to remove only ±3"

1440 DAVIS collects samples from 513 Front ST. Quad #2 + #3. 9 aliquots per cell + to be screed 3x with Niton XRF
1450 #2 816 ± 86; 870 ± 88; 866 ± 90
1510 #3 641 ± 74; 515 ± 70; 592 ± 76

1530 DAVIS screens ditch line on south side of Front ST between Coyle ST + N Catherine ST.

11/16/01 G9011.L.0063.00

XRF Readings are from intersection of Coyle ST to ~~school~~ Front ST at the following measurements:

Coyle + Front = 694 ± 97

from intersection: 90' = 136 ± 54
160' = 160 ± 75
206' = 159 ± 61
270' = < 68 (ND)
325' = 135 ± 59
375' = 97 ± 42
445' = 109 ± 54

intersection of school + Front = 103 ± 52

from intersection of school to North Catherine

from intersection: 179 ± 57
50' = 131 ± 49
100' = 181 ± 53
150' = 71 ± 37
200' = 81 ± 52
270' = 93 ± 49
320' = 113 ± 39
378' = < 48 (ND)
420' = 64 ± 32
470' = 67 ± 42

N. Catherine + Front = < 56 (ND)

1630 IT crew 1/2 done with 621 Front ST excavation. 2nd IT crew at loading of

11/16/01 G9011.L.0063.00

STOCKPILE at 634 Front ST. IS COMPLETE

DAVIS updates field sheets

1740 Backfill at Borrow Pit is low. New area would cost over $10,000. IT trying to locate fill for weekend

1800 DAVIS departs site for hotel. and will depart for KC after checking out of hotel. Site may close down early. OSC to contact DAVIS on 11/17/01 re: status.

NOTE: Miniram reading 0.14 TWA over 8 hr period

1900 DAVIS departs hotel for KC, MO.

2350 DAVIS ARRIVES IN KC.

11/16/01

11/26/01 G9011.2.0063.00

0700 DAVIS arrives at site. OSC + IT crew on-site. New area to be used ~~AF~~ for backfill location is within same general area, however is across ditch to SE. IT crew to cut down trees to new borrow pit for access road. HERTZ equipment to arrive on-site around 9 AM. IT member to start backfill stockpile later this morning. Excavation begins on 617 Front ST. NOTE: TODAY is first day back from Thanksgiving break.

Weather: windy ≈ 10-20mph from W, SW, high expected to be ≈ 60-65°F currently cloudy + 59°F, chance of showers on AM.

0730 DAVIS submits time sheet.

0800 DAVIS calibrates Niton #53. Niton #63 not on-site. Readings from new backfill area were taken by OSC Lunger on 11/17/01. Readings to be given to DAVIS today.

0815 DAVIS phones STAT Analysis Lab. Returning message from Brett re: delayed results due to equip. problems

11/26/01 G9011.2.0063.00

Brett not in, will return call.

0820 DAVIS goes to screen 515 1st ST residence but prior to that DAVIS does drive through of residential area and sets up MINIRAM downwind of excavation area at 617 Front ST.

0840 DAVIS begins screening 515 1st with Niton. XRF readings are as follows: Quad A: <71(ND); 168±56; 279±78; 370±75; 180±65; 63±37; 284±

Quad B: 609±100; <56(ND); <63(ND); 171±53; 62

Quad C: 323±77; 74±38; 355±67; 297±62

Quad D: 318±67; 314±65; 128±41; 147±44; 204±75; 375±78;

NOTE: Approximately 4 to 6 readings are taken per quadrant. NOTE: Quad's are marked at the NE corners. Also, see site sketch.

0941 DAVIS reviews site sketches by Jeromy Kaufman, START member, and marks Quad's.

1040 DAVIS speaks with OSC Lunger. DAVIS mentions that 1 reading is ↑400ppm at 515 1st ST along brick walk in Quad B. Lunger will excavate soil from Quad B. DAVIS puts scale on site sketches done by Jeromy Kaufman + marks Quads

11/26/01 G9011.L.0063.00

Lunger states that he was unable to post-screen 621 Front ST. TASKS TO BE completed by DAVIS: (1) pre screen N. of 514 1st St, beyond 50' from house

(2) screen (post) 621 Front ST

(3) pre screen alley SOUTH OF 1st STREET with NitoN

(4) SOUTH OF 506 1st, beyond 50' from house, done by JK

1100 XRF pre-screen readings North of 514 1st ST, beyond 50' from house are as follows: 493±82; 940±130; 773±120; 100±48

NOTE: 509 1st ST has not yet been site sketched, video taped by START. EPA has not yet gained access to site. phone is disconnected.

1130 DAVIS goes to 621 Front ST to post-screen quads with NitoN: XRF readings are as follows:

QUAD A: 163±51; 80±48; <69(ND); 70±41

QUAD B: 66±37; 89±47; 76±47; 129±53

QUAD C: 45±27; 304±53; <73(ND); <64(ND); 82±47

11/26/01 G9011.L.0063.00

QUAD D: <60(ND); 79±48; 99±56; <77(ND)

NORTH of house, beyond 50' - XRF readings post screen are: 154±57; 275±62; 2550±200 only 3" or less removed from this area. Just west of driveway

1220 DAVIS goes to lunch

1245 DAVIS returns from lunch

DAVIS enters in ~~lab~~ ID XRF sampling #'s in computer + checks ditch line 400ppm. DiSt

NOTE: Brett with START ANALYSIS LAB is on VACATION this week. Craig is contact for the week

DAVIS calibrates Niton

DITCH line at intersection of Coyle ST + Front ST, on south side, is ↑ 400ppm.

DITCH LINE at 634 Front ST, next to driveway, is ↑ 400ppm.

1330 Activities for tomorrow include:

- LT loading out soil + stockpile backfill
- possible begin excavation on 505 + 513 Front ST (Hale) (wed begin backfill)

1350 DAVIS collects 9 aliquots for sample at 621 Front ST (quad D). If all ND DAVIS will submit as sample. XRF readings are: 336±62; 446±70; 411±67, not submitted for sample ~~but no house barrier~~ ID

11/26/01 G9011.L.0063.00

~~1530~~ 1518 DAVIS arrives at alley between 1st + 2nd STREETS. DAVIS will screen yards beyond 50' from house to alley with Niton.

(1) South of 529 1st ST to alley: 196±60; 332±56; 339±71;

(2) - SOUTH OF 527 1st ST to alley: 272±62; 137±36; 486±97; 99±42; 162±62

(3) SOUTH OF 515 1st to alley: 149±55; 231±57; 523±72; 204±60

(4) SOUTH OF 511 1st to alley: 116±39; 285±58; 676±92 (by tree at fence line)

1500 DAVIS goes to command post to enter above data onto site sketch field sheets. The (CO) owner of 529 1st ST speaks with DAVIS regarding his yard and sampling + removal. DAVIS stated that OSC Don LUNGEE would like to speak with him re access. He stated that tomorrow morning (or in the mornings) would be best time to speak with him.

1530 DAVIS + Bill (IT) go to Borrow Pit area so DAVIS can video tape

TTL MINS. 0:01:04

1600 DAVIS goes to 629 Merritt b/c of leaking pipe + 617 Front ST b/c of sewer gas smell with IT + OSC

11/26/01 G9011.L.0063.00

1640 DAVIS ARRIVES at 634 Front ST to take XRF readings with Niton along ditch line that IT excavated to ±3'. XRF readings are as follows: 530±79; 1280±140; 939±110; 200±57

1700 DAVIS discusses XRF results + backfill areas with Lungee. DAVIS begins to download site photos

1730 DAVIS departs site for hotel ~~and~~

Activities for tomorrow:

(1) begin excavation on Hale property

(2) backfill excavated properties

(3) stockpile at borrow pit

(4) sketch + video tape 606, 638 + 635 First ST

1800 DAVIS arrives at hotel

[signature] 11/26/01

11/27/01 G9011.C.01.0063 00

0700 DAVIS arrives at site. OSC + IT crew are present. IT crew to begin scrapping/removing top 3" of soil at 505 + 513 Front ST, Hale property. Also, load out of stockpiled soil at 617 Front ST. and stockpiling of backfill soil at Borrow pit

0715 DAVIS continues to download site photos (from yesterdays task) and log them in computer.

0720 DAVIS mentions to OSC Don Lumiger that Micromax is still shutting down during measurement status of daily monitoring. Low battery signal is not present on equipment but DAVIS will replace battery, if needed (not needed)

Weather: ≈ 24°F, partly cloudy, winds 10-15 mph from S, SW, high expected to be ≈ 35°F, chance of snow tonight

0900 DAVIS enters data from pre-screening XRF DATA on spreadsheet (log) 505 1st ST FOR KDHE + photocopies site sketch, etc

Davis will sketch + video tape 529, 509, 606, 635 and 638 First street

11/27/01 G9011.C.01.0063 00

when OSC Lumiger receives access

1115 DAVIS completes downloading of site photos and inputing descriptions

OSC states that access to 509 + 529 First ST have been granted, DAVIS will site sketch + video tape properties

1140 DAVIS speaks with Joe Slaubey outside of command post. He signed access agreement to be given to OSC. He had doctors appt tomorrow and would be unable to meet Don at that time. DAVIS puts access agreement on Lumiger's desk.

1152 DAVIS takes digital photo of 513 Front ST

1155 DAVIS begins site sketch at 509 First ST.

1315 DAVIS completes site sketch at 509 1st STREET + Quadrangles are flagged (at NW corner) see site sketch

1330 DAVIS goes to lunch

1400 DAVIS returns from lunch and takes care of phone calls to Tetra Tech + Lab

1530 DAVIS site sketches 529 First ST + Quadrants off, see site sketch

11/27/01 G9011.L.01.0063.00

1645 DAVIS video tapes 529 + 509 First St properties

1718 DAVIS completes video taping of 529 + 509 First ST, respectively.

1730 617 Front ST loadout is complete, 50% of west lot at 513 Front ST is complete, (≈ 3")

TASKS FOR TOMORROW:

(1) sketch + video 606 First ST

(2) screen 609 Front ST, a part of 606 First (Waggner property)

(3) take XRF readings at 617 ~~611~~ Front ST

1749 DAVIS departs SITE

NOTE! Backfill samples collected by OSC DON Limanger at new borrow pit. Readings are as follows!

BSE #1: 52.9 ± 32; 59.4 ± 32; 82.7 ± 36

BSE #2: <39 (ND); <44 (ND); <41 (ND)

BSE #3: <45 (ND); 58.3 ± 35; <48 (ND)

BSE #4: 59.1 ± 33; <45 (ND); 62.8 ± 34

(BSE = backfill southeast)

Ingrid DAVIS 11/27/01

EXCAVATED QUADRANTS ↑ 400 ppm NEEDING BARRIER

Address	Quad/Cell
(1) 629 MARTIN	A, B
(2) 512 Front	A, B, C, D, beyond 50' ↑ 400 ppm
~~(3) 617 Front~~	~~D~~
~~(4) 621 Front~~	~~D~~
(3) 530 Front	B (NORTH) ONLY TO EAST OF Shed and N-NE OF trailer
4) 610 + 614 Front	A - SE CORNER; B; C over to 1/2 of 618 Front
5) 618 Front	QUAD B - cover 1/2 on east side (part out of 614 Front)
(6) 634 Front	B - very N corner of house see site sketch

Photo Log (continued from LOG bk# 1)

frame #	date	time	description	direction
(12) 119	11/12/01	1150	Not quite by residence horse pin excavated w/strawpile	N-N
(13) 118 #14 duplicate	11/12/01	1152	536 Front ST- yard excavated	N
ID (15) 117	11/12/01	1155	530 & 524 Front ST- excavated yard	NE
(16) 116	11/12/01	1157	520 Front ST- excavated yard	NE
ID #17 115	11/27/01	1152	west lot of 513 Front St, during excavation	SE

NOTE: photos #1-16 have been downloaded

Note: #18 photo skipped

#18 114

Tyd DAB
11/27/01

frame #	date	time	description	direction

This page intentionally left blank

Tyd DAB
11/27/01

SAMPLE LOG

Sample #'s	date	time	location	description
NZ-007	11/12/01	1300	620 Front ST	QUAD C
NZ-008	11/12/01	1450	511 MARTIN ST	QUAD D
NZ-009	11/14/01	1635	629 Martin	QUAD A
~~NZ-010~~	~~11/16/01~~	~~0830~~	~~511 Martin~~	~~QUAD D~~

NOTE: SAMPLES NZ-001 thru NZ-009 will include mercury analysis. All other samples will not include mercury as a parameter for lab analysis

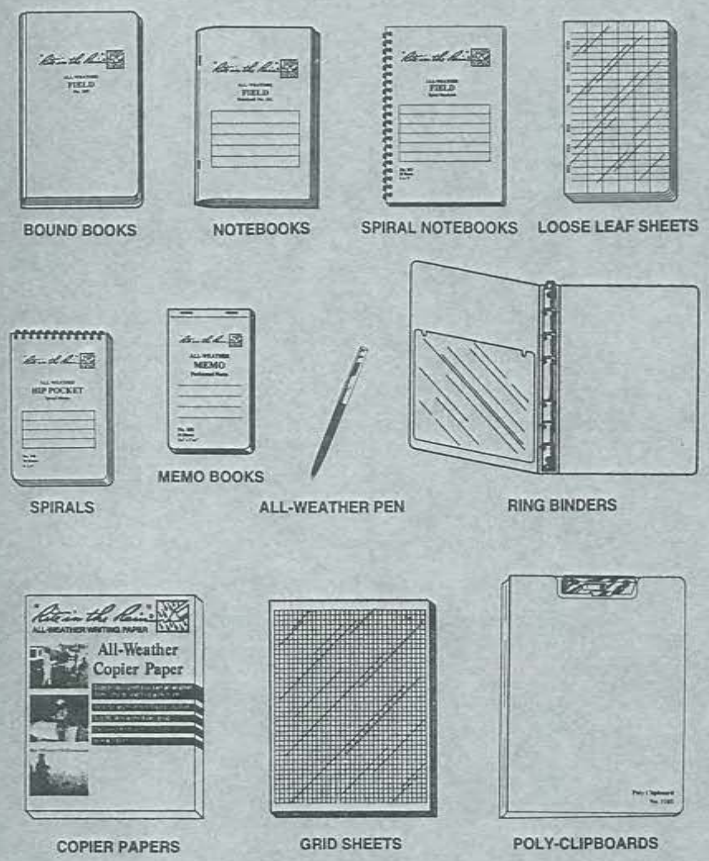
NOTE: 9 samples submitted during removal & pre-screening activities, 4 have been submitted as back fill, TTL 13 samples submitted to date (11/26/01). 7 samples left to be collected & submitted within budget.

~~NZ-010 11/26/01 1350 621 Front ST QUAD D~~

I gd Dub
11/27/01

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Outdoor writing products . . .
. . . for outdoor writing people.



Field data . . .if its worth collecting, its worth protecting.

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

HORIZONTAL LINE

All-Weather Notebook
No. 391

LOG BOOK #3 OF 7

NATIONAL ZINC SITE
CHERRYVALE, KS
MONTGOMERY COUNTY
PROJECT #: G9011.1.01.0063.00

4 5/8" x 7" - 48 Numbered Pages

COPY

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Element	KDHE RSK LEVELS
CD	39 mg/kg
Mercury	2 mg/kg
ARSENIC	11 mg/kg
Lead	400 mg/kg
ZINC	23,000 mg/kg

Name

Address Tetra Tech x's: JANE 3952 Angela 3922

Phone

Project

Montgomery County Health Dept
Ms. Alex Bournah
620 · 331 · 4300

Yellow Polyethylene Protective Slipcovers (Item #31) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE
	NZ SITE	
	604 N. Liberty ST	
	Cherryvale, KS 67335	
EPA	(O) 620 · 336 · 8954	
	(E) 620 · 336 · 8956	
LT	(P) 620 · 336 · 8952	
	STAT ANALYSIS LAB	
	2201 West Campbell ST	
	PARK Drive, STE 315	
	Chicago, IL 60612	
	# 312 · 733 · 0551	
	CONTACT: Brett Nicholas	
	MICROTEL:	
	2917 West Main ST.	
	Independence, KS 67301	
	# 620 · 331 · 0088	
	FEDEX ACCOUNT #	
	129933895	

11/28/01 G9011.L.01.0063.00

0700 DAVIS arrives at site. IT + OSC present. IT to begin backfilling excavated properties, removal of contaminated soil at 513 Front ST and stockpiling of soil at Borrow Pit

0720 DAVIS updates site field sheets, etc

Weather: cloudy, ~26°F, light snow flurries expected, winds 10-20 mph from NW, high expected to be in low 30's

0800 TASKS for TODAY:

(1) SITE sketch + video 606 First ST

(2) Screen 609 Front ST - vacant lot (part of Waggoner property)

(3) TAKE XRF Readings at 623 and 617 Front ST, post excavation

0830 DAVIS phones Theu Vu, Tetra Tech program manager, to discuss additional Request for funds for site project. DAVIS left VM

0846 DAVIS calibrates Niton to take XRF readings

0850 DAVIS begins site sketch at 606 1st ST

Site property is 300' x 140'

NOTE: No Air monitoring performed today or 11/27/01

11/28/01 G9011.L.01.0063.00

1000 DAVIS BRIEFS 606 First + 609 Front (both owned by Waggoner) 609 Front is vacant lot

NOTE: JAN w/ TetraTech phones DAVIS and expenses will be sent to DAVIS today / tomorrow for project.

1040 DAVIS SAMPLES VACANT LOT + 617 Front ST. IT has begun to snow heavily

1245 DAVIS brings samples into command post to dry before screening with Niton

1340 DAVIS goes to lunch + will collect samples from west lot at 606 First ST after lunch

1410 Davis returns from lunch and prepares to sample west lot at 606 First ST.

1500 lot is sampled

1510 DAVIS stops and speaks with KDHE who is here sampling. KDHE is collecting one sample per yard, and taking readings at 5 locations per yard at the eight (8) residences located east of Coyle ST and NORTH of First ST.

1540 DAVIS homogenizes samples collected

11/28/01 G9011.L.01.0063.00

from 606 1st ST west lot, 609 Front ST, and 617 Front ST (post excavation) 606 + 609 1st are pre-screening samples 1600 the following are XRF readings from:

(1) 617 Front ST, post Excavation: sample time 10:48

QUAD A: 495±74; 604±80; 537±84 by xrees

QUAD B: 612±91; 482±75; 576±79

QUAD C: 237±55; 330±63; 235±56

QUAD D: 125±43; 82±40; 125±44

DAVIS submits sample from QUAD D at 617 Front ST, NZ-010, see pg 48 of this log book

(2) 606 First ST, WEST LOT, prescreening: sample time (1506)

QUAD 1: 298±54; 271±52; 316±57

QUAD 2: 660±80; 606±73; 574±79

QUAD 3: 287±51; 645±77; 561±67

QUAD 4: 387±60; 357±58; 417±60

(3) 609 Front ST, pre-screening: sample time (11:15)

QUAD 5:

QUAD 6:

QUAD 7:

QUAD 8:

} to be completed on 11/29/01

1745 DAVIS departs site for hotel

IT has backfilled SW Martin and begun on N side of Front ST

11/28/01 G9011.L.01.0063.00

and the west lot of 513 Front ST has been excavated to ≈3"

TASKS for 11/30/01:

(1) XRF readings on 609 Front ST

(2) enter lab results from 07-09

(3) review KDHE INFO

(4) package + ship sample(s)

(5) video tape 606 1st ST + 609 Front ST

Floyd Davis
11/28/01

11/29/01 G9011.L.01.0063.00

0700 DAVIS arrives on site, IT + OSC present. DAVIS does site drive through

0715 TASKS FOR today are listed on pages

Weather: cloudy, ≈ 26°F, winds 10-15 mph from NW expected, high ≈ 35°F.

0725 DAVIS reviews analytical results and enters into correlation spreadsheet. Correlation factor between ~~spreadsheet~~ lab results of Niton XRF is 0.985916103 or 99%.

0750 DAVIS reviews other analytical data parameters, Arsenic, cadmium, mercury, zinc.

0815 DAVIS TAKES sample 07-010 and calibrates Niton to take XRF readings on 609 Front ST + checks e-mail

0910 DAVIS calculated that the total number of screened yards, as of today AM, is 105. DAVIS will submit (2) samples today to ~~STAT~~ Analysis for data correlation. Total number of submitted samples is 11, .05% above 10% factor.

DAVIS speaks with OSC Don Lunger regarding increasing sample numbers

11/29/01 G9011.L.01.0063.00

by 10 because of additional yards to be sampled. Currently 12 yards are remaining to be excavated, one sample per 2½ yards to be collected, ≈5-6 samples. Also, an additional 8-10 yards may be added for removal.

0930 DAVIS screens 609 Front ST with Niton XRF Readings are as follows: (NOT yet completed, see below)

NOTE: KDHE will be here on Tues, 12/4/01 to sample additional 5 properties

DAVIS speaks with Don Lunger regarding KDHE data + additional Roses / lots, to screen, etc

Tasks are: (1) XRF readings on Front St
(2) review KDHE info
(3) ship samples
(4) video tape 606 1st + 609 Front ST
(5) screen vacant lot at 000 Martin St, Magnolia property
(6) sketch + screen east lot + video tape 638 ~~Martin~~ First ST
(7) sketch + video tape 635 First ST
(8) talk to Lindquist at 534 2nd ST + get access to sketch + sample + video property + perform all of the above
(9) Quad 4 are screen Beeman property upon access → (6)
(10) screen b/n WWTP + stockpile Road → (7)

11/29/01 G9011.C.01.0063.00

NOTE: IT crew not backfilling today due to muddy conditions. Crew is loading out at 513 Front ST and Excavating east side of 513 Front and 505 Front ST. 513 Front ST excavation to be completed here today.

1020 KDHE screened properties east of Coyle ST to North of 2nd ST and 3 houses are ↑ 400ppm. Also, one property South of Alley (b/n 1st + 2nd ST) on 2nd ST is ↑ 400ppm and 3 houses east of school ST are ↑ 400ppm, Beeman Vacant lot on First ST is ↑ 400ppm for a total of 8 properties

1100 DAVIS takes XRF readings with Niton ON 609 Front ST. Also, DAVIS phones Angela with Tetra Tech to notify her that 10 additional samples need to be added to site with lab procurement, so she can do an addendum. left VM. sample taken 11:48

XRF readings are as follows: ✓ VACANT LOT

Quad #5: 616 ± 82; 1200 ± 130; 1200 ± 120

Quad #6 = 966 ± 99; 974 ± 100; 918 ± 97

11/29/01 G9011.C.01.0063.00

Quad #7 = 1330 ± 130; 1110 ± 120; 934 ± 100

Quad #8 = 1370 ± 130; 1570 ± 140; 1540 ± 140

NOTE: sample NZ-010 + NZ-011 are picked up by Fedex 12:20 pm

1222 Don Lunger spoke with the Fire chief re: sampling their property because of children playing football in lot. He stated that he would speak with his superior. Lunger also recieved access to proceed with residence at 638 1st ST.

1240 DAVIS completes form(s) updates for files and screen composite material, residual, for Don Lunger with Niton.

1330 DAVIS breaks for lunch

1330 DAVIS returns from lunch

1340 DAVIS drives by 529 1st ST to get correct names of residences J. Scramberg + Blasor. Also, residences at: 635 W 1st Smith
606 W 1st Wagoner

1350 DAVIS arrives at 638 W 1st to perform site sketch, mark quadrants and sample. Also the North lot.

11/29/01 G9011.L.01.0063.00

DAVIS calibrates NITON. 638 W. 1st ST is 247' x 140'. VACANT LOT IS 150' x 140'.

1615 DAVIS finishes site sketch + quadrant marking of above mentioned lots. Mr Smith at 635 W 1st ST stopped by and asked status of his house for removal, etc. Davis stated that she would get Mr Finger and send him over to his house

1622 DAVIS screens above lots (638 1st) (+ vacant lot + N of 638 1st) with NITON. XRF Readings are as follows: (3-5 readings EB)

Quad #1: 430±72; 371±86; 353±77
Quad #2: 102±44; 399±85; 346±71
Quad #3: 199±50; 427±47; 847±97 → by alley
Quad #4: 539±77; 406±81; 540±110
Quad #5: 596±74; 334±57; 164±43
Quad #6: 53±75; 226±53; 223±48
Quad #7: 437±62; 485±77; 590±73
Quad #8: 345±57; 202±48; 116±46

NOTE: Access to 635 W 1st is given to EPA

XRF Readings NORTH OF HOUSE, beyond 50' (in alley) for prescreening readings are: 468±100; 293±78; 1590±170; 2334±11

11/29/01 G9011.L.01.0063.00

1730 XRF Readings east of Cannon Lot to fenceline of 621 Front ARE: 221±48; 394±63; 697±88; 354±56

QUADRANTS #2+8 are below 400ppm

1750, TASKS FOR TOMORROW:

✓(1) VIDEO TAPE 606+638 W 1st ST, INCLUDING LOTS + VACANT LOTS

✓(2) SPRAY PAINT QUADRANTS ON Above properties

✓(3) PRE-SCREEN site sketch + video MAGNUM VACANT LOT OFF OF MARTIN ST

✓(4) Site Sketch + MARK QUADRANTS AND VIDEO TAPE 635 W 1st ST

✓(5) SCREEN East lot, beyond 50' AT 635 W 1st ST

✓(6) POST-SCREEN WEST LOT AT 515 FRONT ST

✓(7) PRE-SCREEN FIRE STATION LOT

* IT TO TO LOAD OUT REST OF SOIL AT 513 FRONT. TWO EXCAVATORS WILL WORK ON 505 Front ST. 4 TRUCKS TO HAUL BACKFILL MATERIAL IN TO EXCAVATED LOTS. SATURDAY BEGIN EXCAVATION ON 1st ST; by SUNDAY have backfill complete

Jed Davis 11/29/01

LBS DAVIS depart site for hotel NOTE: I WILL OF FOR buying supplies

11/30/01 G9011.L01.0063.00

0700 Davis arrives at site. IT + OSC present. Tasks for today are as described on page 11 of this log book.

weather: partly cloudy, ≈ 32°F, winds 10-15mph S/SW. high expected to be ≈ 40°F + mostly sunny

0710 Davis video tapes 606 + 638 1st ST + lots.

0745 Video tapping complete. OSC Lininger stops by where Davis is + states that he received verbal access to screen the Fire Department's yard. He also wanted the following areas screened with Niton: ✓(1) sidewalk going to pool at 513 Front (higher side) ✓(2) east of 500 w/st st b/w house + ST (3) take readings b/w water + stockpile road for City

Collect a aliquot sample at 638

0750 Davis calibrates Niton x

0825 Davis phones Hien Vu re: costs for project. Leaves VM stating that Dan Lininger is going to double amount for START (≈$30,000 to ≈$60,000)

0845 Davis takes XRF readings at 513 Front ST by pool water (pre-screen)

11/30/01 G9011.L01.0063.00

0900 XRF Readings are as follows: 153±57; 109±59; 202±51; 132±37 includes both sides of walk

0920 Davis screens 24" excavation ~~west~~ East of 505 Front ST. ~~to~~ possibly shallow up excavation, will shoot XRF readings at 12" when complete. Excavator is clearing up area, will call Davis on radio when complete so Davis can shoot.

0925 Davis takes XRF readings on east side of 500 w/st ST with Niton Readings are as follows: 186±49; 107±34; 198±56; 184±74

0950 Davis collects 9 aliquot samples for prescreening XRF readings with Niton at 638 1st ST Quads ↑ 400ppm. Quad's #1, 3, 4, 5, 6, 7

1038 Quad #1: 493±67; 512±73; 502±68

1048 Quad #4: 674±75; 575±74; 724±82

1058 Quad #3: 679±79; 623±74; 627±75

1098 Quad #5: 472±63; 518±67; 504±68

1108 Quad #6: 511±75; 553±74; 475±65

1118 Quad #7: 511±64; 606±70; 512±73

1040 Davis takes readings at 505 Front 24" Area. 272±71; <64(ND); 173±32; 248±64

11/30/01 G9011.L.01.0063.00

1130 DAVIS takes XRF readings on Quad's listed on pg 13, readings are also listed on pg 13.

1200 DAVIS takes lunch

1220 DAVIS returns from lunch and arrives at Magnum vacant lot off of Martin St. (b/n horse pen + 629 Martin) DAVIS marks Quadrants and site sketches, video tapes and collects 9 aliquot samples per Quad to take XRF readings.

1235 QUAD 1: 978±86; 939±92; 867±88

1245 QUAD 2: 1750±130; 1800±130; 1720±130

1255 QUAD 3: 1610±120; 1480±120; 1600±130

1305 QUAD 4: 876±93; 846±91; 982±99

1315 QUAD 5: 906±87; 1120±100; 1048±96

1325 QUAD 6: 1960±140; 1550±130; 1820±130

1335 QUAD 7: 2040±140; 2420±160; 2200±150

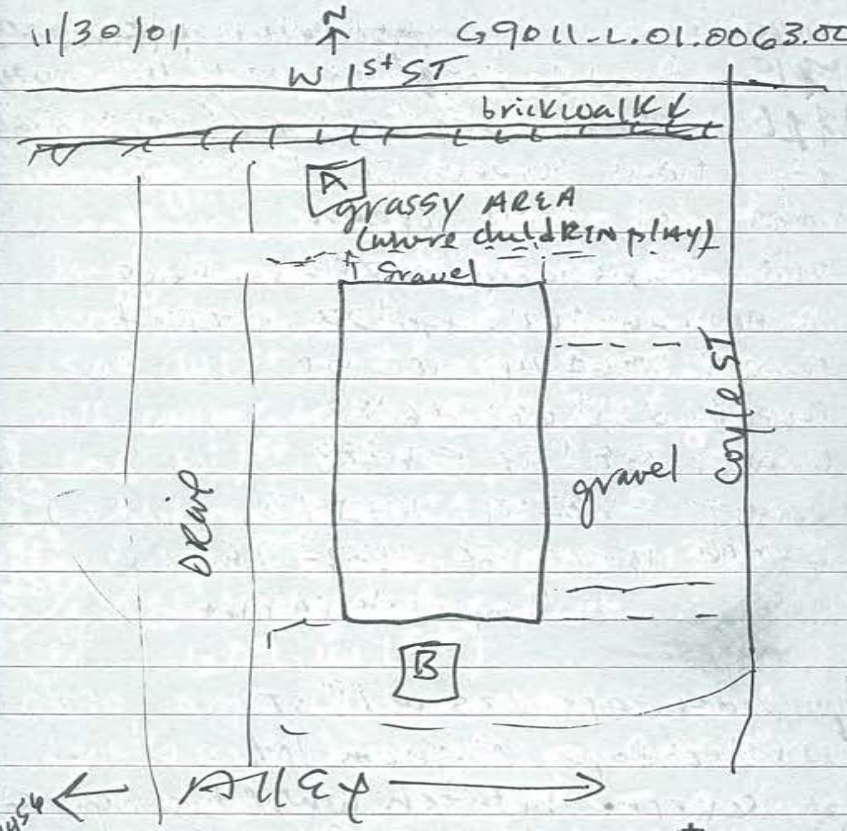
1345 QUAD 8: 1330±110; 1370±110; 1230±100

1400 DAVIS takes above XRF readings

NOTE: Residents at 630 2nd ST does not want their yard excavated/sampled

1450 DAVIS collects samples for pre screening at Firedepartment on corner of W 1st ST and Coyle see next page for sample area

11/30/01 G9011.L.01.0063.00



QUAD A: 177±42; 221±52; 231±49

QUAD B: <42 (ND); <52 (ND); <46 (ND)

(9 aliquots per quad)

1515 DAVIS site sketches 635 W 1st ST + Quadrants off (N=224.6' X 154' / S=219.5 X 154') including Quad's beyond 50' from house (#1 + #2)

1650 DAVIS collects 9 aliquot samples from QUAD #1 + #2

see next page for XRF readings.

11/30/01 G9011.L.01.0063.00

1715 Quad 2: 200 ± 43; 224 ± 45; 254 ± 49
1720 Quad 1: 358 ± 55; 427 ± 58; 513 ± 64
1721 Davis screens 513 Front ST west lot, post screen
1740 Davis completes XRF readings
Quad 1: 262 ± 63; 2770 ± 200; 450 ± 74
Quad 4: 586 ± 94; 1160 ± 120
Quad 5: 331 ± 68; 206 ± 82
Quad 2: 338 ± 93; 518 ± 83
Quad 3: 258 ± 59; 347 ± 73
Quad 6: 1050 ± 130; 433 ± 76
↑ by rock garden

TASKS:
(1) video tape 635 W 1st ST
(2) video tape Magnum lot
(3) screen between WWTP + stockpile rd
(4) review KDHE DATA field sheets
1800 Davis departs site for hotel + KC

[signature]
11/30/01

12/03/01 G9011.L.01.0063.00

0715 Davis arrives at site. OSC + IT present. Davis traveled from KC this morning
Weather: cloudy, ≈46°F, expected high ≈ mid 60's. ≈ 10-20 mph winds from S.
NOTE: IT has begun excavation on 500 W 1st ST on 12/2/01 and will complete today and begin on 506 W 1st ST.
Additional tasks:
(1) post screen 505 + 513 Front ST
(2) site sketch + sample 605 ½ 609 W 1st)
(3) screen back of mark trees 3, 5, 7 at unit 1
605
0730 Davis calibrates Niton and speaks with Winger re: 605 1st ST and properties on 2nd ST. Davis does a site walk/drive through. Backfill crews are working at 610 Front ST and an excavator at 500 + 506 1st ST.
0800 Davis performs post-sampling at 505 + 513 Front ST. and reestablishes quadrants.
0830 XRF readings are as follows
Quad A: 2350 ± 190; 400 ± 68; 435 ± 79; 208 ± 87 (by trees)
Quad B: < 71 (ND); 423 ± 8; < 68 (ND)

12/03/01 G9011.L.01.0063.00

QUAD C: 169±49; 1190±140 (by tree); 136±60; 65±41

QUAD D: not excavated gravel driveway

QUAD E: 98±45; 850±94 (by tree); 104±48; <67(ND); 324±67

QUAD F: <63(ND); 76±45; 702±71; 500±81 (by tree)

QUAD G: 224±56; 419±76 (by tree); <69(ND); <59(ND);

QUAD H: ~~1400±160 (by rock garden)~~ 367±73; <61(ND); <66(ND) (outside 50')

0926 DAVIS collects 9 aliquot sample from QUAD'S A + B because XRF readings are ↑ 400ppm in areas excavated (not by trees, etc). IF readings above 400ppm then barrier will be placed in QUAD(S). XRF readings are as follows:

0938 QUAD A: 143±47; 134±48; 76±40

0948 QUAD B: 135±48; 157±51; 113±46

0954 No Barrier needed at 505+513 Front ST. QUAD B (NZ-012) submitted to lab, for correlation comparison, for sample

1015 DAVIS enters timesheet + checks e mail re cost for project

1100 DAVIS screens 506 W 1st ST North of the house by A/C unit, two small patches of grass + fills out field sheet for sample # NZ-012 and phones Lynn Parnant then VU with TetraTech

12/3/01 G9011.L.01.0063.00

He stated that he wanted me to come to the TetraTech office on FRIDAY (12/7) if possible, to go over cost management

1130 XRF Readings at 506 W 1st ST, North of house by A/C (2 grass patches) ARE AS FOLLOWS:

East: 82±46; 286±71

West: → N/A – already excavated

1154 DAVIS video tapes 0 Martin ST, Magnum Vacant lot, tape 2, 0:01:52 time

1200 DAVIS sets up mini ram, has been malfunctioning – switching off during monitoring, DAVIS had checked battery last week, EXP 00. Mini ram is to the North of excavation crew on 1st ST.

1210 DAVIS video tapes 635 W 1st ST, Tape #2, time.

1226 DAVIS pre screens property between WW (waste water) Filtration Treatment Facility and Stowpile road to ≈200-250' North. Random XRF readings are: 217±44; 267±68; 80±37; 85±43; 88±44; 254±61 212±67; 174±58; 73±38; 187±50; 127±50; 204±59; 341±75 Note: all previous readings east of bldg. To follow are west of bldg.: 3650±220; 500±75; 1370±120

12/3/01 G9011.L.01.0063.00

(on dirt road off gravel stockpile Road);
739±98; 502±84 on dirt road off stockpile Rd);
(235±61; 494±85; 543±59) → readings just Not
Martin ST. NOTE: Readings taken for City
1312 DAVIS returns Lynn Parman's phone call
1328 DAVIS takes lunch
1400 DAVIS returns from lunch
1415 DAVIS site sketches + quadrants off
605 + 609 W 1st ST (Knights) (lot size 150.7' X
154' X Extra 58')

NOTE: TASK: (1) draw sketch for city with XRF
readings listed for WWTP info

1650 DAVIS begins to sample 605 W 1st
+ 609 W 1st ST. DAVIS calibrates
Niton XRF
1722 DAVIS takes XRF readings on above
address with 9 aliquots per quad are collated.
XRF Readings are as follows:
1728 QUAD A: 258±54; 275±62; 247±53
1738 QUAD B: 81±42; 140±48; 125±45
1748 QUAD C: 210±50; 126±43; 222±50
1753 QUAD D: 252±56; 326±58; 255±54
1800 QUAD E: 318±56; 272±54; 276±53
QUAD F: 292±57; 342±58;
All XRF Readings are below 1000ppm
and will not be excavated

12/3/01 G9011.L.01.0063.00

1758 DAVIS departs site for hotel. 1T
crew to loadout stockpile at 500+
506 W 1st ST. + continue backfilling

TASKS for tomorrow:

√(1) Quadrant + sketch + video +
sample 532 W 1st (vacant lot)
√(2) sample 529 W 1st ST
(3) sample excavated yards at
500 + 506 W 1st (collect
samples for lab)
√(4) TAKE XRF readings on West Yard at 605 W 1st ST & beyond
(4) site sketch properties on
2nd ST upon access + sample
(5) site sketch + sample properties
East of N. Coyle ST upon
access.
NEED KDHE DATA + UPON ACCESS
(6) DAVIS sketches out area b/w WWTP
+ stockpile Rd with XRF data
for City

NOTE: KDHE to arrive on 12/4/01 with
additional data on properties
east of N Coyle + ON 2nd ST

Inf Davis
12/3/01

12/4/01 G9011.L.01.0063.00

0700 Davis arrives at site. OSC + IT present. TASK(S) are as described on pg 21.

Weather: ≈ 46°F, cloudy, 30% chance of showers this morning, high expected to be mid 60's to 70's, winds 10-20 mph out of south.

NOTE: IT CREW is performing loadout at 500 + 506 W 1st + 2 trucks (2 trucks) bringing in clean backfill

Davis reviews air results from IT data, one detection of arsenic at 0.123 but below health based standards.

0740 Davis faxes info to Lynn Parman (Health + Safety info)

0800 Davis looks at 532 W 1st to quadrant off. ~~Info~~ so Access has been granted to sample. Sisters own the property

0810 Davis calibrates Niton XRF and takes readings at 609 W 1st ST, beyond the 50', to the West.

XRF readings are as follows:

351±87; 187±74; 151±52; 293±62; 125±46; 158±57

All readings ≈ 400 ppm AT 605+609

12/4/01 G9011.L.01.0063.00

W. 1st ST Davis takes down flags at property

0849 Davis arrives at 532 W 1st ST to quadrant off, site sketch and take prescreening readings with Niton XRF

The lot is vacant with lots of trees and shrubbery. Lot is 245' x 140'.

1015 Davis collects 9 aliquots per quad + will screen 3x with Niton (+++ 6 quads) at 532

1124 Davis collects 9 aliquots per quad + will screen with Niton At 529 W 1st

NOTE: Landscaping crew is on site today grading and seeding at 511 Marion ST.

IT begins excavation at 514 W 1st ST

1223 XRF readings at 532 W 1st ST are as follows: (9 aliquot) PRESCREENING

Quad 1: 741±82; 752±86; 780±84

Quad 2: 458±66; 490±67; 436±64

Quad 3: 255±51; 285±51; 320±56; (281±53)

Quad 4: 406±60; 380±59; 424±62

Quad 5: 545±69; 575±73; 562±73

Quad 6: 676±74; 668±76; 720±80

1247 Davis takes XRF readings for samples collected at 529 W 1st ST with Niton. XRF readings are as follows: prescreening (9 aliquots) →

12/4/01 G9011.L.01.0063.00
(529 W 1st ST)
QUAD A: 57±36; 78±37; 84±37
QUAD B: 264±56; 168±43; 254±55
QUAD C: 55±36; 90±42; 73±40
QUAD D: 145±45; 129±45; 128±45
1307 DAVIS finds OSC DON Winiger to discuss ~~analytical~~ XRF results mentioned above.

TASKS: (1) video tape 532 W 1st ST ✓
(2) collect + package samples
(3) update field sheets
(4) sketch area b/n stockpile road + WWTP + list XRF readings for City

NOTE: Mary LOU Beachner is also owner of 532 W 1st ST (sister of Mary BEEMAN)
1330 DAVIS goes to lunch
1400 DAVIS returns from lunch
1415 DAVIS video tapes 532 W 1st ST + calls Angela Streeter with TETRATECH re increase in lab samples to 10 more
DAVIS left VM with Streeter
video tape #3, time = 0:00:00 - 0:02:15
1502 Kirit or Dave Hicki are QA/QC review for sample data, Angela

12/4/01 G9011.L.01.0063.00
returned phone call and stated that the would have the addendum done by midweek and I can submit samples by end of week. Kirit is going to review data results NZ-001 thru NZ-009 for QA/QC
1509 Davis speaks with OSC RE: properties + sampling
TASKS: (1) pre screen 630 W 1st front lot only
NOTE: *635 W 1st ST Quad 1 needs to be screened ≈ 3"
*606 W 1st Quad 1 (on 400 ppm)

CLEAN CELLS	Address:
#1, ~~#2~~ 10	606 W 1st ST (west lot)
#2, #8	638 W ~~First~~ 10
#2	635 W 1st ST
~~#3~~ 10 ALL	529 W 1st ST

See next page
DD 12/4/01

12/4/01 G9011.L.0063.00

1549 Davis collects 9 aliquots in Quad's A + D at 638 W 1st ST for prescreening with Niton. KDHE screened residence and in front of house (S.) and was ↓ 400 ppm And to the North ↑ 400 ppm. Davis takes samples to confirm ↓ 400 ppm in front yard (South)

1611 XRF readings are as follows for Quad A + D, front ½ only, at 638 W 1st ST:

QUAD D: 406±61; 485±66; 365±60

QUAD A: 556±74; 566±73; 633±76

1630 Davis speaks with Lunger re: 515 W 1st. ONLY One quad ↑ 400 ppm with lots readings above 400 ppm at 600 ppm. Davis + Lunger discuss collecting a 9 aliquot sample from the quad but avg. would be ↓ 400 ppm. Lunger stated that the quad will be excavated and not to collect a 9 aliquot sample.

1645 Davis post screens 500 W 1st ST and collects 5-9 aliquot sample per quad to do ~~AO~~ for sample submitted to lab

12/4/01 G9011.L.01.0063.00

NOTE: Quad ~~A/B~~ to the east of house, see site sketch is not being sampled because prescreening XRF Readings are ↓ 400 ppm, however, Quad A & B south of house, 3-6 aliquots to be sampled

1718 Post screening XRF readings at 500 W 1st ST: (5-9 aliquots / quad)

Quad A: 421±68; 397±70; 378±74

/ Quad B: 58±38; <55 (ND); 57±38

Quad C: 90±42; 177±50; 114±46

Quad D: 75±41; <60 (ND); 72±40

1748 Davis + Lunger discuss + review KDHE info,

TASKS (1) 606 W 1st – pre screen south of house

↓ (2) 527 W 1st – sample + screen including beyond 50' ~~from house~~

(15 sites backfilled IT began excavation at 514 W 1st)

(3) collect + package samples for delivery

(4) update field sheets

(5) Sketch area between stockpile + WWFP + test XRF readings for the city

(6) Niton standard

(7) Sheet

(8) WWFP

(9) Filtration plant photo

1807 Davis departs site for hotel. Landscape crew completed block ln Martin + front 12/4/01

Tyd Davis

12/5/01 G9011.L.01.0063.00

0700 DAVIS arrives at site and IT crew is present & OSC is present.

Weather: cloudy, windy ≈ 10-25mph winds from south, ≈ 60°F, high expected to be ≈ 70°F, chance of showers 30%.

0715 tasks are as described on page 27 of this log book.

0730 DAVIS reviews KDHE field sheets and number of samples screened for lab sample submittal.

NOTE: IT crew to complete excavation at 514 W 1st ST today and begin on ~~509 10~~ 511 or 515 W 1st ST today, only one excavator and one duty truck outloading at 506 1st ST (part of completing excavation at 506 W 1st). truck, with IT, is stockpiling clean backfill at borrow pit. 3 trucks running backfill and 4 once loadout ~~DAID~~ at 506 W 1st is completed.

0830 DAVIS checks for cost summary from JAN Mendoza or then VU with IT online.

0845 DAVIS updates field sheet info

0930 DAVIS shoots medium standard with Niton #53. Results are as follows:

12/5/01 G9011.C.01.0063.00

Niton #53	XRF Readings	
standard is	1000 ± 110	960 ± 110
1462 ppm	978 ± 110	1040 ± 110
	924 ± 100	

0945 DAVIS calculates # of samples needed vs. screened (10%) Total of 16 samples to be submitted 4 to be collected today (12 have been submitted + 4 = 16) + copies spreadsheets that are updated

0955 DAVIS goes to S 32 W 1st to meet Mary Lou Beauchamp, property owner with OSC + IT Response manager Bill

1030 IT crew has begun excavation at 514 W 1st ST and is backfilling small area at 621 Front ST and 505 + 513 Front ST as well.

1040 DAVIS packages + fills out field sheets for samples NZ-013 - NZ-015. see page 48 of this log book

1130 DAVIS phones Fedex pickup #24 for samples b/n 12-5pm

1200 DAVIS collects 9 aliquots per quad at 506 W 1st ST, collects are to be submitted as lab sample NZ-016

12/5/01 G9011.L.01.0063.00

XRF Readings are as follows:

1300 QUAD A: <55(ND); <52(ND); <59(ND)

1305 QUAD B: 126±47; 130±46; 162±49

QUAD C: <59(ND); <53(ND); <58(ND)

QUAD D: <56(ND); <48(ND); <50(ND)

TASKS: (1) repack Niton standard

(2) sketch for city

(3) ~~sample~~ ~~sketch~~ 606 W 1st prescreen - S. of house

(4) 527 W 1st, sample house - all

1320 DAVIS takes XRF readings at scrapped area, beyond 50' from house, to the south

NOTE: hydroseeding crew (from Topka) not on site yet. 8¢/sq ft (6¢ hydroseed an 2¢ yard maintance sq ft)

1346 DAVIS goes to lunch

NOTE: DAVIS faxed Angela Streeter with Tetra Tech Analytical results for NZ-001 for QA/QC

1405 DAVIS returns from lunch

1430 DAVIS takes photos of stockpile

1437 DAVIS arrives at 527 W 1st ST to collect 9 aliquot samples per grid and screen 3 X with Niton. Prescreening XRF Readings are as follows:

NOTE: DAVIS calibrates Niton XRF

12/5/01 G9011.L.01.0063.00

527 W 1st XRF readings are as follows:

1540 QUAD A: 246±57; 262±58; 325±59

QUAD B: 243±57; 215±53; 202±50

QUAD C: 263±53; 338±59; 313±56

QUAD D: 667±80; 692±79; 656±77

1600 XRF Readings every house beyond 50' at 527 W 1st are as follows:

463±71; 413±84; 196±76 middle; 182±68; 122±52

1610 OSC informed DAVIS that access agreements have been dropped off at 420 + 416 ~~Coyle ST ED~~ N Liberty and verbal access has been granted to site sketch + video + sample properties (Roberts)

1620 NOTE: IT crew completed backfill at 621 Front.

- IT crew to excavate 511 W 1st ST tomorrow + 527 W 1st - only one Quad
- 2 excavators on Friday + small bulldozer arrives Friday as well

TASKS: (1) site sketch 420 + 416 + quadrant of

(2) video tape + site sketch Areas properties at 1st + school St (SW corner)

(3) repack leaf standard for Niton

(4) city sketch

12/5/01 G9011.L.01.0063.00

1655 DAVIS arrives at 606 W 1st ST
AO collect samples in Quadrants A+D
south of the house, approx. ~~29~~ 9 aliquots/quad
will be collected. XRF Readings are as follows:
Quad A: 392±62; 440±63; 476±65
Quad D: 454±67; 496±69; 430±70
1717 DAVIS video tapes AN 20 vacant
lot at SW corner of W 1st ST + school ST
tape #3, time = 0:00:00 - 0:01:29
1745 DAVIS departs site for hotel
IT excavated ~~lots~~ Quad B at 515 W 1st ST.

Ted Davis
12/5/01

12/6/01 G9011.L.01.0063.00

0700 DAVIS arrives at site. IT + OSC present. IT to backfill 500 + 506 and 515 W 1st ST and excavate front of 511 W 1st ST. the back yards + alley way at 509 + 511 W 1st. And to excavate 527 Quad D and beyond 50' from house to the east to be scrapped.
0730 DAVIS checks e-mail and receives lab data for sample NZ-010 + NZ-011.
750 DAVIS + Bill + OSC discuss tasks for project, OSC Lunge to ~~discuss~~ depart site this afternoon for a funeral
0806 DAVIS enters Lab data for correlation factor (ie 0.93547 or 94%)

TASKS: (1) ✓ video + site sketch + sample 420 + 400 N Liberty ST
(2) ✓ video + site sketch 416 N Liberty
(3) ✓ VEPAR Niton standard
(4) site sketch for City
(5) screen 527, 515, 514, ~~514~~ with NITON (POST)

✓(6) get access to 400 N. Liberty
Bill OTT
✓(7) Scott from Barnes
✓(8) screen at 400 N. Liberty

12/6/01 G9011.L.01.0063.00

0820 DAVIS meets Bill at 527 W1st to do WALKthrough on areas to be excavated. DAVIS also included 515 W1st ST, beyond 50' from house S.to Alley and at 527 W1st QUAD D and beyond 50' from house, east, and south to alley All to be excavated

0845 DAVIS + OSC Lunger speak with MR. Lundquist re: any issues or areas of special concern at the properties he owns at 511 + 527 W 1st ST. No items or issues of concern.

0900 DAVIS fills out field sheets at 527 + 511 W 1st ST, issues of concern + repacks Niton XRF Standard. Mylar has torn

0940 DAVIS takes reading with Niton #53 on repacked Standard, medium of 1102ppm: Readings are as follows: 1000 ± 110; 1020 ± 110; 1010 ± 110

0949 DAVIS site sketches 420 + 416 N. Liberty ST. DAVIS gets the dimensions from Lunger

1017 DAVIS post screens 515 W1st ST QUAD B with Niton; XRF Readings are

12/6/01 G9011.L.01.0063.00

as follows:

QUAD B: 167 ± 53; 823 ± 84 (by tree); 304 ± 65; 74 ± 36

only excavated cell (↑400 ppm)

1030 MR. Lundquist stops by and states that it is ok to take rose bush out of NE corner at 511 W1st ST.

1040 DAVIS returns to site sketch 420 + 416 N Liberty ST

1200 site sketches complete. DAVIS takes lunch.

1220 DAVIS returns from lunch. IT NOW running 2 dirty trucks + 2 clean. Speaks with Lunger + will try to get access to 404 N. Liberty from Bill OTT for small parcel west of house that KOHE sampled and was ↑400 ppm.

1235 DAVIS arrives at 400 N Liberty to site sketch property

1315 DAVIS completes site sketch at 400 N Liberty

1320 DAVIS quadrants off 420 N. Liberty and collects samples

1415 DAVIS takes readings with Niton on the 3 QUADS at 420 N Liberty XRF readings are as follows: (all spots)

12/6/01 G9011.L.01.0063.00

XRF Readings at 420 N Liberty: Prescreening
QUAD C: 496±70; 540±71; 521±71
QUAD B: 550±69; 518±70; 468±63
QUAD A: 375±59; 242±50; 380±59
Because QUAD B is above 400ppm, DAVIS collects and quad's off 416 N Liberty, house just S. of 420 N Liberty, and collects samples from NE corner. DAVIS wants to confirm decision with Lininger

1440 DAVIS arrives at 400 N Liberty to Quadrant off and sample.

1502 DAVIS takes readings on samples collected from 400 N Liberty with NITON XRF. (9 aliquots per quad) Prescreen
QUAD C: 291±57; 327±62; 257±56
QUAD B: 612±81; 648±83; 664±84
QUAD A: 1020±110; 948±97; 755±86

1520 DAVIS speaks with concerned resident where mother lives at 508 Coyle. DAVIS gives resident DOH's card + DOH arrives both DAVIS + OSC give resident the # and contact to Health Department in Independence (Alex Bowman). She stated that her sons, 12 + 10 play in the former National Zinc smelter plant area. Youngest son has been having health problems

12/6/01 G9011.L.01.0063.00

1600 Yard at 400 N Liberty ST to be excavated east of shed and yards at 420 + 416 all to be excavated.

1601 DAVIS samples 404 N Liberty, only the back yard where the barren spot is. Owner, Mr OTT, does not want ~~property~~ area excavated to ~~be very large area~~ is ~~56' feet east of car port and 30' south of fence~~ 30' west of SW corner of house.
XRF readings are: 531±86; 395±80; 339±56; 229±60 – Areas at boundry see site sketch. OSC departs site 1630pm

1640 DAVIS takes XRF readings in QUAD C at 400 N Liberty to define entrance area to yard to access 404 N Liberty
readings are: 105±45: 329±64, 301±59, see site sketch

1700 DAVIS Video tapes 400, 404, 416 + 420 N Liberty ST. time 0:01:29 - 0:12:07

1714 DAVIS reviews # of screened properties 168, screened cells/areas (16 samples sub)

TASKS:
(1) post screen 514, 527 W 1st ST + SAMPLE
(2) site sketch for city
(3) screen b/n brick wall + N. Liberty ST
(4) field sheets for 16 HOTS
(5) photos + video of properties
(6) magnum lot post scan
(7) prescreen QUAD D at 514 W 1st

12/6/01 G9011.L.01.0068.00

1722 DAVIS does site drive through

- IT almost done with backfill at 505 + ~~W~~ 513 Front ST, need to push/level dirt
- Excavation complete at 514 W 1st + loadout complete
- 527 W 1st ST QUAD D is excavated and ½ of strip beyond 50'

1745 DAVIS departs site for hotel

1830 DAVIS phones Brian VU

LEAVE Field Sheets + Niton

FOR DON ON 12/7/01

Weather: ± 38°F, high 60°F, partly sunny, winds 10mph SW

Fred Davis
12/6/01

12/7/01 G9011.L.01.0068.00

0700 AM IT + DAVIS present on site

Weather: partly cloudy, ± 39°F, high 60°F partly sunny, windy 15-20mph W/SW

0712 DAVIS calibrates Niton and will screen 514 W 1st ST, and collect 9 aliquot samples from 4 QUAD.

NOTE: OSC not present

0746 DAVIS SCREENS 9 aliquot samples collected from 514 W 1st ST, QUADS B, C. QUAD D NOT EXCAVATED, flowers in QUAD D. XRF readings are as follows:

QUAD A: 121 ± 43; 144 ± 44; 145 ± 45

QUAD B; 214 ± 52; 198 ± 51; 217 ± 53

QUAD C: 428 ± 68; 382 ± 66; 388 ± 66

QUAD D: NOT EXCAVATED, Flowers

Barrier to be placed in QUAD C.

Davis confirs with Bill (IT)

0815 DAVIS meets with Ed to show where barrier needs to be put down. Bill + Davis decide to screen QUAD D to see if it needs to be excavated because property is going up for sale

12/7/01 G9011.L.01.0063.00

0834 Prescreening readings on S14 W1st ST QUAD D are as follows: (9 aliquot) QUAD C = sample # NZ-017
QUAD D: 361±60; 353±60; 332±60
QUAD D DOES NOT NEED TO BE EXCAVATED
0842 IT Begins excavation at S11 W1st ST. Front yard.
DAVID takes video of properties being excavated on W1st (east of school)
time: 0:12:07 - 0:13:37
0856 DAVID takes site photos. see page 47 of this log bk
NOTE: DAVID to make copies of Maps + Results for KOHE of the following properties: S27, S29, 605 + 609 W1st and Magnum, Cannon + Wagner Vacant lots
0915 DAVID makes copies of field sheets, ~~collect~~ + labels, fills out field sheets for samples at S14 W1st ST. And does monthly report for National Zone site.
1100 DAVID reviews project costs that were just received via FAX
1120 DAVID leaves info for KOHE ~~with~~ at Lumpers Desk. Bulldozer arrives

12/7/01 G9011.L.01.0063.00

at site
1300 DAVID arrives at S27 W1st ST ~~And~~ collects sample (9 aliquot) from Only excavated QUAD, QUAD D, and takes 3 readings with Niton XRF. Readings are as follows: (post screening/sample NZ-018)
Quad D: 60±36; <51 (ND); <51 (ND)
post screening XRF Reading beyond 50' from house, east + South: E = 325±76; 246±68; 241±69; S = 201±55; 224±76; 750±110 tree
1400 IT crew excavating south of S09 + S11 W1st ST + backfilling S14 W1st ST
1405 DAVID takes XRF readings beyond 50' from house, south, at S15 W1st ST, Readings are:
930±120; 485±88
1420 DAVID departs site for lunch + informs Ed, IT foreman, of S27 W1st - OK to backfill
1530 DAVID Calibrates Niton XRF and arrives at S11 + S09 W1st ST to do post screening on excavated cellars. XRF readings are as follows.
NOTE: IT still excavating cellar #6 to N of both residents

12/7/01 G9011.L.01.0063-00

XRF Readings, Post screening at 511 W1st:

Quad A: 279±71; 228±58; 157±52; 222±57

Quad D: 130±52; 205±55; 210±56

Quad B: <57(ND); <52(ND); <63(ND)

1600 XRF Readings, Post screening, at 509 W1st:

Quad A: <56(ND); <56(ND); 62±38

Quad D: 244±58; 467±91; 96±55

Quad B: 779±90; <57(ND); 242±56

by tree

by tree

NOTE: XRF post screening Readings NOT collected at 509 W1st Quad C (SW) and 511 W1st Quad C (SE) corners because of 511 under excavation.

1635 DAVID post screens Magnum, Vacant lot, at 0 Martin ST.

XRF Readings are as follows:

NOTE From 1620 - 1645 DAVID + Response Manager Bill do site drive through. IT to excavate West of school st on W1st and dress out yards

1645 DAVID post screens Magnum lot

XRF readings are as follows:

Quad 1: 108±51; 2640±200; 403±73

Quad 2: 1930±160; 3490±230; 2210±160

Quad 3: 1650±140; 2860±190; 1150±120

Quad 4: 1320±130; 4630±250; 1870±120

12/7/01 G9011.L.01.0063-00

Quad 5: 1180±110; 2820±190; 582±77

Quad 6: 1670±150; 997±120; 2470±180

Quad 7: 1450±120; 2700±190; 1690±120

Quad 8: 2320±150; 380±74; 2150±180

Magnum lot only scrapped ≈3" with bulldozer, not residential

TASK(S): (1) Screen Quads C at 509 + 511 W1st

(2) screen sidewalk at N Liberty

(3) city site sketch

(4) ~~Exp~~ Screen Excavated properties

1745 DAVID departs site for ke

IJA Davis
12/7/01

12/12/01 G9011.1.01.003.00

1200 DAVIS arrives on-site. IT crew present + OSC is in KC for training. IT crew has excavated yards/lots: 606 + 638 W 1st, 609 Front ST + 638 W 1st N. 1st and 635 W 1st + Arias property

DAVIS will complete following tasks: (1) Screen Quad C at 509 & 511 W 1st ST

(2) screen + sample (as needed) lots: 606 + 638 + 609 + 638 W 1st + Arias property (including vacant lots)

(3) city site sketch

(4) screen sidewalk at N. Liberty ST

Note: OSC Don Lininger gave DAVIS monday + Tuesday off

Weather: ≈ 50°F, cloudy + rainy.

1240 DAVIS goes to vacant lot at 532 W 1st to show area where clean cell/quad is.

Hydro seed has been put down on 621 + 617, 618, 620, 614 + 610 FRONT ST and east of school street on Front ST

See log bk # 4 for entries to follow

LIST OF EXCAVATED QUADRANTS FROM HZ LOG BK #2

(*) NO Barrier too shallow

EXCAVATED QUADRANTS ↑ 400 ppm NEEDING BARRIER

address	QUAD/CELL
529 MARTIN	A, B
512 Front	(*) A, B, C, D, beyond 50' ↑ 400 ppm
~~617 Front~~	~~C D~~
~~621 Front~~	~~C D~~
530 Front	(*) B (NORTH) ONLY TO EAST OF Shed and N-NE OF trailer
610 + 614 Front	A - SE CORNER; B; C over to 1/2 of 618 Front
618 Front	QUAD B - cover 1/2 on east side (part out of C on 614 Front)
634 Front	B - very N corner of house see site sketch

Ted DAVIS
4/28/01

Cont'd from Log book #2

EXCAVATED QUADRANTS ↑ 400ppm NEEDING BARRIER
(see previous page attachment)

Address	QUAD / CELL
~~#28 617 Front ST~~	~~A + B → not~~ by tree
~~606 1st ST (west lot)~~	~~2, 3, 4 ID~~
~~ID 12.03.01~~	
~~635 W 1st ST~~	~~QUAD / ID~~
500 W 1st ✓	A - too shallow, near tree
514 W 1st ✓ done	C = NE corner
509 W 1st (pg 42)	QUAD B - by tree too shallow
~~ID~~	
606 W 1st ✓	

PHOTO LOG Continued from Log book #2

FRAME #	DATE	TIME	DESCRIPTION	DIRECTION
#19 (113)	12.5.01	1430	stockpile (repository)	N ?
#20 (113)	12.5.01	1435	513 Front (west lot)	SE
#21 (112)	12.7.01	0856	506 W 1st ST completed yard	N
#22 (111)	12.7.01	0857	514 W 1st ST Excavated yard	NE
#23 (110)	12.7.01	0859	527 W 1st Excavated, losing yard (Lindquist)	SW

Note: #18 photo skipped + #22 skipped

SAMPLE LOG: (see attached →)

Sample #	DATE	time	location / description
NZ-010 (post)	11/28/01	10:48	617 Front Quad D
NZ-011 (pre)	11/28/01	11:48	609 Front Quad #7

→ 105 properties screened, 10% = 10.5, 11 samples submitted as of 11/29/01

→ 11-30-01 119 screened yards - 11 submitted (need 12/6/01)
sample # increased by 10 → TTL 30

NZ-012 (post)	12/3/01	09:48	505 Front ST Quad B
NZ-013 (pre)	12/4/01	1224	532 W 1st ST Quad #1
NZ-014 (post)	12/4/01	1645	500 W 1st ST Quad A
NZ-015 (post)	12/4/01	1655	500 W 1st ST Quad B
NZ-016 (post)	12/5/01	1200	506 W 1st ST A

12.5.01 → 16 + 4 backfill samples

PLUS 4 BACKFILL = 20 (1st order complete)

* (10 SAMPLES REMAINING)

12/7 NZ-017 (post)	12.7.01	0816	514 W 1st ST Quad C
12/7 NZ-018 (post)	12.7.01	1300	527 W 1st Quad D

SAMPLE LOG

Sample #'s	date	time	location	description
POST NZ-007 ID	11/12/01	1300	620 Front ST	QUAD C
NZ-008	11/12/01	1450	511 MARTIN ST	QUAD B
POST NZ-009	11/14/01	1635	629 Martin	QUAD A
~~NZ-010~~	~~11/16/01~~	~~0830~~	~~511 Martin~~ ID	~~QUAD D~~

NOTE: SAMPLES NZ-001 thru NZ-009 will include mercury analysis. All other samples will not include mercury as a parameter for lab analysis

NOTE: 9 samples submitted during removal & pre-screening activities, 4 have been submitted as back fill, TTL 13 samples submitted to date (11/26/01). 7 samples left to be collected & submitted within budget.

POST ~~NZ-010~~	~~11/26/01~~	~~1350~~	~~621 Front ST~~ ID	~~QUAD D~~

POST AVG.
115
566
(6 MORE)

PRE. AVG.
436
550
644
812
943
1357
1557

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

HORIZONTAL LINE

All-Weather Notebook
No. 391

LOG BOOK #4 OF 7
RESIDENTIAL + RADIO GROUNDS

NATIONAL ZINC SITE
Cherryvale, KS
Montgomery County, KS
Project # 690112.01.0063.00

4 5/8" x 7" - 48 Numbered Pages

COPY

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Elements	KDHE RSK LEVEL
CD	39 mg/Kg
Mercury	2 mg/Kg
Arsenic	11 mg/Kg
Lead	400 mg/Kg
Zinc	23,000 mg/Kg

Name

Address Tetra Tech Ext. Angela 3922 JAN 3952
8030 Flint ST
Lenexa, KS 66214

Phone

Project New Lab TECH at TT - Jeffersonville

Yellow Polyethylene Protective Slipcovers (Item #31) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE
	NE SITE:	
	604 N. Liberty ST	
	Cherry Vale, KS 67335	
EPA	(O) 620.336.8954	
	(F) 620.336.8956	
IT	Phone 620.336.8952	
	STAT Analysis Lab:	
	2201 W. Campbell ST	
	Park Drive, STE 315	
	Chicago, IL 60612	
	# 312-733.0551	
	contact: Brett Nicholas	
	Microfel:	
	2917 West Main ST	
	Independence, KS 67301	
	# 620.331.0088	
	~~Fedex Acct #~~	
	129933895	

ENTRIES continued from log bk #3

12/12/01 G2011.C.01.0063.00

1300 Davis collects 9 aliquot samples at 509+511 W 1st St to post screen with Niton XRF / Quad's C

NOTE: All samples ~~collected~~ screened will be (9 aliquots ~~samples~~ 10 per quad +) placed in pile to to allow soil to dry + then screened with Niton (for 12/12/01)

1330 Davis collects 9 aliquot samples from 606 W 1st St, including west lot + 609 Front St (North lot) samples will be dried + screened with Niton tomorrow

1430 Davis collects 9 aliquot soil samples from 638 W 1st + vacant lot to the North + east quads/lot. Samples will be dried + screened with Niton tomorrow

1620 Davis collects 9 aliquot samples from 635 W 1st + will dry + screen with Niton tomorrow

1650 Begins to rain heavily + hail, lightning. IT crew and start member Davis stop field work. Davis collects all samples except 5 cells/QUADS due to rain

12/12/01 G2011.C.01.0063.0

TASKS: (1) collect/screen North lot at 638 W 1st (3 quads)

(2) collect/screen Quad #1 at 635 W 1st

(3) collect/screen Arias lot (2 quads)

(4) screen all samples collected with Niton

(5) city sketch

(6) ✓ ~~Data~~ entry

(7) call Don with screening info

(8) FEDEX samples

(9) Barrier list

NOTE: Davis received analytical data for NZ-012, NZ-013, NZ-014, NZ-015, NZ-016. Results faxed on 12/10/01

1745 Davis left message with Don Lininger re: weather, etc. Lininger to stay in KC and may mob. equip to site on Friday, 12/14/01. Davis will work full day tomorrow and return to KC on Friday due to the weather and wait to hear from Don Lininger. Davis will leave Niton on-site + field sheets and Quad's needing barrier for Lininger.

1800 Davis departs site for hostel

12/12/01

12/13/01 G9011.2.01.0063.00

0800 DAVIS enters in data results from lab into the correlation spreadsheet for Niton verification. Lab samples NZ-01 - NZ-016 correlation factor is 0.943969972 or 94% (done from hotel)

0845 DAVIS reviews number of screened properties for sample submitted to lab 2/6 screened samples by end of today, need 23 total to lab! (7 samples) 2 have been collected last week, five more to be collected and sent to the lab.

0930 DAVIS goes to site to collect samples and screen samples collected yesterday. Five samples to be submitted to lab for analysis.

1000 DAVIS arrives on-site.

Weather: cold + cloudy - 31°F high 7 Mid 40's °F. chance of showers

1100 3 IT personnel on-site. IT personnel are working at Stockpile area releasing

12/13/01 G9011.2.0063.00

pressure from the rock bridge. Water had built up around the bridge and flooded some of the stockpile area. Rock is being removed from creek bed and new rock is coming in and being placed in creek and on road.

1130 DAVIS collects samples from North lot at 638 W 1st, 635 W 1st and Arias vacant lot.

1300 DAVIS draws/measures area for city site sketch + puts XRF values on sheet

1400 DAVIS goes to lunch

1430 DAVIS returns from lunch and begins to screen post screening samples collected w/ 12/01. All samples need a lot of homogenizing

1500 XRF Readings for 509 C, post screening are as follows:
409 ± 72, 416 ± 77; 407 ± 71

1506 XRF Readings for 511 C are as follows, post screening:
230 ± 60; 220 ± 60; 231 ± 63

12/13/01 G9011.L.01.0063.00

1515 Post screening XRF readings at 638 W 1st ave as follows

QUAD A: 69.0 ± 41; <60(ND); <55(ND)

QUAD B:

QUAD C:

QUAD D:

QUAD I:

> see below

NOTE: samples collected on 12/12/01

1530 IT crew departs site for day

1749 DTRS homogenize all samples collected (except the 6 samples collected today because they are too wet) and will screen with Niton tomorrow morning. All samples dried but were very rock hard and difficult to homogenize.

NOTE: IT crew to run two trucks with rock tomorrow for bridge at stockpile. Rock that was previously used for bridge had soaked and had to be torn down and rebuilt.

1800 DTRS departs site for hotel.

12/13/01

12/14/01 G9011.L.01.0063.00

0700 DTRS arrives at site

IT crew, Bill, Huck, Smitty & Dwayne are present on-site. OSC not present. Huck + Dwayne are at stockpile area finishing the bridge + road to the field. Two trucks are bringing in rock to complete road + Smitty is driving the D3 (bull dozer) and moving it to the repository for pushing dirt when the crew begins site work after candidrow dig up. Smitty will smooth out rock/gravel drives at areas where it has been put down at residences and other misc. tasks.

Weather: foggy, ≈ 38°F, high ≈ mid 40's + cloudy with 10-20 mph winds.

NOTE: It has rained all night and there is a lot of standing water in excavated areas. Some of the hydro seed has washed away. Site conditions are such that load out +

12/14/01 G9011.C.01.0063.00

backfilling are not possible due to wet conditions. Davis left message with OSC yesterday at ~ 1700 re: ~~st~~. May need a pump to get rid of standing water in some areas.

0720 Davis calibrates Niton

0740 Davis takes XRF readings on homogenized samples collected on 12/11 + 12/13

0750 XRF readings, post screening at 638 W 1st ST are as follows:

Quad A: 64±41; <60(ND); 55(ND)
Quad B: 76±38; 111±42; 79±39
Quad C: 172±47; 150±45; 149±44
Quad D: 169±49; 208±51; 188±52
Quad 1: 234±54; 444±66; 303±57
Quad 3: 744±89; 678±86; 691±85
Quad 4: 1010±100; 979±100; 1040±100
Quad 5: 484±72; 424±67; 423±67
Quad 6: 470±70; 530±74; 476±70
Quad 7: 381±64; 334±62; 321±59

0850 Davis homogenizes 6 samples that were collected yesterday and dried overnight.

0915 Davis takes post screening

12/14/01 G9011.C.01.0063.00

XRF readings on Arias vacant lot. Readings are as follows:

Quad 1: 367±69; 321±65; 445±73
Quad 2: 246±61; 426±76; 378±68

0921 Davis post screens 635 W 1st with Niton. XRF readings are as follows:

Quad A: 182±51; 139±47; 184±53
Quad B: 142±47; 130±45; 173±48
Quad C: 484±72; 441±70; 468±71
Quad D: 360±63; 589±84; 571±81
Quad 1: 380±65; 397±68; 453±74

0950 Davis XRFs 606 W 1st ST, post screening. Readings are as follows:

Quad A: 312±65; 409±71; 447±75
Quad B: 547±80; 673±87; 704±87
Quad C: 265±59; 250±58; 265±56
Quad D: <58(ND); <61(ND); <65(ND)
Quad 2: 444±73; 382±65; 430±73
Quad 3: 495±81; 468±69; 452±75
Quad 4: 169±47; 148±47; 182±51
Quad 5: 932±100; 1280±120; 942±102
Quad 6: 796±90; 690±86; 821±95
Quad 7: 1460±140; 1840±160; 1980±178
Quad 8: 1470±140; 1540±140; 1390±130

12/14/01 G9011.C.01.0063.00

1110 DAVIS PACKS samples + fills out COCs + Field sheets

1145 DAVIS speaks with OSC and the site will temporarily be demobilized until Tuesday next week. DAVIS will speak with Lunger on Tuesday to discuss site.

1220 DAVIS photo copies field sheets for OSC + list of quadrants to have barrier put down + comments/special concerns field sheets for: 606 W 1st, 635 W 1st, 638 W 1st, + Avion vacant lot

1230 Davis departs site for KC

[signature]
12/14/01

12/18/01 G9011.C.01.0063.00

1500 DAVIS Fedex's 7 soil samples to STAT analysis laboratory Tracking # 8284388027 25

[signature]
12/18/01

12/21/01 G9011.L.01.0063.00

1700 DAVIS speaks with OSC Lunnger regarding status of National Zinc SITE. OSC Lunnger states that all properties have been backfilled and that the hydroseeding crew will work through the weekend to seed all yards remaining - Including Hale properties on Front ST and W 1st ST. Excavated vacant lots are not to be backfilled until site activities resume on January 2, 2001.

Ingrid Davis
12/21/01

12/24/01 and 12/26/01 and 12/27 + 12/28/01

Ingrid Davis, START member, works on auto data, photos, doc. and Removal Report for National Zinc. Note: DAVIS takes some sick time and vacation time. Crew on break

Ingrid Davis
12/28/01

12/31/01
DAVIS sick. works couple hours on project

Ind Davis
12/31/01

1/3/02 G9011.L.01.0063.00
0500 DAVIS departs KC for National Zinc site.
0800 DAVIS arrives at National Zinc site. OSC + IT crew present.
0815 DAVIS calibrates Niton XRF
IT is excavating 1st property on N. Liberty ST. And stockpiling soil for backfill material
more soil is needed at 509 W 1st st prior to being hydroseeded. All other yards (with homes) have been hydroseeded. Vacant lots not backfilled include: Magnum lot, 638 W 1st (North lot), 532 W 1st and Arias lot. WEATHER: clear, sunny ≈ 27°F
0850 DAVIS will screen 524 Front st where trailer use to sit prior to burning down
0851 DAVIS takes XRF readings with Niton using medium standard Readings are as follows: 1010 ± 110; 937 ± 110; 954 ± 110
NOTE: house to S. west of smelter and west of WWTP to be screened by START + Excavated. KDHE had screened property and is sending

1/3/02 G9011.L.01.0063.00

information via Fax to OSC today
0900 XRF Readings at 524 Front st (where former trailer sat) are as follows: 206±65; <67(ND); 187±61; <60(ND)
IT excavated ≈ 6"-12" at former location of trailer
0910 Davis takes site drive through and vieds tapes the repository.
+524 Front ST
0940 Davis performs check on site files to ensure data is complete, etc
1028 Davis post screens 400 N. Liberty Quad's A + B: XRF readings are as follows:
Quad A: 261± 69; 624± 91 - by trees 100 ts;
Quad B: 97± 41; 265± 59; 668± 93 (SE corner)
Davis has IT crew further excavate Quad B in SE corner. XRF readings after further excavation are as follows: Quad B: <81 (ND); 91±42; 69±41
1116 XRF Readings at 400 N Liberty Quad C: 376± 55; <60 (ND); <59 (ND); <72 (ND); <56 (ND) (Readings E of fence)

1/3/02 G9011.L.01.0063.00

1120 Davis returns to command post and checks lab results + correlation between Niton (+lab) is 93%.
1140 Davis begins to enter samples at end of log bk (10-18) when excavator calls on radio from 404 N Liberty, where square is to be excavated a sidewalk is in the center.
1200 Davis goes to lunch
1230 Davis returns from lunch
1234 Davis takes post screening XRF readings with Niton at 404 N Liberty Square A: - IT crew still excavating area
1250 Davis completes entering data on page 48 of this log book
1330 Davis returns to 404 N Liberty to take XRF readings, still excavating!
1335 Davis drives by rodeo lands. Trespassing sign has listed the names Harold E + Evelyn Reilly
1420 Davis runs into Arvid Lindquist. He would like OSC Don Linnger to stop by his house. He stated that he would like more soil at one of his

1/3/02 G9011.2.01.0063.00

properties

1415 XRF Readings at 404 N Liberty are: 201±77; <67(ND); 118±70; <67(ND) (post screening)

1430 Davis video tapes stockpile, backfill area with/and takes photos

1500 Davis downloads site photos and updates field sheet/tracking forms

1551 areas needing work:

Rock work: 618 Front St
518 Front ST
508 W 1st ST
509 W 1st ST

DIRT WORK: 509 W 1st ST
400 N. Liberty ST ✓
518 Front ST
Lindquist Lot(s) 536

Maintenance areas:
634 Front ST (clothes line)

1630 Davis post screens 400 N Liberty Quad C. XRF readings are as follows: ~~(500~~ 30 west of fence/shed)
Quad C: <69(ND); <69(ND); <72(ND); <57(ND); <74(ND); 114±55

1645 Davis returns to command post

1/3/02 G9011.2.01.0063.00

to work on photo log

1730 Davis speaks with OSC and stated that the brick sidewalk in backyard of house at 416 N Liberty is ok to remove, including piles of brick

1733 Davis departs site for hotel

NOTE: Hale had some issues of concern regarding his property gas well, shed was hit by hydro-seeder and moved off platform. boards need to be replaced. And a couple of low spots need extra soil

TASK(S) for tomorrow:
✓ + review KOHE Brownfields rpt on Pelagonis
(1) James Gann, 5399 County ROAD 500, screen
✓(2) photo log
(3) N Liberty houses, screen
(4) video tape excavated property

Fred Davis
1/3/02

1/4/02 G90N.2.01.0063.00

0700 Davis arrive at site. OSC + IT crew present. IT crew is down to 3 personnel plus response manager. Weather: cold, partly cloudy, winds 5-15mph from S-SW. high expected to be in low 30's (°F).

0715 Davis charges battery for video camera

0720 Davis calibrates Niton. Tasks currently are listed on pg 19 of this log book.

0735 Davis works on photo log

Note:- 2 gravel trucks will run today to addresses on pg 18

- 1 clean + 1 dirty truck will run today (dirty from N Liberty street)

Smitty, IT excavator, continues to excavate 416 N. Liberty (backyard)

0745 Niton Medium standard readings are as follows: 982±110; 970±110; 1010±110

medium standard = 1162±30.

Davis works on photo log

0900 photo log is current, photos #1-25 downloaded + identified

0905 Davis begins review of brownfields

1/4/02 G90112.01.0063.00

Report by KDHE

0945 Davis does site drive through IT response manager orders 7 more trucks to run backfill (rain expected tonight) Davis reviews BTA

1130 Davis does site drive through After review of BTA, area to be screened in Rodeo Grounds is located at GPS latitude 37.27236 and Longitude of 95.56491, sample location S5-10, Pb = 492.0 ppm with lab result, XRF was 346ppm - results + location results from BTA by KDHE Sept 2001

1200 Davis arrives at 416 N Liberty and takes post screening XRF Readings in Quad C. Readings are: Quad C: 410±83; 430±76; 708±93; 958±100; 519±85; 240±61 ⇒ East of shed (by tree) middle of yard ⇒ 823±110; 299±62; 973±160; west of shed ⇒ 273±78; 371±73; 393±80

1245 Davis takes lunch

1315 Davis returns from lunch

1/4/02 G9011.L.01.0063.00

1320 Davis enters site info into trucking field sheets

1400 Owner of Repository speaks with Lunger + Lindquist shows OSC areas he wants more soil(s) at his properties. Water truck may be called to spray road by Borrow Pit + other areas

1435 Davis goes to 5399 County Road 5050 to sketch property.

KDHE site sketched + screened the property. Two sample locations are above 400 ppm, to the east of house and North of house

1530 Davis + Lunger go to rodeo grounds And find SS-10 sample location from KDHE GPS location sample location found + screened Davis screens 20' from SS-10 in each cardinal direction, and if > 400 ppm, each cardinal direction is screened 20' from that point, See site sketch field sheet

1658 Davis goes back to 5399 CR 5050 to complete site sketch

1530 Davis completes site sketch and

1/4/02 G9011.L.01.0063.00

drives by 416 N Liberty ST. backyard is excavated + filled

gravel added at: 400 N Liberty
520 + 526 Front
618 Front
506 + 511 W First

Clean soil covered at Borrow Pit

Note: James Gann at 5399 CR 5050 mentioned that he wanted extra, small pile of soil to fill in low spots, upon removal, Davis stated that Excavation may not be necessary + that I would mention it to OSC

1755 Davis returns to command post + loads up equipment and completes field sheet info

TASKS tomorrow:

(1) screen N Liberty
(2) 5399 CR 5050 - screen + video
(3) video tape
(4) Final Report

10 to spread gravel + 1 dirty truck to run 1/5/02. Water truck to arrive tomorrow

1800 Davis departs site

1/4/02

1/8/02 G9011.2.01.0063.00

0700 DAVIS arrives at site. OSC + IT are present.
Weather: ≈ 28°F, snowing, winds ≈ 5-15mph from S-SW. High expected to be in 30's (°F). approximately 1" of accumulation (snow) on ground
0720 IT crew to excavate 416 N. Liberty, front of house, and will be direct loaded. Rock piles dumped on 1/4/02 are to be spread in driveways.
0800 DAVIS takes care of file management issues + cost tracking issues
0840 IT crew using Tecuchi to load out at 416 N Liberty b/c of brick sidewalk + concrete curb.
1000 DAVIS does site drive through. 416 N Liberty + 420 N Liberty Front yards being excavated + loaded out.
1045 DAVIS calibrates Niton + screens sample collected from Rodeo Grounds. Readings are as follows: 470±56; 381±51; 448±53 (sample #1RG 1.4.02/1031)

1/8/02 G9011.2.01.0063.00

1120 DAVIS takes XRF readings with Niton on medium standard. Readings are as follows: 1010±110; 1010±120; 923±110; Readings from #1 taken in situ are 327±46 + 427±66 at Rodeo Grounds, sample location #1
NOTE: √ (1) GET dimensions from aerial for Rodeo Grounds
(2) Air Monitoring results from IT
1200 DAVIS arrives at 5399 CR 5050 to collect two (2) 9 aliquot samples at locations where KDHE had sampled and had readings > 400ppm. Reading of 600±65 ppm was taken to east of house + driveway, between drainage ditch + drive. 2nd location is just southeast fenced area (garden) to North of the house all taken by KDHE 1st reading 54' East of house + 54' N (from drive + CR 5050) 2nd reading is 40' N from CR 5050 + driveway, W 85', N 52', E 103', N 24', W 36'.
Samples collected from area A + B, see site sketch field sheet will be dried and

1/5/02 G9011.L.01.0063.00

XRF readings to be taken with Niton, 3X each. (Quad A 1230/Quad B 1240)

1247 Davis takes XRF readings with Niton along creek, east of drive. Readings are as follows: South to North => 104±40; 167±47; 223±57; 128±45; 217±54; 143±46; 254±57

Readings around A (flag) => 321±58; at flag => 512±96

1257 XRF readings around B cell are: (from garage port) 165±48; 103±44; 126±41; 202±44; 96±34; 139±46; 104±35; 207±53; 88±37

1300 Davis arrives at 416 N Liberty to postscreen Quad A+B with Niton XRF readings are as follows:

Quad A: <61(ND); 400±73; 222±85; <59(ND); 69±34; 245±64

Quad B: 243±67; 228±63; 214±54; 233±56; 493±85 (by fence, across from porch); 239±51; 219±59

Barrier needs to be placed in Quad B, south of porch towards fence.

1348 Davis lays barrier down at 416 N Liberty

1358 Davis takes lunch

1420 Davis returns from lunch

Excavator Equip will be tight in accessing

1/5/02 G9011.L.01.0063.00

through the backyard gate at 420 N Liberty

1500 Davis gets dimensions of Rodeo ground off of Aerial

1530 Davis does maintance with IT crew, reset fence post in backyard at 606 W 1st ST and repaired post in backyard at 634 Front ST.

Rock put down on 1/4/02 at 400 N Liberty

1728 Additional tasks:

- ✓ (1) Video 5399 County Road 5050 + screen collected samples
- (2) Air monitoring results
- ✓ (3) screen 420 N Liberty (post)
- (4) Video tape all properties (post excavation)
- (5) Site sketch dimensions of Rodeo Grounds + video

NOTE: gravel needed at: (1) 420 N Liberty CK 518 Front 508 + 509 W 1st

dirt work needed at: 509 W 1st 530 + 518 Front ST + 536 Lindquist

1 dirty truck ran today. H2O truck arrived on site.

1/5/02 G9011.L.01.0063.00

1 dirty truck to run tomorrow and excavation to continue at 420 N Liberty. IT to try and stockpile soil at repository tomorrow.

1742 Davis departs site

Fred Davis
1/5/02

1/6/02 G9011.L.01.0063.00

0900 Davis arrives on-site. IT crew present. Excavation to continue in backyard at 420 N Liberty, stockpiling at ~~Repos~~ Borrow pit, if conditions allow for it, Davis to work on tasks listed on pg 27. OSC on-site.

Weather: high ≈ 40°F, winds 15-25 mph from the North, partly cloudy, slight chance of snow.

0910 Davis calibrates Niton XRF and shoots standard (medium). Readings are: 917 ± 97; 920 ± 97; 866 ± 97; Note: Niton used is #S3, A22098

0920 Davis takes readings on samples collected from 5399 County Road 5050, Quad's A+B. 9 aliquots were collected per location and soil was allowed to dry prior to taking readings with Niton. Readings as follows: Quad A: 476 ± 70; 482 ± 67; 434 ± 69 Quad B: 155 ± 45; 260 ± 54; 232 ± 51

1009 Davis fills out field sheets and and collects sample from Quad A, 5399 CR5050, sample# NZ-024, for lab analyses

1/6/02 G9011.L.01.0063.00

1040 Davis goes to 420 N Liberty and S399 to video property

Tape 3 (0:16:12 last rec) 0:00:00 – 0:5:15:00

1100 Davis shows IT response manager the removal area, small triangle in drive (to east) and discuss utilities with him. Area to be excavated is in tree line so excavation will be 36" Owner is not answering the door or is not home.

1110 Davis shows IT response manager the Rodeo Grounds entrance and approx. Areas to be excavated. GAS was marked to the south of excavation area

1130 Excavator is moving to S399 CR5050 to excavate cell. owner not home, (Section owner is home but sick.

1200 Excavation completed at S399 CR5050

1220 Davis arrives at 420 N Liberty to screen front yard, Quads A+B

Niton Readings are as follows:

Quad A: 1220 94±41; 74±38; 107±41

Quad B: 1220 90±41; 81±40; <53 (ND)

145 Davis goes to lunch

1/6/02 G9011.L.01.0063.00

1300 Davis returns from lunch and screens samples from 420 N Liberty with Niton, 3X each. Readings are on pg 30. Davis decides to let samples dry prior to taking readings

1312 Davis arrives at 420 N Liberty to collect soil samples from Quad C, 9 aliquot sample. Sample will dry several hours prior to screening with Niton.

S399 CR5050 is being outlinded and Excavation crew will start area at Rodeo grounds. Davis takes in situ readings in Quads A+B+C. Readings are:

Quad A – <60(ND); 73±40; 57±30

Quad B – 61±38; 88±47; <68(ND)

Quad C – 304±63 (gas); 594±85 (N of poo); 330±63; 276±37; 297±86

1315 OSC Manager arrives at 420 N Liberty + Davis goes with him to the Rodeo Grounds to mark out cell to be excavated

1335 Load-out at S399 CR5050 is completed. Excavator goes to Rodeo Grounds

1/6/02 G9011.L.01.0063.00

1340 DAVIS sends truck driver to Rodeo grounds + returns to 420 N Liberty to collect samples + screen, see pg 30 + 31

1410 DAVIS arrives at 5399 CR 5050 to post screen excavated area. XRF Readings in Situ ARE AS follows:
Quad A: 358±65; 82±44; 61±36
DAVIS collects a aliquot sample and allows to dry prior to screening with Niton (Sample time 1418)
Mr GANN stated that gravel would be OK to use as soil replacement, will even out his driveway

1440 DAVIS returns to command post + allows sample to dry. DAVIS speaks with Lumager re: debris pile. Pile are to remain unless city halls off.

1540 XRF Readings on Quad C, 420 N Liberty ARE AS follows:
QUAD C (#43): 331±63; 382±62; 462±67

1603 XRF Readings on Quad A at 5399 CR 5050 ARE as follows:
Quad A: 54±34; 66±35; <50 (ND)

1730 DAVIS draws Rodeo Grounds site sketch

1/6/02 G9011.L.01.0063.00

with accurate approx. dimensions

TO DO: (1) post screen ditch line
(2) sample delivery at 5700 Coyle

Note: Excavated area at SS-10, Rodeo Grounds, is 10' south of SS-10, 10' East of SS-10, 30' West of SS-10, 30' N of SS-10, + total area is 40'x40'
See site sketch.

1700 DAVIS goes to field + ck's excavation

1715 DAVIS begins post screening at excavated cell that is 40'x40' at Rodeo Grounds. XRF readings are as follows:
Quad A: 73±42; <62 (ND); <58 (ND); 89±44; <44 (ND); <54 (ND); <60 (ND); <44 (ND); <51 (ND)

1742 Prescreening XRF Readings At former sidewalk/ditch to North in field of Rodeo Grounds Readings are: (#1) <46 (ND) GPS N 37.27376 W 95.56421; (#2) 62 (ND) GPS N 37.27374 W = 95.56400; (#3) 731±93; 768±97 GPS N = 37.27380 W 95.56326
Same location ±12" <47 (ND); (#4) <49 (ND) GPS N 37.27380 W 95.56264 ±6" 792±140

1/6/02 G9011.L.01.0063.00

1830 former sidewalk at Rodeo Grounds not to be excavated, 2 2 day job. Sidewalk is slag + concrete
* 4 trucks to haul clean dirt
* 1 gravel
* N Liberty to be backfilled + S 399 CR 5050 + Rodeo to be backfilled
* Barrier at 420 N Liberty
* measure former ~~stock~~ sidewalk + T's for slag pile areas

1832 DAVIS departs site for hotel
water truck to run tomorrow

Ingd Davis
1/6/02

1/7/02 G9011.L.01.0063.00

0700 DAVIS arrives on-site. OSC + is present. tasks for the day are listed on pg 33 + 34

0715 DAVIS sends time in + preps samples

0750 DAVIS calibrates Niton Readings on Medium standard are as follows: 894±99; 833±95; 898±97

0800 DAVIS goes to put barrier down at 420 N Liberty

4 Trucks hauling clean fill from borrow pit.

Soil is being put at 416 N Liberty + Magnum lot

0850 Water truck is not working properly, pump may be frozen

Black poly is placed over truck + put in the sun

heater is on the way

0900 DAVIS does site walk through.

Note: Weather is partly cloudy, 18°F winds ≈ 10-15mph from NW-W, high expected to be ≈ 40° F + winds to shift from the south later in day

1/7/02 G9011.L.01.0063.00

0938 Davis packages lab samples for shipment. Tracking # 82 9363 4 7114 4, pickup #13

1100 Davis arrives at 5399 CR 5050 to video tape post excavation, gravel has been placed in yard as backfill. Tape #3 0:5:15 - 0:6:02

1115 North lot at 638 W 1st St is being backfilled f. vacant lot of Front

1123 Rock was dumped at 536 Front

1142 Davis takes lunch

1230 Davis returns from lunch + goes by Borrow Pit + 638 W 1st North lot soils being pushed Front of 420 + 416 N Liberty is almost backfilled

1400 Davis works on monthly progress report. Water truck is working backfill activities begin at Areas vacant lot on W 1st St + 532 W 1st St

1445 Davis departs site for hotel because she's not feeling well, flu. IT begins backfilling 420 N Liberty in backyard.

End Day 1/7/02

1/8/02 G9011.L.01.0063.00

Davis is sick with the flu, stays at hotel.

IT + OSC present on site

Weather: high upper 40°F, wind S-10 mph S, SW.

- N. Liberty backyard backfilled
- lot at school + W 1st backfilled
- 638 W 1st North lot completely backfilled
- Majority of 532 W 1st St lot backfilled.

Areas of xtra soil

- magnum
- Toll's ditch
- Hale
- 569 W 1st ~~ditch line~~ (Toll)
- Valverde
- Lindquist

Rock Needed

- 400 N Liberty
- 420 N Liberty
- Lindquist 527
- 635 W 1st
- Quigley

NOTE: Emmert Trucking truck driver hit a vehicle yesterday on 169 Hwy. 2 people in car No visible injuries.

ED 1/8/02

1/9/02 G9011.L.01.0063.00

0700 DAVIS arrives on-site. IT + DSC present. (•) Excavation in residential yards are complete. (•) Rodeo Grounds is be backfilled at 40' x 40' and the old former sidewalk will be excavated today (at least started today)

(•) N Liberty is completed

(•) 1638 W 1st will be touched up and 532 W 1st will be backfilled at touched up

(•) hydroseeders will arrive tomorrow

Weather: ≈30°F, high ≈46°F, winds 5-15 mph from S-SW

0830 DAVIS e-mails + updates monthly National Zinc report.

0850 DAVIS does site drive through 532 W 1st 90% done, extra soil added at 530 Front + being smoothed out 40' x 40' area At Rodeo Grounds being backfilled.

1000 DAVIS calculates area of former sidewalk at Rodeo grounds from aerial. See site sketch

E to W = ≈ 950' 50' + 50' = 100

N to S = 100'

1/9/02 G9011.L.01.0063.00

1145 530 Front St is completely backfilled. Soil has been added to ~~509~~ 510 Magnum, Hales, Valverde + Lundquist and is being at to 509 NOW, also Tolls ditch line

DAVIS draws site sketch

1430 DAVIS takes readings on Medium Standard with Niton #53 XRF readings are as follows:

919 ± 100

828 ± 57

922 ± 110

1540 Rock pile at 536 Front St, needs to be spread + being spread at 532 W 1st St

* ditch line at 532 W 1st needs to be excavated and reshaped

1600 509 Front St extra soil has been added + spread

* soil pile at Hale's needs to be distributed

* soil is being distributed at ~~509~~ Tolls ditch.

* soil needs to be spread at Magnum lot

- No trucks running tomorrow

- Rock truck to run on Friday

1/9/02 G9011.L.01.0063.00

1700 DAVIS screened pre & post Rodeo Grounds; pre + post screening, see site sketch field sheet & attachments

1701 DAVIS arrives at Rodeo Grounds to post screen additional excavated areas, see site sketch field sheet and attachments

NOTE: hydroseeders are now arriving on ~~SAT~~ ~~instead of~~ Friday instead of Thur

Rock will arrive tomorrow ~~instead~~ instead of Friday, No trucks tomorrow

Rodeo Grounds = 134.6 acres / 152 cells

~~task for tomorrow:~~

* purchase tall stakes at Orsons
* survey Rodeo Grounds + screen
* trees in borrow area burn them or put in wind
* trim roots from yards
* remove flags
* remove broken bricks
* fill in old H2O meter

} putting in gravel & distribution line maintenance

AMN: video tape ON MONDAY

Don Lunger spoke with EPA re: excavation at Rodeo Grounds and has received the okay to excavate the property SDO 1/7/01

1815 DAVIS departs site & hotel

1/10/02 G9011.L.01.0063.00

0700 DAVIS arrives on site IT + OSC present. IT to perform maintenance tasks: move trees in borrow pit area; trim roots from yards; remove flags; remove broken bricks from yards; fill in old water meter on N. Liberty; add + spread gravel; ditch line maintenance; wash down roads.

- Both large excavators + 1 small excavator to leave site today.

→ IT crew to demobilize on Friday morning

→ OSC to leave/demob site today and will return Friday. DAN Morris is available to survey site on Friday. If not, OSC to return Monday morning

→ DAVIS to work on Friday and demob on Saturday and return on Monday morning

WEATHER: approximately 35°F, cloudy, high expected to be in mid to low 50's °F and winds from N S-15mph

0750 DAVIS will begin to survey and flag/stake Rodeo Grounds today. Cells will be 100' x 100'. Each stake

1/10/02 G9011.L.0003.00

will have a GPS coordinate and will also be measured with the measuring wheel. Davis to stop by County courthouse and hardware store in Independence for supplies to Quadrant out Rodeo Grounds.

NOTE: Equipment to arrive on Tuesday 1/15/02.

0830 Davis makes list of supplies needed for N7 site.

Davis speaks with Jon Mendoza re Cost summary. Cost is emailed to Davis ** As of Dec 30th, the total project cost is $42,161.83.

*Davis speaks with Angela at TT and increases the lab ~~cost~~ID sample number to a total of 50 samples. (sample # increased by 20)

0930 Davis finds a hardware/lumber company to make 4' stakes in Coffeyville, KS. 0.75¢/ea, total of 76 stakes for total cost of $57.00

1020 Davis faxes supply list to Lynn Rosamond.

1040 Davis does site drive through

1/16/02 G9011.L.0063.00

- TT spread gravel at 610 Front (Wagner lot) + 536 Front. Soil being spread at 638 W 1st North lot + ditch line at 537 W 1st St has been excavated and restored
- gravel to be spread at 515 W 1st

1050 Davis departs site for S. Coffeyville to pickup wood stakes for marking quadrants at Rodeo Grounds

1200 Davis returns to site

- soil pile at 537 needs to be distributed
- more soil to be distributed at 638 W 1st, N
- soil at Magnum lot " "

1228 Rock has been dumped at 635 W 1st + Rodeo Grounds

1230 Davis begins to Quadrant of the NW corner, going to SE corner of Rodeo Grounds.

cells are 100'x100'

1610 6 cells (100'x100') from NW corner to SW, along fence. cells end at west entrance into Rodeo Grounds

10 cells (11 from NW corner, including 1 of the 6) going from NW corner to SW corner

1730 Davis + Bill (TT Response Manager) do site drive through - see next page

1/10/02 G9011.1.01.0063.00

- Rock at 400 N Liberty to be used for sidewalks in rear of house
- soil piles at Magnum lot + C32 W 1st are covered and to be used as needed for lowspots
- Shed repaired but not moved (uncertain of how it sat and need to speak with Hale)
- Barron pit covered and entrance blocked
- Roads sprayed and cleaned
- gravel + soil added and spread at 635 W 1st
- dirt pile distributed at 638 W 1st North lot
- Tollis ditch line done
- Rock pushed at 530 Front
- ditch lines touched up w/ soil
- Equipment decorated
- Rock to be raked on Wed.
- hydroseeders to come on Wed.

1750 DAVIS speaks with OSC and updates him on site status. IT departs site until Tues/Wed of next week. DAVIS will work tomorrow and remain on Mon. ~~DAVIS departs site at 1800~~ 1/10/02

1/11/02 G9011.01.0063.00

0700 DAVIS arrives at Walmart to purchase field supplies

weather: partly cloudy, 28°F, high expected to be ≈50°F, SW winds 5-10 mph

0815 DAVIS arrives at county building to purchase 2 aerial photographs + a plat book

0900 DAVIS departs county bldg. with 2 aerials. county does not have plat bk but real estate company does.

0904 DAVIS arrives at real estate co. + purchases plat book

0945 DAVIS arrives on site and is staking 100'x100' QUAD's and pre-screens cells

NOTE: IT + OSC NOT present

1140 DAVIS adds row of 5 additional 100'x100' cells from N to SW (1 row from NW corner)

1245 DAVIS goes to lunch

1315 DAVIS returns from lunch and stakes cells going NW to SE and begins to pre screen cells + site sketch

1508 DAVIS calibrates Niton for in situ Reading at Rodeo Grounds (RG). Readings on medium standard are: 893-97; 890-94; 903-98/see next logbook/Log Book # 5 1/11/02

EXCAVATED Quadrants ↑400ppm
NEEDING BARRIER

Address	QUAD/CELL
509 W 1st ST	C
635 W 1st ST	C, D
606 W 1st ST	A, B
416 N Liberty	B (by porch towards fence)
420 N Liberty	C (NOT pool)

QUADRANTS BEYOND 50' FROM HOUSE
~~NEEDING~~ ↑400ppm

Address	QUAD
638 W 1st ST	1, 3, 4, 5, 6
Arias vacant lot	1, 2
635 W 1st ST	1
606 W 1st ST	2, 3, 5, 6, 7

Photo Log

Frame #	DATE	TIME	direction description
109	1.3.02	1450	NE - Borrow pit - looking at stockpile area
108	1.3.02	1452	SE - looking at stockpile area
107	1.3.02	1453	NW - looking at stockpile area

NOTE: Photos previously download #1-16
photos currently being downloaded
#17, 18, 19, 20, 21, 22, 23, 24 - all done 1.4.02

Note: photo # 18 skipped + 22 skipped

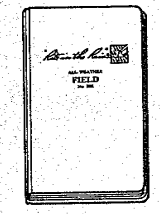
SAMPLE LOG

Sample #	Date	Time	location description
NZ-019 (post)	12.12.01	1650	635 W 1st C
NZ-020 (post)	12.12.01	1620	635 W 1st A
NZ-021 (post)	12.12.01	14:50	638 W 1st 3
NZ-022 (post)	12.13.01	11:40	638 W 1st 7
NZ-023	12.13.01	11:50	638 W 1st B
NZ-010 (post)	11/28/01	1048	617 Front D
NZ-011 (post)	11/28/01	1148	609 Front 7
NZ-012 (post)	12/3/01	948	505 Front B
NZ-013 (post)	12/4/01	1224	532 W 1st 1
NZ-014 (post)	12/4/01	1645	500 W 1st A
NZ-015 (post)	12/4/01	1655	500 W 1st B
NZ-016 (post)	12/5/01	1200	506 W 1st A
NZ-017 (post)	12/7/01	816	514 W 1st C
NZ-018 (post)	12/7/01	1300	~~514 W 1st~~ 527 W 1st D
NZ-024	1/5/02	1230	399 CR 050 A
NZ-025	1/5/02	1220	420 N Liberty A

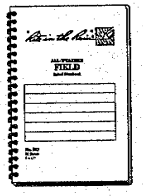
NOTE: LAB SAMPLES increased from a total of 30 to 50 samples as of 1/12/02 (increase of 20 samples, 25 to submit)

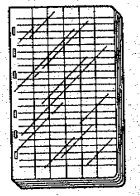
"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

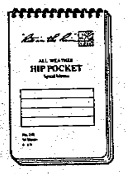
Outdoor writing products . . .
. . . for outdoor writing people.

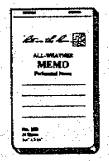

BOUND BOOKS

NOTEBOOKS

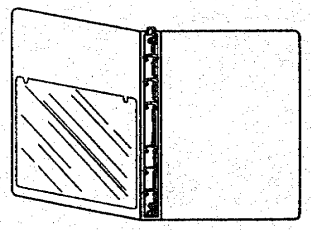

SPIRAL NOTEBOOKS

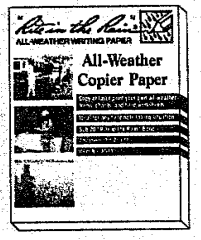

LOOSE LEAF SHEETS


SPIRALS

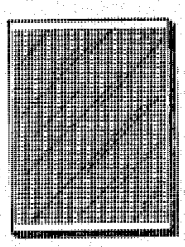

MEMO BOOKS

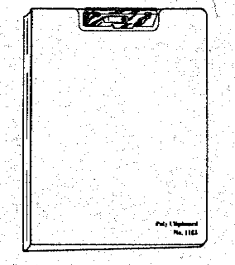
ALL-WEATHER PEN


RING BINDERS



COPIER PAPERS


GRID SHEETS


POLY-CLIPBOARDS

Field data . . .if its worth collecting, its worth protecting.

"Rite in the Rain"®

ALL-WEATHER WRITING PAPER

HORIZONTAL LINE

All-Weather Notebook

No. 391

Rodeo Grounds

LOG BOOK #5 OF 7 (some data in BE4)

NATIONAL ZINC SITE

CHERRYVALE, KS

MONTGOMERY COUNTY, KS.

PROJECT # G9011.L.01.0063.00

4 5/8" x 7" - 48 Numbered Pages

COPY

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Elements	KOHERSK LEVEL
CD	39 mg/kg
Mercury	2 mg/kg
Arsenic	11 mg/kg
Lead	400 mg/kg
Zinc	≥ 3,000 mg/kg

Name Tetra Tech x ~~Angela~~ JAN 3952 3922

Address 8030 Flint ST
Lenexa, KS 66214

Phone FAX (913) 894-6295
(new lab tech @ TT - Jeff odEN)

Project SEAGULL FedEx acct # 216551842
11905 Gillette ST
OP, KS 66213-2379

Yellow Polyethylene Protective Slipcovers (Item #31) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE
	NZ SITE:	
	604 N. Liberty ST	
	Chenyvale, KS 67335	
	EPA #'s ⇒ (O) 620.336.8954	
	(F) 620.336.8956	
	IT #'s → (O) 620.336.8952	
	STAT ANALYSIS LAB:	
	2201 W. Campbell ST	
	PARK Drive, STE 315	
	Chicago, IL 60612	
	# 312.733.6551	
	Contact: BRETT Nicholas	
	MICROTEL:	
	2917 W. Main ST	
	Independence, KS 67301	
	# 620.331.0088	
	FEDEX ACCOUNT #:	
	1299 33895	

ENTRIES CONTINUED FROM LOG BOOK #4

1/11/02 G9011.L.01.0063.00

1530 DAVIS takes in situ Readings if IN SITU Readings above 400ppm will be sampled, 9 aliquots per cell, and each sample will be screened 3x with NITON. See site sketch field sheet - NA - See this log bk

1540 IN SITU pre screening XRF Readings are as follows:

Quad 11: 124±40; 144±50; 247±64; 345±61;

~~Quad 10:~~ 129±36; 268±58; 115±31; 236±49; 179±45

Quad 10: 92±38; 194±49; 198±55; 208±44; 143±46

~~Quad 13:~~ 313±69; 211±57; 295±57; 210±65

Quad 13: 229±48; 154±53; 274±48; 130±38

169±38; 164±49; 145±48; 176±50; 126±36

Quad 12: 195±46; 164±48; 88±33; 147±38;

114±34; 99±51; 102±42; 124±37; 121±42

1710 DAVIS secures electric fence at RG and checks command post bldg.

DAVIS departs site for hotel + will remob on Monday morning, as well as OSC.

Note: ON 1/10/01 OSC states to Davis that KDHE did NOT give clean letter for city on Rodeo Ground property. Also, Resident on W 3rd said his yard maybe contaminated. DAVIS spoke with OSC Re this. WAS told to it

JO 1/11/02

1/15/02 G9011.L.01.0063.00

1200 DAVIS departs KC for office to pickup supplies and goes to site

1400 Prescreening XRF Readings, 9 locations

Quad 9: 103±37; 325±73; 406±82

NW corner; 299±62; 297±54; 197±46

228±60; 240±48; 269±52

Quad 8: 293±67; 199±48; 203±59;

287±51; 214±75; 254±47;

341±49; 431±65 (CENTER); 458±65; (SW)

321±62

QUAD 7: 247±55; 360±61; 307±52;

465±72; 298±47; 909±84 CE;

526±71; 630±91 (SW); 183±50

QUAD 6: 235±52; 600±67; 311±55;

484±66; 342±71; 793±85; 156±54;

240±66

QUAD 5: 225±52; 356±67; 430±75;

355±77; 193±52; 460±66 (CE); 1220±120

center; 235±51

NOTE: ALL cells are temporary until surveyed by DAN Harris with EPA.

∴ Quad 9, 8, 7, 6, 5 are 9T, 8T, 7T, 6T as well as cells screened on 1/11/02

1715 DAVIS departs site for Hotel

parameter to be screened.

JO 1/1

1/16/02 G9011.L.01.0063.00

0700 Davis stops at Walmart to purchase paint for the site steaks.
0730 Davis arrives on-site. IT + OSC present. Note all cells are (T)
Note: OSC Don Lininger stakes out 9 additional cells #'s 22-30 (T). Davis shows IT crew where to excavate cells # 9, 8, 7, 6, 5 (T)
0830 Davis calibrates Niton and begins screening cells 4, 3, 2, 1
0845 XRF pre screening readings on cells # 4 (T) are: 254 ± 73; 345 ± 90; 814 ± 81; 522 ± 87; 267 ± 52; 338 ± 67; 640 ± 71; 470 ± 62 (avg)
Note: Davis calibrates Niton XRF
Weather: ± 48°F, 5 mnds 5-15 mph, temp to be high of 40°F, Chance of rain
Quad 3 (T): 753 ± 85 (SW); 540 ± 60; 118 ± 47; 106 ± 42; 794 ± 81 (center); 434 ± 70; 838 ± 76 (SE); 276 ± 60; 704 ± 99
Quad 2 (T): 438 ± 67; 1050 ± 110 (CW); 444 ± 85; 444 ± 52; 1710 ± 168 (c); 100 ± 54; 175 ± 57; 622 ± 100 (NE); 1668 ± 172 (slag?)
Quad # 1 (T): 382 ± 83; 265 ± 63; <64 (ND); 238 ± 58; 405 ± 65; 717 ± 93 (SE); 511 ± 68; 290 ± 79; 313 ± 62

1/16/02 G9011.L.01.0063.00

Note: 2 Excavators (large) are on site w/ (1) dump truck (large) + 1 bulldozer + (1) small loader. IT begins excavating cell # 9 (T)
1000 Davis begins to screen + mark cells # 22-30 (T). XRF Readings are:
Quad 31 (T): 546 ± 94 (SW); 383 ± 60; 427 ± 74; 132 ± 48; 1570 ± 150 (by slag/gravel); 339 ± 61; 546 ± 72; 402 ± 84; 680 ± 110
Quad 33 (T): 1370 ± 110 (SW); 335 ± 73; 479 ± 94; 615 ± 84; 485 ± 100; 804 ± 96; 197 ± 58; 297 ± 83
Quad 32 (T): 2230 ± 140 (SE); 625 ± 98; 221 ± 65; 579 ± 93; 1370 ± 130; 744 ± 87; 448 ± 79; 391 ± 60; 743 ± 95
Quad 30 (T): 615 ± 94; 381 ± 60; 478 ± 69; 462 ± 75; 571 ± 69; 399 ± 72; 278 ± 80; 1250 ± 110 (SW); 424 ± 110; 2680 ± 190 (c)
Quad 29 (T): 649 ± 96; 509 ± 62; 439 ± 72; 1240 ± 93 (NC); 514 ± 80; 287 ± 57; 576 ± 93; 605 ± 78; 965 ± 99 (c)
1200 Davis breaks for lunch
1245 Davis returns from lunch + calibrates Niton. XRF Readings continue to be taken at RG, 9 readings per quad.
Note: hydroseeding crew is present

1/16/02 G9011.L.01.0063.00

Cell 28 (T): 322 ± 80; 947 ± 81; 490 ± 86; 684 ± 100; 613 ± 74; 838 ± 88; 632 ± 63; 927 ± 94; 882 ± 95

Cell 27 (T): 261 ± 60; 376 ± 59; 349 ± 58; 648 ± 97; 1140 ± 95 (c); 838 ± 88; 689 ± 74; 696 ± 88; 451 ± 65

Cell 26 (T): 470 ± 79; 652 ± 87; 434 ± 66; 434 ± 60; 459 ± 69; 483 ± 69; 718 ± 82; 496 ± 71; 510 ± 78

Cell 25 (T): 734 ± 84; 330 ± 56; 310 ± 54; 648 ± 97; 344 ± 59; 222 ± 38; 470 ± 64; 430 ± 66; 199 ± 52

NOTE: Davis phones Lynn Parman re: rental of a laser survey for squaring up quads. Don Lunger, OSC, wants to rent one & is gathering info to do so. Davis will expense item

Cell 24 (T): 616 ± 83; 425 ± 67; 510 ± 81; 326 ± 49; 449 ± 61; 503 ± 87; 353 ± 55; 385 ± 67; 161 ± 61

Cell 23 (T): 953 ± 45; 358 ± 70; 248 ± 58; 67 ± 34; 280 ± 52; 204 ± 43; 151 ± 58; 220 ± 49; 376 ± 48

Cell 22 (T): 195 ± 45; 122 ± 38; 158 ± 60; 211 ± 41; 231 ± 49; 168 ± 27; 210 ± 50; 111 ± 47; 151 ± 54; 160 ± 58

1/16/02 G9011.L.01.0063.00

1530 Davis begins prescreening 3rd row from N fence, cells 34-44 (T). RT readings are as follows: Also, quad 14 + 15 [illegible]

Quad 14 (T): 214 ± 48; 154 ± 39; 102 ± 50; 221 ± 51; 160 ± 44; 185 ± 36; 113 ± 36; 88 ± 26; 151 ± 42

Quad 15 (T): 92 ± 34; 156 ± 47; 72 ± 37; 100 ± 40; 58 ± 30; 81 ± 34; 128 ± 43; 118 ± 39; 124 ± 39;

Quad 34 (T): 105 ± 38; 149 ± 41; 134 ± 39; 259 ± 59; 285 ± 51; 223 ± 41; 414 ± 64; 204 ± 50; 272 ± 61

Quad 35 (T): 265 ± 51; 326 ± 50; 109 ± 37; 329 ± 52; 167 ± 40; 454 ± 60 (SE); 444 ± 65; 239 ± 55; 167 ± 50

NOTE: 2nd dump truck arrives on site. OSC states that laser survey is not available in Independence

Quad 36 (T) > TO BE SCREENED on 1/17/02

1650 Davis marks several Quads/cells and does site drive through. Hydroseeders grated North lot at 638 W 1st St, Magnum lot and 532 W 1st St. IT excavated Quads 9, 8, and ½ of 7 (T). Crew will begin on 7 on 1/17/02.

1/16/02 G9011.L01.0063.00

1705 post screening XRF readings are as follows for the following cells:
Cell #9(T) 61 ± 23; <64(ND); <62(ND); <59(ND); <70(ND); <57(ND); <49(ND); <54(ND); <60(ND)
Cell #8(T): 67 ± 37; <62(ND); 73 ± 44; <55(ND); 66 ± 35; <51(ND); <52(ND); 58 ± 37; 72 ± 39
1730 2 trucks (dump) to arrive late tomorrow.
DAVIS to ~~excavate~~ screen Quad's 36-44 or 45 tomorrow
1750 DAVIS departs site for hotel

1/16/02

1/17/02 G9011.L01.0063.00

0700 DAVIS arrives on site w/ OSC present. IT crew to continue excavation at Rodeo Grounds. And DAVIS to continue screening as stated on previous page. Analytical results received via fax for samples 24 + 25.
Weather: snowing, ≈ 33°F, high expected to be ≈ 38°F
Note: DON Hamora + Dan Harris to come to NZ site next week
DAVIS mentions having an extra START person to take 200+ calls to OSC but OSC states that he + Hamora will take calls.
Air results for NZ are also faxed to DAVIS from IT.
** Analytical results + NITON data correlation factor is 0.92989 or 93% thru sample 25 as of 1/17/02.
** Analytical cost ~~to date~~ ONC $1,170.00 as of 12/30.
Cost per analysis is $60.00 (morning is $30)
total ~~cost~~ budget ~~18,000.00~~ $1,800.00 ($630.00)
remaining ≈ 105 samples

1/17/02 G9011.6.01.0063.00

0730 Davis calculates status of analytical cost + info for Kennard for pre-ID HES info

0940 Analytical Cost to date is $1290.00. $510.00 dollars remaining in initial budget which is 8.5 samples

0959 Davis shoots standard (Medium) with Niton. XRF readings are as follows: 857 ± 93; 732 ± 86; 941 ± 98. Davis speaks with Kennard re: HES

1027 Davis collects 9 aliquot per cell in pie pan for prescreening samples will be allowed to dry b/c snow cells to be sampled #36-44 (T)

1240 Davis completes collection of 9 aliquot samples from cells 36-45 (T) and will allow samples to dry prior to pre-screening with Niton. Also, sample collected from cell 7 (T) - post screening

1300 Davis updates field sheet info

1350 Davis homogenizes

1/17/02 G9011.6.01.0063.00

soil samples and allows to dry

1450 IT is excavating cell #6 (T) + 24 (T)

NOTE: ON cistern is located in cell #7 (T) 2 cisterns in cell #24 (T) and 1 cistern in cell #6 (T)

1515 Davis breaks for lunch

1530 Davis returns from lunch and drives boundries of 360-acre lot to site background sample locations for HES

Note: hydroseeders are here graded 3 houses on North Liberty - 400, 420 + 416 some damage to pool area was caused by grader. hydroseeders to come back Wed. of next week to seed SOP, vacant lots + part of Wales.

** private water line has been installed north of Marion St ∴ gravel will be brought in tomorrow to the temporary Road to ~~Start~~ ID Repository.

** 2 Extra IT guys to arrive tomorrow

1/17/02 G9011.C.0100630.00

IT to move rock & run trucks 2 that ARE to arrive now on SATURDAY

1640 DAVIS begins to screen samples #36-45 (T)

1644 DAVIS pre screens sample (9 aliquot) for cells to follow. XRF (X3) readings are:

37 (T): 688 ± 76; 681 ± 73; 651 ± 72

39 (T): 762 ± 79; 706 ± 76; 822 ± 81

40 (T): 822 ± 81; 837 ± 81; 866 ± 83

36 (T): 464 ± 61; 469 ± 60; 481 ± 63

38 (T): 598 ± 69; 596 ± 71; 588 ± 72

41 (T): 1060 ± 92; 1060 ± 96; 988 ± 87

42 (T): 1330 ± 110; 1410 ± 110; 1260 ± 110

43 (T): 1510 ± 120; 1390 ± 110; 1530 ± 120

44 (T): 1460 ± 110; 1410 ± 110; 1270 ± 110

45 (T): 1270 ± 110; 1240 ± 110; 1150 ± 100

7 (T) ± ID

post screening Niton Readings are as follows for 7 (T):

7 (T): < 45 (ND); < 45 (ND); < 45 (ND)

NOTE! IT began excavating cell #25 (T) and is 3/4 done with cell #6 (T) Cell #24 (X) is excavated

1830 DAVIS Departs site

1/18/02 G9011.C.0063.00

0700 Davis arrives on-site and does site drive through IT and OSO present

Weather: foggy, partly cloudy, & 22°F, high expected to be 37°F chance of precipitation late in day

Tasks: (1) sample CELL # 24 (T), #6 (T) for post-screening (TASK: 3x Niton Reading)

(2) collect sample to be submitted to lab from clean cell # 15 (T)

(3) submitt 2 samples from pre-screened cells - 15 (T), 43 (T), 38 (T)

0725 Davis preps samples for laboratory + field sheets, etc

Note: All Rodeo Ground Samples to have RG denoted with sample # to identify it with the Rodeo Grounds (RG).

0847 Ed Sturgis + Terry Ransome arrive with IT, Terry will be using the bulldozer at ~~Bonanza~~ ~~for~~ Repository & Ed will spread rock at 400 N Liberty with the loader

1/18/02 G9011.L.01.0063.00

0902 Davis drives by 420 N. Liberty to see damage to pool by hydroseeders

0930 Davis calibrates Niton

0932 Davis goes to RL to pull samples from 15(T) for lab sample + excavated cells 24(T) + 6(T) for post screening.

Note: · damage to pool is not significant small section of edging is slightly above ground

· One large dump truck is down due to bad battery

· 2 more large dump trucks to arrive at Noon today.

· Rock is being spread + dumped at new temporary road to Repository

· Rock to be added to 420 N Liberty + is being spread at 400 N Liberty.

1030 Davis completes collecting samples and homogenizes them + will screen 3x each with Niton

1034 Davis shoots Medium standard with Niton Readings are as follows

1/18/02 G9011.L.01.0063.00

732 ± 88; 781 ± 90; 785 ± 86

1010 XRF reading/prescreening for ~~Cs~~: ~~15(T): 212 ± 46; 200 ± 44; 224 ± 44~~ see below

1020 XRF readings, postscreening, for RL sample 24(T) are: 64 ± 17; 53 ± 16; < 44 (ND)

1030 XRF Readings, post screening are as follows for:

6(T): < 55 ± 34 (ND); 68 ± 35; < 48 (ND)

1050 Cell #5(T) is being excavated + cell 5(T) should be completed by today + 26(T) should be started today

15(T): 96 ± 35; 76.6 ± 35; 78 ± 36

1105 Davis puts samples from yesterday into baggies for possible use later - analytical and packages samples for drop off in KC and unloads vehicle to switch out in KC for suburban

Davis leaves Niton with Timmons

Note: 3 trucks are currently down and one excavator is stockpiling while the other digs at lands (trucks have flat tires)

1/18/02 G904.L.01.00639

1200 DAVIS speaks with Lunger re: site + equipment. DAVIS to deliver samples in KC.
Note: Bill Crawford with City stops by office re: letter from Real Estate development company, Sea Corp, and asked if OSC received letter. DAVIS discusses with OSC
1245 DAVIS departs site for hotel to check out
1330 DAVIS departs for KC.
Note: DAVIS spoke with Don Lunger re: purchasing fantasy stemwares for Nitton. OSC gives approval to order. Davis orders standards, to be delivered to hotel on Monday
1645 DAVIS delivers samples to Fedex
1800 DAVIS done for day. DAVIS to KC

1/18/02

1/22/02 G904.L.01.00639

0830 Davis departs KC for NZ site
Weather: partly cloudy, high 60°F, Winds from S/SW @ 5-20 mph
1115 DAVIS arrives on site. OSC present + Rusty, the accountant for IT is present. One truck still needs a flat tire changed and mechanical work on another.
1130 Hydroseeders are present and raking some yards and are seeding North lot at 638 W 1st ST
Davis speaks with OSC. and ~~to~~ DAN HARRIS + DON Hamer a arrive on-site.
1143 Davis departs site for hotel to pick up Nitton standards and shows DAN H. + DON H hotel.
1230 DAN H. + DON H. break for lunch. Davis calibrates Nitton and charges video camera on-site
1300 DAN H. + DON H on-site
1330 Mechanic, IT, on-site
Rusty departs site for Walmart to purchase oil for trucks (Volvo)

1/22/02 G9011.L.01.0063.00

Davis takes readings on Niton Standards. Readings are as follows: High: 4290± 230; 4080±230; 4330± 240 Medium: 761± 82; 710± 85; 956± 97 Low: <55(ND); <46(ND); <94(ND) Niton certified values are as follows: high = 5,532 ± 80; medium = 1162 ± 31; low = 16.9 ± 2.5 Blank = <34(ND); <32(ND); <32(ND)

1400 Davis preps to video, post-excavation, properties that have been completed #35. Davis begins with 512, 520, 524, 530 and 546 Front ST + 511 Martin + 610 Front + 1100 PW, video tape #4, 0:00:00 - 1536

1430 Hydro seeders touched up 635 W 1st and did vacant lot on W 1st + School ST + 400 N Liberty (hit house + front steps with spray)

1530 hydroseeders began seeding 507 W 1st ST. Davis video tapes 614, 618, 620, 634, 621 + 617 Front ST. + 629 Martin, Magnum lot, temporary road to Repository from RG, Rodeo Grounds, North lot at 638 W 1st (on Front ST) + 609 Front ST (Wagner lot)

1/22/02 G9011.L.01.0063.00

NOTE: Tire for one volvo truck is to be repaired tomorrow morning. hydroseeders had problem with hose - problem fixed. OSC + DAN H. + DON H. still surveying RG.

1630 Davis video tapes Hale property on Front ST / 505 + 513 Front ST

Note: hydroseeders seed the NE corner of 532 W 1st ST, ditch line at 635 W 1st, ditch line at 515 W 1st ST, + ditch line + 509 W 1st.

1650 Davis video tapes post excavation 500 + 506 W 1st, 514 W 1st, NE corner of 532 W 1st, 509 W 1st

1730 Davis departs site for hotel

EPA shot boundries to RG and utilities, including poles, gas, KDHE wells, fire hydrants. Site map to be done tomorrow. Grids to be laid out tomorrow. Temporary cells to be squared out and replaced with new, accurate-surveyed cells 100' x 100'.

Davis to finish video taping properties tomorrow and will go to Walmart to purchase tape tonight. 1-22-02

1/23/02 G9011.L.01.0063.00

0700 DAVIS arrives on site. OSC present + IT present.
2 excavators to finish cells # 5(T) + 2S(T) and then one excavator to move to cell #4(T) and one to cell 3S(T). Bulldozer will lay gravel road to Repository. 3 VOLVO trucks to run, one tire on 4th truck to be repaired this morning. Hydroseeders to arrive today and complete yards. IT Response manager to arrive at 12:00pm.
Weather: partly cloudy, ≈47°F, high expected to be ≈58°F, winds 10-20 mph from S/SW, shifting to N later in day
0710 DAVIS and OSC discuss Niton standard readings and deviation. All readings that are in 300's ppm and low 400 ppm will be sent in to lab for overnight analysis. Excavation to be based on lab data for reading b/n 300-400ppm.
NOTE: DAVIS to start a spreadsheet with pre-screening #'s and post screening #'s to be regularly sent to DAN H with

1/23/02 G9011.L.01.0063.00

EPA.
NOTE: DAN Harris + DON H. on-site
0730 DAVIS prints out info and enters 3 latest lab samples into correlation spreadsheet.
0740 DAVIS does site drive through dozer is regrading road to cells
NOTE: acreage for RG 34.715 surveyed by DAN Harris. New cells to lay out and replace old Jump-cells
0800 DAVIS enters + develops site spreadsheet. Averages to be used - ck with OSC
0930 drive through of site. ISSUES:
- Rock at 420 N Liberty
- shed at Hale's
- Rake tire tracks by shed at Hale's
- soil in ditch line at N. lot of Wagner's 609 Front + by gas meter

0937 DAVIS goes to RG to pull samples from cells 5(T) + 2S(T)
NOTE: tire being repaired on Volvo truck - actually replaced last night but air is being added. ONE IT crew member at doctor. to return at 11am

1/23/02 G9011.L.01.0063.00

NOTE: hydroseeders ~~to~~ arrive on-site
Davis confirms areas to be sprayed with hydroseeders. 2 trucks currently running. Davis calibrates Niton
1006 3rd & 4th trucks now running. Davis speaks with Brett at STAT analysis regarding lab cost for lead, only, analysis. One day (24 hrs) turnaround is $36/ea + 24-48 hr turnaround is $27/ea
NOTE: sample S(T) collected at 0945 and sample 2S(T) collected at 1000 cistern located in cell S(T)
hydroseeders start on 420 N Liberty also, small excavated area at 404 N Liberty has been hydroseeded
1030 Rusty, with IT, returns to site with IT team member → 3-4 trucks to now run excavated soil. Davis makes copies
1100 Davis makes copies for Kurnod w/ TetraTech + HRS scoring package. To Fed ex. EPA staking out RG-TTR of 157 cells
1130 Davis does site drive through: hydroseeders have completed 420, 416 N. Liberty, are currently on Magnum Lot, and have done ditch line of 60's Front + part of Hales

1/23/02 G9011.L.01.0063.00

1200 IT crew, 4 members take lunch
1215 Davis goes to post office to pick up Fedex forms. Not available
1240 Davis calls in FedEx pickup - 5 hr window. pickup #22. Will bring envelopes. Davis packages shipment
1310 Niton standard readings are as follows:
High: 4220 ± 240; 4080 ± 230; ~~3860 ± 220~~ 4060 ± 230
Medium: 805 ± 91; 894 ± 95; 838 ± 94
Low: <56 (ND); <54 (ND); <46 (ND)
Blank: <33 (ND); <34 (ND); <30 (ND)
Davis enters in new cell #5 into spreadsheet for pre + post screening + trucking / ~~Hydroseeders depart site~~
1400 Davis screens samples S(T) and 2S(T) with Niton. Samples are collected from 9 aliquots / cell and screened 3x with Niton XRF
Readings are as follows: POST-SCRN:
S(T): 66 ± 40; <54 (ND); 72 ± 39 (time 0945)
2S(T): <47 (ND); <51 (ND); <47 (ND) (time 1000)
1410 Davis goes + gives info to OSC + departs hotel for supplies for OSC

1/23/02 G9011.L.0063.00

Note: cell 9(T) + 8(T) or 3+4 are being excavated further south b/c of re-gridding/surveying. (exact 10' x 100')

1510 Davis returns to site

Weather: Raining, ≈ 40°F, cloudy

Hydroseeders have completed: Tolls ditch, Hale's, N. Liberty, 532 W 1st, Magnum 606 W 1st (Wagoner)

not done: Valverde's, Lindquist

1520 OSC Survey crew, DAN H + DON H not present due to rain.

1533 Davis does site drive through and checks progress at RG.

Hydroseeders depart site

1550 ONE Excavator ½ way through cell #30 {or 36(T)} + 2nd Excavator on cell 3(T) or 9

Note: surveyors (EPA) started 4th row and did not complete cells 40-43 due to rain (in 4th row)

Davis pulls survey flags from West + North fence lines.

1620 Davis collects samples from cell #T-35 or #29 and from #T-4 or #8

Note: old sewer or H2O piping in cell 30 (or 36T)

1/23/02 G9011.L.01.0063.00

NOTE: Davis waits to collect sample from cell #4(T) or cell #8 because southern edge of cell is not completely excavated

1715 Davis allows sample #29 to dry prior to taking XRF readings.

1730 Huck, IT, to begin excavating cell #19 or 26(T) after completing cell #9 or 3(T) and will scrape southern edge of cells 7-9 (or 5T-3T)

1745 Davis departs site for hotel

TASKS: (1) video tape W 1st ST + N. Liberty

(2) screen (pre) RG cells 44-53

(3) average pre + post screening values + enter into spreadsheet

Ted Davis
1/23/02

1/24/02 G9011.L.01.0063.00

0700 DAVIS arrives on-site, 1T + OSC present. Excavators to finish cells # 30 + 9 (or 36(T) + 3(T)) and then to move to 19 and 31.

Weather: ≈ 30°F, cloudy + wind: S-15 mph from S/SW. high expected to be ≈ 40°F.

DAVIS calibrates Niton and shots standards with Niton. Readings are as follows.

High: 4510 ± 250; 4280 ± 240; 3820 ± 220
Medium: 900 ± 95; 908 ± 97; 912 ± 95
Low: <54(ND); <56(ND); <56(ND)

0800 DAVIS prescreens sample collected from RG at cell # 29 or 35(T). sample time is 1615 on 1/23/02

Readings are as follows:
#29 => <50(ND); <66(ND); <54(ND)

0830 DAVIS enters in and averages in situ prescreening Niton reading to date + post screening readings to date. Averages are calculated and entered into spreadsheet to be used as tracking form and also for Dan Harris to enter info on large scale map

1/24/02 G9011.L.01.0063.00

0950 DAVIS goes to RG to collect samples for prescreening.

Note: 1T excavating cell (#31(37T)), cell #30(36T) has been excavated.

DAVIS collects sample from #38

1035 sample collected from #30(36T) post excavation

1055 DAVIS collects samples for prescreening, beginning with cell #40. 9-12 aliquots collected per cell

1305 DAVIS completes sampling of cells #40-#53. DAVIS will allow samples to dry more and then screen 3X each with Niton.

1330 DAVIS takes lunch

1400 DAVIS returns from lunch.

Analytical results from samples NZ-38 RG(T); NZ-43(RG(T); NZ-15 RG (T) have been faxed to command post. DAVIS enters info into data correlation spreadsheet.

1445 DAVIS screen previously collected samples with Niton (see above) XRF Readings are as follows: times are from sample collection. 1st reading post sec

1035 #30: 59 ± 32; 76 ± 38; 68 ± 38

1/24/02 All present G9011.L.01.0063.00

#40 @ 10:55: 278 ± 48; 208 ± 44; 236 ± 46
#41 @ 11:05: 138 ± 39; 164 ± 40; 170 ± 41
#42 @ 11:15: 361 ± 53; 308 ± 51; 365 ± 53
#43 @ 1120: 687 ± 75; 697 ± 75; 720 ± 75
#44 @ 1130: 747 ± 77; 874 ± 84; 810 ± 81
#45 @ 1143: 1550 ± 120; 1420 ± 110; 1630 ± 120
#46 @ 1155: 954 ± 85; 912 ± 84; 892 ± 83
#47 @ 1205: 1260 ± 100; 1130 ± 95; 1220 ± 98
#48 @ 12:15: 1850 ± 130; 1690 ± 120; 1760 ± 130
#49 @ 1225: 2400 ± 150; 2370 ± 150; 3150 ± 180
#50 @ 1230: 1410 ± 120; 1510 ± 120; 1390 ± 120
#51 @ 1242: 2000 ± 140; 1990 ± 140; 1970 ± 130
#52 @ 1250: 3530 ± 190; 3460 ± 190; 3450 ± 190
#53 @ 1300: 2750 ± 170; 3090 ± 170; 2870 ± 170

1720 Davis goes to field to collect post screening samples from cell #31, #8, #9

1800 Davis puts samples in command post and allows to dry and will screen with Niton tomorrow.

- IT excavated #31, 8 + 9, and part of #19. Excavation has begun on #32 + #10.
- Davis will screen samples + pack samples for shipment to lab tomorrow. Also, further screening of RG. Note: osc gone to KC till next wk

1820 Davis departs site for hotel — JO 1/24/02

1/25/02 JO G9011.L.01.0063.00

0700 Davis arrives at site. IT present. OSC in KC until next week. IT to continue excavating cell #32, #10.

0710 Davis calibrates Niton and works on data + # of lab samples

Davis phones lab + takes readings on the following cells and times are from collection on 1/24/02:

#8 @ 1745 post: 87 ± 43; 63 ± 40; 57 ± 36
#9 @ 1800 post: < 57 (ND); 64 ± 42; 65 ± 39
#31 @ 1740 post: 84 ± 41; 78 ± 41; 83 ± 40

Weather: ≈ 22°F, sunny, high ≈ 50°F, winds 5-15 mph S/SW

1111 Samples packaged, labeled, field sheets filled out etc. see pg 95 of logbk

NOTE: Jeff with Tetra Tech phoned Davis and stated that the last 3 samples were run under wrong method - 6010 instead of 6020. Jeff to call lab and have samples reanalyzed under 6020.

1150 Davis calls Fedex pickup #23

IT excavated cell #19 + #10 JO

Rock truck added load to west entrance at RG this morning.

1215 Davis goes to lunch

1/25/02 G901K.L.01.0063.00

1230 Davis returns from lunch and goes to RG and hammers in stakes knocked down during excavation. post screening samples to be collected from: #19; 32; 10

1250 Davis collects 9 aliquot samples from cells # 54-67, prescreening

NOTE: IT excavating cells #20 + #19

1458 Davis completes sampling of 8th row

Davis homogenizes samples.

1515 Davis goes to RG to collect samples for post screening from #19, #32, #10, #20 and samples #75-81 for prescreening.

Note: hydroseeder to come on Sunday and grade Valverde property and return on Monday to seed property. Also, Hertz to come on Monday morning and cut the teeth off of one excavator to make a flat blade. Also, tanker truck on-site fueling gas tank + will fuel excavators + Volvo trucks. #20 is excavated

1620 Davis completes ~~excavation~~ sampling of cells # 75-81 + collects samples from excavated cells #19, #20, #10, #32

1645 Fedex picks up samples.

1/25/02 G2011.L.01.0063.00

1715 Davis begins screening samples collected today.

post screening sample readings + times are as follows

#32 @ 1615: <48(ND); <49(ND); <49(ND)

#19 @ 1620: <51(ND); <51(ND); 86±41 * NO 20

#20 @ 1625: <55(ND); 80±41; 67±37

#10 @ 1630: 142±45; 194±48; 206±51 *

prescreening readings are as follows for the following samples

#54 @ 1300: 204±46; 291±53; 234±50

#55 @ 1315: 219±46; 261±48; 209±45

#56 @ 1330: 314±52; 321±52; 378±55 *

#57 @ 1340: 529±66; 534±68; 535±69

#58 @ 1350: 754±74; 671±74; 748±77

#59 @ 1400: 826±84; 716±75; 693±73

#60 @ 1410: 1030±89; 1020±89; 986±89

#61 @ 1415: 791±81; 789±80; 796±81

#62 @ 1420: 1500±120; 1740±140; 1790±130

#63 @ 1425: 1890±130; 1870±130; 1920±140

#64 @ 1430: 1310±110; 2290±150; 2350±150

#65 @ 1435: 1980±130; 1890±130; 2070±140

#66 @ 1440: 1700±130; 1650±130; 1740±130

#67 @ 1445: 1650±120; 1800±130; 1450±120

#75 @ 1610: 699±73; 681±74; 590±73

#76 @ 1605: 690±80; 782±81; 727±76

#77 @ 1600: 852±84; 884±90; 918±74

1/25/02 G9011.L.01.0063.00

#78 @ 1555: 1250±100; 1330±110; 1330±110

#79 @ 1550: 836±82; 838±89; 917±90

#80 @ 1545: 1230±98; 1170±97; 1090±92

#81 @ 1540: 1110±96; 869±84; 1060±94

NOTE: IT still excavating cell #'s 33+11 + Hewitt Returned call to RM with IT stating that the teeth on one excavator will not be removed, instead ~~they~~ will look for a different piece of equip on Mon.

2000 Davis departs site for hotel

1/25/02

1/26/02 G9011.L.01.0063.00

1000 Davis arrives at site. IT present. OSC ~~was~~ not present, will be returning on Monday or Tuesday of next week.

Davis speaks with Lunger, OSC, this morning and updates him on site activities. Davis discusses down sizing size of road to be used to access south side of property from 3+07 cells.

Weather: Sunny, ≈ 50°F, high expected to be in the mid 60's windy, S/SW winds 5-20 mph.

Davis discusses road with RM with IT and updates him on map.

1030 Davis calibrates Niton and does drive through of site

Davis collects samples from RG for prescreening (9-12 aliquots)

1200 IT has excavated cell #33 and has begun cell #21. Also, cell #11 has been excavated and #12 is currently being excavated

Davis completed sampling of row #6

1245 Davis takes lunch

1255 Davis returns from lunch

1/26/02 G9011.L.01.0063.00

Davis begins collecting samples on row #7, cells #82-#95

Note: 4 trucks (volvo) ran yesterday except when 1 guy on dozer. Same today

1400 Davis + Bill Carey do site walk through and tell excavators to end at cells #24+37 for road access for cells

Note: Cell #12 FS excavated. Over on cell #21 + #34

1500 Davis collects post screening/excavation samples from cell #11, #12, #33

1535 Davis takes readings with Nuton #53 on post (excavated) cells. Readings are as follows:

#12 @ 1510: 213 ± 49; 251 ± 51; 206 ± 49

#33 @ 1500: 122 ± 42; 100 ± 40; 107 ± 39

#11 @ 1505: 99 ± 40; 286 ± 55; 203 ± 50

pre screening readings are as follows:

#68 @ 1150: 402 ± 63; 321 ± 55; 356 ± 58

#69 @ 1140: 311 ± 51; 309 ± 52; 302 ± 52

#70 @ 1130: 388 ± 56; 379 ± 59; 356 ± 55

#71 @ 1115: 521 ± 71; 525 ± 67; 423 ± 60

#72 @ : 588 ± 66; 490 ± 65; 542 ± 66

#73 @ 1050: 632 ± 75; 700 ± 82; 787 ± 81

1/26/02 G9011.L.01.0063.00

#74 @ 1045: 798 ± 82; 837 ± 84; 866 ± 87

1730 Davis shots Nuton standards

High: 3930 ± 230; 4370 ± 250; 4450 ± 260

Med: 932 ± 100; 894 ± 98; 940 ± 102

Low: 70 ± 42; <56 (ND); <50 (ND)

1740 IT has sprayed intersection down with water.

1745 Davis departs site

[signature]
1/26/02

1/28/02 G9011.L.01.0063.00

0700 DAVIS arrives on-site. IT present. OSC in KC and will return to site tomorrow.

Weather: ≈ 50°F, partly cloudy, winds 5-15mph S/SW switching to NW later in day. high expected to be in upper 60's F.

IT excavating cells with one excavator & 2 trucks, H2O truck spraying roads this morning, and one excavator loading/hauling in trucks to rebuild road to repository, bulldozer working road. DAVIS does site drive through

TASKS #7: (1) screen samples from row

(2) collect + screen samples from excavated cells

(3) enter in data to spreadsheet from 1/26/02 readings and todays readings

(4) collect samples from RG and screen

(5) video rest of properties

IT excavated cells #21, 22, 43, 44 ON 1/27/02

1/28/02 G9011.L.01.0063.00

DAVIS calibrates Niton and screens samples collected from row # 7 on 1/26

times are from sample collection

Readings are from 9-12 aliquots per cell and are as follows:

#88 @ 1345: 1050 ± 110; 1100 ± 110; 1170 ± 110

#89 @ 1340: 1980 ± 150; 2250 ± 170; 2450 ± 170

#90 @ 1330: 1360 ± 120; 1320 ± 110; 1510 ± 120

#91 @ 1325: 1510 ± 120; 1350 ± 110; 1370 ± 110

#92 @ 1320: 1650 ± 140; 1480 ± 130; 1660 ± 130

#93 @ 1315: 1610 ± 130; 1840 ± 130; 1850 ± 140 *

#94 @ 1310: 1230 ± 110; 1260 ± 110; 1310 ± 120 *

#95 @ 1300: 994 ± 110; 1030 ± 100; 1060 ± 110

#82 @ 1450: 354 ± 66; 420 ± 69; 484 ± 75

#83 @ 1445: 476 ± 71; 436 ± 68; 407 ± 64

#84 @ 1440: 479 ± 72; 557 ± 75; 634 ± 82

#85 @ 1435: 550 ± 78; 538 ± 75; 568 ± 76

#86 @ 1430: 492 ± 69; 783 ± 86; 768 ± 87

#87 @ 1425: 1080 ± 110; 1170 ± 110; 1150 ± 110

Note: Hydroseeder did not arrive yesterday, is being rescheduled.

fuel truck on-site for fueling of volvo trucks, dozer + excavators

1030 DAVIS enters in averages into spreadsheet from 1/26 + 1/28 (above)

DAVIS preps samples for Fedex pickup

1/28/02 G9011.L.01.0063.00

1100 Davis receives call from Brett Nicholas with STAT Analysis Lab. He states that sample #42 arrived broken. Davis to resample cell and take new reading with the Niton and resubmit to lab for analysis. Also, method 6020 is not able to be run on these samples due to problems with lab equipment possibly until wednesday. Davis discussed discount options for missions Brett will inquire if discount can be received. Davis to inform DEL. Davis currently told lab to wait on analyzing samples until proper method can be run. difference in detection limit is 10 fold.

Note: Davis speaks with Lunger re lab. states that we may need to send samples to another lab, Davis phones Lynn. Lynn to call Lunger and states that detection limit is still way below needed analyte or detection with method 6010. Lynn to return call with detection limits and ~~[illegible]~~ direction to do.

1/28/02 G9011.L.01.0063.00

1215 Davis phones Lunger re detection limit. He agrees to have samples analyzed under 6020. 6020 detection limit is .05ppm, 6010 detection limit is 5ppm. Davis phones lab and has samples run under 6010. Also, all samples collected in Rodeo Grounds to be run for lead only.

1230 Davis phones Fedex for sample pickup, pickup #30

Davis collects sample from cell 42 (broken upon receipt at Lab)

Note: 1st Excavating w/ 2 excavators + 4 trucks running. Road done + berm moved. Davis does data management

1400 Davis takes lunch

1430 Davis returns from lunch

1440 Davis collects 9-12 aliquots samples per cell from row #8, cells 96-109.

1658 Davis completes sampling of row #8 and will allow samples to dry over night prior to screening with Niton.

Note: One 1st crew switches off w/ N[illegible]

1/28/02 G4011.L.01.006300

Water truck, dozer + volvo truck throughout site activities

1700 DAVIS collects samples from cells that have been excavated #'s 21, 22, 23, 34, 43, 44, 45, 46

IT began excavating cell # 47 + #35

Cells # 23 + 34 excavated + 45 + 46

Note: 1/4 of Cell #29 has already been excavated. Sewer pipe in cell # 21

1800 DAVIS departs site for hotel

1/28/02

1/29/02 G9041.L.01.006300

0700 DAVIS arrives on-site, IT present. OSC to arrive today

Weather: cloudy, raining, ≈ 20°F, high ≈ 30°F. winds from N/NW

Crew to begin excavating cell # 47 + # 35.

0715 DAVIS phones OSC, leaves message re site status.

0730 DAVIS calibrates Niton XRF reading on Niton standards are as follows:

High: 3980 ± 230; 4010 ± 230; 4020 ± 230

Medium: 882 ± 96; 874 ± 81; 971 ± 99

Low: 77.7 ± 21; <54 (ND); <59 (ND)

Blank: <32 (ND); <32 (ND); <27 (ND)

0900 DAVIS screens samples collected on 1/28/01 (below) with Niton XRF (3x each). times and dates are from 1/28 01. Readings are as follows:

Post screening Readings are:

#43 @ 1702: 77 ± 38; 85 ± 39; <52 (ND)

#44 @ 1710: 118 ± 43; 123 ± 44; 97 ± 42

#45 @ 1715: 94 ± 40; <56 (ND); 80 ± 40

#46 @ 1730: 78 ± 39; <53 (ND); 130 ± 45

#34 @ 1750: 70 ± 38; <54 (ND); 66 ± 38

*see log book #6 for entries to follow (see 1/29/02)

NOTE: Hertz truck arrives on site @ 0810

POST SCREENING dates + locations + BREEZE

Cell #(s)	date	barrier needed
9	1/16/02	NO
8	1/16/02	NO
7	1/17/02	NO
6	1/18/02	NO
24	1/18/02	NO

This page intentionally left blank

1/29/02

This page intentionally left blank

I DAP 1/29/02

SAMPLE LOG - Sedimentment

SAMPLE #	DATE	TIME	location	description
NZ-38 RG(T)	1.17.02	10:47	38 pre	Rocco Grounds
NZ-43RG(T)	1.17.02	11:33	43 pre	RG
NZ-15 RG(T)	1.18.02	1010	15 pre	RG
NZ-42RG	1.28.02	1230	* 42 (pre) lab	RG
NZ-8RG	1.24.02	1745	8 (4T) post	RG
NZ-53RG	1.24.02	1300	53 pre	RG
NZ-52RG	1.24.02	1250	52 pre	RG
NZ-51RG	1.24.02	1242	51 pre	RG
NZ-46RG	1.24.02	1155	46 pre	RG
NZ-49RG	1.24.02	1225	49 pre	RG
NZ-10RG	1.25.02	1630	10 post	RG
NZ 56 RG	1.25.02	1330	56 pre lab	
NZ-68RG	1.26.02	1150	68 pre lab	
NZ-69 RG	1.26.02	1140	69 pre lab	
NZ-70RG	1.26.02	1130	70 pre lab	
NZ-93RG	1.26.02	1315	93 pre	
NZ-94RG	1.26.02	1310	94 pre	

I DAP 1/29/02

CLEAN CELLS {temporary cells (T)}
10, 11, 12, 13, 14, 15, 34, 22, 23 (T)

CELLS ↑ 400ppm (Prescreening)

CELL #		date excavated	date screened
9(T)	3	1/16/02	1/15/02
8(T)	4	1/16/02	
7(T)	5	1/17/02	(1) cistern
6(T)	6	1/18/02	(1) cistern
5(T)	7	~~1/15/02~~ 1/23/02	(1) cistern
4(T)	8	1/23/02	1/16/02 (1) cistern
3(T)	9	1/24/02	1/24/02 1 cistern +1/15/02
2(T)	10	1/25/02	
1(T)	11	1/26/02	
31(T)	24		
33(T)	39(N)		
32(T)	25		
30(T)	23		
29(T)	22		
28(T)	21		
27(T)	20		
26(T)	19		
25(T)	18	~~1/19/02~~ 1/23/02	
24(T)	17	1/17/02	(2) cistern
35(T)	29	1/23/02	
36(T)	30		1/17/02
37(T)	31	1/24/02	+ 1/24/02
38(T)	32		
39(T)	33		
40(T)	34		

1/29/02

48 cont'd Cells ↑ 400 cpm Pre-screening

Cell #	date excavated	date screened
35 41 (T)		1/17/02
36 42 (T)		↓
37 43 (T)		↓
38 44 (T)		↓
39 45 (T)		↓
12	1/26/02	↓

Note: See spreadsheet for complete info and readings

Bri 1/28/02

48

SAMPLE LOG

Sample #	DATE	TIME	location description
NZ-019 (post)	12.12.01	1650	635 W 1st C
NZ-020 (post)	12.12.01	1620	635 W 1st A
NZ-021 (post)	12.12.01	14:50	638 W 1st 3
NZ-022 (post)	12.13.01	11:40	638 W 1st 7
NZ-023 (post)	12.13.01	11:50	638 W 1st B
NZ-010 (post)	11/28/01	1048	617 Front D
NZ-011 (pre)	11/28/01	1148	609 Front 7
NZ-012 (post)	12/3/01	948	505 Front B
NZ-013 (pre)	12/4/01	1224	532 W 1st 1
NZ-014 (post)	12/4/01	1645	500 W 1st A
NZ-015 (post)	12/4/01	1655	500 W 1st B
NZ-016 (post)	12/5/01	1200	506 W 1st A
NZ-017 (post)	12/7/01	8:16	514 W 1st C
NZ-018 (post)	12/7/02	1300	~~514 W 1st~~ 527 W 1st D
NZ-024	1/5/02	1230	5399 CR 50 50 A
NZ-025	1/5/02	1220	420 N Liberty A

NOTE: LAB SAMPLES increased from a total of 30 to 50 samples as of 1/22/02 (increase of 20 samples) 25 (to submitted)

"Rite in the Rain"®

ALL-WEATHER WRITING PAPER

HORIZONTAL LINE

All-Weather Notebook

No. 391

RODEO GROUNDS + PONDEROSA

LOG BOOK #6 OF 7

NATIONAL ZINC SITE

CHERRYVALE, KS

MONTGOMERY COUNTY, KS.

PROJECT # G9011.L.01.0063.00

4 5/8" x 7" - 48 Numbered Pages

COPY

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Element	TSK
cd	39 mg/kg
Mercury	2 mg/kg
Arsenic	11 mg/kg
Lead	400 mg/kg
ZINC	23,000 mg/kg

Name

Address Tetra Tech
8030 Flint ST
Lenexa, KS 66214
FAX 913 · 894 6295

Phone
Jeff Oden 2/ab

Project Seagull ENV. Fedex Acct #216551842
11905 Gillette ST
OP, KS. 66213-2379

Yellow Polyethylene Protective Slipcovers (Item #31) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE
	NZ SITE	
	604 N. LIBERTY	
	Chanute, KS 67335	
	EPA # → (O) 620 · 336 · 8954	
	(F) 620 · 336 · 8956	
	(D) 620 · 336 · 8952	
	STAT analysis LAB	
	2201 W Campbell ST	
	PARK Drive, STE 315	
	Chicago, IL 60612	
	# 312 · 733 · 0551	
	Contact: Brett Nicholas	
	Microtel	
	2917 W Main ST	
	Independence, KS 67301	
	# 620 · 331 · 0088	
TI	Fed EX Account #:	
	129932895	

1/29/01 G9011.L.01.0063.00

Note: Entries continued from Log bk #5

post screening of samples collected on 1/28/02 Niton readings are as follows:

#21 @ 1735: <53 (ND); <51 (ND); <52 (ND)

#23 @ 1745: 59 ± 39; 69 ± 40; 170 ± 52

#22 @ 1740: 74 ± 36; 74 ± 39; 95 ± 44

Prescreening Readings on Row #8, cells #96 - #109 are below. sample times and dates are from 1/28/02. Readings are as follows:

#96 @ 1705: 393 ± 61; 490 ± 67; 418 ± 64

#97 @ 1655: 408 ± 62; 484 ± 68; 473 ± 66

#98 @ 1645: 525 ± 66; 457 ± 62; 493 ± 66

#99 @ 1630: 668 ± 80; 606 ± 73; 615 ± 74

#100 @ 1615: 700 ± 79; 622 ± 72; 627 ± 76

#101 @ 1600: 561 ± 70; 546 ± 69; 584 ± 71

#102 @ 1540: 750 ± 86; 784 ± 85; 786 ± 84

#103 @ 1530: 2140 ± 140; 2430 ± 150; 2170 ± 140

#104 @ 1515: 1720 ± 130; 1740 ± 130; 1750 ± 130

#105 @ 1505: 2810 ± 170; 3170 ± 180; 2470 ± 160

#106 @ 1455: 2170 ± 140; 1940 ± 140; 1940 ± 140

#107 @ 1450: 1560 ± 120; 1590 ± 120; 2720 ± 170

#108 @ 1445: 1070 ± 95; 1220 ± 100; 1230 ± 110

#109 @ 1440: 1060 ± 96; 781 ± 83; 898 ± 90

1240 DAVIS checks site. ~~It~~ has excavated cells #35 + #47 and

1/29/02 G9011.L.01.0063.00

has started excavation on cell #48 + #36

1300 DAVIS does data management cells #96 - 109 are ↑ 400 ppm post screening cells clean are on pg 47 of this log bk. To date, 27 cells have been post screened + are clean, ↓ 400 ppm.

1350 DAVIS goes to Walmart for sampling supplies

1425 DAVIS returns to site. Davis enters info into spreadsheet

1545 DAVIS collects post screen samples from excavated cell #5 35, 47, 36, 48

1620 DAVIS collects samples from row #9 beginning with Cell # 110 thru # 123 (gas line present in cells)

1733 DAVIS collected samples ≈ 9-10 Aliquots from cells # 110 - 115

OSC arrived on-site. DAVIS updates OSC + discusses site activities

1745 DAVIS loads up equip. + unloads samples and allows to dry prior to screening with Niton

1800 DAVIS departs site

JD 1/29/02

1/30/02 G9011.L.01.0063.00

0715 Davis arrives on-site. IT + OSC present. Weather: rain/ice mix. 30°F, Roads slightly slick and equipment iced. IT to continue excavating cells in Rodeo Grounds, cell # 49

0730 Davis changes mylar on Niton unit #53. + calibrates Niton #53

0800 Davis begins homogenizing samples collected on 1/29/02 Post cells # 35, 36, 47+48 + prescreened cells # 110-115.

Niton readings for post screening/excavated cells are as follows: (taken from 1/29/02)

#35 @ 1550: 548 ± 79; 398 ± 72; 429 ± 73

830 Davis goes out to site to have IT stop excavation at cell # 49 so cell 35 can be reached.

Note: site conditions are too muddy + wet. 3 trucks, Volvo's, have gotten stuck. Excavators are clearing road of mud and Truck drivers are coming in. Site work to stop today due to weather.

Davis will screen samples collected on 1/29/02

#36 @ 1555: 315 ± 63; 262 ± 59; 323 ± 63

#47 @ 1600: <56 (ND); <56 (ND); 93 ± 40

#48 @ 1605: 281 ± 59; 242 ± 55; 231 ± 55

Prescreening samples Readings are as

1/30/02 G9011.L.01.0063.00

follows for samples 110-115 collected on 1/29/02 - Readings are as follows:

#110 @ 1620: 450 ± 64; 424 ± 64; 503 ± 67

#111 @ 1638: 352 ± 59; 335 ± 57; 317 ± 56

#112 @ 1645: 155 ± 44; 202 ± 80; 177 ± 47

#113 @ 1650: 379 ± 60; 394 ± 62; 324 ± 59

#114 @ 1709: 1280 ± 110; 1160 ± 110; 1250 ± 110

#115 @ 1719: 920 ± 91; 907 ± 92; 787 ± 85

1029 Manager wants Davis to find a service to do an aerial ~~fly~~ fly over of excavated yards to date, after screening of RG.

1109 Davis prepared samples #NZ-111 RG + NZ-113 RG

1115 Davis screens Niton Standards Readings are as follows:

High: 4890 ± 270; 5010 ± 280; 4760 ± 270

Medium: 1010 ± 110; 952 ± 100; 950 ± 100

Low: <59 (ND); <56 (ND); <56 (ND)

1130: Davis phones STAT Analysis Lab. samples rec'ved + analytical should arrive today for 1st group and tomorrow for 2nd group.

FedEx pp F8 21 ← pickup #

1200 Davis goes by Sonora property to take photo of ice falentree lumber

1/30/02 G90UL.01.0063.00

roof + garage of house. see photo log on page 46 of this log bk

1230 DAVIS departs site after photoing 621 Front St.

~~Note:~~ Site shut down through Friday or SAT.

1330 DAVIS departs for KC

DAVIS 1/30/02

2/5/02 G9011.L.01.0063.00

DAVIS phoned OSC on 2/4/02 regarding site status and analytical data, left vm. OSC returns call on 2/5/02. Niton XRF's are to be switched with a unit that has been recalibrated and resourced. Niton #53 currently being used for project is past calibration date and factory standards results vary greatly. DAVIS to remob to site on 2/6/02? and OSC to remob to site on 2/7/02?. DAVIS phones STAT analysis lab for results for samples RG111 + RG113. Results to be sent to e-mail. DAVIS does Cherryvale monthly Progress Rpt + ER's. and worked on data on 2/4/02. CT to remob on 2/5/02 and turn soils in field to allow to dry on 2/6/02. Snow expected on 2/6/02 in Cherryvale. Analytical results to be e-mailed at 5pm today.

2/5/02

2/8/02 G9011.L.01.0063.00

0810 DAVIS departs office for EPA warehouse to pickup Niton #63.

Note: DAVIS attempted to pickup Niton on 2/7/02 @ 1410 PM, however Niton was not available until this morning

0830 DAVIS arrives at EPA warehouse

0900 DAVIS departs warehouse and takes care of office issues.

1000 DAVIS departs KC for site

1245 DAVIS arrives in Cherryvale

1300 DAVIS gets lunch

1315 DAVIS on-site

Weather: windy @ 10-20 mph from S/SW, temp @ 50's °F, partly cloudy

1310 DAVIS does site drive through.

Note: DAVIS spoke with R + OSC yesterday site conditions are too wet for crews to excavate. IT will decon equip, which is to remain on-site, and site to be shut down today (IT is has departed site). Activities schedule to restart on 2/18/02. However, DAVIS will complete sampling of RG and video taping

DAVIS does site drive through conditions are very damp

1330 DAVIS calibrates Niton #63 and

2/8/02 G9011.L.01.0063.00

shoots factory standards. Reading are as follows:

high: 3790 ± 250; 4870 ± 320; 4640 ± 310

Medium: 1020 ± 120; 995 ± 120; 933 ± 120

low: < 56 (ND); < 53 (ND); < 42 (ND)

Note: Niton #53 is out of calibration

Niton #63 has recently been calibrated and will be used to continue site extraction/screening. Niton #63 has 2 sources Cd 109 + Am 241

Niton Standard certified values are as follows:

high: 5,532 ± 80

Medium: 1162 ± 31

low: 18.9 ± 0.5

1415 DAVIS receives tags from STAT for samples #111 + #113 per request by DAVIS

1445 DAVIS begins collecting samples from cells #116 + 117 (through 123)

DAVIS will allow all collected samples to dry due to wet conditions.

Note: sample results for #111 + 113 are 380 + 450, respectively. See spreadsheet for all results + averages

1750 DAVIS completes collecting

2/8/01 G9011.C.01.0563.00

samples #116 - 123 and #135, 136, 137.

1800 DAVIS allows samples to dry and performs site closing activities.

1830 DAVIS departs site for hotel

TASKS: (1) DAVIS to collect 31 more samples, #'s 124-134, #'s 138 - 148, 149 - 157.

(2) screen samples

(3) collect + submit samples to lab.

(4) video tape properties on W 1st ST.

OSC departs for KC for until Feb. 18th, proposed restart date.

2/8/01

2/9/01 G9011.C.01.0563.00

0730 DAVIS arrives on site. OSC + IT NOT present. DAVIS calibrates Niton #63. Readings on standards are as follows:

high: 4760 ± 310; 4500 ± 300; 4300 ± 290

Medium: 966 ± 120; 900 ± 110; 798 ± 100

low: <49 (ND); <39 (ND); <37 (ND)

0815 DAVIS enters/manages spreadsheet for RG

0930 DAVIS begins to collect samples for cells #124 - 134 in RG after performing data management

Note: smaller cells #135 - 137, 9 aliquots were collected on 2/8/02 A150, 9 - 15 aliquots have been collected in each cell and future cells.

1030 DAVIS collects samples

1300 DAVIS finishes collecting samples #124-134. DAVIS allows samples to dry prior to screening.

1315 DAVIS breaks for lunch

Weather: high winds ≈10 - 25 mph from S/SW switching to N later in the day, high expected to be in 50's. Rain expected in the afternoon

2/9/01 G9011.L.01.0063.00

NOTE: (1) screen drainage ditch in row #124 at RG, IN situ

(2) prescreen parameter at RG, along N + E fence

(3) Collect background samples for HRS package, one in each Cardinal direction approx 3-4 miles from site boundry

1300 Davis returns from lunch

1400 Davis collects samples from row #138 (11th row)

1600 Davis completes sampling of row #138, cells #138 - 148

1605 Davis collects samples from row (#149) #12 + row 13, cells # 154-157

1730 Davis completes sampling of RG cells for prescreening

Davis to screen sampler with Niton on 2/10/01. Davis allows sampler to dry

Note: cells #150, 151, and 155 have tilled soil in cells. Sampler include tilled soil.

1745 Davis departs site for hotel

[signature]
2/9/01

2/10/01 G9011.L.01.0063.00

0730 Davis arrives on-site

Weather: ± 30°F, winds 25-35mph from N/NW. snow flurries expected in AM, high ± 40°F

Note: OSC + IT not present

0800 Davis calibrates Niton #63 and shoots standards from factory. Readings are as follows:

high: 4530 ± 300, 3840 ± 260; 4430 ± 30

medium: 900 ± 110; 1070 ± 120; 847 ± 110

low: 98.3 ± 30; <48 (ND); <48 (ND)

Davis will prescreen samples collected from 2/8/02 + 2/9/02 dates + times will be stated below. Averages to be entered in spreadsheet

Readings are as follows for samples collected on 2/8/02

#123 @ 1645: 529 ± 87; 526 ± 85; 566 ± 90

#122 @ 1631: 1000 ± 120; 860 ± 120; 884 ± 110

#121 @ 1615: 1600 ± 160; 2020 ± 180; 1930 ± 180

#120 @ 1600: 1560 ± 150; 1630 ± 150; 1650 ± 160

#119 @ 1540: 2090 ± 190; 2270 ± 190; 2400 ± 200

#118 @ 1525: 786 ± 100; 942 ± 110; 1030 ± 110

#117 @ 1515: 1210 ± 120; 1070 ± 120; 1150 ± 130

#116 @ 1500: 894 ± 110; 978 ± 120; 950 ± 110

#135 @ 1730: 322 ± 67; 385 ± 69; 394 ± 70

2/10/02 G9011.L.01.0063.00

#136@1746: 370±79; 414±76; 413±77

#137@1702: 556±88; 591±80; 560±87

Readings are from samples collected on 2/9/02:

#124@1245: 437±80; 506±83; 526±80

#125@1237: 473±76; 360±66; 369±68

#126@1230: 330±67; 331±68; 345±59

#127@1215: 542±86; 615±80; 548±89

#128@1157: 512±80; 504±71; 475±77

#129@1145: 498±80; 598±87; 5[illegible]±79

#130@1132: ~~560±87; 560±80~~ 1060±120; 1210±140; 1320±120

#131@1118: 686±94; 668±90; 794±97

#132@1100: 559±90; 715±98; 594±87

#133@1049: 668±95; 681±88; 778±96

#134@1040: 569±87; 594±88; 535±83

1310 DAVIS breaks for lunch after #137 + before screening #124, 15 min/lunch

1625 DAVIS averages numbers/cell and enters into spreadsheet.

1715 DAVIS departs site for hotel

2/10/02

2/11/02 G9011.L.01.0063.00

0800 DAVIS drives around former National Zinc smelter to scope locations to collect background samples for HRS package.

0900 DAVIS goes to USDA to pick up soil survey book for Montgomery County

1000 DAVIS begins to screen samples collected on 2/9 with Niton #63.

DAVIS calibrates Niton #63. Readings on Niton factory standards are as follows:

High: 4570±300; 4710±290; 4720±310

Medium: 857±110; 986±120; 997±120

Low: <58 (ND); <51 (ND); <52 (ND)

Weather: partly cloudy, ≈32°F, high in low 50's, winds from N/NW 10-20 mph

Readings are as follows for (2/9) pre-screening of cells #138-157

#138@1600: 398±77; 426±80; 440±78

#139@1545: 317±64; 272±65; 300±61

#140@1535: 353±69; 299±64; 429±73

#141@1525: 373±62; 516±82; 333±67

#142@1517: 866±110; 869±109; 866±110

#143@1510: 673±88; 694±95; 640±88

#144@1458: 1111±120; 927±110; 1040±120

2/11/02 G9011.L.01.0063.00

#145@1445: 1050±130; 1070±130; 1160±120
#146@1438: 1990±180; 1810±160; 2140±180
#147@1430: 910±98; 1010±95; 1040±120
#148@1415: 2980±230; ~~[illegible]~~ 3310±210; 3480±250
#149@1643: 649±95; 678±88; 647±81
#150@1630: 675±93; 618±93; 651±93
#151@1623 552±81; 616±91; 664±98
#152@1616 585±82; 664±86; 683±89
#153@1610 413±71; 537±85; 451±81
#154@1647: 320±65; 420±76; 484±76
#155@1655: 217±59; 342±63; 369±63
#156@1703: 368±74; 391±63; 330±63
#157@1715: 288±58; 352±64; 352±68

1345 DAVIS breaks for lunch
1415 DAVIS returns from lunch and averages readings taken today as above (+ pg 15) cells + enters into spread sheet. DAVIS packages samples #147, #157, 144, 145, 138 to be submitted to lab. 8 post-screen samples to be collected while DAVIS is on vacation from Feb 14-26th. OSC to collect, screen, + complete field sheets for START. Site activities to resume on Feb. 18, tentatively. DAVIS types up letter of items to be

2/11/02 G9011.L.01.0063.00

taken care of by OSC and e-mails to him with the spreadsheet
DAVIS speaks with OSC + Lynn Parman re: site activities.
1800 DAVIS departs site for hotel and will depart for KC in the morning
samples to be Fedexed from KC.
Nitons will be dropped off at EPA warehouse. DAVIS left field sheets on desk at command post for Lawyer + spreadsheet as well

TASKS: (1) video
(2) background samples
(3) screen, in situ, drainage ditch + boundries of RG
(4) fly over for aerial

2/11/02

2/28/02 G9011.L.01.0063.00

0800 Davis departs office for TetraTech and to fuel Rent-A-Car and pickup supplies and performs site management issues. Note: Davis also worked for 4hrs on site issues on 2/27/02, budget rental car + data management.

0930 Davis departs KC after stopping at Tetra Tech to sign off on laboratory ammendment + issues, etc. lab ammendment for P Brady

Note: discussions on 2/27/02 with OSC + Davis were regarding site budget. OSC to submit ammendment for additional funds for street

1230 Davis arrives on-site and discusses site progress + tasks with OSC. 27 cells have been excavated since 2/22/02 when IT + EPA began excavation activities on-site. Cells #35+36 were re-excavated due to reading above action level + XRF in situ readings

OSC added an additional cell to south of site, #158, Davis to ~~post~~ pre screen cell. cells #154, 85, 149 need to be post screened

OSC post screened 29 cells, cells 35+36 re-excavated. No samples were collected and submitted to lab for analyses

2/28/02 G9011.L.01.0063.00

while Davis was on vacation. Cells #129 + 84 have had samples (post) collected by OSC and are drying. Davis to screen with Niton and take 3 readings with Niton / each. OSC took 3 readings with Niton for each post screening sample collected. Davis will average numbers and enter into spreadsheet. 8 samples to be collected from excavated cells and submitted to lab for lead only. OSC departs site for KC and to return on ~~Feb~~ March 1st. OSC received verbal access from Harold Reilly, who leases property at 610 E 5th St, known as Ponderosa, to sample for lead, pre-screen. OSC also received verbal access from Judy Tyler at 726 W 3rd to sample for lead, pre-screen. Davis to perform this task

Weather: partly cloudy, high mid 30's °F, slight wind from S/SW rain expected tonight

2/28/02 G9011.c.01.0063.00

DAVIS calibrates Niton to take readings on ~~samples~~ on #129 + #84.
DAVIS reviews site info from OSC + does site drive through.
Note: small bulldozer to be exchanged for larger bulldozer tomorrow.
2 concrete walls + foundation to be torn down at repository, during poor weather conditions, ie rain. KPHS to be on-site on Tues., to look at temporary well at repository as well.
Bill Cathey with IT, response manager, has been replaced by Dale Kriete, IT crew consists of 9 members.
1530 DAVIS homogenizes samples with mortar + pestle, decontaminated with alconox between homogenizing samples and takes 3 readings per sample with Niton #63.
Note: OSC took readings with Niton on factory standards this morning
#84: <40 (ND); <50 (ND); 72 ± 35
#119: 134 ppm; 91 ppm; 105 ± 42
1700 cells 85, 149, 154 + 1/2 of cell 144 are excavated DAVIS to sample in the morning

2/28/02 G9011.c.01.006300

1745 DAVIS departs site for hotel

[signature] DAVIS
2/28/02

3/1/02 G20U.L.01.0063.00

0700 Davis arrives on site. IT has safety meeting. 1 excavator to finish cell #144 + 1 excavator to finish cell #99.

0715 Davis goes to field to collect post samples from cells #149, #154 #85.

Weather: Cloudy & 33°F, rain expected turning to sleet/snow

0800 Davis collects sample from cell #158 for pre-screening.

OSC added cell #158 (reducing size of original cell #153)

IT running 4 volvo trucks, bulldozer smoothing temp road in RG fields.

0835 Davis collects post screening sample from cell #99

1 excavator begins excavation of cell #113. depth of excavation for all cells is ≈ 6"-12" except where cisterns are present then depth of excavation at cistern location is ≈ 3'-4'

0854 Davis goes to repository + takes photos of 2 concrete walls + ~~formerly~~ w/foundation of former building on 360-acre smelter. Davis also videotapes

3/1/02 G9011.L.01.0063.00

area. Concrete walls (w/foundation) to be demolished to make room for repository. 0:00:00 - 0:01:16 is time of filming on video tape #4. North end of repository is within several feet of KOHE well which is to be capped on Tuesday of next week by KOHE

Davis performs ~~status~~ IO data management + cost issues for analytical/laboratory

1230 Davis takes lunch

1245 Davis calibrates Niton and averages data that OSC collected for post screening reading with Niton - see spreadsheet

1330 Davis takes reading on factory standards with Niton. Cell #113 is excavated + cell #144 is excavated

Readings are as follows on NIST Standards:

High: 5060 ± 320; 4000 ± 270; 4820 ± 320

Medium: 1040 ± 120; 998 ± 120; 968 ± 110

Low: < 53 (ND); < 43 (ND); < 46 (ND)

Davis takes prescreening reading on sample from cell #158 with

3/1/02 G9011.C.01.0063.00

Niton - Readings are as follows:

#158 @0800: 323±57; 267±58; 245±55

1900 DAVIS takes readings on (post) samples collected from the following cells:

#149 @0750: <40(ND); <48(ND); <51(ND)

#154 @0740: 164±49; 201±52; 91±41

#85 @0730: <39(ND); 94±40; 92±39

#99 @0835: 59±36; 89±38; 77±37

Note: DAVIS attached OSC, DON Lunger's field notes of Readings w/Niton while DAVIS was gone in bracket this log bk.

1500 DAVIS phones Lunger Re type of aerial photograph wanted for site, eg stereographic, etc. OSC Lunger stated that he did not want a stereographic aerial of the site, just a regular photograph that can be traced and done by a local person. DAVIS stated that a scale would not be able to be used with an a photo taken from the air, OSC stated that was fine.

1520 DAVIS goes to RG to collect sample from 113 + 144 + 150

3/1/02 G9011.C.01.0063.00

IT excavation cells #114 + #145

TASKS for tomorrow:

(1) screen samples #113, 144 + 158 with Niton

(2) collect background samples

(3) collect samples + screen from excavated cells

1730 DAVIS departs site for Hotel

Note: DAVIS goes to Walmart to purchase needed field supplies

[signature]
3/1/02

3/2/02 G9011.C.01.0063.00

0700 DAVIS arrives on site. IT present. IT safety meeting takes place

Note: DAVIS was unable to drive cargo van to site due to weather conditions. DAVIS road with IT to site

Weather: wind ≈ 20-25 mph from the North, high in ≈ mid 20's, approx 2"-5" of snow accumulation expected presently sleet + ≈ 2" snow present + still snowing

0800 DAVIS calibrates Niton + performs manage mnt tasks and shoots Niton factory standards. Readings are as follows:

High: 4840 ± 320; 4820 ± 320; 4730 ± 320

Medium: 965 ± 110; 967 ± 120; 933 ± 120

Low: <49 (ND); <50 (ND); <51 (ND)

0830 DAVIS homogenizes samples 113, 144, 150 and takes readings with Niton Readings are below, samples were collected on 3/1/02.

#150 @ 1620: <44 (ND); 58.5 ± 38; 88 ± 41

#113 @ 1600: 298 ± 65; 225 ± 58; 215 ± 55

#144 @ 1545: <50 (ND); <88 (ND); <51 (ND)

1015 DAVIS goes to RG's to collect

3/2/02 G9011.C.01.0063.00

post Excavation sample from cell #114. IT Excavating cell #100 + #145

1130 DAVIS goes to RG to collect sample (post) from cell #145. IT excavating cell #60 + 100

DAVIS allows samples to dry prior to screening + averages data from 150, 113 + 144

Note: DAVIS will not collect background samples for HRS package today due to weather conditions DAVIS reviews data on soil characteristics and locations for background (bg) samples on topo. bg samples are to be collected ≈ 3-4 miles from boundary of site. See topo for location. Monthly Status Rpt also being updated, + other data/site management issues.

Note: 4 IT volvo trucks running, 2 excavators, 1 bulldozer

1447 IT completed cell #60 #100

1500 DAVIS goes to RG to collect samples from cells #100 + #60

3/2/02 G9011.L.01.0063.00

Note: KDHE faxed Lunger the field sheets and analytical results for a property located at the SE corner of RCis. Address is 700 W 2nd ST. All sample locations were below 400ppm (taken with Niton) Also, DAVIS TOSC agree to having IT excavate 3 6"-12" in cells where average of Niton readings is above 1000ppm, All other cells (↓1000ppm) to be excavated to a depth of 3 6"

1730 IT excavating #60 + #86 DAVIS to screen sampled cells in the morning, IT + DAVIS depart site

Ted Davis
3/2/02

3/3/02 G9011.L.0063.00

0700 DAVIS goes to walmart for supplies (supplies were not available at 6:45AM)

0730 DAVIS arrives on-site. IT present, fueling equipment DAVIS calibrates Niton

Note: lab samples have been increased to 50 for lead analysis only. Total budget for analysis is $1350-

DAVIS homogenizes samples collected on 3/2 and screens 3x with Niton. Readings are as follows:

#114 @ 1030: <48(ND); <52(ND); <49(ND)

#60 @ 1515: 158±50; 112±49; 125±46

#100 @ 1530: 63±38; 66±40; 94±42

#145 @ 1130: <38(ND); <29(ND); <35(ND)

0830 1 excavator is losing power, mechanic from Hurty to come either today or tomorrow when small bulldozer is picked up water truck switched out. Excavator is still running, just slower.

0930 DAVIS takes readings with Niton on Factory Standards, NIST. Readings are as follows:

High: 4660±310; 4950±330; 4540±290

3/3/02 G9011.L.01.0063.00

Medium: 1050 ± 120; 902 ± 110; 1010 ± 110

Low: <42 (ND); <41 (ND); <48 (ND)

0945 Davis averages Nitan readings and enters into spreadsheet.

1000 Currently IT still excavating Cells #86 + #61. Equipment is being refueled. Excavator is running ok, some short surges of low power - possible fuel filter problem.

1030 Davis goes to RG + Cushenbery residence at 730 W 3rd to try + obtain access to sample property

1115 Davis calls Cushenbery residence no answer

1130 Davis goes to video w/ 1st St residences

Note: too much snow cover to video tape residences. Davis takes photo (#103) of Valverde property with New trailer - running east to west and old trailer still in yard. S24 + S20 Front St. Valverde bought S24 Front St property after prior owners trailer burned

1200 One IT member is sick. 3 trucks now running on-site. Davis takes

3/3/02 G9011.L.01.0063.00

lunch

1230 Davis returns from lunch + goes to RG to sample cells #61 + #86. IT to begin excavation on cells #74 + #87. Davis tries to reach Cushenbery residents - not home.

1300 Davis takes photo of repository #102. See page 46 of this log book for photo log.

1315 Davis phones Mr + Mrs Reilly, who own Pondero's (lease) lot by RG, to notify them that START will be sampling there tomorrow. small gate is unlocked for access into property.

Note: Davis spoke with Valverde's son re: sampling at former trailer location to see if area is ↑ 400ppm. Valverde's son said he would notify his father if that would be ok.

1335 Davis goes to collect background (BG) samples for this package. Samples to be collected 3-4 miles from boundary of former

3/3/02 G9011.L.01.0063.00

Zinc smelter. Soil characteristics to be noted and sample location will be marked on site topo map. See field sheets

1430 DAVIS arrives at sample location for bg north. photo #101 see field sheet for info.

1500 DAVIS arrives ~~at~~ BG sample location west. located ≈0.3 miles south from intersection CR 5200 + CR 4900. taken across from HOLT residence. sample location on east side of road

1545 DAVIS arrives at bg - east sample location. Located 0.1 mile south from CR 2000 / 5200 + Anderson intersection. sample taken from west side of road, across from residents of McCONNELL

Note: DAVIS needs to pick up Liberty topo from county prior to collecting BG-south sample, for distance + direction

1600 DAVIS returns to site. IT still excavating cells #74 + 87

DAVIS looks up soil characteristics. Are as follows:

3/3/02 G9011.L.01.0063.00

Site soil types:
Qu, Db

Background samples:
NORTH - Sc
WEST - Ba
SOUTH - Db
EAST - Ba

1720 DAVIS speaks with OSC and updates him on site status

1730 IT crew departs site

Excavation crews still working on #87 + #74, going slower due to cold weather

Weather: sunny, winds from NW 15-20 mph, high ≈ 16°F

1745 DAVIS departs site for day

3/3/02

3/4/02 G9011.L01.0063.00

0700 DAVID arrives on-site IT present. IT has safety meeting

Weather: sunny, winds 7/10-15 mph from S/SW, highs ≈ 40°F

IT Running 4 trucks today, 2 Excavators 1 bulldozer

0730 DAVID calibrates NITON and takes readings on NIST factory standards. Readings are as follows:

high: 4770 ± 320; 4790 ± 320; 4880 ± 320

medium: 914 ± 120; 948 ± 120; 1060 ± 130

low: <42 (ND); <52 (ND); <45 (ND)

DAVID homogenizes samples collected on 3/3/02. XRF readings are as follows:

#61 @ 1255: 53 ± 35; <47 (ND); <48 (ND)

#86 @ 1240: 438 ± 81; 358 ± 74; 436 ± 82 Avg is 416 ppm scrape ≈ 2.3"

0930 DAVID takes readings on background samples collected on 3/3/02 for TRS package. Readings are as follows:

Background - east - <51 (ND) <48 (ND); <46 (ND)

background North - <59 (ND); <51 (ND); <56 (ND)

Background South:

3/4/02 G9011.L01.0063.00

Background - West - <46 (ND); 74 ± 41; <55 (ND)

1000 DAVID samples cell #87

IT scrapes cell #86 b/c ≈ 400 ppm

1115 fuel truck on-site. Equipment being refueled. Mechanic is on-site repairing brakes on Volvo truck + putting in antifreeze in air lines. Sample times for BACKGROUND (BG) samples are as follows:

North = 1430

South = N/A (not yet collected

EAST = 1545

WEST = 1500

1210 DAVID goes to lunch

1230 DAVID returns from lunch, reviews IT invoice

1245 DAVID calls in Fedex pickup (#22). Samples to be picked up from hotel due to out 6 hour window on pickup

DAVID prepares samples + fills out field sheets

1330 cell #74 completed / excavated

Note: Hertz fixed Volvo truck brakes another Hertz mechanic to arrive

3/4/02 G9011.L.01.0063.00

tomorrow morning to fix excavator that is running slow. ≈ 9-15 aliquots are being collected per cell

1500 DAVIS collects sample from cell #74 and goes to Motel to drop off samples for FEDEX pickup. Water truck + small bulldozer is downed for pickup by Hertz, tomorrow

IT excavating cells #75 + #86

1600 DAVIS homogenizes sample #87 + screens. Readings are as follows:

#87 @ 1000: 78 ± 40; 80 ± 41; 93 ± 42

#74 @ 1510: < 53(ND); < 60(ND); < 52(ND)

Road is scraped by entrance to RG

1700 DAVIS collects sample from #86 - resampled - and allows to dry prior to screening

1730 DAVIS departs site for Motel

IT is gone

3/4/02

3/5/02 G9011.L.01.0063.00

0700 DAVIS arrives on-site. IT present + has safety meeting

Weather: sunny, high ≈ 50°F, winds 5-15 mph from South

0730 DAVIS calibrates Niton

IT excavating #88 to 101 + #75

0800 DAVIS takes readings on NIST factory standards with Niton. Readings are as follows:

High: 4700 ± 310; 4500 ± 300; 5010 ± 320

Medium: 1030 ± 110; 960 ± 120; 989 ± 110

Low: < 51(ND); < 50(ND); < 50(ND)

DAVIS updates field sheets + averages data

0820 DAVIS homogenizes sample (resampled) from cell #86. Readings are as follows: collected 3/4/02

#86 @ 1712: < 48(ND); < 47(ND); < 36(ND)

Note: DAVIS drove by Cushenbery property for access on 3/4/02, no one home

DAVIS phones Cushenbery residence for access, no answer

0900 DAVIS preps background sample for FedEx pickup (Pickup #10)

0920 DAVIS goes to RG to check status

3/5/02 G9011.L.01.0030

1900 DAVIS phones persons airport to find out information on aerial fly over of site. DAVIS performs site management issues / data control

1130 DAVIS collects sample from cells #101 + #75. IT currently is excavating cells #62 + #115

Note: Man by the name of Mr. Trost to return Davis' phone call re: aerial fly over on 3/6/02

Note: Fly over does not need to be stereographic, not to scale

1215 DAVIS talks with OSC and updates him on site progress

Also, Hertz was on site this morning and switched out the water truck, picked up small bulldozer and changed the oil + fuel filter on Belco excavator

DAVIS takes lunch

1230 DAVIS returns from lunch

1300 DAVIS goes to Ponderosa to collect samples from 8-25' x 30' foot cells and performs site sketch and video w/ ↑ 400ppm

1350 DAVIS goes to cell 62 to sample from

3/5/02 G9011.L.01.0063.00

cell #62, post screening. Ponderosa has been sampled + sketched. samples are drying prior to being screened with Niton. DAVIS collected 9-12 aliquots per cell.

Note: KOHE was suppose to be on site today and have not arrived

1615 DAVIS homogenizes samples #101 and #75

#101 @ 1130: <48(ND); <46(ND); <51(ND)

#75 @ 1145: <54(ND); 98±41; 101±44

1730 DAVIS departs site. DAVIS will screen Ponderosa + #62 ~~screened~~ ID tomorrow.

[signature]
3/8/02

3/6/02 G9011.L.01.0063.00

0708 David arrives on-site. IT present. Safety meeting

0715 John Hill, IT Volvo truck driver, is having his physical this morning and will not be on-site until late morning

3 Volvo trucks running, Excavator, 1 bulldozer

Weather: high in mid 50's, ± 5-10 mph winds from SOUTHEAST, partly cloudy

0725 David calibrates Niton and takes readings on standards. Readings are as follows:

high: 4610±310; 4670±310; 4140±280

medium: 956±120; 1070±120; 1010±120

low: <45(ND); <49(ND); <51(ND)

0900 IT finishes call #115

David prepares Background sample west for Fedex pickup. Pickup #18

0940 David homogenizes sample #62 collected on 3/5. Readings are as follows.

#62 @ 1605: <42(ND); 49±27; <51(ND)

David takes readings on Ponderosa samples after homogenizing

3/6/02 G9011.L.01.0063.00

XRF Readings are as follows:

Quad A @ 1430: 778±93; 695±94; 660±75 BJD

Quad B @ 1445: 417±73; 494±79; 539±78

Quad C @ 1500: 399±70; 431±74; 455±70

Quad D @ 1515: 484±72; 538±88; 485±79

Quad E @ 1530: 547±78; 454±80; 469±52

Quad F @ 1545: 345±63; 399±64; 410±68

Quad G @ 1600: 528±79; 642±88; 536±80

Quad H @ 1615: 542±79; 495±75; 491±73

IT done with call #63, crews working on #88 + #76, Excavation to be at a depth of 1'-1½' due to ruts from Volvo trucks and readings ↑ 1000 ppm

1230 fuel truck on site

1245 David takes lunch

1300 David returns from lunch

David phones John Davolt at Independence Airport and gets quote for Aerial fly over $125/hour, 1 day advance notice

3/6/02 G9011.L.01.0063.00

phone #620.331.8832
1330 DAVIS phones lab re non-delivery
Lab did not receive DAVIS departs
for hotel + walmart for supplies.
Hoen may have samples. DAVIS arrives
at hotel. samples were picked up
yesterday, DAVIS calls Fedex, again
no trace on samples having been
picked up. DAVIS checks packages
picked up today - coolers were picked
up today instead of Monday.
1430 DAVIS goes to RG + collects
samples #115, #63, #88,
1540 KOHE is on-site, they have
pulled 3 monitoring wells along the
highway and are now pulling (MW)
Monitoring well from N end of
repository. IT is bulldozing a
road down to well location.
Note: IT to Bulldoze building
at Repository, smaller building
further west and Mike on dozer
to level out ruts in field, all
to take place after 5pm today.
1600 DAVIS takes photos of MW
abandonment at repository. Steps - 45

3/6/02 G9011.L.01.0063.00

1620 DAVIS homogenizes samples
collected from #63 + #115 and takes
reading. Readings are as follows:
#115 @ 1500: <43(ND); <52(ND); <43(ND)
#63 @ 1515: 236±56; 361±65; 236±57
1645 DAVIS collects sample from
cell #76. IT excavating cells #89
and beginning on #77. DAVIS
allows samples to dry.
1715 ~~DAVIS~~ updates OSC on
field activities
1730 DAVIS goes to repository to
photo demo of concrete bldg.
KOHE has abandoned 3 wells
inside RG and 1 well on east
fence line. Road to RG entrance
has been scrapped + bulldozer
is smoothing out ruts in RG
from Volvo trucks
1810 DAVIS homogenizes #76 and takes
Reading. Readings w/ Niton #63
are as follows:
#76 @ 1645: <56(ND); <33(ND); <46(ND)
1845 DAVIS departs site for hotel

[signature]
3/6/02

3/7/02 G9011.L.01.0063.00

0700 DAVIS arriving on site. CT present. have safety meeting.

NOTE: DAVIS phoned Judy Tyler last night to notify her that Davis will be sampling 50' from her house and assistant off with 34 cells. If cells ↑ 400ppm then Davis will site sketch and video

Weather: cloudy, winds 5-25 mph from East to switching to south, high expected to be in mid 50's, chance of showers 10%.

Note: Mrs Tyler stated that the Cushenberys own the only video store in town and Doyle Tyler works for the sanitation department Mrs Tyler believed that they would be interested in having there house sampled

0730 DAVIS calibrates Niton & takes readings on standards (NIST)

High: 4930±290; 5010±330; 4580±310

Medium: 930±110; 917±120; 976±120

Low: <54(ND); <44(ND); <40(ND)

NOTE: SEE LOG BOOK #7 FOR CONTINUED ENTRIES TO SITE

Photo log (cont'd) →

date	time	frame	description	direction
3/6/02	1600	98 (39)	MW abandonment by KOHE - looking west	W
3/6/02	1602	97 (40)	MW abandonment by KOHE - looking W	W
3/6/02	1603	96	concrete bldg walls at repository	SE
3/6/02	1604	95	MW abandonment pouring bentonite (KOHE)	W
3/6/02	1605	94	Repository - looking SE	SE
3/6/02	1730	93 (44)	demo of concrete bldg at Repository - looking NE/E	E/NE
3/6/02	1732	92	" " looking SE	SE
3/6/02	1735	91	" "	SE
3/6/02	1747	90	RGS - looking SW at excavated field	SW
3/6/02	1748	89	RG - looking SW	SW
3/6/02	1748	88	RG - looking SE	SE

Photo LOG

date	time	frame	description
3/1/02 ~~3/3/02~~ JD	0859	#104	concrete walls + foundation at repository - to be demolised - looking west
3/3/02	1150	#103	Valverde property S24 + S20 W Front new trailer, running east + to west, w/ old trailer (to be moved) in yard - looking NE
3/3/02	1300	#102	Repository, concrete walls to be demolished - looking NE
3/3/02	1432	#101	Background (BG) sample (North) location - looking SW, 0.1 mile west, on south side of rd, from intersection CR5800 + CR5500
3/3/02	1500	#100	BG sample - West location looking East
3/3/02	1545	#99 ~~#98~~ JD respectively	BG sample ~~50~~ JD East - looking west

CLEAN CELLS AT Rocky Ground

cell # => 1, 2, 13, 14, 15, 16, 26, 27, 28, 40, 41, 54, 55, 112

See spread sheet JD

Excavated Cells that are ↓ 400 ppm / CLEAN

~~1, 2~~ JD, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, ~~13, 14,~~ ~~15, 16~~ JD, 17, 18, 19, 20, 21, 22, 23, 29, 30, 31, 32, 33, 34, 43, 44, 45, 46, 47, 48

See spread sheet JD

48 (Cont'd logbks) Lead Analysis only

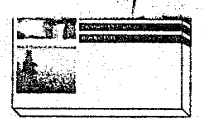
SAMPLE LOG (Also see attached)

Sample #	DATE	TIME	LOCATION	Description
113RG	1/29/02	1650	~~Rodeo Ground~~ 13	RG
111RG	1/29/02	1638	111	RG
147RG	2/9/02	1430	147	RG
157RG	2/9/02	1715	157	
144RG	2/9/02	1458	144	pre gun
145RG	2/9/02	1445	145	
138RG	2/9/02	1600	138	
100RG	3/2/02	1530	100	RG
60RG	3/2/02	1515	60	RG
114RG	3/2/02	1030	114	RG post
145RG	3/2/02	1130	145	RG
Background W	3/3/02	1510	West - 3 mi	See field data
Background N	3/3/02	1430	North - 3 mi	" "
Background E	3/3/02	1545	East - 2 mi	" "

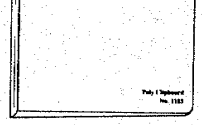
Lead analysis only

SAMPLE LOG - Selected Attachment

SAMPLE #	DATE	TIME	location	description
NZ-38RG(T)	1.17.02	10:47	38 pre	Rodeo Ground
NZ-43RG(T)	1.17.02	11:33	43 pre	RG
NZ-15RG(T)	1.18.02	1010	15 pre	RG
NZ-42RG	1.28.02	1330	* 42 (pre lab)	RG
NZ-8RG	1.24.02	1745	8 (4T) post	RG
NZ-53RG	1.24.02	1300	53 pre	RG
NZ-52RG	1.24.02	1250	52 pre	RG
NZ-51RG	1.24.02	1242	51 pre	RG
NZ-46RG	1.24.02	1155	46 pre	RG
NZ-49RG	1.24.02	1225	49 pre	RG
NZ-10RG	1.25.02	1630	10 post	RG
NZ-56RG	1.25.02	1330	56 pre lab	
NZ-68RG	1.26.02	1150	68 pre lab	
NZ-69RG	1.26.02	1140	69 pre lab	
NZ-70RG	1.26.02	1130	70 pre lab	
NZ-93RG	1.26.02	1315	93 pre	
NZ-94RG	1.26.02	1310	94 pre	


COPIER PAPERS

GRID SHEETS


POLY-CLIPBOARDS

Field data . . .if its worth collecting, its worth protecting.

NIST - H - 5523 ± 80
M - 1162 ± 31
L - 18.9 ± .5

1/

XRF Screening

Date	cell #	Readings - Pb - ppm
2/22/02	NIST - H	4920 ± 110, 4980 ± 170, 4960 ± 140
"	NIST - L	<20, 29.8 ± 15, 28.6 ± 14
"	42	28.4 ± 15, 25.5 ± 15, 18.8 ± 12
2/23/02	NIST - M	1000 ± 51, 1000 ± 52, 1000 ± 52
"	56	<19, 46.1 ± 15, 33.8 ± 14
"	35 (re-exc)	25.7 ± 15, 36.8 ± 15, 40.6 ± 16
"	36 (re-exc)	36.9 ± 15, <21, 24.9 ± 15
"	57	44.6 ± 15, 65.6 ± 17, 64.1 ± 16
"	49	292 ± 28, 245 ± 26, 211 ± 24
2/24/02	NIST - M	1000 ± 52, 969 ± 52, 1040 ± 54
"	50	248 ± 27, 266 ± 28, 206 ± 25
"	58	48.5 ± 16, 42.8 ± 15, 51.6 ± 16
"	68	101 ± 18, 96.6 ± 18, 82.5 ± 18
"	69	67 ± 17, 57.5 ± 16, 62 ± 16
"	138	148 ± 22, 182 ± 24, 180 ± 24
2/25/02	NIST - H	5000 ± 140, 4760 ± 140, 5000 ± 150
"	59	65.1 ± 17, 72.1 ± 18, 35.4 ± 15
"	70	111 ± 20, 145 ± 22, 136 ± 21
2/26/02	- M - NIST -	1020 ± 55, 1000 ± 53, 996 ± 53
"	124	183 ± 24, 210 ± 26, 182 ± 24
"	125	79.7 ± 19, 69 ± 19, 59.2 ± 18
"	71	248 ± 28, 188 ± 25, 215 ± 27
"	72	156 ± 23, 166 ± 23, 174 ± 23
"	110	51.8 ± 16, 44.4 ± 15, 39.5 ± 15
"	73	111 ± 21, 126 ± 21, 141 ± 22

2/

Date	cell #	Readings - Pb - ppm
2/27/02	NIST - L	<22, <21, 37.1 ± 16
"	141	84.1 ± 19, 120 ± 21, 64.4 ± 17
"	82	204 ± 28, 218 ± 28, 232 ± 28
"	142	150 ± 23, 143 ± 22, 120 ± 21
"	83	64 ± 17, 59.4 ± 17, 62.2 ± 17
"	143	74.4 ± 18, 79.5 ± 18, 80.4 ± 18
"	96	209 ± 27, 173 ± 24, 246 ± 27
"	127	133 ± 23, 120 ± 21, 126 ± 22
2/28/02	NIST - M -	975 ± 52, 1010 ± 54, 1010 ± 55
"	97 -	34.2 ± 16, 46.8 ± 17, 33.2 ± 15
"	98	39.6 ± 15, 49.9 ± 17, 33.5 ± 15
"	128	72.8 ± 18, 76.7 ± 18, 78.6 ± 19

"Rite in the Rain"®

ALL-WEATHER WRITING PAPER

HORIZONTAL LINE

All-Weather Notebook

No. 391

RODEO GROUNDS + SURROUNDING RESIDENCES

LOG BOOK #7 OF 7

NATIONAL ZINC SITE

CHERRYVALE, MONTGOMERY

COUNTY, KANSAS

PROJECT NO.: G4011.L.01.0063.00

4 5/8" x 7" - 48 Numbered Pages

COPY

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

~~Name~~

~~Address~~ TETRA TECH
8030 FLINT ST
LENEXA, KS 66214
(F) 913.894.6295

~~Phone~~
JEFF OLEN => lab

~~Project~~ SEAGULL ENV.
FEDEX # 216551842
11905 Gillette ST
OP, KS 66213-2379

Yellow Polyethylene Protective Slipcovers (Item #31) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE	REFERENCE	DATE
	NZ SITE:	
	604 N. LIBERTY	
	Cherryvale, KS 67335	
EPA	# => (O) 620.336.8954	
	(F) 620.336.8956	
IT	# => (D) 620.336.8952	
	STAT ANALYSIS LAB	
	2201 W CAMPBELL ST	
	PARK DRIVE, STE 315	
	CHICAGO, IL 60612	
	# => 312.733.0551	
	CONTACT: BRETT NICHOLAS	
	MUCOTEL	
	2917 W. Main ST	
	Independence, KS 67301	
	# 620.331.0088	
	IT FEDEX ACCOUNT #	
	129933895	

3/7/02 G9011.L.01.0063.00

Note: Entries continued from log book #6

0900 Davis homogenizes sample #88

XRF readings are as follows: (collected on 3/6)

#89 @ 1530: 68±38; <46(ND); ~~<42(ND)~~; <35(ND)

Davis phones John Davolt re: aerial photo of site. Mr. Davolt does not have photo equipment, we would have to supply him with camera. However, Davolt gave name of retired pilot who is known for taking aerial photos. His name is Doyle Plute #620-331-1618. Davis phones and leaves a message with his wife. To return call.

1000 Mr. Plute returns phone call time = $60/hr, plane rental: $120/hr, photos => 8x10 = $20/ea, 11x14 = $30-$80/ea, 16x20 = $80 to $100/ea. Morning are best time for fly overs, 1-2 day advance notice.

1030 Davis goes to RG, cell #87 is excavated. Davis collects sample and allows to dry.

1110 Davis samples cell #77. In cell #89 a tree exists that has been excavated around although visible

3/7/02 G9011.L.01.0063.00

signs of chert/slag are on top ≈5" of soil where tree is. Davis also noted areas in excavated cells where visible signs of chert/slag are present. Davis to screen tree in situ and collect samples in cells where visible signs of slag are present.

1150 in situ readings in cell #45 are: 996±140; 496±100; 583±130

1200 IN situ reading in cell #89 around tree are: 702±120; 412±110; 486±94; 544±110

IT excavating cell #90 + #64. Post scr x2 is:

#46 @ 1206: 128±45; 74±36; 60±37

#45 @ 1158: 63±37; 73±27; 55±33

Note: water truck spraying gravel roads around RG

1230 Davis phones OSC re: tree + slag area. OSC said to remove tree

1240 Davis takes lunch

1300 Davis returns from lunch and goes to cell #90 where slag is present at 1½' Davis to screen in-situ. Readings are as follows:

<40(ND); <53(ND); <55(ND); <54(ND)

1330 Davis resamples cell #89 after excavation of

3/7/02 G9011.L01-0063.00

free

1355 Davis goes by video store off of main st in chanyvale for access to Cushenberry property. Cushenberry's own store. Store closed

1410 Davis arrives at 726 W 3rd st To Quadrant of 50' from house, in each cardinal direction. Tyler residence.

1520 Davis completes sampling at 726 W 3rd and speaks with Mr. Cushenberry re: sampling his residence. He will speak with his wife and Davis will call him tomorrow night at Video store.

1622 Davis collects sample from cell #64

~~1627~~ 1640 Davis collects samples from cell ~~#90~~ to #90, IT excavating cell #151 + #102.

1715 Davis screens cell #89

#89 @ 1330: <50 (ND); <48 (ND); <53 (ND)

1745 Davis departs site for hotel

Note: Davis phones OSC and gives daily update

I Dav 3/4/02

3/8/02 G9011.L01.0063.00

0700 Davis arrives on site. IT present. Have safety meeting

0715 Davis calibrates Niton and takes readings on NIST factory standards. Readings are:

High: 4730 ± 310; 4540 ± 300; 4900 ± 330

Medium: No Reading taken

Low: <40 (ND); <46 (ND); <49 (ND)

Weather: partly cloudy, high in mid 60's, severe thunderstorms expected this afternoon, winds à S-15 mph from S/SW

Davis homogenizes samples collected on 3/7/02. Readings with Niton are as follows:

#77 @ 1110: <23 (ND); <39 (ND); <43 (ND)

#64 @ 1627: 63 ± 39; 149 ± 43; 102 ± 41

#90 @ 1640: <49 (ND); <54 (ND); <43 (ND)

0844 Davis homogenizes samples from resident at 726 W 3rd and takes readings with Niton #63. Readings are as follows:

Quad A @ 1440: 100 ± 43; 111 ± 41; 105 ± 43

Quad B @ 1450: 114 ± 40; 124 ± 45; 103 ± 43

Quad C @ 1500: 158 ± 46; 194 ± 52; 133 ± 45

Quad D @ 1515: 196 ± 51; 118 ± 38; 235 ± 59

3/8/02 G9011.L01.0063.00

0930 DAVIS performs sample management and averages readings and enters into spreadsheet.

NOTE: IT excavating #151 + #116 while with IT took personal day, DALE ERLETE, Response Manager, is running bulldozer. IT continues to run 4 Volvo trucks, 2 excavators, 1 water truck + 1 Bulldozer. 1420 truck runs when needed

1030 DAVIS collects BG-SOUTH sample at intersection of CR 5500 + CR 4400 sample collected ON N side of road ≈ 1.4 miles from Hwy 169, by RR tracks see photo log on page 47

1100 DAVIS phones in FedEx pickup pickup #27 for delivery of BG-S sample

FUEL TRUCK TO ARRIVE TODAY

1145 DAVIS collects sample from #151

IT Excavating cell #152 + #116

1206 DAVIS collects sample from cell #102

1225 DAVIS takes lunch

1255 DAVIS returns from lunch

3/8/02 G9011.L01.0063.00

DAVIS pulls flags from cells marked at 726 WGV2 ST SWCE PROPERTY is ↓ 400 ppm

1400 DAVIS homogenizes sample #151, Readings are as follows:

#151 @ 1155: ≤40(ND); 69±34; <48 (ND)

1500 Water truck being used in RGS and on gravel road to entrance of RGS

DAVIS performs site management issues

1650 DAVIS collects sample from cell #152

Reading on cell #102 are as follows:

#102 @ 1206: <49(ND); <40(ND); <40(ND)

IT excavating cell #116 + #153

1730 DAVIS departs site for hotel

THERE (1) video
(2) average cell #102
(3) sample #116

3/8/02

3/9/02 G9011.L.01.0063.00

0700 DAVIS arrives on site IT present + have safety meeting

Note: severe thunderstorms occurred last night, conditions are very wet.

Weather: ≈23°F, sunny, high in low 40°F, winds up to 40 mph from west

0730 DAVIS calibrates Niton and takes reading of factory, NIST, Standards. Readings are as follows:

high: 4770± 320; 4570± 310; 4630± 310

MEDIUM: 1090± 130; 1030± 120; 990± 120

LOW: <46(ND); <48(ND); <50(ND)

IT excavating cells #153 and finishing up #116

0820 DAVIS takes reading on cell #152

#152@ 1650: <46(ND); <56(ND); <55(ND)

DAVIS averages readings and enters into spreadsheet

0940 DAVIS collects sample from cell #116. IT now excavating #130

Davis allows sample to dry, DAVIS phones Cushenberg's and leaves message.

1200 DAVIS collects sample from cell #153 and allows to dry

1215 DAVIS takes lunch

3/9/02 G9011.L.01.0063.00

1230 DAVIS returns from lunch and goes to Borrow Pit to check. - OK

1330 DAVIS goes to RG Cell #130 where gas line + former water line are present. Old water line has black glag. Niton Readings are around 7000 ppm. DAVIS has pipe removed

1415 DAVIS has IT remove piping + screens, in situ, former pipe area. OK

1440 DAVIS returns phone call from Cushenberg's (Jodi) and explains procedure + progress to resident. DAVIS to meet Cushenberg at 2pm Sunday, March 10th

1530 DAVIS previously scanned a few cisterns at RG. in area North of #116. Cistern reading ranged. ≈ 5000 ppm up to 12,500 ppm

DAVIS takes XRF reading with Niton #63 on cells #153 + #116. Readings are as follows: XRF

#153@ 1200: <42(ND); <39(ND); <44(ND)

#116@ 0940: <42(ND); <48(ND); <45(ND)

1600 DAVIS performs site data management issues

3/9/02
IT excavating #130 + #146
IT sprays road with water
+ RG field on North end
1700 DAVIS collects samples
from cell #146 and #130
1745 DAVIS departs site for hotel
and will screen samples after drying
Note: DAVIS went by video store to
get access to Cushenbery property prior
to them returning DAVIS' message

3/9/02

3/10/02 G9011.L.01.000300
0900 DAVIS speaks with Dale,
Response Manager IT regarding
tasks, IT excavates cells
#131 + #147.
1200 DAVIS screens cells
#130 and #146 with Niton #63
after calibrating instrument.
SAMPLES were collected on 3/9/02.
Readings are as follows:
#130 @ 1715: <32(ND); <51(ND); <52(ND)
#146 @ 1730: <46(ND); <45(ND); <45(ND)
IT completes excavation on
cell #131 + #147
DAVIS shoots standards, NIST, are:
High: 4730 ± 310; 4620 ± 290; 4600 ± 290
Med: 1020 ± 120; 980 ± 120; 951 ± 110
Low: <41(ND); <49(ND); <50(ND)
1330 DAVIS collects samples
from cell #147 + #141
1355 DAVIS allows samples to dry
and meets with Cushenberys to
obtain access and screen possibly,
within 50' from house
1400 Mr. Steve Cusenbery asked DAVIS
to return at 1500.
DAVIS reviews video taped areas + photos

3/10/02 G9011.L01.0063.00

DAVIS leaves VM message at EPA on OSC DON Lineyer's (voice mail) DAVIS mentions high readings in cistern and potential for housing developement with basements and groundwater contamination. DAVIS recommends excavating on cistern to its full depth, and depending on depth, remove slag in cistern. OR, deny sign off on area where cisterns are present. DAVIS also mentioned the road to entrance of repository and RGS. Gravel is scrapped daily from site. Area is getting low and may need a load of Rock.
1420 DAVIS updates field sheets w/ post-excavation video info
1457 DAVIS departs command post for Cushenbery property. Jodi Cushenbery (W) # 331 4920 x3. DAVIS drops off access agreement + obtains verbal access to sample property. DAVIS Quadrants off 4 cells at property 50' from house and collects samples. DAVIS to phone Cushenbery, Jodie by 9AM with the analytical results. DAVIS will leave another VM

3/10/02 G9011.L01.0063.00

for OSC re: cushenbery property being sampled and the Cushenberry's are interested in getting 6 acre lot sampled as well. Jodi Cushenbery mentioned that they are looking at other properties to buy. Cushenbery address is 730 W. 3rd St
1620 DAVIS takes Readings on cell #146 + #131. Readings are as follows:
#146 @ 1330: 42(ND); <46(ND); <43(ND)
#131 @ 1345: <39(ND); <44(ND); <47(ND)
1710 DAVIS goes to sample cells #117 + #148. Water truck RAN today.
DAVIS speaks with OSC and updates him on field activity. DAVIS mentions the lock at intersection, cusherbery property and OSC said to lay out N fence line at Cushenbery property with Stakes/flags IT excavating cells #132 and to begin cell # 103. Also, OSC to notify property owner.
1800 DAVIS departs site for hotel

(1) fence at cushenbery
(2) video
(3) sample

DAVIS
3/10/02

3/11/02 G9011.L.01.0063.00

0700 DAVIS arrives on-site. IT present & has safety meeting. DAVIS calibrates Niton #63.

0720 DAVIS shots Niton, NIST, standards. Readings are as follows:

high: 4870 ± 300; 4900 ± 330; 5050 ± 330

med: 886 ± 110; 972 ± 120; 907 ± 120

low: <411(ND); <521(ND); <415(ND)

0730 DAVIS gathers field sheet information and fly over info for OSC. DAVIS to depart site today at noon and OSC to arrive on site sometime today.

0815 DAVIS takes readings on 730 W 3rd ST, Cushenbery residence. Readings are listed below.

DAVIS speaks with OSC, update. IT orders load of rock to be put down at entrance to RG & reporting, on gravel road.

Quad A @ 1530: 394 ± 68; 134 ± 47; 252 ± 61

Quad B @ 1615: 217 ± 54; 184 ± 49; 188 ± 50

Quad C @ 1600: 278 ± 62; 362 ± 67; 288 ± 62

Quad D @ 1545: 457 ± 74; 370 ± 67; 332 ± 65

0900 DAVIS phones Mrs. Cushenbery with analytical results around house

3/11/02 G9011.L.01.0063.00

and ask for permission to quadrant off 6 acre lot and to sample. Mrs. Cushenbery states that their sheep would be an issue for DAVIS to quadrant off cells. She stated that they would constantly bother DAVIS and that the buck would attack. DAVIS will attempt to quadrant off area to North of house and just North of shed to RG fence line. DAVIS to use wooden stakes instead of flags so sheep don't eat stakes.

1000 DAVIS goes to cell #103 to screen dark spots in cell, in situ. Davis told IT to excavate further. some readings @ 700 ppm to 1000 ppm. Excavate to ± 2'-3'

1015 DAVIS goes to residence for supplies

1045 DAVIS screens cells #148 & #117

Readings are as follows:

#148 @ 1720: <49(ND); <49(ND); <59(ND)

#117 @ 1735: 54 ± 35; <37(ND); <53(ND)

Note: samples were collected on 3/10

1100 Fuel truck on-site

DAVIS goes to RG to collect sample

3/11/02 G9011.L.01.0063.00

From #132. IT goes deeper in cell #103 by 36". DAVIS tells Huck, IT Excavator to stay deep in cells #104, #118 due to high pre-screen numbers and Smithy, IT excavator can stay at same depth. DAVIS has pipe (old H_2O line) pulled from cell #132.

NOTE: 3 loads of rock have been dumped at entrance to RG + Repository on gravel road.

1155 DAVIS takes Reading on cell #132. Readings are as follows:

#132 @ 1100: <46(ND); <45(ND); <43(ND)

1230 DAVIS packaged samples for lab analysis - from Ponderosa pre-screen

1240 DAVIS phones STAT Analysis. Results to be faxed + e-mailed this afternoon

1250 DAVIS goes to 730 W 1st to quadrant of cells behind Shed

~~1323 DAVIS packages samples for lab~~

Cells at Cushenbury property are 80' x 90'.

1350 IT needs in situ screening at #103

3/11/02 G9011.L.01.0063.00

RG. DAVIS goes to screen with Nitra #63 in SITU. Readings are below 400 ppm. DAVIS tells Huck w/ IT to shallow up and any questionable areas can be screened IN SITU by OSC

1430 DAVIS departs site for KC. OSC to arrive on-site sometime today.

task(s): (1) video w/ 1st ST properties + Ponderosa
(2) photo cisterns
(3) ERS
(4) video documentation
(5) Cushenbury property, lay out cells + sample
(6) FEDEX samples

3/11/02

3/13/02 G9011.L.01.0063.00

0740 DAVIS speaks with OSC at 0730 am regarding site status. Cells #133, 134, 136, 137, 103, 104, 118 are excavated and clean. IT to demob site on Friday (3/15) and Remob on Tues (3/18) DAVIS will speak with OSC next tues to discuss her schedule. DAVIS + OSC Estimate ≈ 2-3 weeks left of site field work.

1300 DAVIS drops off samples from Ponderosa (B+F) to FEDEX INKC

3/25/02 G9011.L.01.0063.00

0830 DAVIS departs office for NZ site.

1200 DAVIS arrives on site. OSC + IT present. EPA surveyor DAN Harris will arrive on site after lunch. An EPA assistant Dan Laurelli will assist in surveying activities

weather: ≈ 29°F, high in low 30's, chance of snow this afternoon

OSC has calibrated Mton. cells #37, 38, 39 and #53 are left to be excavated, OSC collected sample from #52. IT excavating cell #53 presently. One excavator is digging soil from RG and 1 Emmert truck to dump at cisterns.

2 volvo trucks on site, 2 excavators, 1 loader, 2 dewatered.

Surveying to between on cisterns + topo.

OSC to depart site for KC at 1330.

Crew to tentatively depart site on Thursday for break. All cisterns to be backfilled, temp road to repository to be dug up, and all cells to be excavated at RG

3/25/02 G9011.L.01.0063.00

Note: DAVID spoke with OSC intermittently over last 2½ weeks re: site status

1300 DAVID does site drive through loader spreading rock at 620 N Liberty and rock dumped at Valverde property. Pool at Hale property has been demolished.

DAVIS faxes bg fieldsheets to Kumud at Tetra Tech for HRS package. Davis will pickup aerials + topo for Kumud

1325 DAN Harris arrives on site

1330 DAVID helps to survey cisterns

1615 DAVIS, HARRIS + Laurelli finish surveying cistern locations in RG's. HARRIS + Laurelli depart site for hotel.

1695 DAVID post screens cell #S2 with Niton. Reading are as follows:

#S2 @ 1200: <50(ND); <51(ND), <58(ND)

1715 DAVID goes to collect sample from cell #S7

1745 DAVID departs site for hotel

3/25/02 ~~[illegible]~~

3/26/02 G9011.L.01.0063.00

0700 DAVID arrives on site IT present and has safety meeting. Weather: ≈ 38°F high in 40s

0720 DAVID calibrates Niton XRF. NOTE: OSC's reading and calibrations on cells while DAVID WAS off-site is attached in rear of this log book

DAVID shoots Niton NIST Standards on High, Med + Low. Reading are as follows:

High: 4860 ± 190; 4820 ± 290; 3410 ± 280

Med: 991 ± 110; 997 ± 120; 894 ± 110

Low: <48(ND); <42(ND); <51(ND)

~~1715~~ DAVID screens cell #S3. Reading are as follows

#S3 @ 1715: <48(ND); <30(ND); <41(ND)

IT running water truck. 2 Emmert trucks to arrive today

IT excavating cell #37.

Survey crew arrived on site and performing site setup

0800 DAVID goes to RG to help survey

1148 Surveyors complete exterior parameter to the N, W, E of RG

3/26/02 G9011.L.01.0063.00

and exterior topographic shots every 50' + step through row #8. OSC has arrived on-site and is collecting sample from cell #37.

1200 DAVIS takes lunch

1300 Davis returns from lunch Davis updates data correlation spreadsheet

1420 DAVIS takes XRF reading with Niton #63 on sample # 37, collected by OSC. Readings are as follows: 110 ± 45; 70.7 ± 36; 76 ± 38

Davis averages numbers from readings collected on samples from RGs samples were collected by OSC averages are entered into spreadsheet.

1700 DAVIS finishes updating files + spreadsheets and goes to RG to collect samples and take in-situ readings

surveyors (OSC, DAN L. and DAN Hamm) have finished RGs, put 2 points at 360-acre lot for parking area for the city and will shot a

3/26/02 G9011.L.01.0063.00

line in 200 feet from N. (N to S) Catherine (maybe tomorrow) and have already shot in 12" diameter pipe in RG at Martin Street entrance.

TASKS: (1) video tape Ponderosa + W. 1st.

(2) Sketch Cushenbury + Tyler

(3) call Lab RE BG-5 sample

(4) pickup topos + aerials for HRS

Note: line 200' from N. Catherine St is currently being surveyed on line runs from N to S across RGs

1736 All in-situ readings in cell #38 are (ND) non-detect. And, in-situ readings on west end of cell #39 are ND.

DAVIS allows sample to dry prior to screening with Niton. Gate at Ponderosa, along N Catherine St, is down for equipment to access property

1800 DAVIS departs site for hotel

End Day 3/26/02.

3/27/02 G9011.L.01-0063.00

0700 Davis arrives on-site, OSC + IT present. IT has meeting + safety meeting. 2 Emmert trucks, 2 Volvos, 2 excavators, water truck, and loader on-site.

Weather: approx. 37°F high in low 50's, winds 3-5 mph from S/SW sunny

Davis calibrates Niton and takes reading on Niton Nist Standards

High: 4650 ± 290; 4700 ± 300; 4740 ± 310

Med: 989 ± 110; 972 ± 120; 1030 ± 130

Low: <46 (ND); <47 (ND); <52 (ND)

IT excavating cell #39

0740 Davis homogenizes sample #38 and takes reading with Niton #63 Reading are as follows:

#38 @ 17ft: <53 (ND); <42 (ND); <41 (ND)

OSC is dealing with KDHE re: whether or not to cap the repository. If the repository is going to be moved by the newly discovered PRP then OSC may not cap. If going to remain then the repository will be capped and a parking lot, 200' x 200', will be

3/27/02 G9011.L.01-0063.00

covered with geofabric + rock for the city on the repository.

0800 Davis packages + enters samples to be sent to lab. Samples are entered on page 48 of this log bk. Samples to be delivered to Teledyne by Davis later this week.

0835 Davis does site drive through. Boundary at repository were taken down last week to expand repository. Rock has been delivered to site. Rock to be placed in Pondera + entrance to RG

0900 Davis sketches Cushenbery property

1020 Davis complete site sketch of Cushenbery property

1040 Davis enters XRF values on site sketch + photo copies for Cushenbery's + OSC

1047 Davis goes to sketch Tyler property at 726 W 3rd St.

Note: cisterns have been filled in with clean fill from Bob Chemsoil at RG's. IT almost completed excavation of cell #39

3/27/02 G9011.L.01.0063.00

1124 DAVIS completed ~~[illegible]~~ site sketch at Tyler variance, 72 & W3rd.

1127 IT completed last cell, #39 at RCG. DAVIS collects sample & allows to dry prior to screening. IT digging up ≅ 6" of rock b/w RG entrance & temp road entrance to repository. To be replaced with fresh rock.

1330 DAVIS breaks for lunch. OSC has departed site for KC. Hertz Rental is picking up Equipt from IT by March 31 due to IT bankruptcy. All Equip to be decon'd by March 31. Equip will be decon'd tomorrow. 2 Volvo trucks, 1 excavator, 1 water truck, 1 loader.

1300 DAVIS back from lunch does site file update.

DAVIS takes readings on cell #39. Readings are as follows: <44 (ND); <43 (ND); <41 (ND)

1400 DAVIS

1400 DAVIS loads up vehicle with field supplies. DAVIS has phoned OSC and he stated that DAVIS will not need to return to site next

3/27/02 G9011.L.01.0063.00

week.

1700 DAVIS does site drive through.

IT Excavating ditch at temporary road to repository. 1 Volvo truck decon'd.

1730 Valverde trailer is hauled off. DAVIS will take in-situ reading tomorrow.

IT almost completed grading/digging up temp road to repository.

1740 DAVIS video tapes Rodeo Grounds + Pondero's A 0:01:57 – 0:08:03.

1815 DAVIS departs site for hotel.

IT to decon trucks on 1 excavator, + full decon on Volvo truck + bulldozer tomorrow.

Tasks: ✓ (1) deliver samples to FedEx
✓ (2) video Repository, ditch, W 1st St, Borrow Pit
✓ (3) Aerial's + Topo's for HRS
✓ (4) Empty samples (extras) at Repository
✓ (5) Valverde property-screen

[signature]
3/27/02

3/28/02 G9011.1.01.0063.00

0700 Davis arrives on-site. IT + OSC present. IT to decon Equip + load vista pickup at RG's

Weather: 35°F, winds from S 3-10 mph, high low 70's

Davis to perform task listed on prework page.

0715 Davis empties Extra samples at repository

0730 Davis video tapes proposed parking area for entry at repository area is flagged. Davis also video tapes repository and ditch line at temp road to repository which IT excavated last week.

0813 - ~~7:40~~ 8:24

0845 Davis takes photos of ditch line to repository + RG's

0830 Davis calibrates Niton #63 and takes reading on NIST standards. Readings are as follows:

High: 4380 ± 320; 4740 ± 280; 4620 ± 270

Med: 1060 ± 120; 888 ± 110; 1040 ± 120

Low: <38 (ND); <43 (ND); <48 (ND)

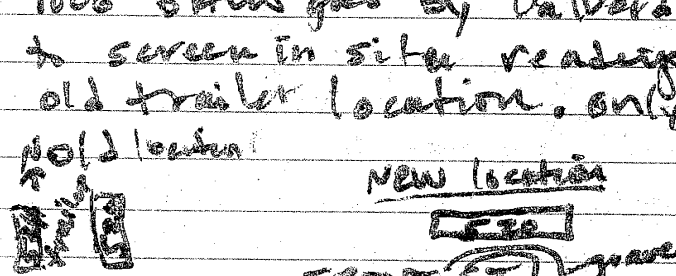
Davis packages samples for

3/28/02 G9011.1.01.0063.00

delivery to Fedex.

0925 Davis reviews video taped areas and files. IT has completed backfilling of the cisterns at the RG's and has smoothed/leveled out clean dirt piles. IT is decon'ing EQUIP. There are 5 IT crew members in the field and Dale Krete Response Manager & field accountant Rusty Moses.

1006 Davis goes by Valverde property to screen in situ readings on old trailer location. Only 1 trailer



the 524 Front ST trailer burned around X-mas. Readings, pre-screening insitu, are as follows:

520 Front: 1230 ± 150; 915 ± 150; 540 ± 120; 1140 ± 150; 703 ± 100; 1250 ± 150; 605 ± 99; 638 ± 110; 906 ± 130; 905 ± 120; behind current trailer →: 1070 ± 130; 478 ± 83; 619 ± 100

3/28/02 0204.L.01.0063.00

1038 Davis video tapes N. Liberty properties, W/St properties + 5399 CR 50.50 8:24 – 22:17

1126 Davis finishes video taping and photo capture log file info with Valverde's XRF reading & field sheet for OSC. Davis phones OSC with info. Davis phones STAT Analysis re: B-5 results.

1220 Davis departs site for County Bldg for Manifest + TAPOS for HES package. IT day completed decency equipment

Note: Davis speaks with OSC + faxes him aerial fly over info + he allows Davis to take aerial from command post. Davis goes to hotel for overnight stay and heads towards KC IT office + EPA warehouse, + FEDEX for sample delivery

1600 Davis arrives at Tetra Tech office to unload supplies

1700 Davis completes site tasks

Fred Davis 3/28/02

4/04/02 0204.L.01.0063.00

1230 DAVIS speaks with OSC concerning re: site issues. DAVIS had phoned OSC re: Material amounts used at site. And, OSC + DAVIS spoke regarding aerial fly over at site. Mr. Plowtel to phone Davis regarding cost arrangements. Pondera has been excavated and ditch line along N. Catherine is currently being excavated. Crew remobilized to site on 4/2/02 and began site activities on 4/3/02. DAVIS works on report for NZ.

Fred Davis 4/4/02

11/27/02 G9011.L.01.0063.00

DAVIS Submitted National Zinc report for review at Tetra Tech. Approximately 20,000 cubic yards of soil was excavated at/from residential yards. Approximately 13,000 cubic yards of clean soil was used at the repository to cap excavated soil from Residential areas & the Rodeo Grounds. Total soil at repository was calculated at 76,000 cubic yards. Expiration of the ERRS contract was around the week of November 11th. Further work at the site includes reseeding of the Rodeo Grounds and two Roads needing asphalt repair. This work is to occur next spring, 2003. DAVIS has also completed all file work for National Zinc.

11/27/02

12/10/02 G9011.L01.0063.00

DAVIS drops off file information at Tetra Tech. Information includes: QAPP, log books, safety plan, photos, video cassettes.

12/10/02

Photo LOG

DATE	TIME	FRAME	DESCRIPTION	duration
3/8/02	1039	90	Background - South sample location	NW
3/28/02	0752	84	ditch line + temporary Rd to repository	NE
3/28/02	810	86	Rodeo Grounds post execution	
3/28/02	812	855	Rodeo Grounds	SE
	813	856	post execution	S
	813	857		S
	814	858		SW
	815	859		W
	816	860		NW

(continued from # 6 bk)

SAMPLE LOG

Sample #	DATE	TIME	LOCATION	Description
NZ-Ponderosa F	3/5	1545	Ponderosa	North field
NZ-Ponderosa B	3/5	1445	Ponderosa	South field
NZ-154RG	3/1/02	0740	Rodeo Grounds	coll 154
NZ-86RG	3/3/02	1240	RG-86	86
NZ-61RG	3/3/02	1255	Rodeo Grounds	61
NZ-149RG	3/1/02	0750	Rodeo Grounds	149
Background-S	3/8/02	1030	S ~4 miles	see field sheet

Photo log (cont'd) →

time	frame	description	direction
1600	98 (34)	MW abandonment by KDHE - looking west	W
1602	97 (40)	MW abandonment by KDHE - looking W	W
1603	96	concrete bldg / walls at repository	SE
1604	95	MW abandonment pouring bentonite (KDHE)	W
605	94	Repository - looking SE	SE
30	93 (44)	demo of concrete bldg at Repository - looking NE / E	E/NE
2	92	" " looking SE	SE
35	91	" "	SE
4	90	RGS - looking SW at excavated field	SW
8	89	RG - looking SW	SW
8	88	RG - looking SE	SE

Photo log (cont'd) →

date	time	frame	description	direction
3/6/02	1600	98 (39)	MW abandonment by KOHE - looking west	W
3/6/02	1602	97 (40)	MW abandonment by KOHE - looking W	W
3/6/02	1603	96	concrete bldg walls at repository	SE
3/6/02	1604	95	MW abandonment pouring bentonite (KOHE)	W
3/6/02	1605	94	Repository - looking SE	SE
3/6/02	1730	93 (44)	demo of concrete bldg at Repository - looking NE/E	E/NE
3/6/02	1732	92	" " looking SE	SE
3/6/02	1735	91	" "	SE
3/6/02	1747	90	Rigs - looking SW at excavated field	SW
3/6/02	1748	89	Rig - looking SW	SW
3/6/02	1748	88	Rig - looking SE	SE

48 Lead Analysis only

SAMPLE LOG (Also see attached)

Sample #	DATE	TIME	LOCATION	Description
113RG	1/29/02	1650	~~Rodeo Ground~~ 113	RG
111 RG	1/29/02	1638	111	RG
147 RG	2/9/02	1430	147	RG
157RG	2/9/02	1715	157	
144RG	2/9/02	1458	144	pre scrn
145RG	2/9/02	1445	145	
138RG	2/9/02	1600	138	
100RG	3/2/02	1530	100	RG
60RG	3/2/02	1515	60	RG post
114RG	3/2/02	1030	114	RG
145RG	3/2/02	1130	145	RG
Background-W	3/3/02	1510	West-3 mi	See field sheet
Background-N	3/3/02	1430	North-3 mi	" "
Background-E	3/3/02	1545	East-2 mi	" "

DATE	Cell #	READINGS - Pb - ppm
3/15/02	NIST-M	978 ± 53, 1010 ± 53, 996 ± 54
"	105	46.2 ± 16, 62.1 ± 17, 58.4 ± 17
"	109	45.5 ± 16, 35 ± 15, 45.4 ± 16
"	91	28.4 ± 15, 23.1 ± 14, 20.8 ± 13
3/21/02	NIST-M	998 ± 54, 998 ± 54, 1020 ± 55
"	108	25.8 ± 14, 39 ± 15, 43.7 ± 16
"	120	41 ± 16, 37 ± 15, 41.1 ± 16
"	106	93.2 ± 19, 117 ± 20, 92.9 ± 20
"	95	225 ± 27, 280 ± 29, 181 ± 24
3/22/02	NIST-M	1010 ± 54, 961 ± 52, 1020 ± 54
"	107	60.2 ± 18, 53.7 ± 17, 66.1 ± 18
"	94	27.1 ± 14, 33 ± 15, 28.3 ± 15
"	81	59.1 ± 16, 45.5 ± 17, 48.1 ± 17
"	92	24.6 ± 15, 35.5 ± 15, 35 ± 15
3/23/02	NIST-M	982 ± 54, 1010 ± 54, 1040 ± 56
"	80	39.6 ± 16, 35.9 ± 15, 42.6 ± 16
"	78	125 ± 21, 121 ± 20, 124 ± 21
"	C67	58.2 ± 18, 53.3 ± 16, 52.9 ± 16
3/24/02	NIST-H	4940 ± 140, 4890 ± 140, 4850 ± 140
"	" -L	<20, <19, <21
"	93	<25, 39.2 ± 15, <21
"	66	52.9 ± 17, 52.7 ± 17, 54.8 ± 17
"	24	47 ± 16, 48.5 ± 16, 44.9 ± 15
"	79	47.6 ± 15, 37.5 ± 15, 24.2 ± 14
"	65	110 ± 20, 120 ± 20, 109 ± 20
"	25	47 ± 16, 45.4 ± 16, 40.9 ± 16

DATE	Cell #	READINGS - Pb - ppm
3/25/02	NIST-M	946 ± 52, 970 ± 52, 1010 ± 54
"	51	95.1 ± 19, 86.9 ± 19, 88.4 ± 18

APPENDIX D

START FIELD SHEETS

National Zinc Site Sketch

Name: HAROLD Rizzly (PONDEROSA) Date(s): 3/5/02

Address: 610 E. 5th ST - SITE ADDRESS: Chanyvale, KS 67335

XRF I.D. Operator

Pre-Removal: START-see below 1D

Post-Removal:

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

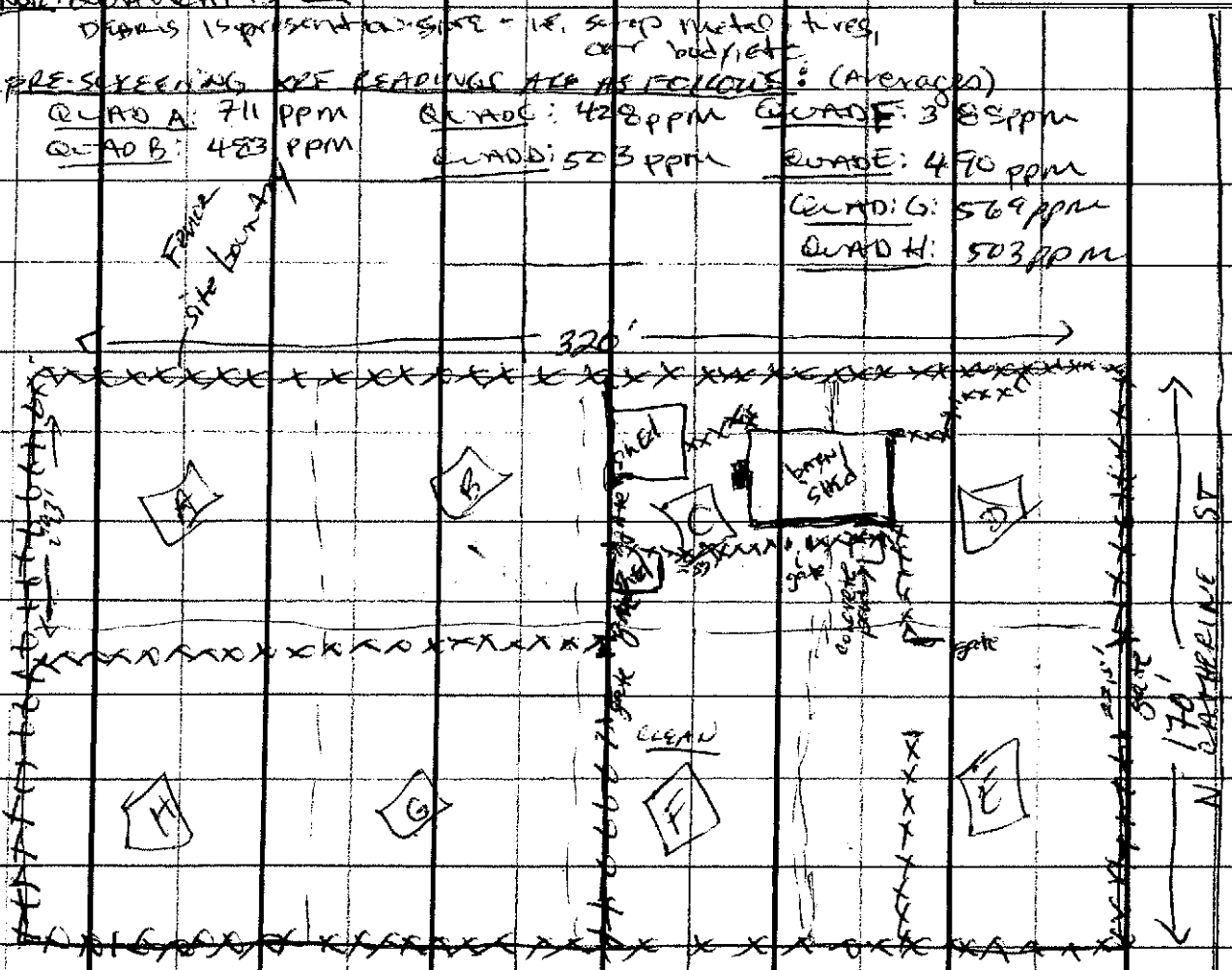
Approximate Scale
One Inch= 50'
N
25'
½ Inches

CLEAN AREA 25' X 80'

NOTE: QUADRANTS [illegible]
Debris is represented as SQRE - i.e. scrap metal, tires, car bodyparts

PRE-SCREENING XRF READINGS ARE AS FOLLOWS: (Averages)

QUAD A: 711 ppm
QUAD B: 483 ppm
QUAD C: 428 ppm
QUAD D: 523 ppm
QUAD E: 470 ppm
QUAD F: 385 ppm
QUAD G: 569 ppm
QUAD H: 503 ppm



National Zinc Property Checklist

Resident: HAROLD RIELLY (PONDEROSA)

Date: 3/5/02

Address: 680 E. 5th ST
Cherryvale, KS
67335

Field Tech: JD

SITE Address:

Comments/Observations

- NO SPECIAL ISSUES OF CONCERN WERE STATED by OWNER
- CATTLE ARE PRESENT IN AREA, NOT TO BE LET OUT

Video/Photographic Documentation

Pre-Excavation: Date: 3/27/02 Taken By: JD Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 2:57-6:13

Post-Excavation: Date: _____ Taken By: _____ Roll#(s)Tape(s)#: _____ Frame#(s)/Tape Counter _____

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ -** Ponderosa (B)

Project Leader: Don Lininger

Sample Date: 3/5/02 **Sample Time:** 1445 **Sampler:** DD

Expected Concentration: Low ~~Medium~~ High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis DD
1-8 oz Jar	Ice	6 months	Lead, ~~Arsenic, Cadmium, Zinc~~ by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ DD

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 0" - 1" **Aliquots:** composite (9-12)

Sample Location:

Ponderosa
cell B

Property Owner/Contact:

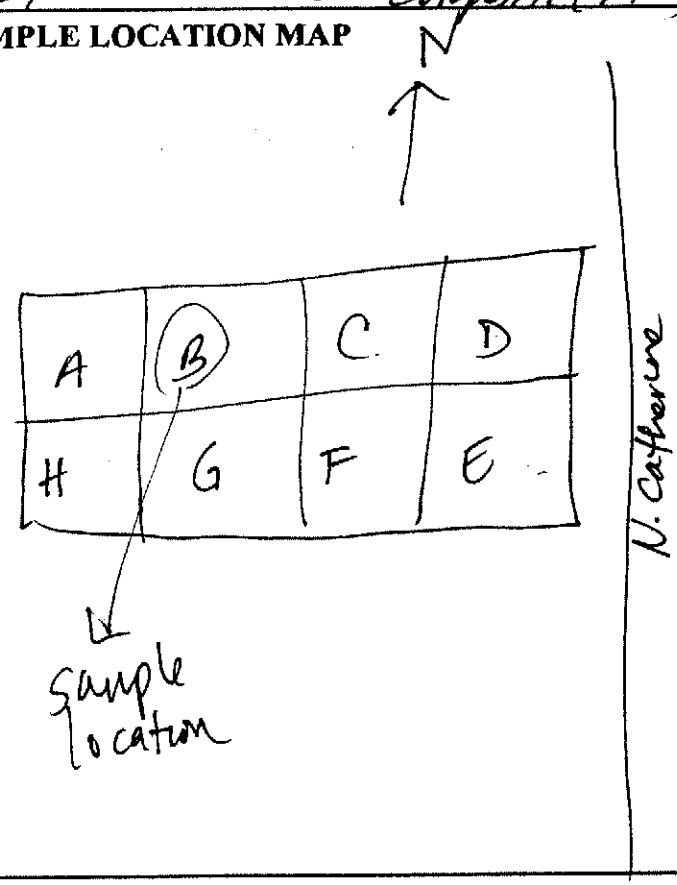
Harold Rielly
610 E 5th ST
Cherryvale, KS 67335
#620.336.2600

Comments:

Prescreening KF#15
417±73; 494±79; 539±78

avg 483

SAMPLE LOCATION MAP



FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ -** Ponderosa (F)

Project Leader: Don Lininger

Sample Date: 3/5/02 **Sample Time:** 1545 **Sampler:** DD

Expected Concentration: Low Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, ~~Arsenic, Cadmium, Zinc~~ DD by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ DD

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 0" - 1" **Aliquots:** composite (9-12)

Sample Location:

Ponderosa
Cell F

Property Owner/Contact:

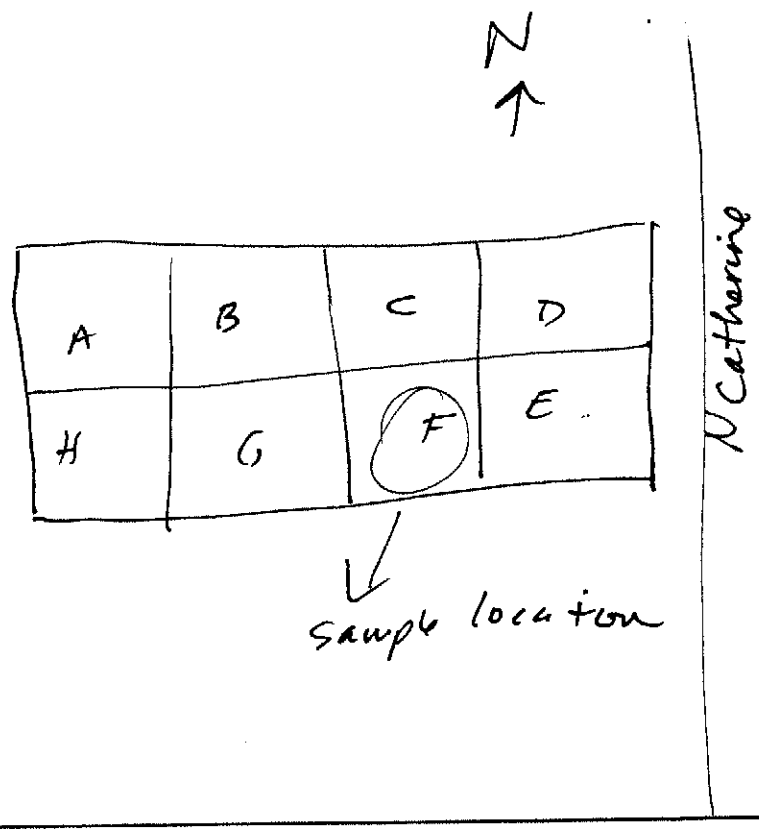
Harold Reilly
610 E. 5th ST
Cherryvale KS 67335
336-2600 (620)

Comments:

XRF Reading PRESCREENING
345±63; 399±64; 410±68

Avg. 385 ppm

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: James Gann

Date(s): 1/4/02

Address: 5399 County Road 5050
Cherryvale, KS
67335

XRF I.D. | Operator

Pre-Removal: KDHE [illegible] - ZO

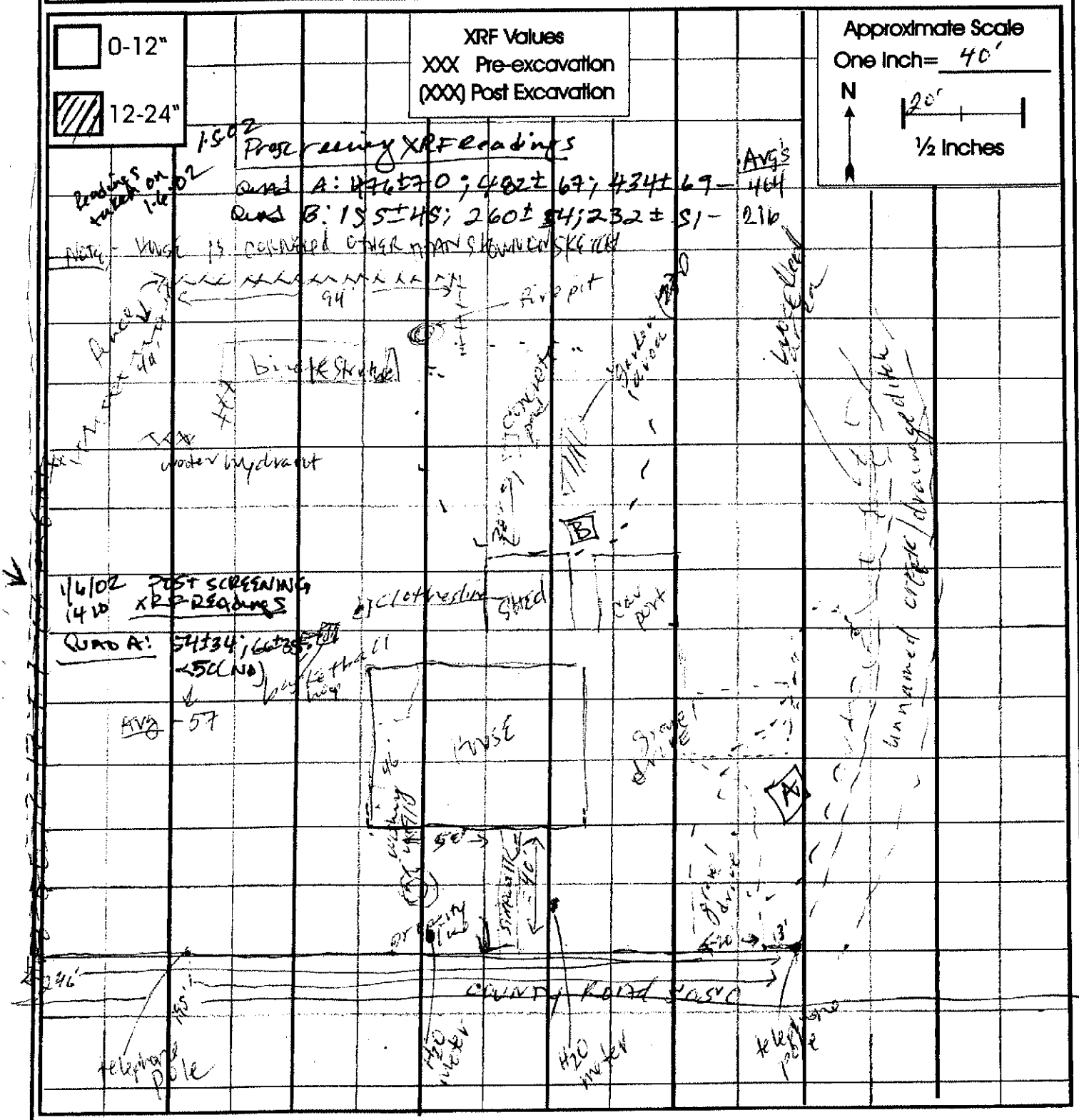
Post-Removal:

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 40'
N
20'
½ Inches



National Zinc Property Checklist

Resident: James Gann

Date: 1/4/02

Address: 5399 CR 5050
Cherry Vale, KS
67335

Field Tech: ID

Comments/Observations

* Mr Gann stated to OSC Lawyer that the A-framed structure in his yard will be moved by him rather than IT crew moving it
* Mr Gann stated that gravel is ok to use instead of backfilling with soil. will grade out his driveway

Video/Photographic Documentation

Pre-Excavation: Date: 1/5/02 Taken By: ID Roll#(s)Tape(s)#: 3 Frame#(s)/Tape Counter 0:00:00-0:52:50

Post-Excavation: Date: ~~1/4/02~~ 3/28/02 Taken By: ID Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 8:24-22:17

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ - 024

Project Leader: Don Lininger

Sample Date: 1/05/02 **Sample Time:** 1230 **Sampler:** DD

Expected Concentration: (Low) Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ NONE DD	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ DD

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 0"-1" **Aliquots:** 9 (aliquots) composite

Sample Location:

5399 County Road 5050
and A
see sample location map

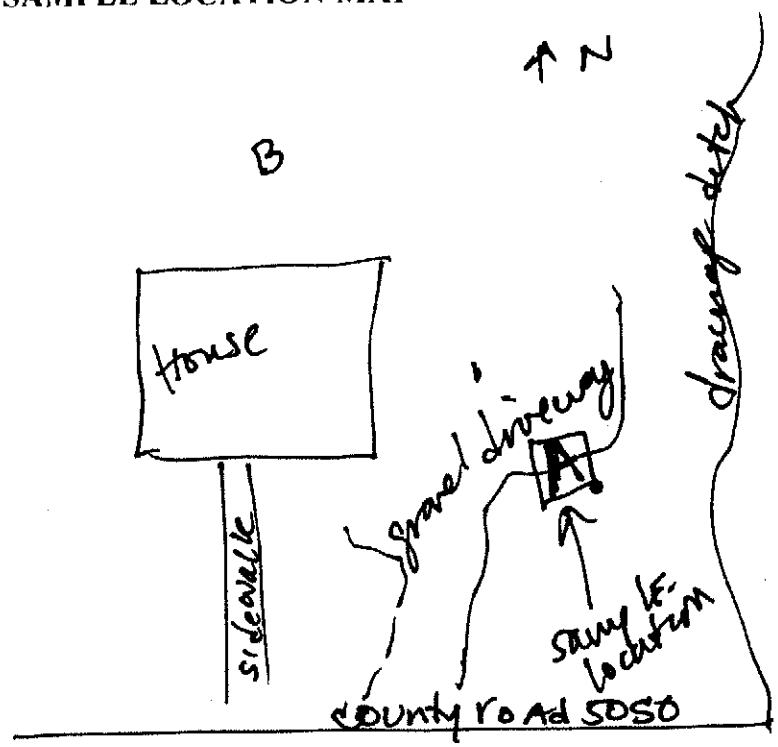
Property Owner/Contact:

Mr. James GANN
5399 County Road 5050
Cherryvale, KS 67335

Comments: preserve w/ XRF readings
476570; 482567; 434269

Avg 2464

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: McBride, Jackie

Date(s): 12/6/01

Address: 400 North Liberty St
Cherryvale, KS
67335

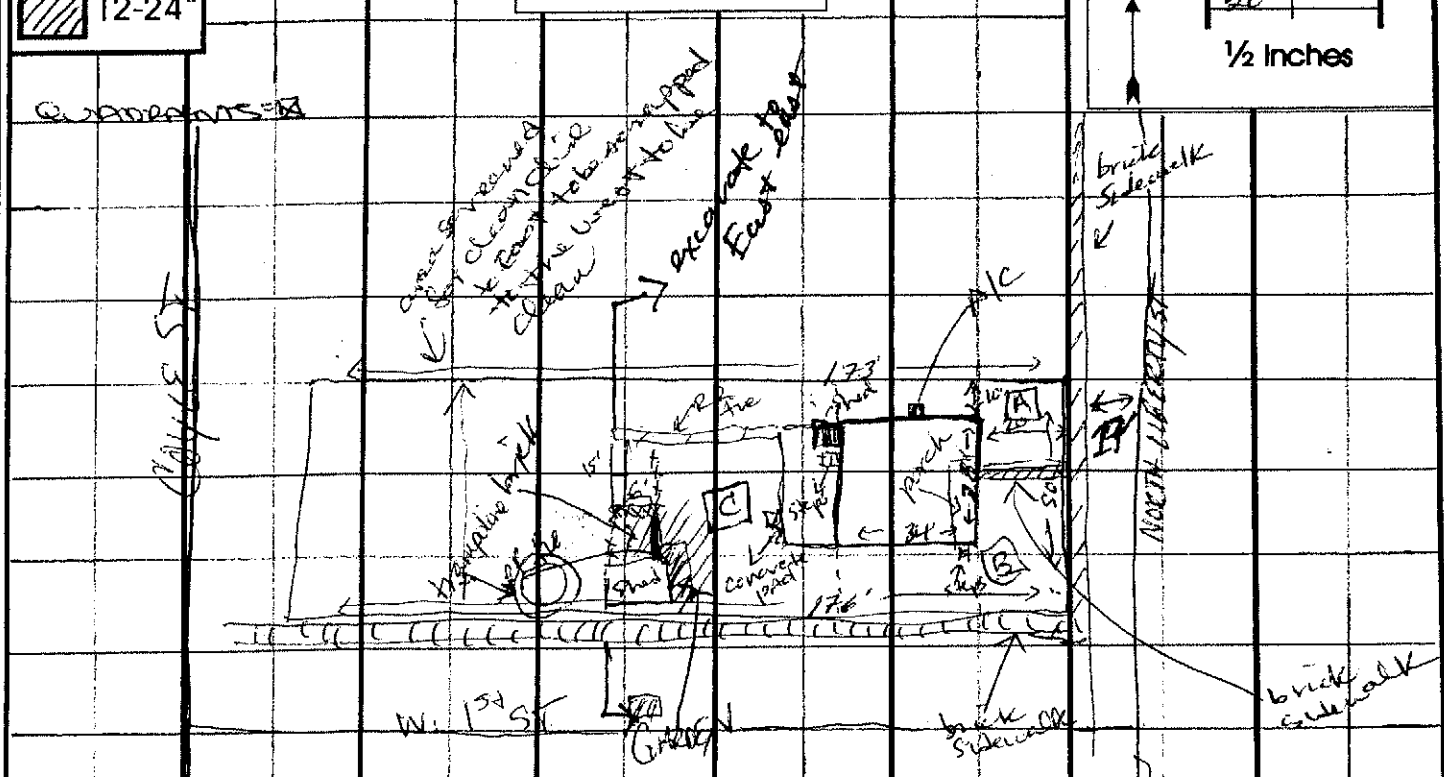
	XRF I.D.	Operator
Pre-Removal:	START + KDHE - see below + spreadsheet	ID
Post-Removal:	see below	ID

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One inch= 40'
N
20
½ Inches



KDHE Prescreening values
445 - Quad C
417 - Quad B

12.6.01
1502 PRESCREENING XRF READINGS

Quad C: 291±57; 327±62; 257±56 - 292 Avg
Quad B: 612±81; 648±88; 664±84 - 641
Quad A: 1020±110; 948±97; 755±86 - 908

1.3.02
10:20 POST SCREENING XRF Readings

Quad A: 261±69; 624±71; - by tree; 1150±120 - 678
Quad B: 97±44; 265±59; 668±93 → 55 corner - after first excavation
Quad C: 376±55; <60(ND); <59(ND); <72(ND); <56(ND) → Readings are east of fence
West of fence: <61(ND); <72(ND) <69(ND) <57(ND); <74(ND); <64(ND) <61(ND): 92±42; 69±41

avg 212 - Quad
98 - Quad

N=173' S=176'

National Zinc Property Checklist

Resident: MBride, Jackie

Date: 12/6/01

Address: 400 North Liberty St
Cherryvale, KS
67335

Field Tech: ID

Comments/Observations

no issues of concern or comments

includes 400, 404, 416 + 420 N Liberty

Video/Photographic Documentation

Pre-Excavation: Date: 12/6/01 Taken By: ID Roll#(s)Tape(s)#: 3 Frame#(s)/Tape Counter 0:01:29 - 0:12:07

Post-Excavation: Date: 3/28/02 Taken By: ID Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24 - 22:17

National Zinc Site Sketch

Name: Bill OTT

Date(s): 12/6/01

Address: 404 North Liberty
Cherryvale, KS
67335

	XRF I.D.	Operator
Pre-Removal:	KDHE + START	SEE LOGBOOK - ID
Post-Removal:		

0-12"

12-24"

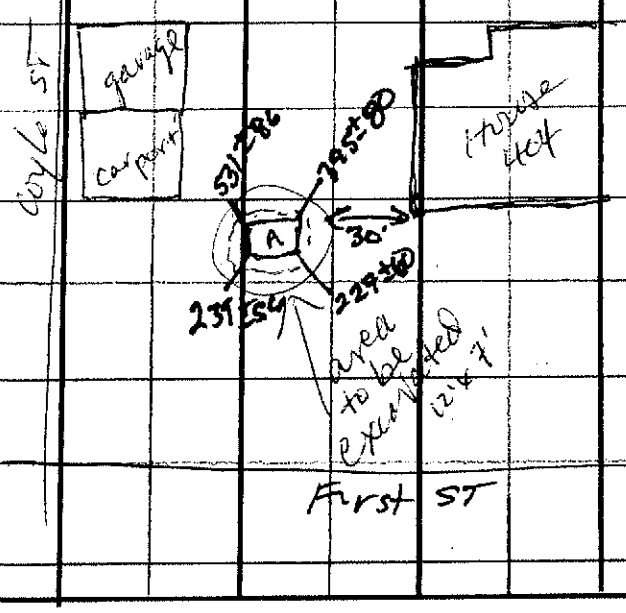
XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 40'
N
20'
½ Inches

KDHE prescreening 1110 ppm

12.6.01 prescreening XRF Readings:
Quad A: 227±60; 229±60; 531±86; 231±56 AVG 307

1.3.02 post screening XRF Readings:
Quad A: 201±77; <67 (ND); 118±70; <67 (ND) AVG 113



National Zinc Property Checklist

Resident: Bill OTT

Date: 12/6/01

Address: 404 North Liberty
Cherryvale, KS
67335

Field Tech: DD

Comments/Observations

* OSC Don Lueneger speaks with owner and said that he only wants a small area excavated, where KDHE has sampled. There is a barren spot just west of his house that he has stated is okay to excavate (area is approx. ~~50' feet east of car port and 30' feet north of fence~~ 30' west of southwest corner of house

Video/Photographic Documentation

Pre-Excavation: Date: 12/6/01 Taken By: DD Roll#(s)Tape(s)#: 3 Frame#(s)/Tape Counter 0:01:29 - 0:12:07 (includes 400, 404, 416 & 420 N. Liberty)

Post-Excavation: Date: 3/28/02 Taken By: DD Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24 - 11:17

National Zinc Site Sketch

Name: Roberts, Brent

Date(s): 12/6/01

Address: 416 North Liberty St
Cherryvale, KS
67335

XRF I.D. Operator

Pre-Removal: KDHE + START - see below + ~~Excel~~ spreadsheet ID

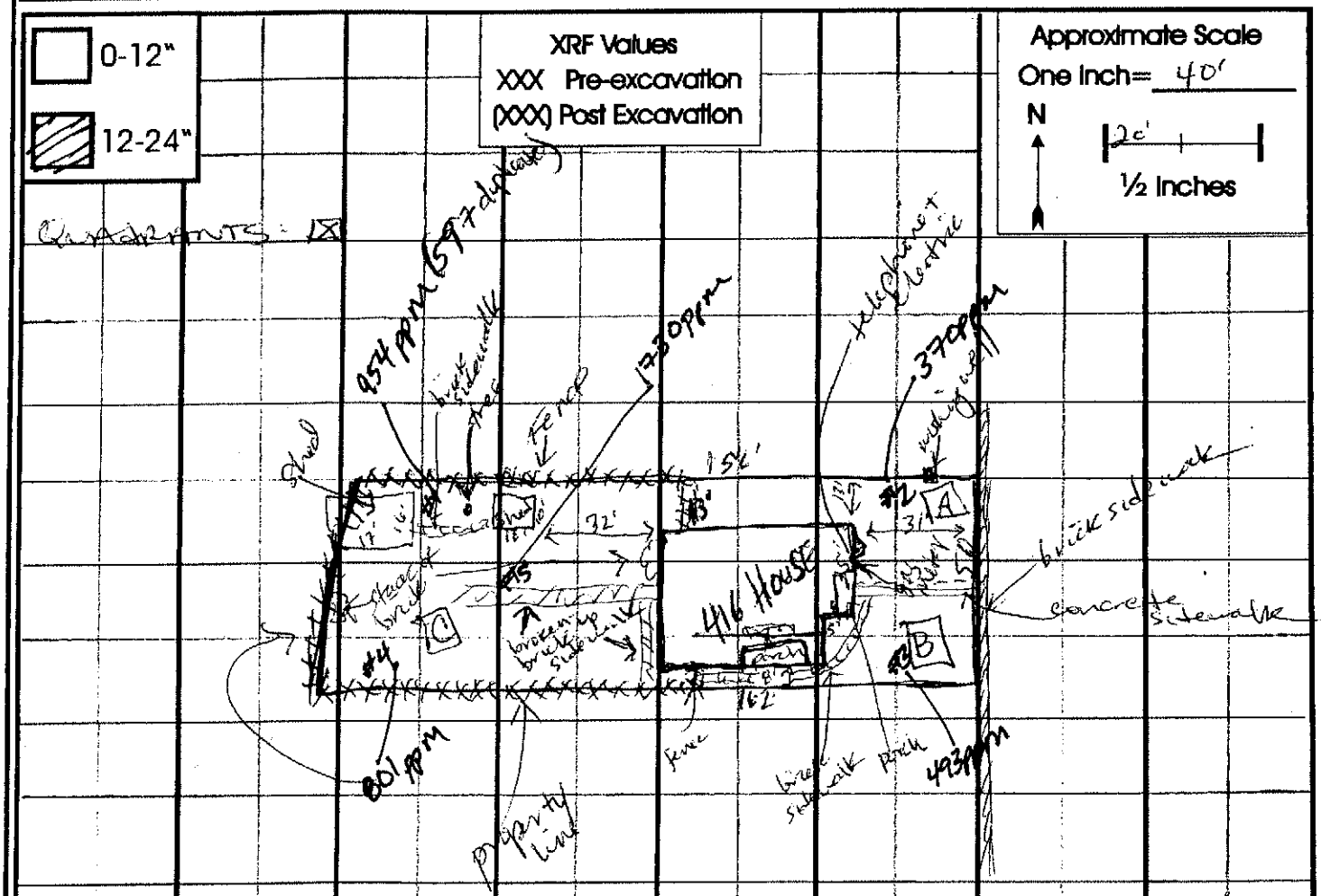
Post-Removal:

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch = 40'
N
20'
½ Inches



KDHE Prescreening XRF Readings
954.4 ± 100; 597.2 ± 61.6; 3706 ± 58.9; 493 ± 65.6; 801.2 ± 81.9; 1730 ± 120
(see KDHE map)
Avg = 824

1.4.02 POST screening XRF Readings

Quad C: 410 ± 83; 430 ± 76; 708 ± 93; 958 ± 100 (by tree); 597 ± 85; 240 ± 61; ⇒ East of shed
middle yard ⇒ 823 ± 110; 299 ± 62; 978 ± 160; West of shed ⇒ 273 ± 70; 371 ± 73; 393 ± 80;
very west (SW) yard ⇒ 1340 ± 140 → Avg = 595

1.5.02 QUAD A: <61 (ND); 400 ± 73; 292 ± 55 (by sidewalk cracks); <59 (ND); 69 ± 39; 245 ± 64 → Avg 176
QUAD B: 293 ± 67; 228 ± 63; 214 ± 54; 233 ± 56; 495 ± 85; 237 ± 58 (by fence cracks from porch); 219 ± 59 → Avg 277

N = 156' S = 162'

National Zinc Property Checklist

Resident: Roberts, Brent

Date: 12/6/01

Address: 416 North Liberty ST
Cherryvale, KS
67335

Field Tech: ID

Comments/Observations

* brick in backyard, buried + in piles, can be excavated/removed with contaminated soils

includes 416 + 420 400, 404, N. Liberty

Video/Photographic Documentation

Pre-Excavation: Date: 12/6/01 Taken By: ID Roll#(s)Tape(s)#: 3 Frame#(s)/Tape Counter 0:01:29 - 0:12:07

Post-Excavation: Date: 3/28/02 Taken By: ID Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24 - 22:17

National Zinc Site Sketch

Name: Roberts, Brent

Date(s): 12/6/01

Address: 420 N Liberty
Cherryvale, KS
67335

	XRF I.D.	Operator
Pre-Removal:	START + KDHE see below + spreadsheet	FD
Post-Removal:		

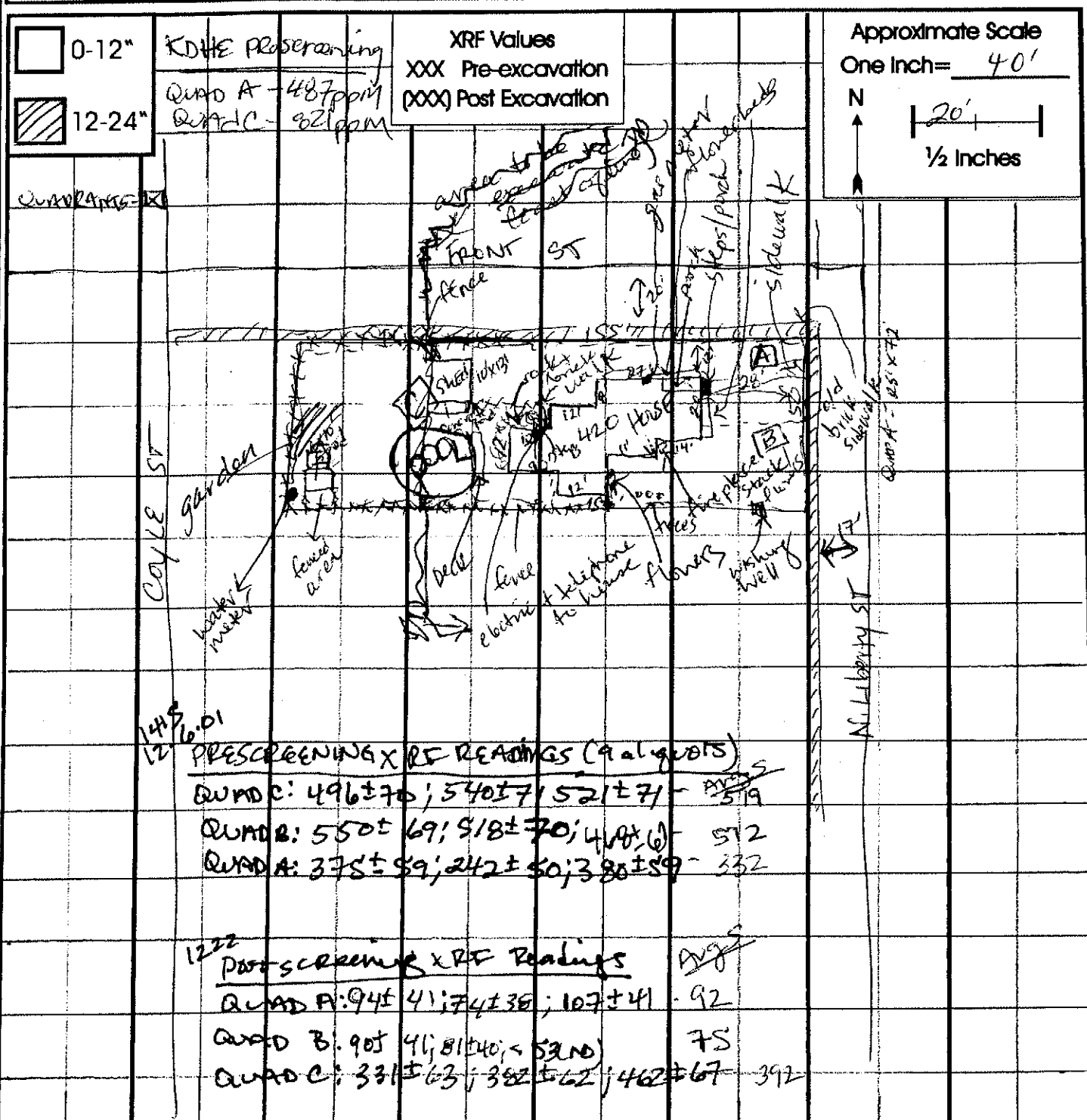
0-12"

12-24"

KDHE Prescreening
QUAD A - 487 ppm
QUAD C - 821 ppm

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch = 40'
N
20'
½ Inches



1448 12/6/01
PRESCREENING XRF READINGS (9 aliquots)

QUAD C: 496 ± 70; 540 ± 71; 521 ± 71 - AVGS 519
QUAD B: 550 ± 69; 518 ± 70; 468 ± 69 - 512
QUAD A: 375 ± 59; 242 ± 50; 380 ± 59 - 332

1222
POST SCREENING XRF Readings

		AVGS
QUAD A:	94 ± 41; 74 ± 38; 107 ± 41	92
QUAD B:	90 ± 41; 81 ± 40; < 53 ND	75
QUAD C:	331 ± 63; 382 ± 62; 462 ± 67	392

National Zinc Property Checklist

Resident: Roberts, Brent

Date: 12/6/01

Address: 420 North Liberty ST
Cherryvale, KS
67335

Field Tech: ID

Comments/Observations

* no issues of concern or comments

1.5 or * brick side walk was uncovered to N of house, wants to leave it covered

Video/Photographic Documentation

includes 400, 404, 416 + 420 N Liberty

Pre-Excavation: Date: 12/6/01 Taken By: ID Roll#(s)Tape(s)#: 3 Frame#(s)/Tape Counter 0:01:29-0:02:07

Post-Excavation: Date: 3/28/02 Taken By: ID Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24-22:17

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ - 025

Project Leader: Don Lininger

Sample Date: 1/6/02 **Sample Time:** 1220 **Sampler:** DD

Expected Concentration: Low Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ NONE	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ DO

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** ~~0"-6"~~ 6"-12" **Aliquots:** Composite (9 aliquots)

Sample Location:
420 N. Liberty
Quad A

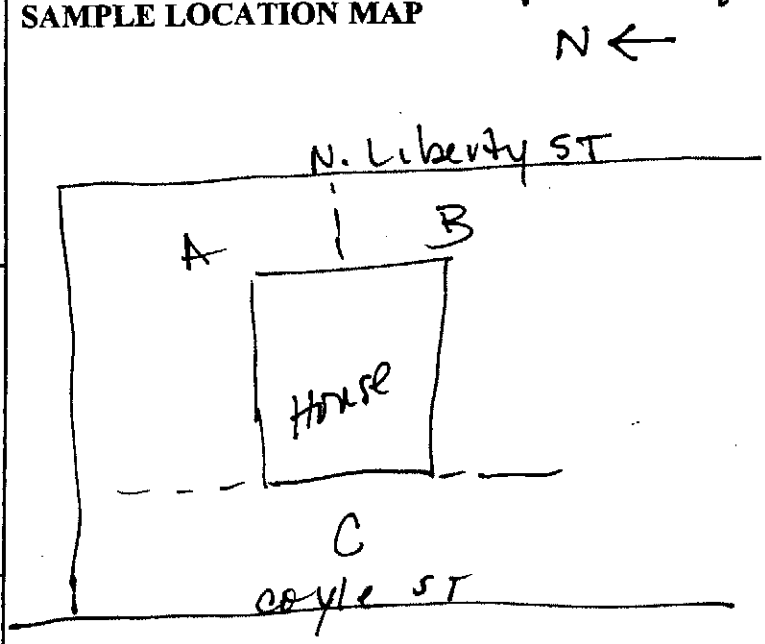
*see sample location map

Property Owner/Contact:
MR. Brent Roberts
420 N. Liberty ST
Cherryvale, KS 67335

Comments: post screening XRF readings:
94±41; 74±38; 107±41

Avg = 92

SAMPLE LOCATION MAP



National Zinc Site Sketch

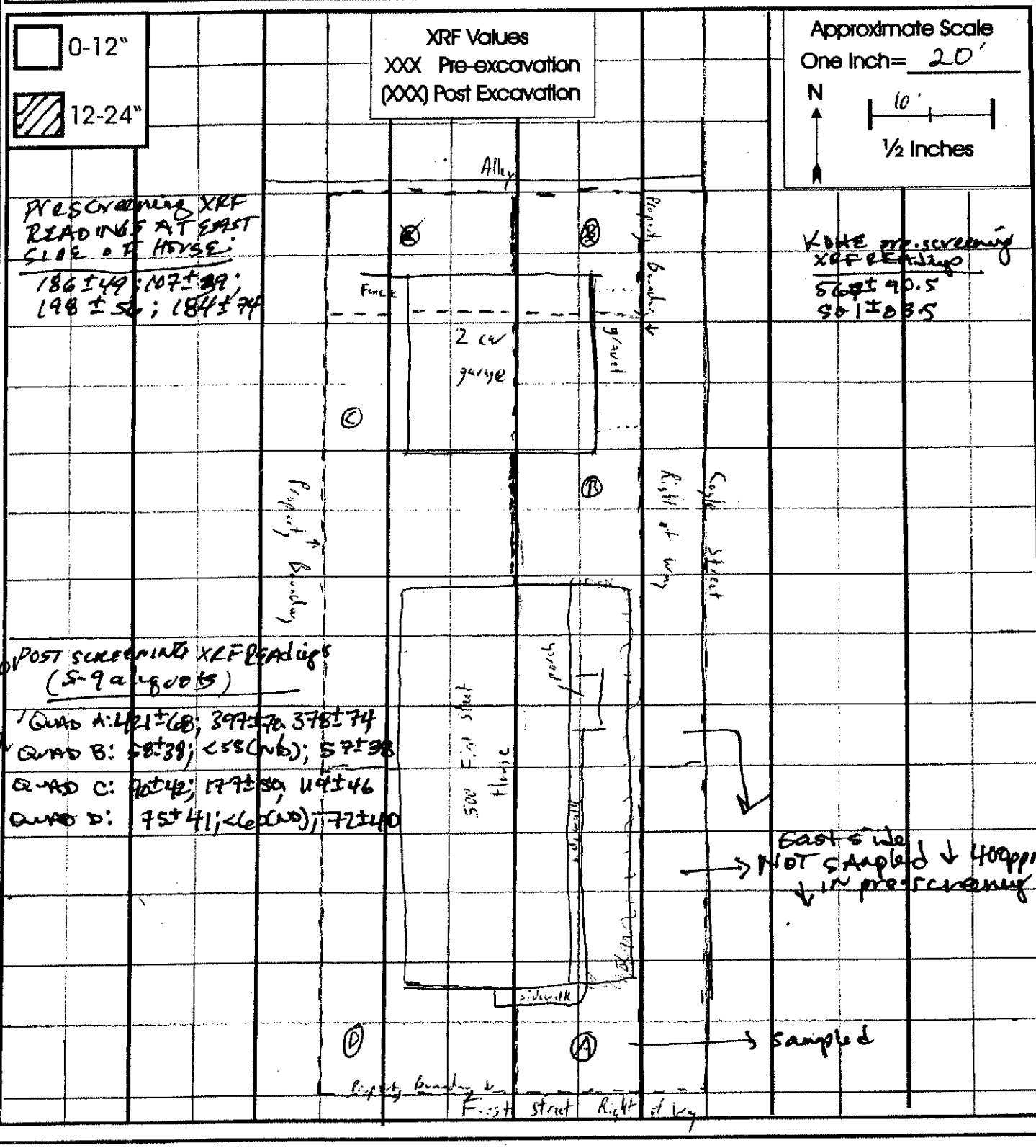
Name: KNOLES, REX Sketch: JV Date(s): 11/18/01

Address: 500 First ST
Cherryvale, KS
67335

XRF I.D. Operator

Pre-Removal: START KDHE ~~110-30 ppm~~ N/A JD

Post-Removal: START - see below JD



National Zinc Property Checklist

Resident: KNOLES, REX

Date: 11/16/01 + 12/3/01

Address: 500 First ST
Cherryvale, KS
67335

Field Tech: JK + JD

Comments/Observations

* OSC DON Lunyer spoke with property owner regarding any items of concern in yard. Owner stated that there are some bulbs planted in front of porch that she does not want disturbed (bulbs are ~~outside~~ within of 3' from house and will not be disturbed.

* no other issues of concern

Video/Photographic Documentation

Pre-Excavation: Date: 11/16/01 Taken By: JK Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:28:23

Post-Excavation: Date: 11/22/01 Taken By: JD Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 42:24-49:15

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ-** 014

Project Leader: Don Lininger

Sample Date: 12/4/01 **Sample Time:** 1645 **Sampler:** ID

Expected Concentration: Low Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ NONE	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ - ID

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** ~~0-2"~~ 6" - 12" **Aliquots:** Composite (5-9 aliquots)

Sample Location:

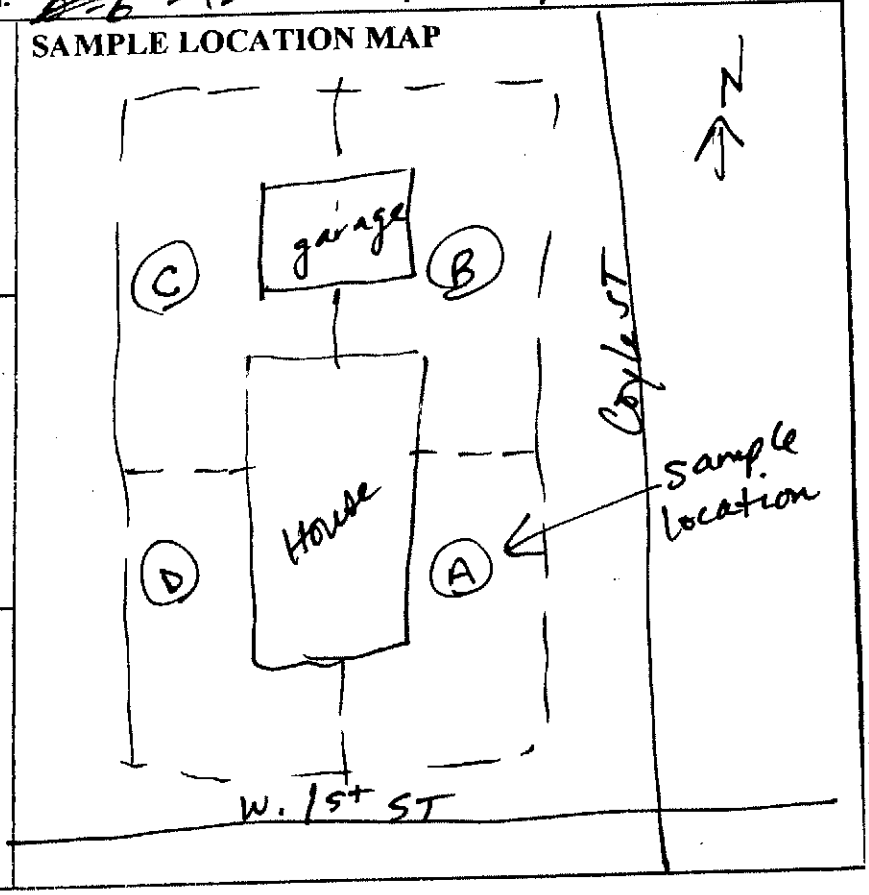
500 W. First ST
QUAD: A
Post * southeast corner + front of house
* see site sketch

Property Owner/Contact:

REX KNOLES
500 W. First ST
Cherryvale, KS
67335

Comments: Post screening XRF Readings
421 ± 68; 397 ± 70; 378 ± 74
Avg = 399

SAMPLE LOCATION MAP



FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Sample #: NZ - 015

Project Number: G9011.L.0063.00

Project Leader: Don Lininger

Sample Date: 12/4/01 Sample Time: 1655 Sampler: ID

Expected Concentration: ~~Low~~ Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ NONE	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ ID

SAMPLE DESCRIPTION

Matrix: Soil Sample Depth: 6" - 12" Aliquots: composite (5-9 aliquots)

Sample Location:

500 W. 1st ST
QUAD B
post * north east corner
* see site sketch

Property Owner/Contact: (not mailing address)

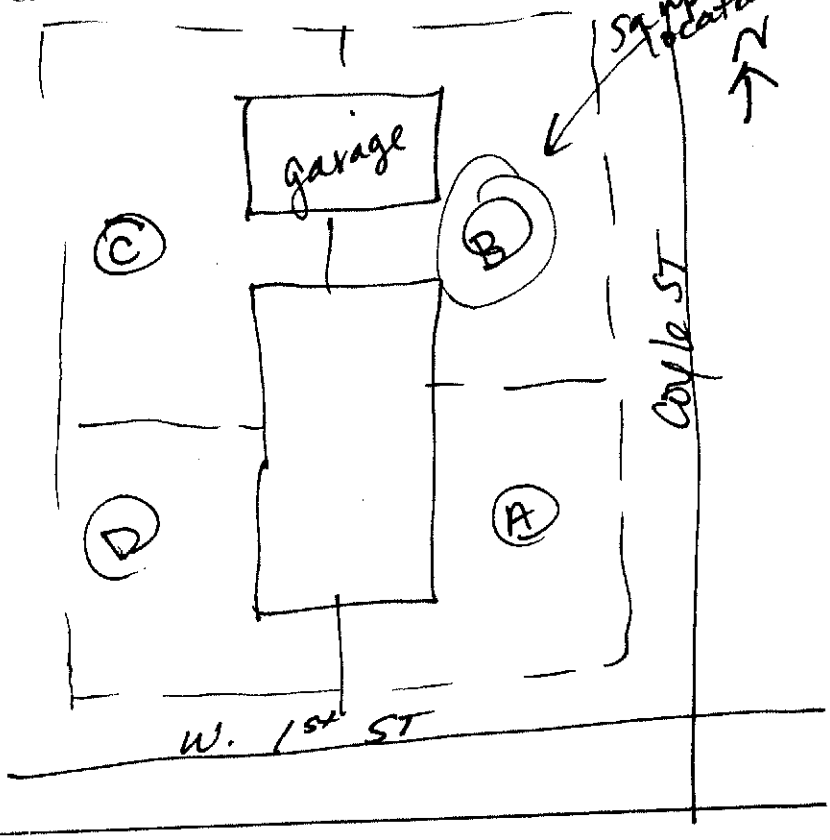
Rex Knoles
500 First ST
Cherryvale, KS 67335

Comments: Post-screening XRF Readings

QuadB: 58 ± 38; <5.5 (ND); 57 ± 38

Avg = 57

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: HALE, MACK

Date(s): 11/16/01

Address: 506 First ST
Cherryvale, KS
67335

Sketch TK

XRF I.D. Operator

Pre-Removal: KDHE

Post-Removal: START - see sheet below

NOTE: XRF reading south of 506 1st, beyond so from here on back of field ID sheet

ID

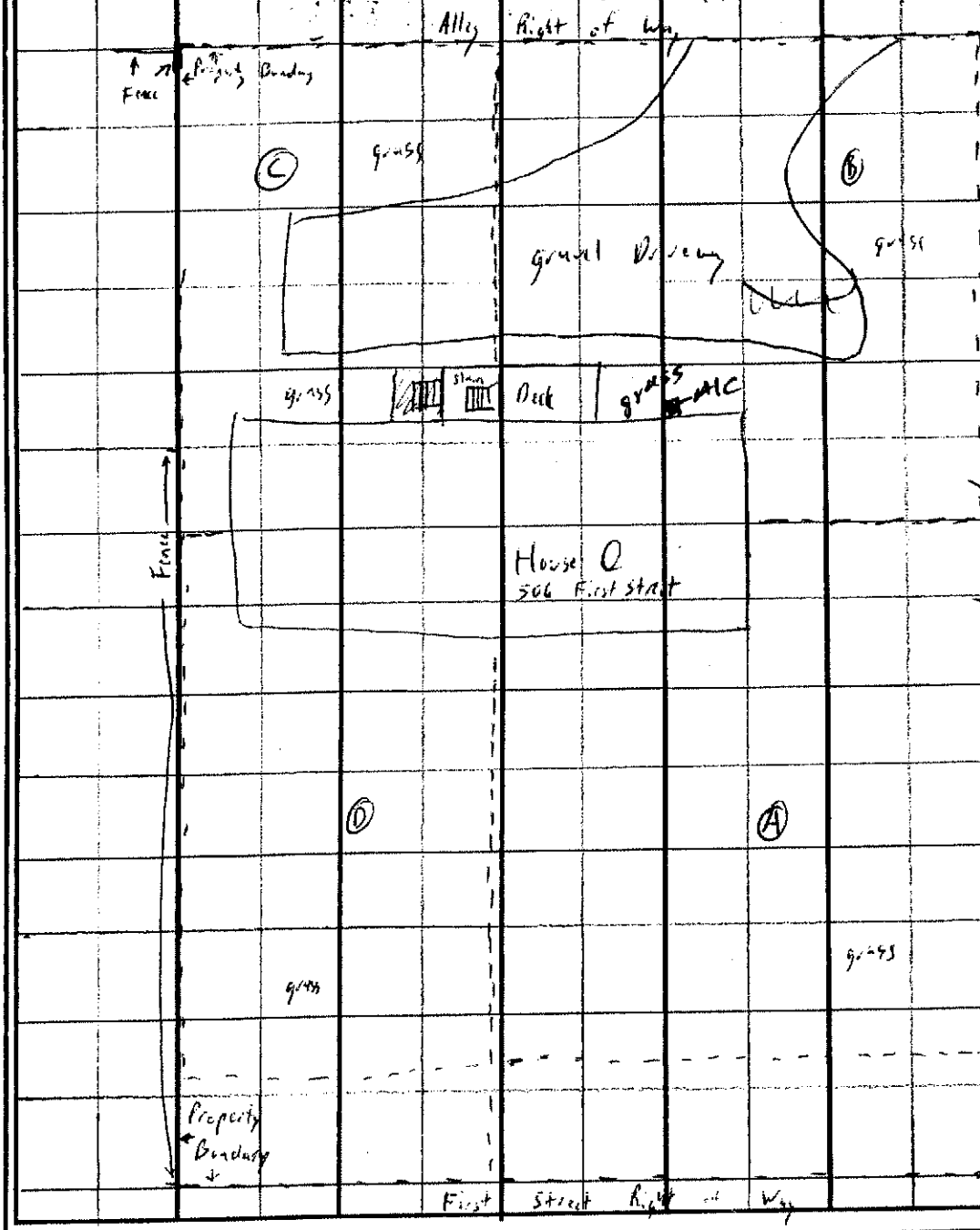
see below

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 10'
N
5'
½ Inches



*prescreening of grass just N of house
East side - 82±46; 2 86± 3
west - already excavated

*post screening XRF readings: (9 a.m.)
12-5-01
1200

QUAD A: <55 (ND); 252 (ND); <59 (ND)

QUAD B: 126±47; 130±46; 162±49

QUAD C: <59 (ND); <53 (ND); <58 (ND)

QUAD D: <56 (ND); <48 (ND); <50 (ND)

National Zinc Property Checklist

Resident: HALE, MACK

Date: 11/16/01 & 12/3/01

Address: 506 First ST
Cherryvale, KS
67335

Field Tech: JK & IW

Comments/Observations

* OSC Don Lininger spoke with property owner regarding any special items or issues of concern at property. No items were disclosed to OSC.

Video/Photographic Documentation

Pre-Excavation: Date: 11/16/01 Taken By: JK Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:28:23

Post-Excavation: Date: 1/22/02 Taken By: KO Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 42:24-49:15

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Sample #: NZ - 016

Project Number: G9011.L.0063.00

Project Leader: Don Lininger

Sample Date: 12/5/01 **Sample Time:** 1200 **Sampler:** DD

Expected Concentration: ~~Low~~ Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ NONE	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ DD

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 6" - 12" **Aliquots:** composite

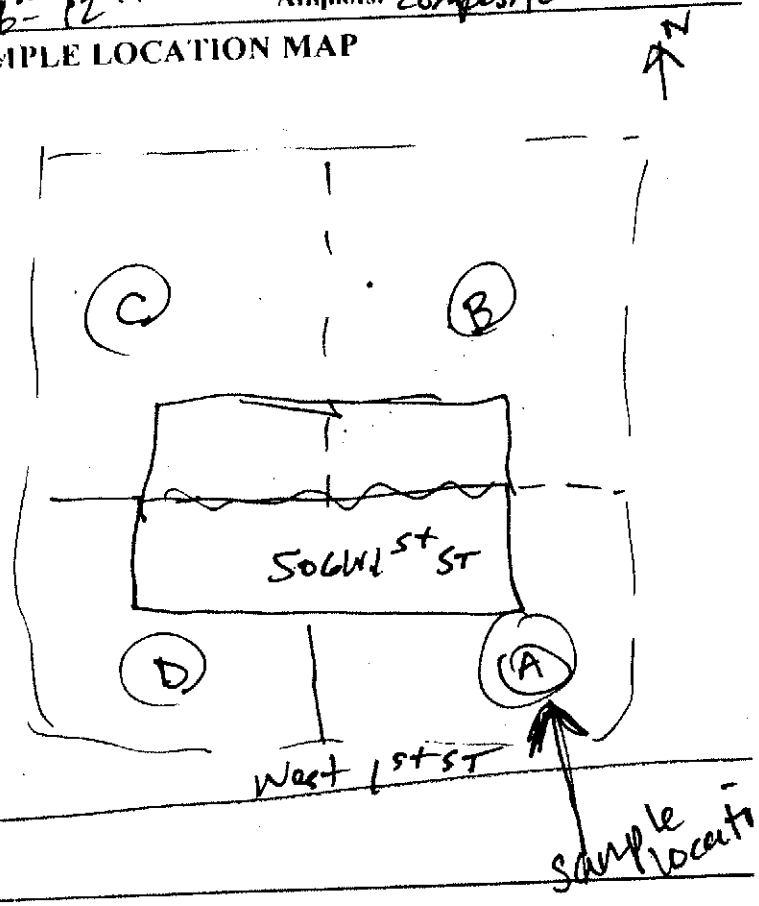
Sample Location: 506 W. 1st ST
QUAD A
* southeast corner of property
* see site sample location map

Property Owner/Contact: MACK Hale
506 W. 1st ST
Cherryvale, KS
67335

Comments: POST-screening XRF Readings
QUAD A: <55(ND); <52(ND) <59(ND)

Avg = 55

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: Cheryl Blackburn

Date(s): 11/27/01

Address: 509 First ST
Cherryvale, KS
67335

	XRF I.D.	Operator
Pre-Removal:	KDHE	n/a
Post-Removal:	see below	JJ

0-12"

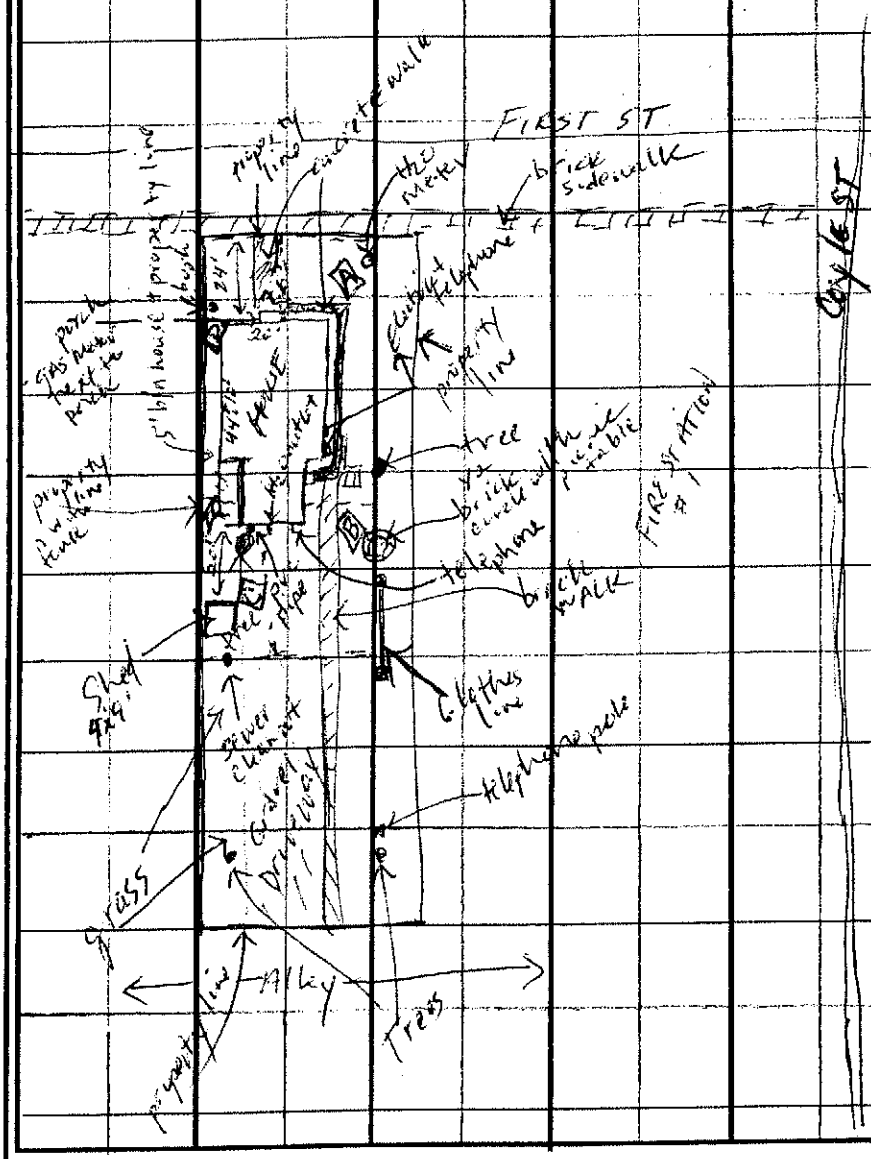
12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 40'
N
20'
½ Inches

NOTE: (1) Wall has children's toys, lumber, picnic table, etc around house
See Video
(2) QUADRANTS ☒

12:7 POST SCREENING XRF READINGS:
QUAD A: <56(ND); <56(ND); 62±38
QUAD D: 244±38; 467±91; 96±55
↓ tree
QUAD B: 77±90; <57(ND); 242±56
↳ by tree
12:13. QUAD C: 409±72; 416±77; 407±71



scale 1cm

National Zinc Property Checklist

Resident: Cheryl Blackburn

Date: 11/27/01

Address: 509 First ST
Cherryvale, KS
67335

Field Tech: ID

Comments/Observations

No concerns or comments

Video/Photographic Documentation

(Includes 529 5th ST)

Pre-Excavation: Date: 11/27/01 Taken By: ID Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:00:00-0:09:01

Post-Excavation: Date: 11/22/02 Taken By: ID Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter ~~49:13~~ 4:23:4-49:15

National Zinc Site Sketch

Name: Arrid Lindquist

Sketch = JY

Date(s): 11/16/01

Address: 511 First Street
Cherryvale, KS 67335

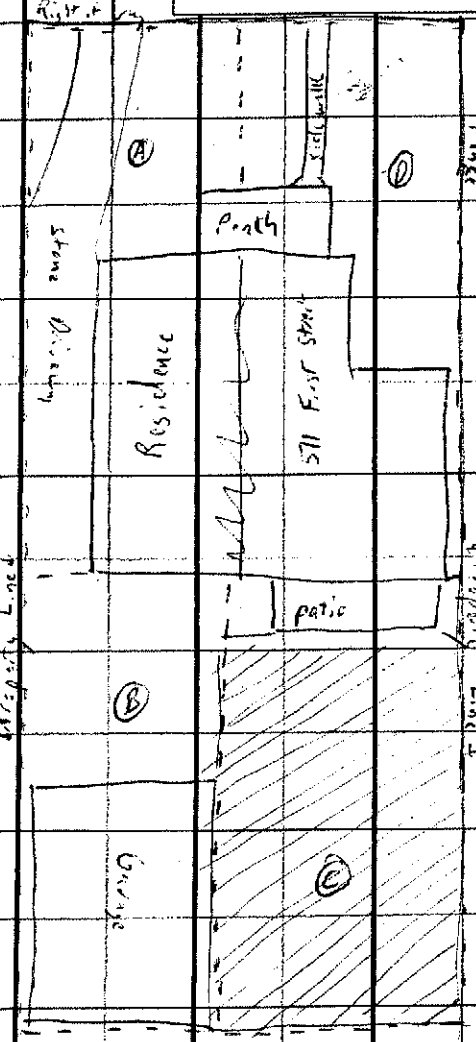
	XRF I.D.	Operator
Pre-Removal:	KDHE	NOTE: also see back of field sheet - JP
Post-Removal:	see below	JP

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 20
N
10
½ Inches



12-7-01
POST SCREENING XRF READINGS
QUAD A: 278±71; 228±58; 157±52;
QUAD D: 130±32; 208±55; 210±52
QUAD B: <57(ND); <52(ND); 268(ND)
(origin QUAD A → 222±52)
12/13 QUAD C: 230±60; 200±60; 231±63

National Zinc Property Checklist

Resident: Arrid Lindquist

Date: 11/16/01 + 12/6/01

Address: 511 First Street
Cherryvale, KS 67335

Field Tech: JR... + ID

Comments/Observations

* START member Ingrid Davis + DSC speaks with property owner regarding any items or areas of concern that need to be addressed at property. Mr. Lindquist stated that there is nothing that he is aware of at property that is of concern
* Lindquist stopped by where Davis is working and stated that it is okay to take out rose bush in NE corner of house, east of sidewalk

Video/Photographic Documentation

Pre-Excavation: Date: 11-16-01 Taken By: JR.. Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter ~~24:53 → 25:43~~ 0:25:44 → 26:35

Post-Excavation: Date: 3/18/02 Taken By: ID Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24 – 22:17

National Zinc Site Sketch

Name: Wilma Adams

Date(s): 11/16/01

Address: 514 First Street
Cherryvale, KS 67335

Sketch by JC

XRF I.D. Operator

Pre-Removal: KDHE - note 45 of 58' from house XRF → ID on back of field sheet

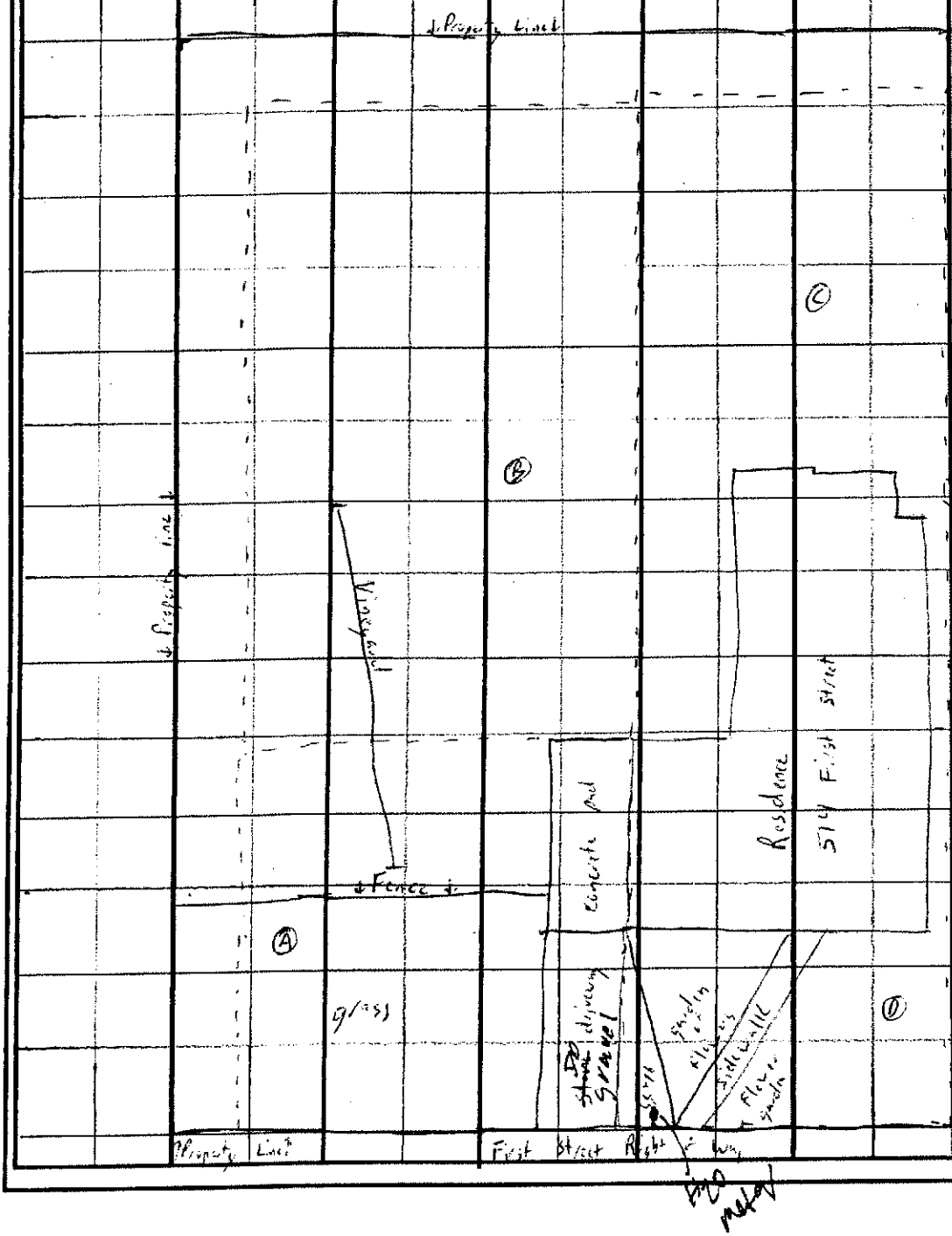
Post-Removal:

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 10'
N
5'
½ Inches



POST SCREENING XRF READINGS (9 aliquots) 12-7-01 0742

QUAD A: 121±45; 145±45

QUAD B: 217±53; 314±52; 198±57

QUAD C: 428±48; 382±46

QUAD D: NOT EXCAVATED

388±46

Prescreening readings XRF on QUAD D (9 aliquot)

QUAD D: 361±60; 353±60; 332±60

National Zinc Property Checklist

Resident: Wilma Adams

Date: 11/16/01 + 12/5/01

Address: 514 First Street
Cherryvale, KS 67335

Field Tech: J... + Don
Don Lemmger

Comments/Observations

* OSC Don Lemmger spoke with property owner regarding an items of concern or special interest not to be disturbed, etc. Ms Adams mentioned a rose bush located on the west side of the house that should be avoided by excavation crews. She also stated that she would be moving and is not concerned with any other things in the yard
* She stated that the front fence south of house, can be torn down and not replaced, as well, as the fence to the west of the house (that runs east to west) can be torn down and not replaced as well

Video/Photographic Documentation

Pre-Excavation: Date: 11-16-01 Taken By: J.. Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 24:53 - 25:43

Post-Excavation: Date: ~~[illegible]~~ 12/21/02 Taken By: KD Roll#(s)Tape(s)#: ~~5~~ 4 Frame#(s)/Tape Counter ~~[illegible]~~ 42:24 - 49:15

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Sample #: NZ - 017

Project Number: G9011.L.0063.00

Project Leader: Don Lininger

Sample Date: 12/7/01 Sample Time: 0816 Sampler: ID

Expected Concentration: ~~Low~~ Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ NONE	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ ~~ID~~

SAMPLE DESCRIPTION

Matrix: Soil

Sample Depth: 6" - 12"

Aliquots: composite (9 aliquots)

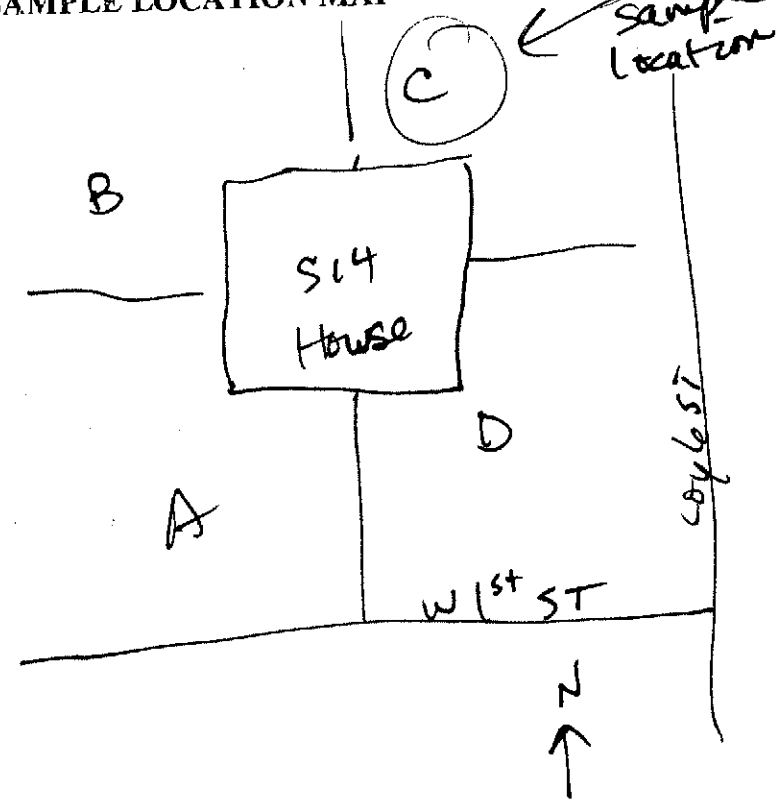
Sample Location: S14 W1st ST
POST
QUAD C
* See site sketch and sample location map

Property Owner/Contact:
Ms. Wilma Adams
S14 W 1st ST
Cherryvale, KS
67335

Comments: POST Screening XRF Readings
428 ± 68; 382 ± 66; 388 ± 66

Avg = 399

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: JOHN KOEHN

Date(s): 11/16/01

Sketch = JK

Address: 515 N 1st ST
Cherryvale, KS
67335

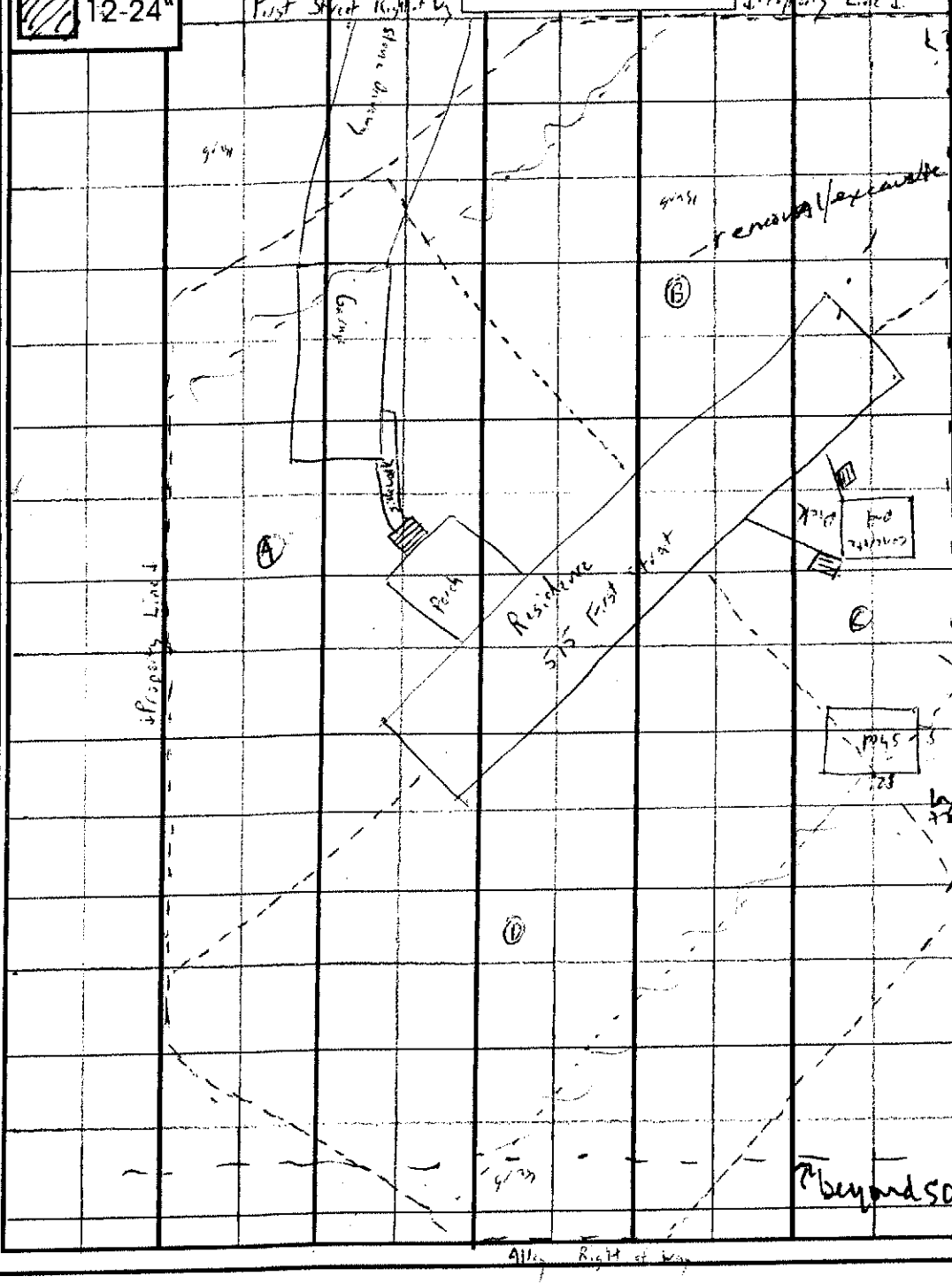
	XRF I.D.	Operator
Pre-Removal:	see below + back of sheet	JD
Post-Removal:	see below	JD

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 20'
N
10
½ Inches



Pre-screening XRF Readings:

QUAD A: <71 (ND); 168±56; 279±78; 370±75; 180±65; 63±37

QUAD B: 609±100; 256 (ND); <63 (ND); 171±53; 284±62

QUAD C: 323±77; 74±38; 355±67; 297±62

QUAD D: 318±67; 314±65; 128±41; 147±44; 375±78; 204±75

12-6-01 1017
POST SCREENING XRF READINGS

QUAD B: 167±53; 823±84; 304±65; 74±36

Here only excavated all (+400 ppm)

12-7-01
post screening XRF beyond 50' south of house

930±120; 485±88

National Zinc Property Checklist

Resident: JOHN KOEHN

Address: 515 W1st ST
Cherryvale, KS
67335

Date: 11/16/01

Field Tech: Ingrid Davis / Jeremy Kaufman

Comments/Observations

* OSC Don Henger spoke with OWNER regarding any items of concern or special interest in yard. Owner stated that there are no items of concern in yard
* owner left access agreement in mailbox for OSC to pickup.

Video/Photographic Documentation

Pre-Excavation: Date: 11-16-01 Taken By: JR Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:26:36-27:29

Post-Excavation: Date: 3/28/02 Taken By: JW Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24-22:17

National Zinc Site Sketch

Name: SMITH, JAY

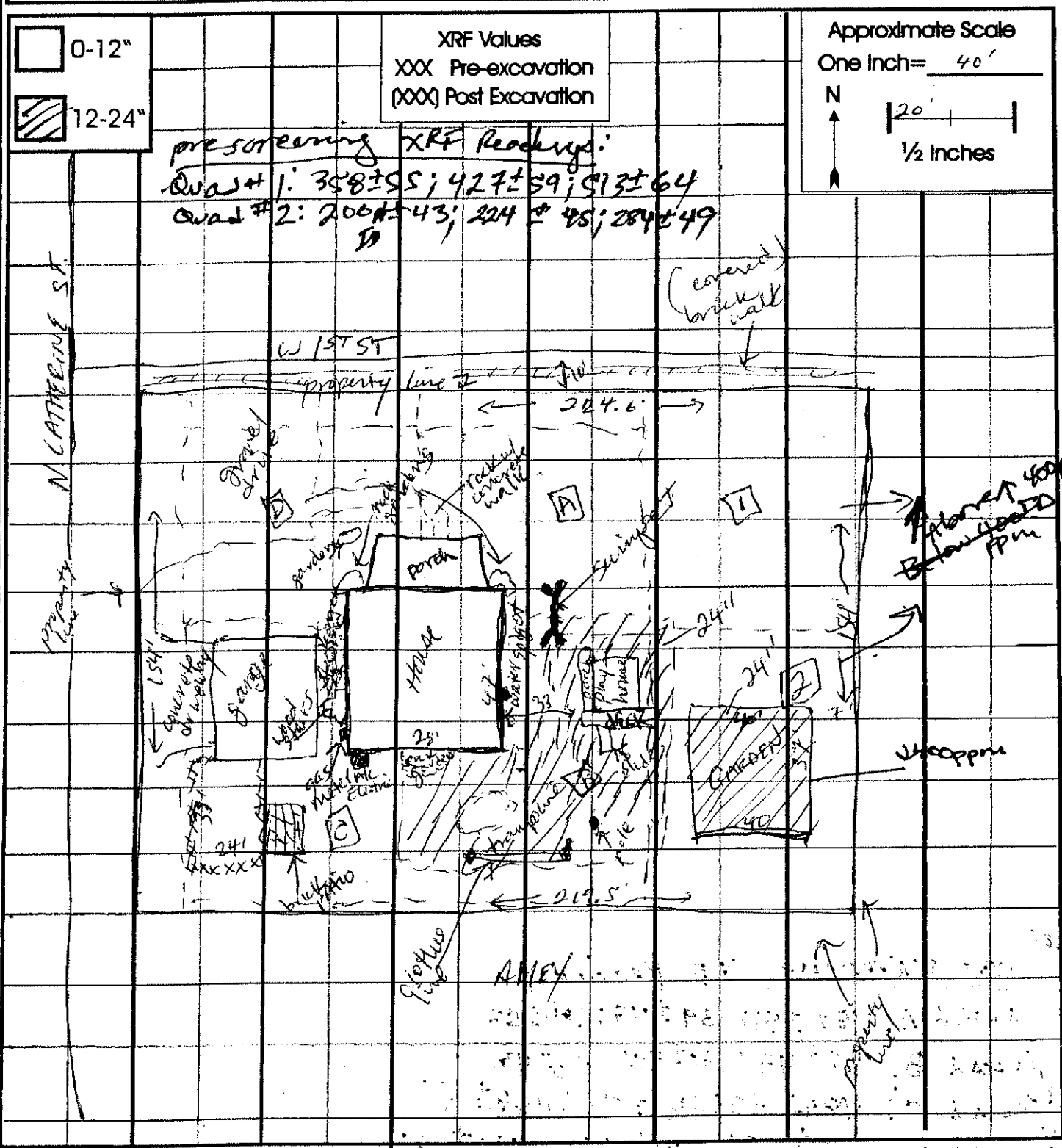
Date(s): 11/20/01

Address: 635 W. 1ST ST
Chanute, KS
67335

XRF I.D. Operator

Pre-Removal: KDHE + START see below ID

Post-Removal: START - See back ID



N= 224.6' x 154' S= 219.5' x 154'

National Zinc Property Checklist

Resident: SMITH, JAY

Date: 11/30/01 + 12/02/01

Address: 635 W. 1st ST
Cherryvale, KS
67335

Field Tech: JD

Comments/Observations

- Resident moves trampoline out of way
- will place gravel in dog pen AREA
- will place gravel under slide @ playhouse
- The knights residence to the east, there fence is located on the Smiths property by a least 5' - which is outside our 50' boundary

Video/Photographic Documentation

Pre-Excavation: Date: 12/3/01 Taken By: JD Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:01:52 - 0:06:55

Post-Excavation: Date: 3/28/02 Taken By: JD Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24-22:17

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ - 019

Project Leader: Don Lininger

Sample Date: 12-12-01 **Sample Time:** 1650 **Sampler:** JO

Expected Concentration: ~~Low~~ Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ NONE JO	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ JO

SAMPLE DESCRIPTION

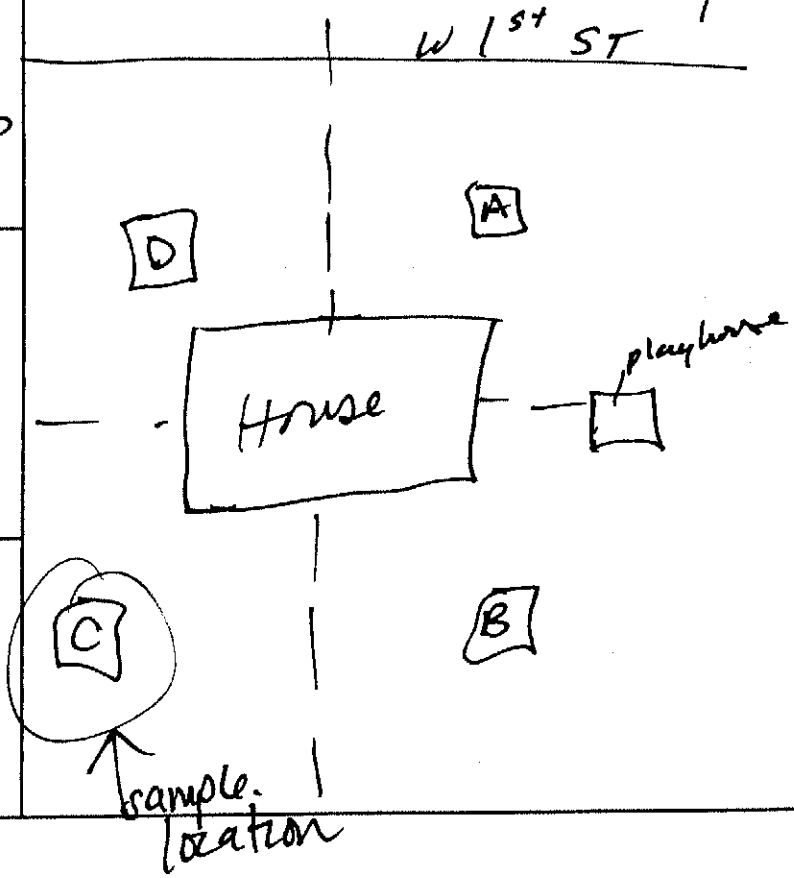
Matrix: Soil **Sample Depth:** 6" - 12" **Aliquots:** composite (9 aliquots)

Sample Location:
635 W 1st ST
* Quad C
* see sample location map

Property Owner/Contact:
JAY SMITH
635 W 1st ST
Cherryvale, KS
67335

Comments:
post screening XRF Readings
484±72; 441±70; 468±71
Avg = 469 (464)

SAMPLE LOCATION MAP



FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ-** 020

Project Leader: Don Lininger

Sample Date: 12-12-01 **Sample Time:** 1620 **Sampler:** ID

Expected Concentration: ~~Low~~ Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
1-8 oz Jar	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

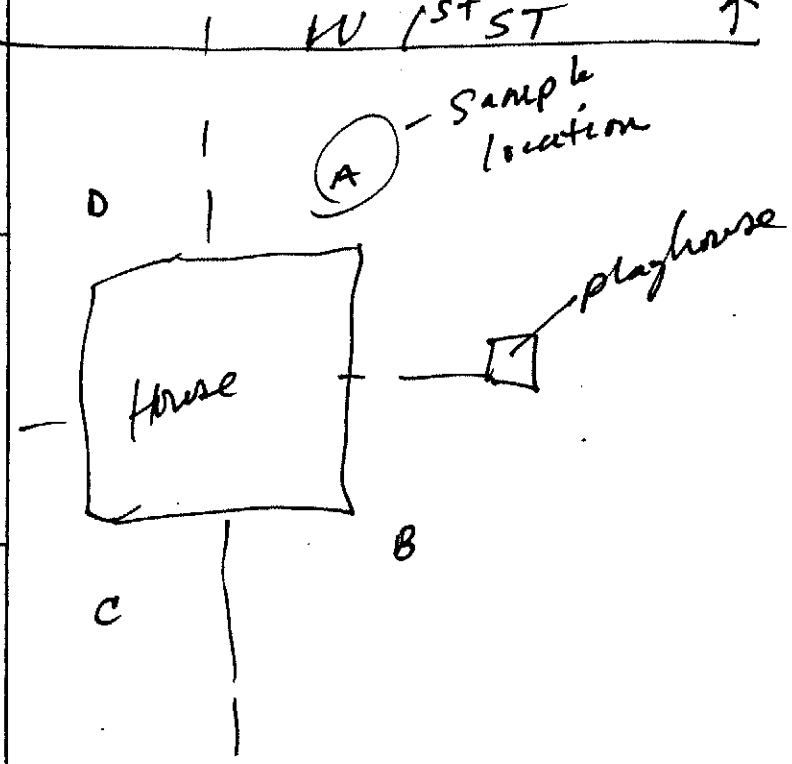
Matrix: Soil **Sample Depth:** 6" - 12" **Aliquots:** composite (9 aliquots)

Sample Location: 635 W 1st ST
Quad A
* see sample location map

Property Owner/Contact:
JAY SMITH
635 W 1st ST
Cherryvale, KS
67335

Comments:
post screening XRF readings
182 ± 51; 139 ± 47; 184 ± 53
AVG = 168

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: CANNON, Stanley resident - Vergil Page

Date(s): 11/29/01

Address: 638 W FIRST
Chanute, KS
66338

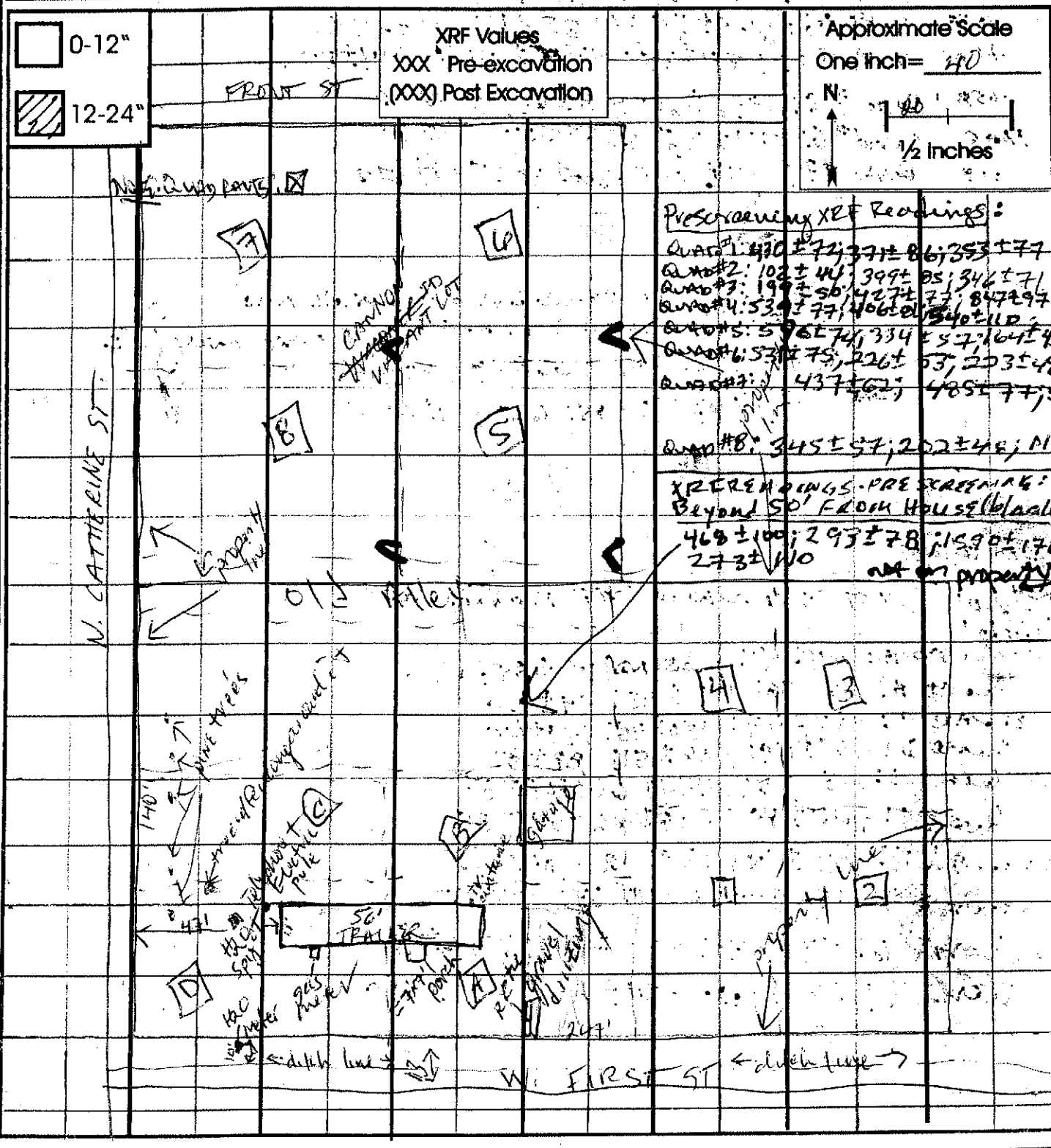
	XRF I.D.	Operator
Pre-Removal:	KDHE - EXCEPT EAST LOT + NORTH Vacant lot	ID
Post-Removal:	see back	see below + back of 12/13/01 field sheet ID

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One inch= 40
N
½ inches



Prescreening XRF Readings:
Quad #1: 430 ± 72; 371 ± 86; 353 ± 77
Quad #2: 102 ± 44; 399 ± 85; 346 ± 71
Quad #3: 199 ± 50; 427 ± 77; 847 ± 97
Quad #4: 534 ± 77; 406 ± 81; 540 ± 110
Quad #5: 596 ± 74; 334 ± 57; 164 ± 48
Quad #6: 537 ± 75; 226 ± 53; 203 ± 48
Quad #7: 437 ± 62; 485 ± 77; 590 ± 7
Quad #8: 345 ± 57; 202 ± 46; 116 ± 4

XRF Readings - Pre Screening: Room Beyond 50' From House (b/alley)
468 ± 100; 293 ± 78; 1590 ± 170; 273 ± 110
not on property

247 x 140

National Zinc Property Checklist

Resident (CANNON, Stanley) resident: Vergil Page Date: 11/29/01 + 11/30/01

Address: 639 W FIRST
CHERRYVALE, KS
67335

Field Tech: JD

Comments/Observations

- DOG PEN WAS MOVED OUT OF THE WAY BY RESIDENTS
- WILL LEAVE WALKWAY FROM DRIVEWAY TO FRONT PORCH
- WILL WORK AROUND PILE OF RAILROAD TIES LOCATED EAST OF DRIVEWAY

Video/Photographic Documentation

Pre-Excavation: Date: 11/30/01 Taken By: JD Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:09:01 - 043:07

Post-Excavation: Date: 3/28/02 Taken By: JD Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24 - 22:17

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ -** 022

Project Leader: Don Lininger

Sample Date: 12/13/01 **Sample Time:** 1140 **Sampler:** DD

Expected Concentration: ~~Low~~ Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ NOTE DD	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ DD

SAMPLE DESCRIPTION

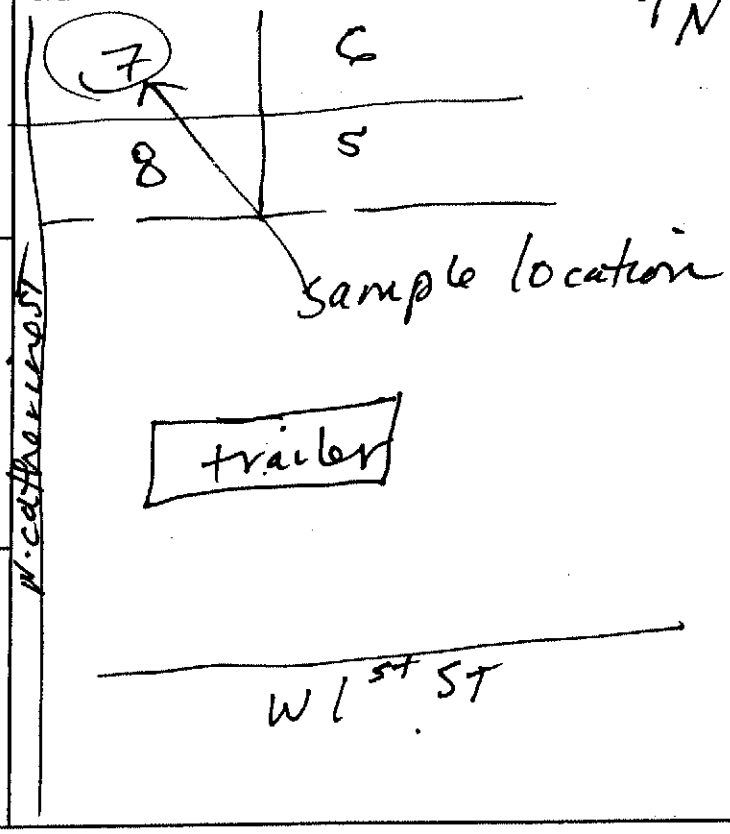
Matrix: Soil **Sample Depth:** 6" - 12" **Aliquots:** composite (9 aliquots)

Sample Location:
638 W 1st ST
Quad 7
* See sample location map

Property Owner/Contact: resident Vergil Page
Cannon, Stanley
638 W 1st ST
Cherryvale, KS
67335

Comments: Post screening XRF Readings
381±64; 334±62; 321±59
Avg > 345

SAMPLE LOCATION MAP



FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ -** 021

Project Leader: Don Lininger

Sample Date: 12/12/01 **Sample Time:** 1450 **Sampler:** DD

Expected Concentration: Low Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ None DD	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ DD

SAMPLE DESCRIPTION

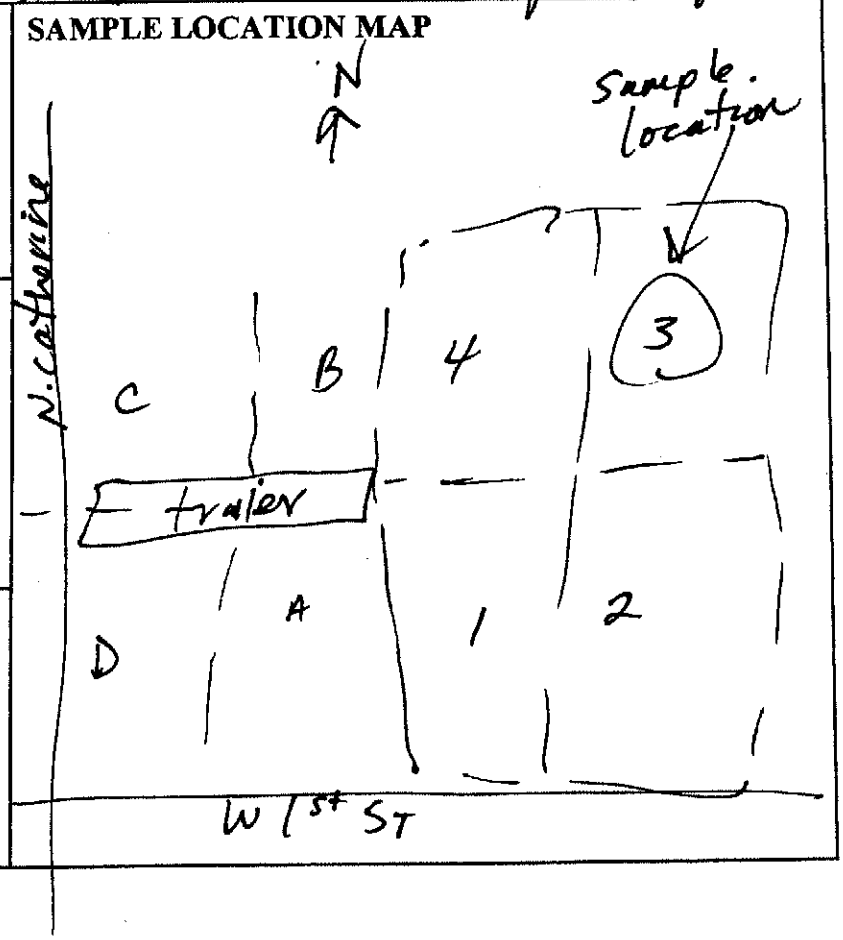
Matrix: Soil **Sample Depth:** 6" - 12" **Aliquots:** composite (9 aliquots)

Sample Location:
638 W 1st ST
Quad 3
* see sample location map

Property Owner/Contact: resident: Vergil Page
Cannon, Stanley
638 W 1st ST
Cherryvale, KS
67335

Comments:
Postsen XRF Readings:
744 ± 89; 678 ± 86; 691 ± 85
Avg = 704

SAMPLE LOCATION MAP



FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ - 023

Project Leader: Don Lininger

Sample Date: 12/13/01 **Sample Time:** 1150 **Sampler:** DD

Expected Concentration: ~~Low~~ Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ DD NONE	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ DD

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 6" - 12" **Aliquots:** composite (9 aliquots)

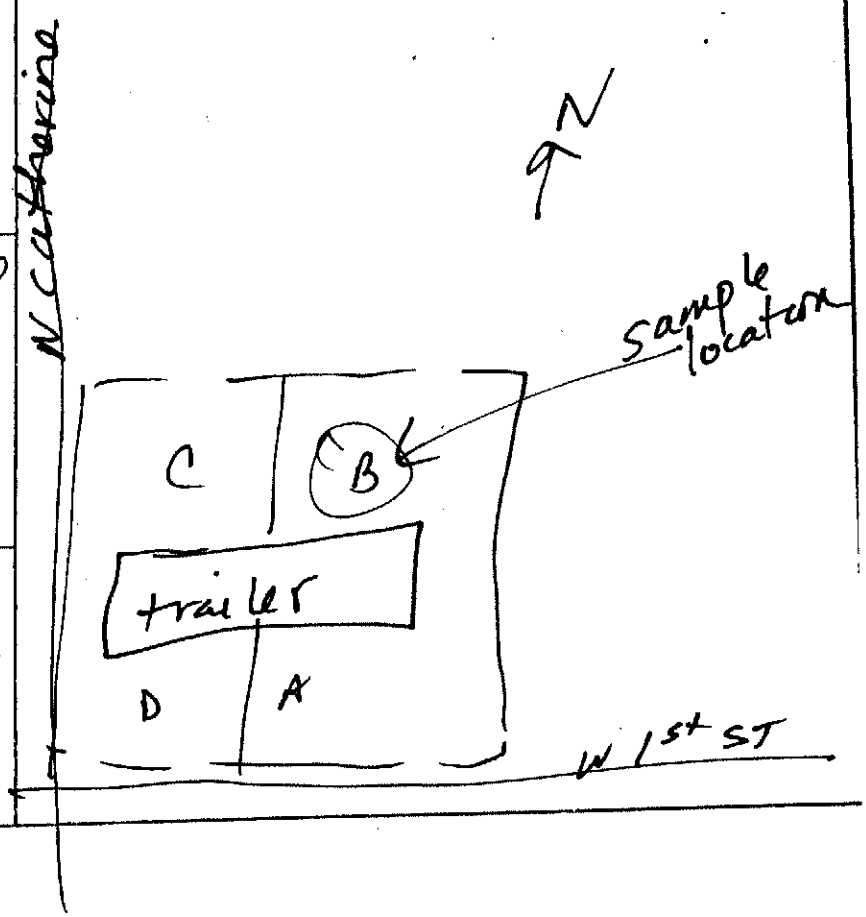
Sample Location:
638 W 1st ST
~~Quad~~ B

*See sample location map

Property Owner/Contact: resident Vergil Page
Cannon Stanley
638 W 1st ST
Cherryvale, KS 67335

Comments: Post Screening ~~XRF~~ Readings
76 ± 38; 111 ± 42; 79 ± 39
Avg = 89

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: Arias, Engracia (Silvia Shaffer) Date(s): 12/5/01

Address: SW Corner of School ST and W. 1st ST, Vacant lot Chanute, KS 67335

XRF I.D. Operator

Pre-Removal: KOHE - see attached XRF ID / see below ID

Post-Removal: START - see below ID

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

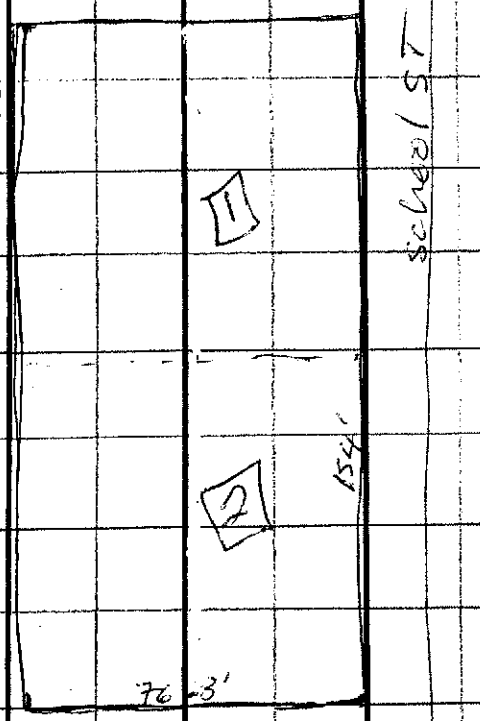
Approximate Scale
One Inch= 40'
N
20'
½ Inches

Quadrant's = 5

pre screening xrf readings by KDHE
North - 474 ppm
South - 516 ppm + 592 (Dup) ppm

WEST 1st ST

12.14.01
post screening XRF Readings
QUAD 1: 367±69; 321±65; 445±73
QUAD 2: 246±61; 426±76; 378±68



76.3' x 154'

National Zinc Property Checklist

Resident: Arias, Engracia (Silvia Shaffer) Date: 12/5/01

Address: Vacant lot at SW corner of W 1st ST and School ST

Field Tech: IO

Comments/Observations

NO CONCERNS OR COMMENTS

Video/Photographic Documentation

Pre-Excavation: Date: 12-5-01 Taken By: IO Roll#(s)Tape(s)#: 3 Frame#(s)/Tape Counter 0:00:00 - 0:01:29

Post-Excavation: Date: 3/28/02 Taken By: SM Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24-12:17

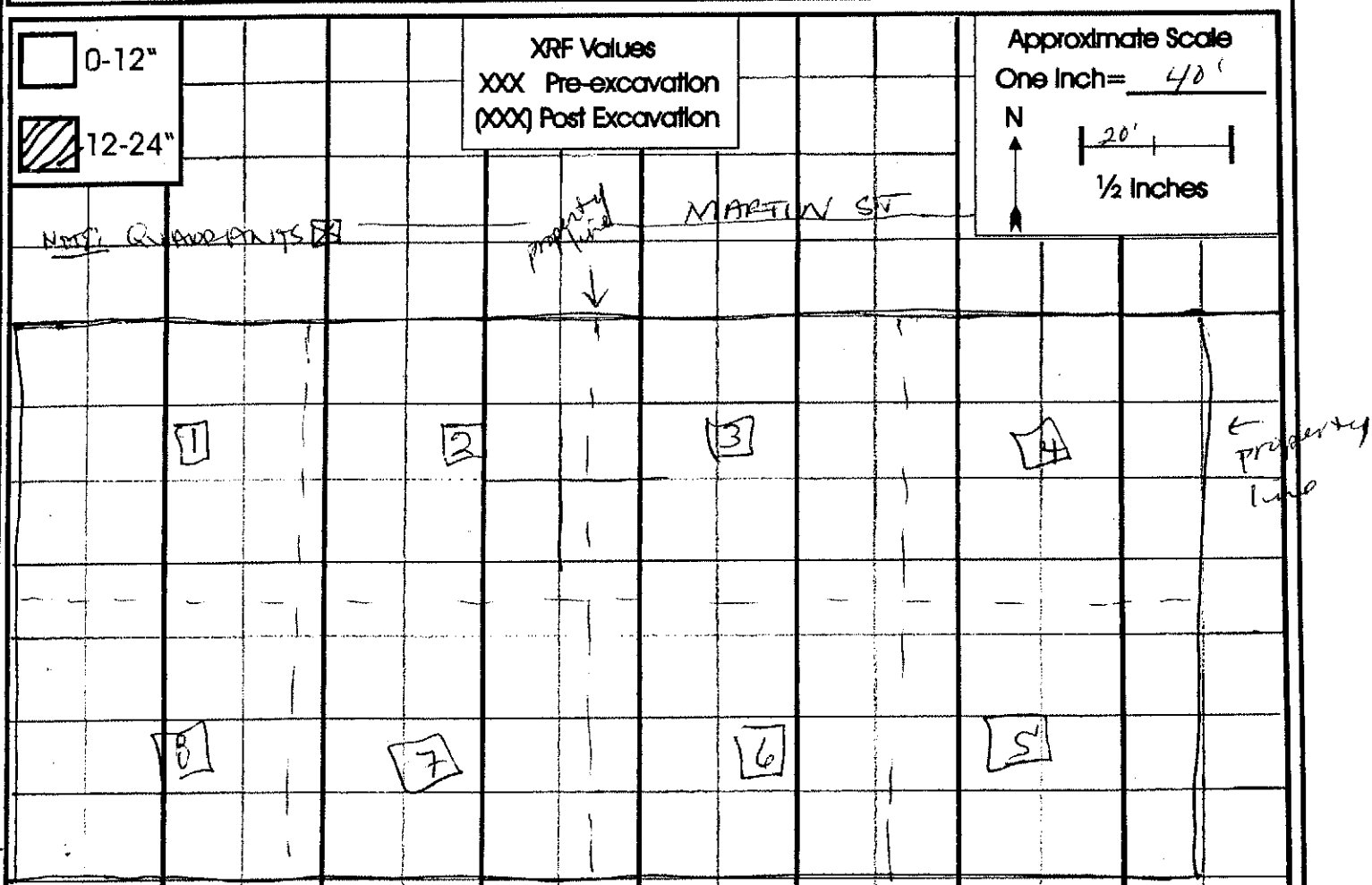
National Zinc Site Sketch

Name: MAGNUM, EJ + Jennie Date(s): 11/30/01

Address: 0 MARTIN ST XRF I.D. Operator

Cherryvale, KS Pre-Removal: START - see below ID

67335 Post-Removal:



11.30.01
1400
9 [illegible] samples

NOTE: THERE IS A LOT OF DEBRIS IN YARD eg. glass, brick, metal

PRESCREENING XRF Readings are: QUAD 1: 978±86; 939±92; 867±88
QUAD 2: 1750 ± 130; 1800±130; 1720±130; 1600±130
QUAD 3: 1610±120; 1480±120; 1600±130
QUAD 4: 876±98; 846±91; 982±99
QUAD 5: 906±87; 1120±100; 1040±96
QUAD 6: 1960±140; 1550±130; 1820±130
QUAD 7: 2040±140; 2420±160; 2200±150
QUAD 8: 1330±110; 1370±110; 1230±100

National Zinc Property Checklist

Resident: MAGNUM, EJ + Jennie

Date: 11/30/01

Address: 0 MARTIN ST
Cherryvale, KS
67335

Field Tech: FD

Comments/Observations

NO concerns or comments

Video/Photographic Documentation

Pre-Excavation: Date: 11/30/01 Taken By: SD Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:00:00 - 0:01:52

Post-Excavation: Date: 11/30/01 Taken By: SD Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 0:15:36 - 0:38:14

National Zinc Site Sketch

Name: Steve Page

Date(s): 11/6/01

Address: 511 W Martin ST
Cherryvale, KS
67335

XRF I.D. Operator

Pre-Removal: see back of field sheet / ID

Post-Removal:

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 100'

50'

½ Inches

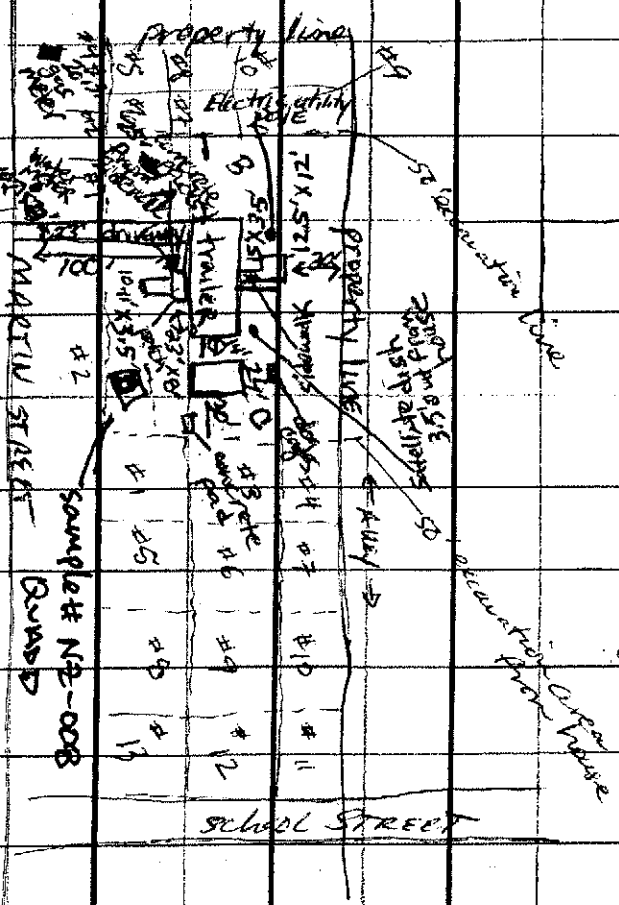
PRE SCREENING VALUES BY HOME
NORTH: 562 ppm
SOUTH: 489 ppm

11/13/01

post screening XRF

A: <69; 252 ± 85; 332 ± 89
B: 274 ± 95; 175 ± 48; 233 ± 60
C: 483 ± 88; <71 (ND); 213 ± 64
D: <110 (ND); <72 (ND); <60 (ND)

NORTH = A + D
SOUTH = B + C



National Zinc Property Checklist

Resident: Steve Page

Date: 11/6/01

Address: 511 W Martin Street
Cherryvale, KS
67335

Field Tech: Ingrid Davis

Comments/Observations

- Two trees in front of house (approximately 10' in front) do not damage - planted with his grandaughter
- Electric line running from south of house off of pole to shed
- telephone on west side of house goes to edge of drive
- gas in front to left (W) of stairs at front entrace
- shed in rear (S) of house
- shed to west of house
- take XRF readings every 25' from 50' line from house on/at east of driveway
- Nitron XRF Readings taken every 50' From/outside of 50' excavation line from house on west side of driveway + garage

Video/Photographic Documentation

Pre-Excavation: Date: 11/6/01 Taken By: SD Roll#(s)Tape(s)#: 1 Frame#(s)/Tape Counter 0:00:00 - 0:08:41

Post-Excavation: Date: 1/22/02 Taken By: SD Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 0:00:00 - 0:15:36

*includes other property

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ -** 001

Project Leader: Don Lininger

Sample Date: 11/7/01 **Sample Time:** 1047 **Sampler:** Ingrid DAVIS

Expected Concentration: Low Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~ 40	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 0"-2" **Aliquots:** composite

Sample Location:

511 W Martin ST
West pasture: see sample location map
sample location is cell #12

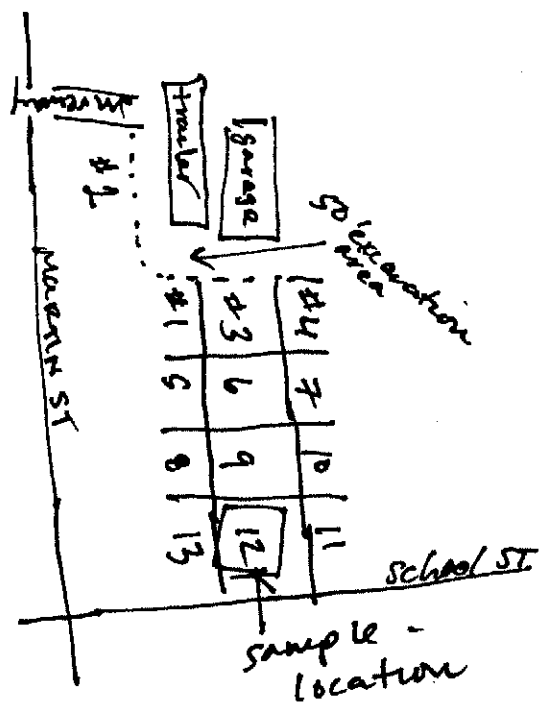
Property Owner/Contact:

Mr. Steve Page
511 W Martin ST
Cherryvale, KS
67335

Comments: pre-screening XRF readings:
1560 ± 140
1560 ± 130
1550 ± 130
average = 1554
~~average 1554 ± 130~~

SAMPLE LOCATION MAP

N ↔ S



FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ -** 008

Project Leader: Don Lininger

Sample Date: 11/13/01 **Sample Time:** 1450 **Sampler:** Ingrid Downs

Expected Concentration: (Low) Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1 8 oz Jar~~ 50	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

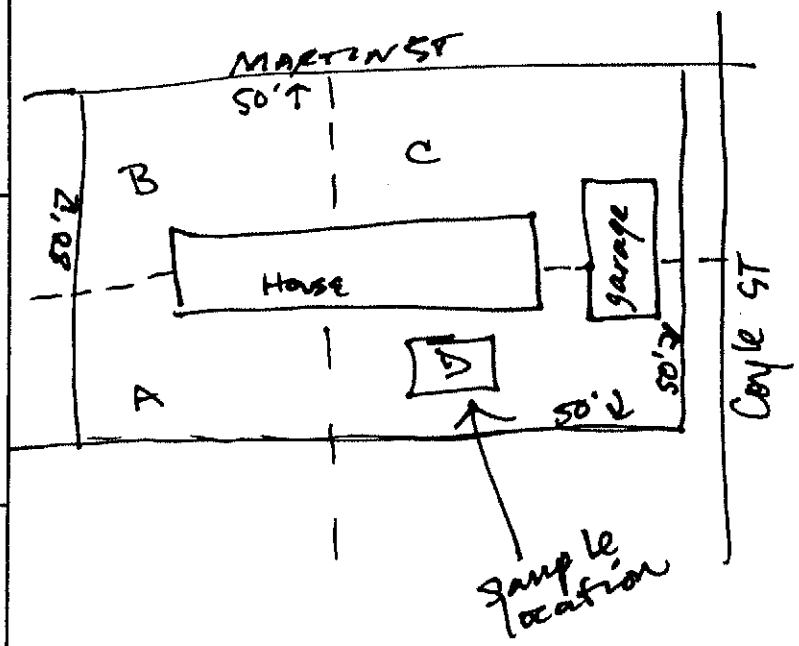
Matrix: Soil **Sample Depth:** ~~0-6~~ 6" - 12" **Aliquots:** 9 (aliquots) composite

Sample Location: 511 Martin ST
- QUAD D (see site sketch in log bk
- ~~N~~ W corner of house (within 50' from house)

Property Owner/Contact:
Mr. Steve Page
511 W. Martin ST
Cherryvale, KS
67335

Comments:
- post excavation
- XRF Readings
132 ± 48
146 ± 49
66 ± 40
average: ~~1247.000~~ 115 (115)

SAMPLE LOCATION MAP



National Zinc Site Sketch

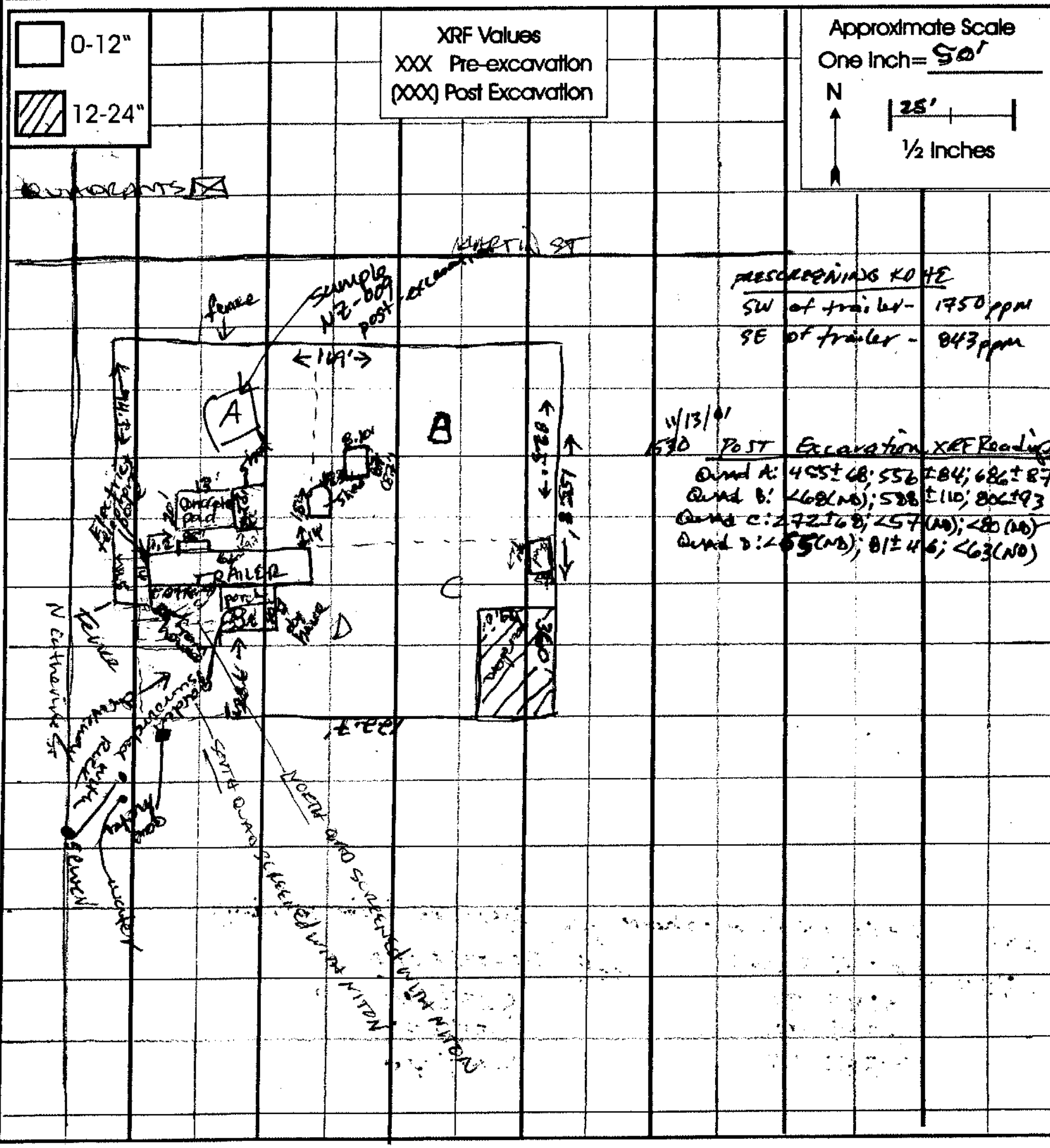
Name: Mr. Floyd Thompson

Date(s): 11/6/01

Address: 629 ~~Thompson~~ MARTIN
Cherryvale, KS
67335

see back of field sheet

	XRF I.D.	Operator
Pre-Removal:	~~NORTH~~ KDHE - see below	~~DD~~ ID
Post-Removal:	see below	DD



National Zinc Property Checklist

Resident: Mr. + Mrs Floyd Thompson

Date: 11/06/01

Address: 629 N. Martin Street
Cherryvale, KS
67335

Field Tech: ID

Comments/Observations

DAVIS performs site walk through with owner, OSC, and IT crew
* trees to be removed are marked with paint and owner is present to decide (Ash + maple trees stay) cottonwood to stay
* leave tree at gate on N Catherine st. (tree is immediately at gate)
* garden to be removed in SE corner to 24"
* XPF areas in front of gate on N Catherine ST, by house entrance + utility lines (gas meter, sewer, telephone (on N side))
* All areas within fenced yard are to be excavated to 12", except garden to be excavated to 24"

Video/Photographic Documentation

Pre-Excavation: Date: 11/6/01 Taken By: ID Roll#(s)Tape(s)#: 1 Frame#(s)/Tape Counter ~~0:00:00~~ 0:00:06 - 0:11:43

Post-Excavation: Date: 1/22/02 Taken By: ID Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 0:15:36 - 0:38:14 (includes other properties)

last reading on tape from previous ID

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ-009

Project Leader: Don Lininger

Sample Date: 11/13/01 **Sample Time:** 1635 **Sampler:** ID

Expected Concentration: ✓Low Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Metbod SW-846 6020
~~1-8 oz Jar~~ ID	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 6"-12" **Aliquots:** 9 (composite)

Sample Location:
629 Martin ST
- QUAD A & NW CORNER in fenced area? see site sketch field sheet + sample location map →

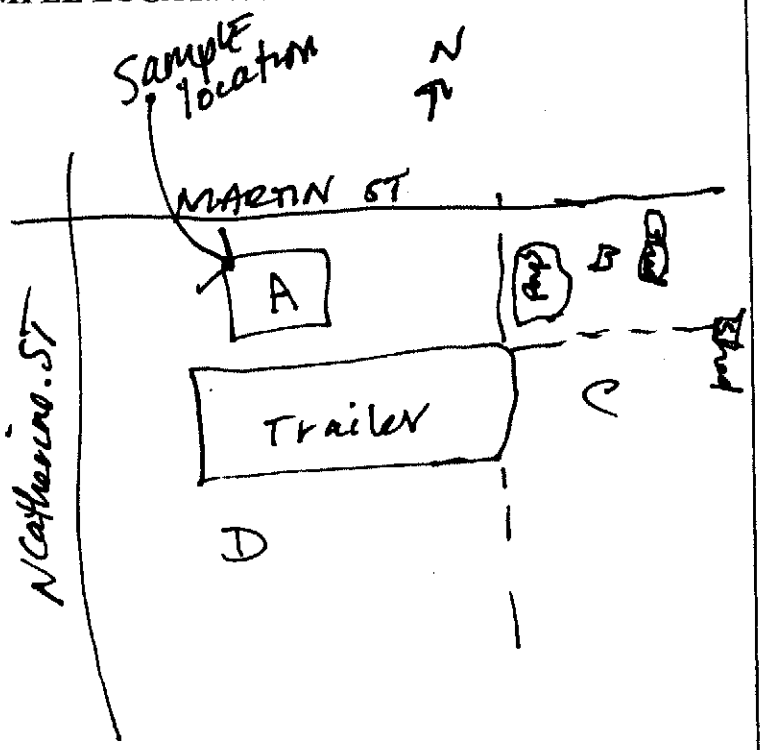
Property Owner/Contact:
Mr. Floyd Thompson
629 MARTIN
Cherryvale, KS
67335

Comments: POST. EXCAVATION sample

XRF Readings (ppm)
~~684±83~~ ID 455±68
~~431±68~~ ID 556±84
~~503±73~~ ID 686±87
~~Average = 59~~ ID ppm

Average = 566ppm

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: Cynthia Hodgden

Address: 512 Front St
Cherryvale, KS
67335

Date(s): 11/8/01

Operator: [illegible]

	QUAD A XRF I.D.	QUAD B
Pre-Removal:	469±69	667±80
	383±66	668±77
	457±70	597±77
Post-Removal:		

0-12"

12-24"

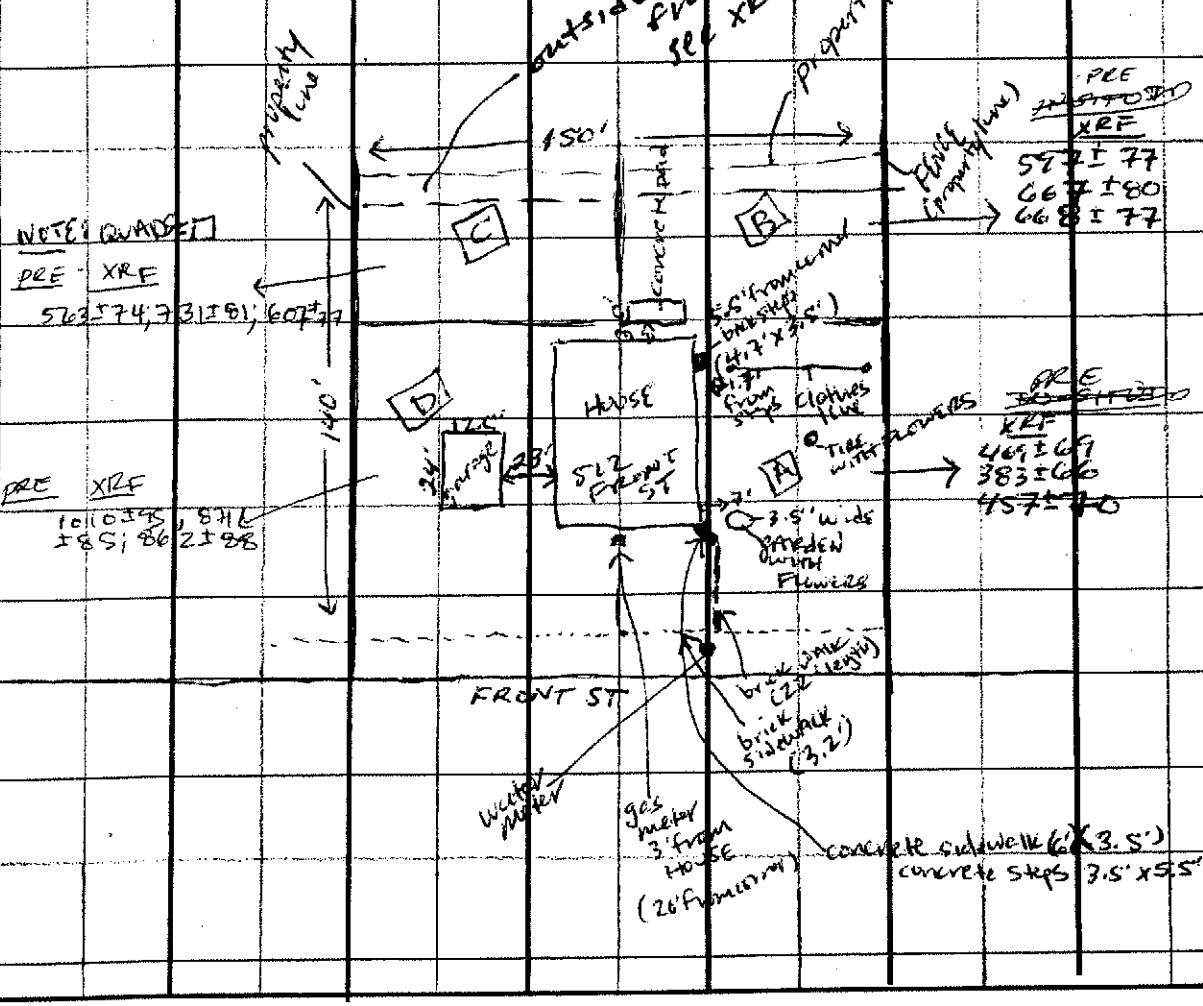
XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 50'
N
29'
½ Inches

POST SCREENING XRF: (9 A1 quots sampled) 3x XRF

QUAD A: 944±79; 1080±110; 934±100
QUAD B: 813±94; 782±90; 874±98
QUAD C: 736±93; 1020±110; 781±97
QUAD D: 1130±110; 1200±130; 1010±110

outside of 50' from house see XRF readings for post screening on back of field sheet



National Zinc Property Checklist 11/8/01 - ID

Resident: CYNTHIA HODGEN - OWNER

Date: 11/9/01

Address: 512 FRONT ST.
Cherryvale, KS 67335

Field Tech: DON LUNINGER

Comments/Observations

- HOME IS RENTED OUT - RENTERS ARE AWARE OF REMOVAL ACTIVITIES.
- obtained access agreement
- NO KNOWN GAS WELL
- cistern behind house is covered w/ concrete slab
- ok to remove stumps to the North & east of house
- ok to remove strawberry bed in front corner of house - will not be replaced by EPA
- ok to remove flower bed in tire in front yard - will not replace flower bed
- sewer cleanout on N side of house - exposed & cracked

Video/Photographic Documentation

Pre-Excavation: Date: 11/8/01 Taken By: ID Roll#(s)Tape(s)#: 1 Frame#(s)/Tape Counter 0:00:0 - 0:3:53

Post-Excavation: Date: 1/22/02 Taken By: ID Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 0:00:00 - 0:15:36 (includes other properties)

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ-** 002

Project Leader: Don Lininger

Sample Date: 11/8/01 **Sample Time:** 1450 **Sampler:** Ingrid Davis

Expected Concentration: Low ~~Medium~~ High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~ 1D	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 0"-1" **Aliquots:** composite (9)

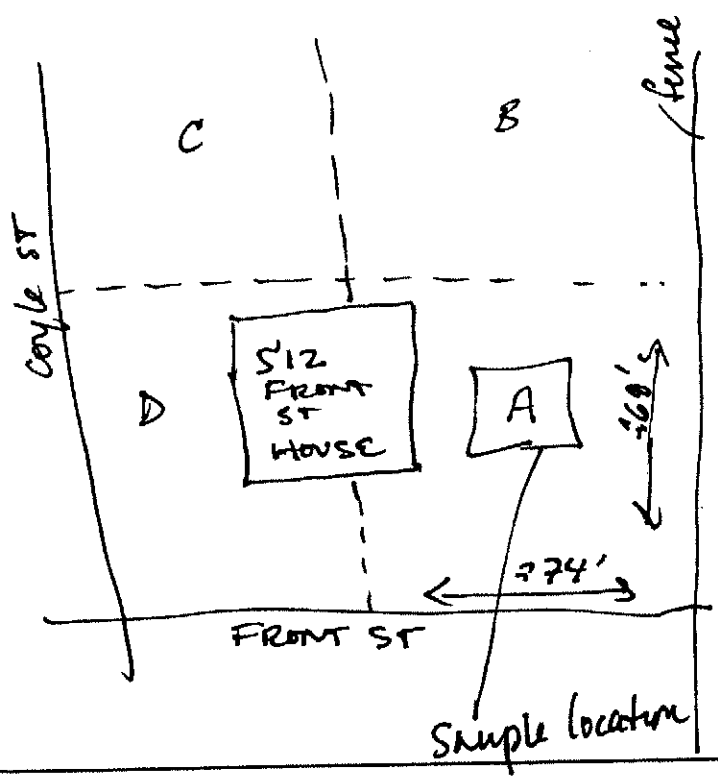
Sample Location: 512 FRONT ST
Quad A
- SE of house at 512 Front St; approximately 68' x 74' quadrant
see sample location map

Property Owner/Contact:
Miss Cynthia Hodgden
512 Front ST
Cherryvale, KS
67335

Comments: Pre ~~post~~ In excavation
Niton XRF Readings: 469 ± 69
383 ± 66
457 ± 70

average = 436

SAMPLE LOCATION MAP



FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ-** 003

Project Leader: Don Lininger

Sample Date: 11/8/01 **Sample Time:** 1500 **Sampler:** Ingrid Davis

Expected Concentration: Low ✓Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~ 10	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

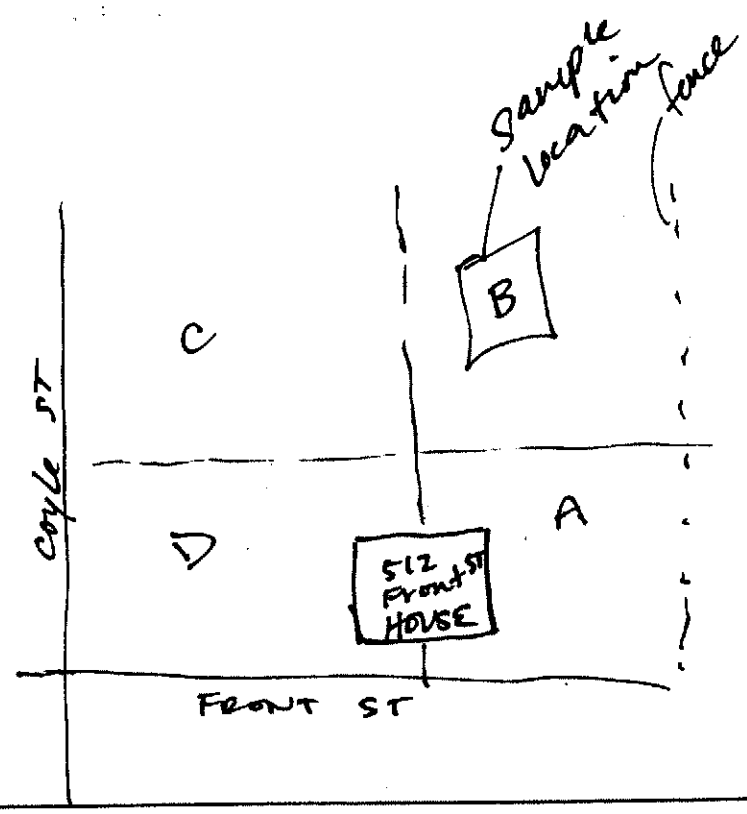
Matrix: Soil **Sample Depth:** 0"-1" **Aliquots:** composite (9)

Sample Location: 512 FRONT ST
Quad B
- NE of house at 512 Front ST.
≈ 68' x 74' quadrant
- see sample location map

Property Owner/Contact:
Miss Cynthia Hodgden
512 Front ST
Cherryvale, KS
67335

Comments: Pre-screening
Niton XRF Readings: (ppm)
667 ± 80
668 ± 77
597 ± 77
average = 644

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: Rick Valverde

Date(s): 11/9/01

Address: 520 W Front ST
Cherryvale, KS
67335

	XRF I.D.	Operator
Pre-Removal:	KOHE 805ppm	ID - N/A
Post-Removal:	See below	ID

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

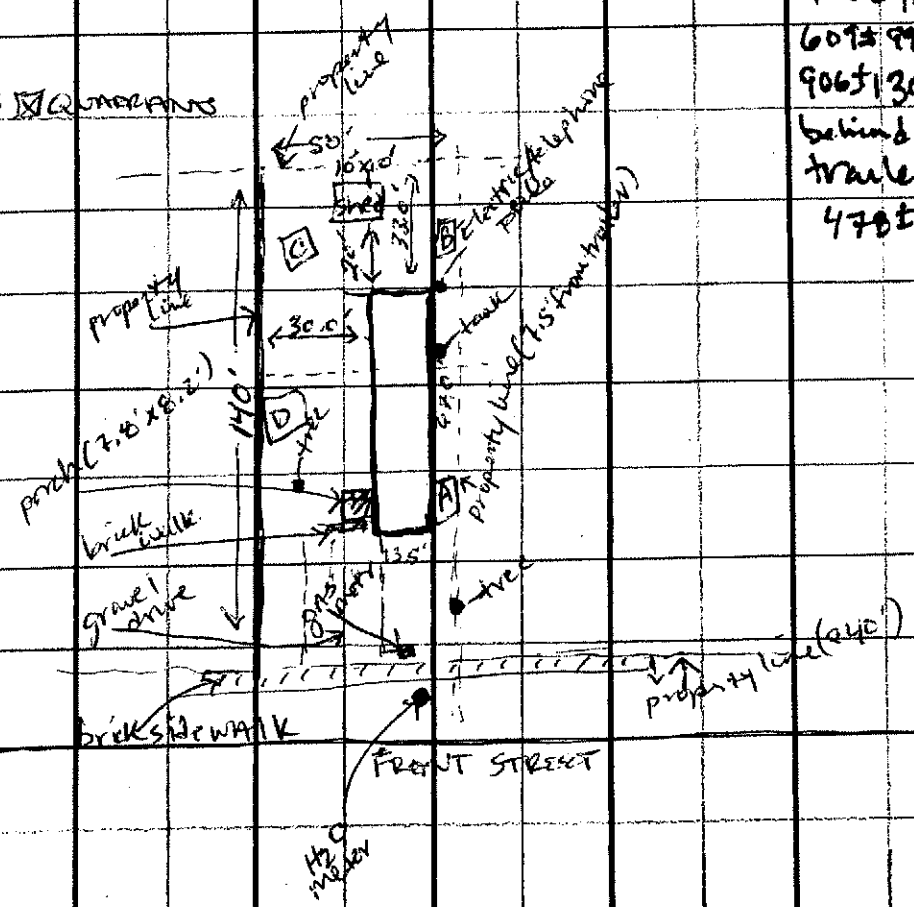
Approximate Scale
One Inch= ~~20~~ 50'
N
25'
½ Inches

NOTE: KOHE prescreened

POST EXCAVATION XRF READINGS: QUAD A: 1610± 160; 226±69; 191±60
QUAD B: <70(ND); 388±86; 68±41
QUAD C: 178±69; <70(ND); <67(ND)
QUAD D: 825±77; 1020± 120 (trees)
↳ (trees); 554±85

3/28/02 → XRF READINGS, PRESCREENED, AT FORMER TRAILER LOCATION AREAS FOLLOWS: 1220±150; 915±150; 540±119; 1140±150; 708±100; 1250±150; 609±99; 638±110; 906±130; 905±120
behind current trailer: 1070±130; 478±83; 619±100

NOTE: ☒ QUADRANTS



National Zinc Property Checklist

Resident: Rick Valverde

Date: 11/9/01

Address: 520 W Front ST
Cherryvale, KS
67335

Field Tech: ID

Comments/Observations

* DAVIS spoke with Residents mother (her son lives in trailer) and asked her if there were any special (trees) or critical items in the yard that need to be moved or left undisturbed during excavation. She stated that the tree to the west of the trailer should remain and no other known items were stated.
* DAVIS asked about any underground tanks/pipes. Mrs Valverde stated that there is a tank at the NE of trailer, visible from ground surface. DAVIS flags with yellow paint (tank is visible from ground surface).

Video/Photographic Documentation

Pre-Excavation: Date: 11/9/01 Taken By: ID Roll#(s)Tape(s)#: 1 Frame#(s)/Tape Counter 14:52 (includes # 524 Front)

Post-Excavation: Date: 1/22/02 Taken By: ID Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 0-15:36

National Zinc Site Sketch

Name: Billie Jabben-Bryce

Date(s): 11/9/01

Address: 524 W Front ST
Cherryvale, KS
67335

	XRF I.D.	Operator
Pre-Removal:	KDHE 1450 ppm	ID/N/A
Post-Removal:	see below	ID

0-12"

12-24"

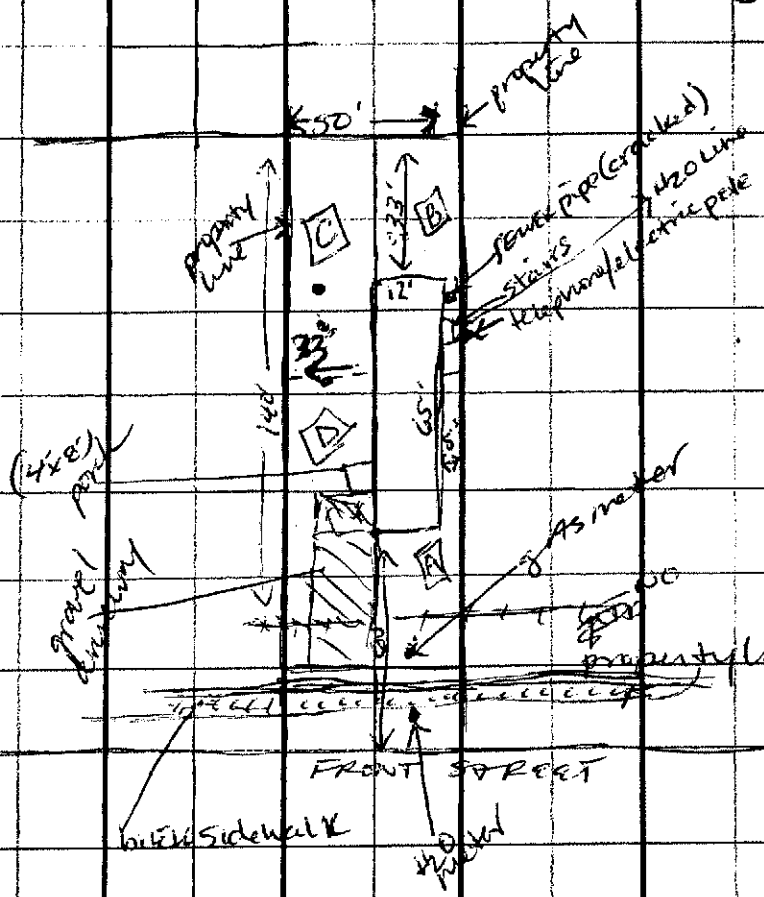
XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One inch= 50'
N
25'
½ Inches

NOTE: PRESCREENING PERFORMED BY KDHE:
XRF READINGS FOR POST EXCAVATION ARE:
QUAD A: 1690±150; 1150±120; 806±98
QUAD B: 596±87; 728±97; <77 (ND)
QUAD C: 320±87; 1170±140; 1860±176
QUAD D: 514±79; 1730±140

XRF Readings under former trailer: 806±98; <67 (ND); 187±61; <60 (ND)

NOTE: QUADRANTS ☒



NOTE: TRAILER BURNED DOWN IN NOV.

National Zinc Property Checklist

Resident: Billie Jabben-Bruce

Date: 11/15/01

Address: 524 Front
Chanute, KS
66335

Field Tech: ID

Comments/Observations

+ no items of concern
* trailer burned down in Nov.

Video/Photographic Documentation

Includes 520 print

Pre-Excavation: Date: 11/9/01 Taken By: ID Roll#(s)Tape(s)#: 1 Frame#(s)/Tape Counter 14:52

Post-Excavation: Date: 11/21/02 Taken By: ID Roll#(s)Tape(s)#: 3 Frame#(s)/Tape Counter 14:57 - 15:20

Internal counter with other properties

0:00:00 - 0:15:36

National Zinc Site Sketch

Name: Arvid Lundquist

Date(s): 11/9/99

Address: 530 Front ST
Cherryvale, KS
67335

	XRF I.D.	Operator
Pre-Removal:	see values below	ID
Post-Removal:		

0-12"

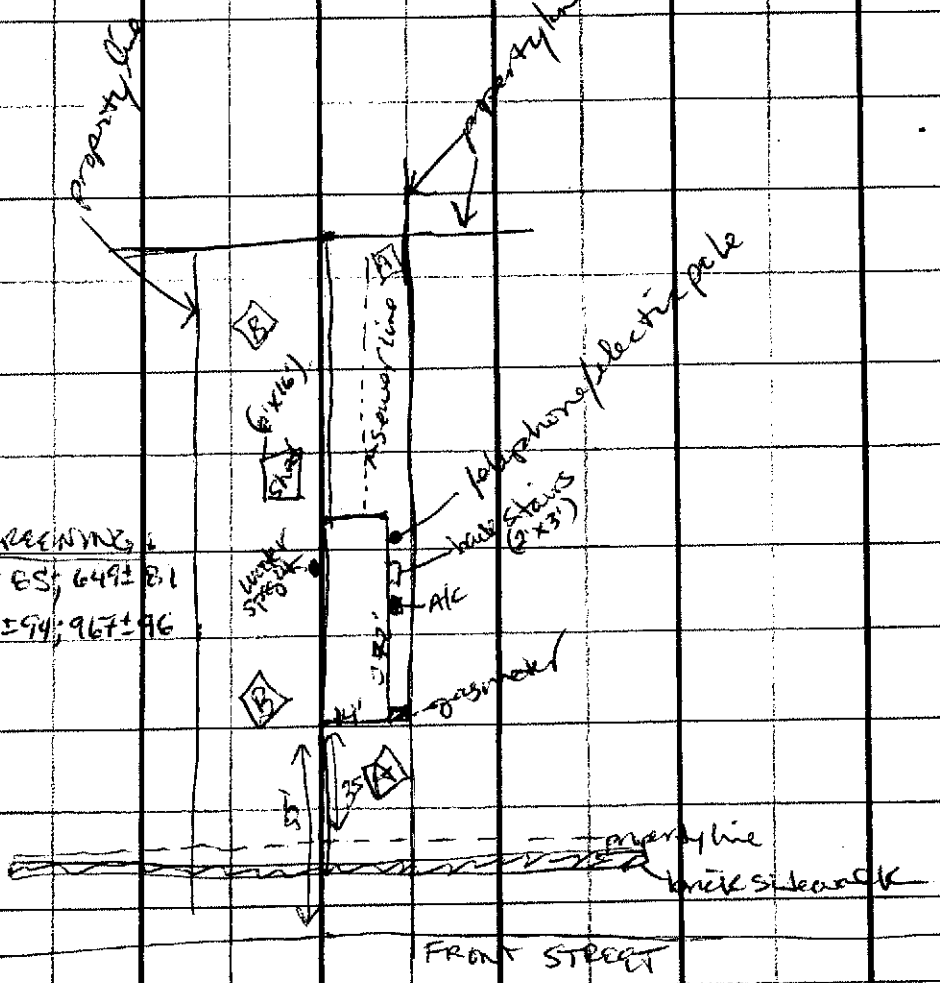
12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 50'
N
05'
½ Inches

~~QUAD A~~ (1)
~~QUAD B~~

XRF READINGS POST EXCAVATION:
QUAD A: <66(ND); 110±50; 330±70
NORTH ← QUAD A 1540±150 (Tweed); 790±92; <62 (ND)
QUAD B 1400±140; 229±64; <52 (ND); <60 (ND)
SOUTH ← QUAD B <72 (ND) <62 (ND); 1470±130 (Tweed)



XRF READINGS PRE SCREENING:
QUAD A: 653±81; 680±85; 649±81
QUAD B: 959±95; 903±94; 967±96

National Zinc Site Sketch

Name: Arvid Lindquist

Date(s): 11/9/01

Address: 536 Front St
Cherryvale, KS
67335

XRF I.D. | Operator

Pre-Removal: see values below | ID

Post-Removal:

0-12"

12-24"

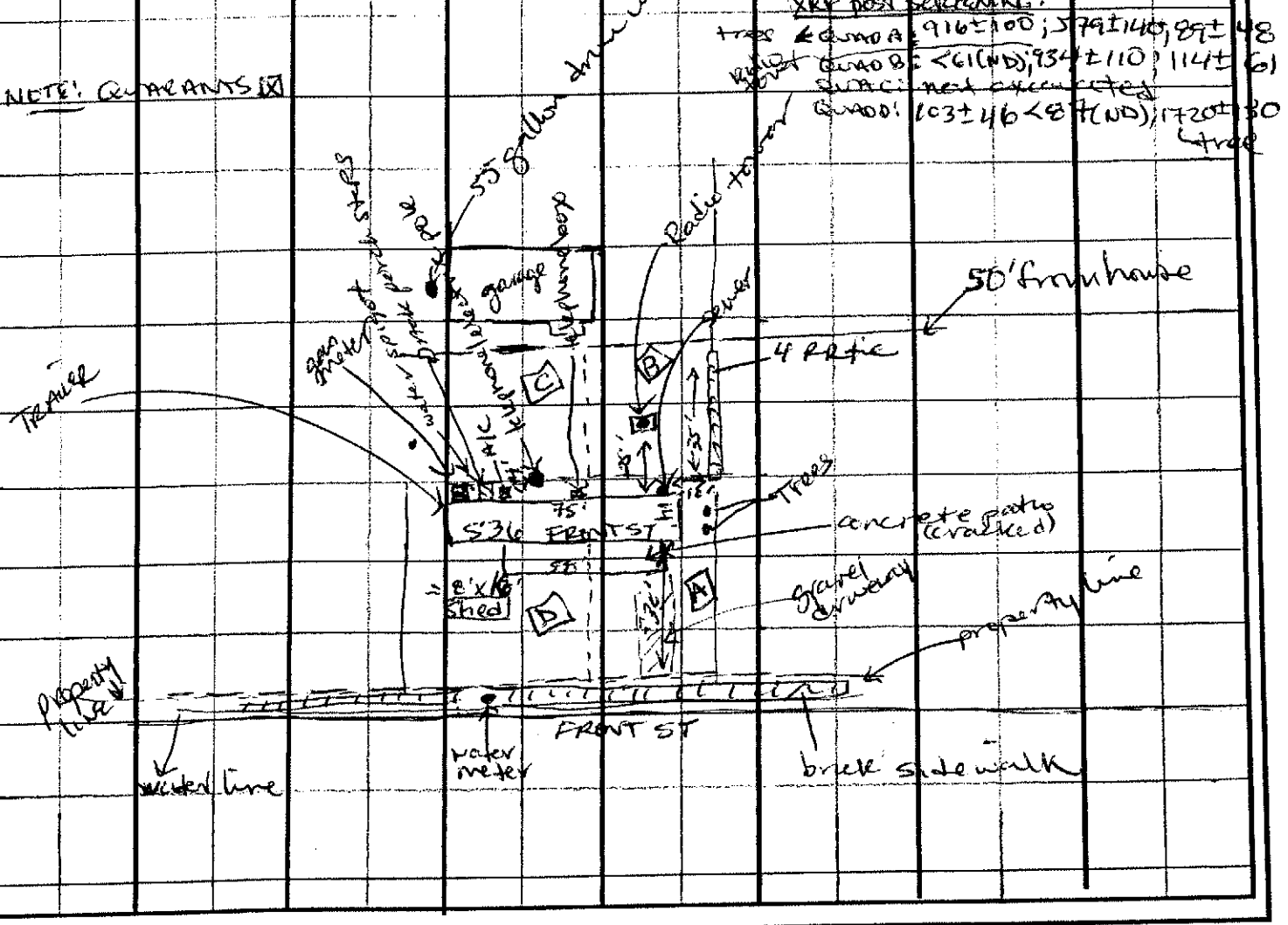
XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 50'
N
25'
½ Inches

XRF Readings Pre Screening:
QUAD A: 658±81; 573±79; 637±80
QUAD B: 743±86; 823±89; 870±94
QUAD C: 368±74; 344±71; 363±74
QUAD D: 614±78; 502±73; 507±78

XRF Post Screening:
QUAD A: 916±100; 579±140; 89±48
QUAD B: <61(ND); 934±110; 114±61
QUAD C: not excavated
QUAD D: 103±46 <87(ND); 1720±30

NOTE: Quadrants ☒



National Zinc Property Checklist

Resident: Arvid Lundquist, JR

Date: 11/9/01

Address: 530 Front ST
Cherryvale, KS
67335

Field Tech: JD

Comments/Observations

* Sewer line from trailer runs North of trailer (DAVIS put flags on area)
* RR ties to be placed back where they are if moved.
* Replace Rock b/n garage + house

Video/Photographic Documentation

includes 536 Front

Pre-Excavation: Date: 11/9/01 Taken By: JD Roll#(s)Tape(s)#: 1 Frame#(s)/Tape Counter 11:12

Post-Excavation: Date: 1/22/02 Taken By: JD Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 01:00:00 - 01:[illegible]:36

includes other properties

National Zinc Property Checklist

Resident: Arvid Lundquist, JR

Date: 11/9/01

Address: 536 Front ST
Chanyvale, KS
67335

Field Tech: JP

Comments/Observations

* can take 55 gallon drum to west of garage, was present when owner bought the property
* can move RR ties if replaced back where they are presently located

Video/Photographic Documentation

Includes 530 Front

Pre-Excavation: Date: 11/9/01 Taken By: SD Roll#(s)Tape(s)#: 1 Frame#(s)/Tape Counter 11:12

Post-Excavation: Date: 1/22/02 Taken By: JP Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 0:00:00 - 0:15:36

includes other properties

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ - 004

Project Leader: Don Lininger

Sample Date: 11/9/01 **Sample Time:** 1500 **Sampler:** DD

Expected Concentration: ~~Low~~ Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
1-8 oz Jar	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 0"-1" **Aliquots:** composite (9 aliquots)

Sample Location: 536 Front ST
QUAD B

- NE Quadrant of house
- to the NE b/w garage + house
- see sample location map

Property Owner/Contact:

Mr. Arrid Lindquist
536 Front ST
Cherryvale, KS
67335

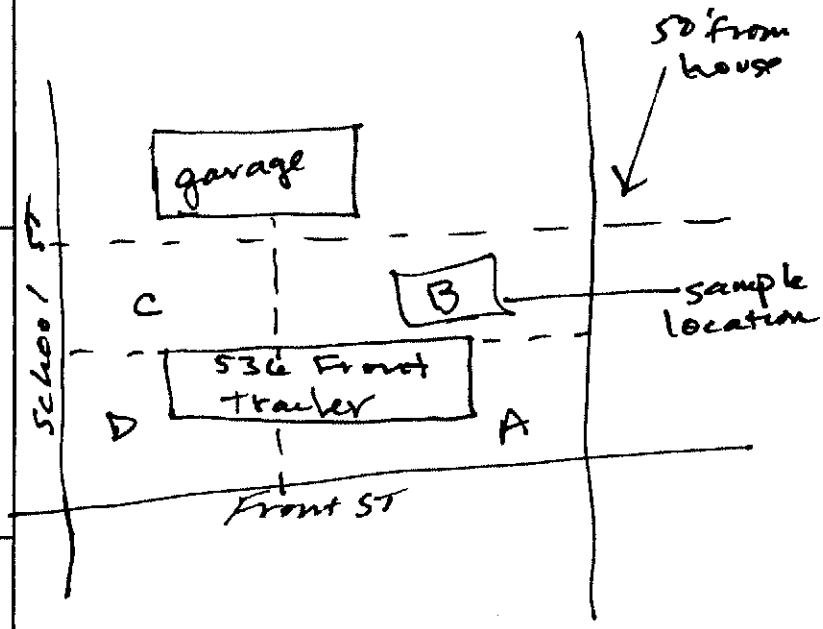
Comments: XRF Readings (ppm)

743 ± 86
823 ± 89
870 ± 94

pre-screening

average (838)

SAMPLE LOCATION MAP



FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ -** 005

Project Leader: Don Lininger

Sample Date: 11/9/07 **Sample Time:** 1535 **Sampler:** JD

Expected Concentration: Low Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~ DD	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 0"-1" **Aliquots:** composite (9 aliquots)

Sample Location: 530 Front ST
QUAD B

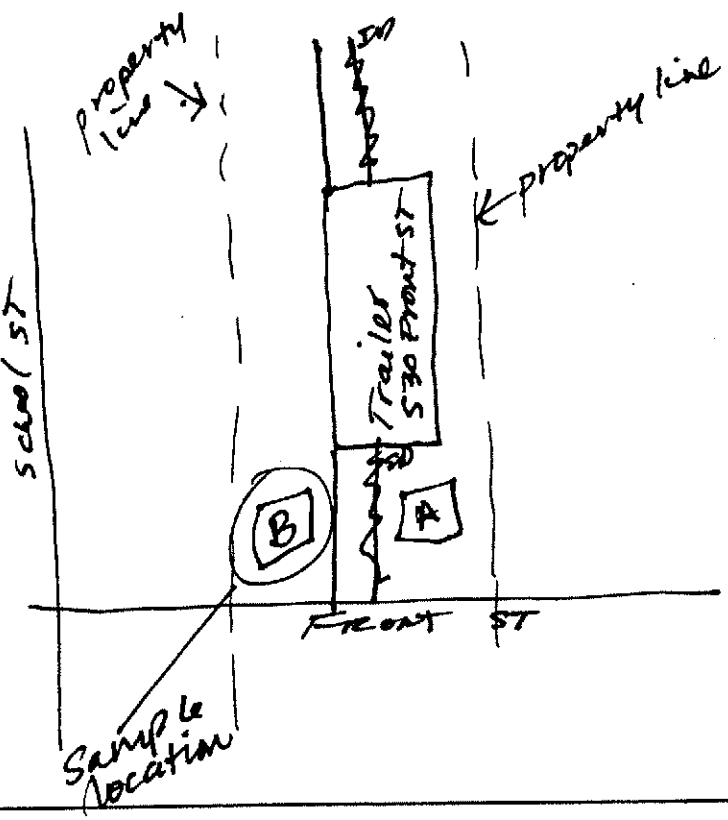
- TO THE WEST OF TRAILER (FROM SW corner west; to property line)
- see sample location map

Property Owner/Contact:

Mr. Arvid Lindquist
530 Front ST.
Cherryvale, KS
67335

Comments: pre-screening
XRF Readings (ppm)
959 ± 95
903 ± 94
967 ± 96
average = 943

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: Carl Hale

Date(s): 11/14/01

Address: 505 + 513 Front St
Chanyvale, KS
67335

XRF I.D. Operator

Pre-Removal: see attached + back no — Jeremy Kautman

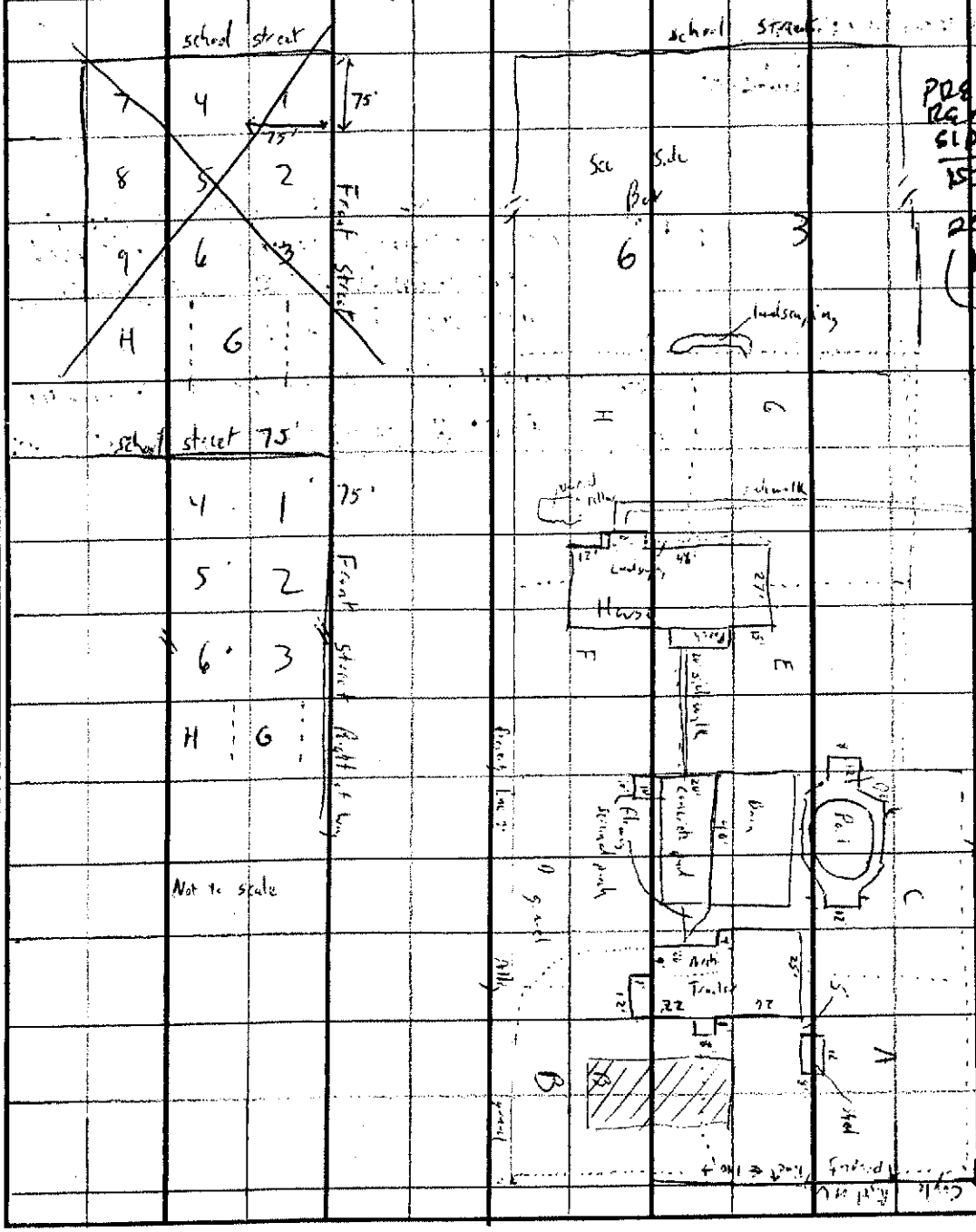
Post-Removal: see value of followed on

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch = 50'
½ Inches



PRE SCREENING XRF READINGS BY POOL SIDEWALK:
153±57; 109±59;
202±91; 132±37
(both sides on walk to pool)

POST SCREEN XRF READINGS: free
QUAD 1: 262±63; 27[illegible]±20
QUAD 4: 586±[illegible]; 1[illegible]±[illegible]
QUAD 5: 33±68; 206±82
QUAD 2: 3[illegible]±73; 518±83
QUAD 3: 2[illegible]±54; 347±7[illegible]
QUAD 6: 1050±130; 433±76
by rose garden

National Zinc Property Checklist

Resident: Carl Hale

Date: 11/27/01

Address: 505 & 513 Front St.
Cherryvale, KS

Field Tech: Lininger + JK

Comments/Observations

Site walk through w/ Carl & Bill Cathey - Response Mgr.

- Carl will move swingset, trampoline & trailer out of the way
- will excavate to 24" depth on east side of 505 - due to children playing extensively in area - location of trampoline/swingset.
- A natural gas well is located on the SE corner of 505 - has a wood cover - buried shallow
- Satellite dish w/ buried cable in SE corner of 505 - in same location as natural gas line
- Agrees that along the east side of 505 - will just bring in clean fill along the house - no excavation to occur - due to already low area & utilities that are shallow in the area.
- Carl identifies area of buried electrical cable between pool, garage & 513 - he marked w/ red paint - he believes burried 6"-12".
- Agrees that along west side of 513 & sidewalk - will not excavate any soil from that area - due to shallow & narrow - will just bring in clean fill
- The storm cellar located on SW corner of 513 was constructed w/ clean fill that was brought therefore will not excavate area of storm cellar.

Video/Photographic Documentation

Pre-Excavation: Date: 11/20/01 Taken By: JK Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 028:23-32:40

Post-Excavation: Date: 1/22/02 Taken By: JD Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 38:14-42:24

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ - 012

Project Leader: Don Lininger

Sample Date: 12/3/01 **Sample Time:** 09:48 **Sampler:** DO

Expected Concentration: Low Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	NONE ~~Ice~~ DO	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~ DO	~~Ice~~ DO	~~6 months~~ DO	~~Mercury by Method SW-846 7470A/7471A~~ DO

SAMPLE DESCRIPTION

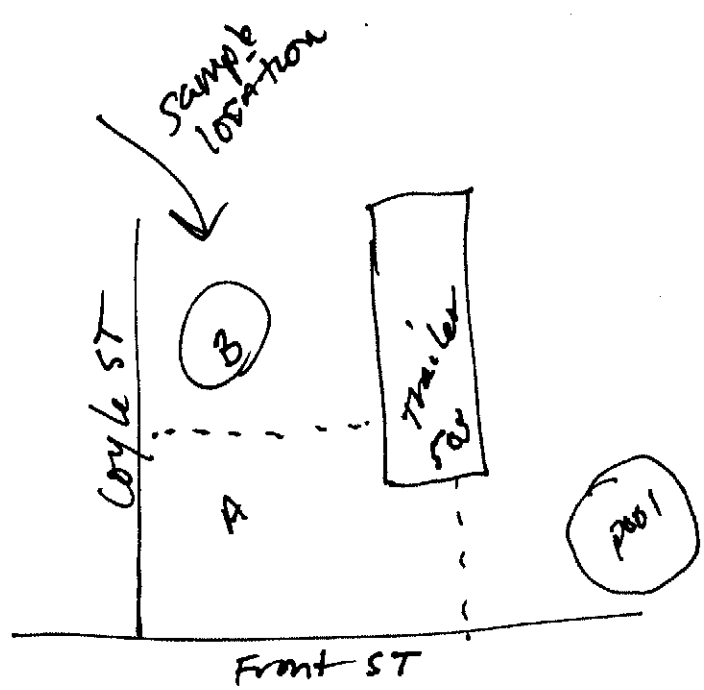
Matrix: Soil **Sample Depth:** 6" - 12" **Aliquots:** Composite

Sample Location:
505 Front ST
POST SEP
QUAD B
See site sketch + site sketch Field Sheet

Property Owner/Contact:
CARL Hale (daughter)
505 Front ST
Cherryvale, KS
67335

Comments: POST XRF Readings ARE:
135±48; 157±51; 113±46
AVg = 135

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: ARLA QUIGLEY

Date(s): 4/10/01

Address: 610 FRONT ST + (614 FRONT ST)
Cherryvale, KS
67335

XRF I.D.
Pre-Removal: KDHE 1540
Post-Removal: see below

Operator
N/A JM
JM

0-12"

12-24"

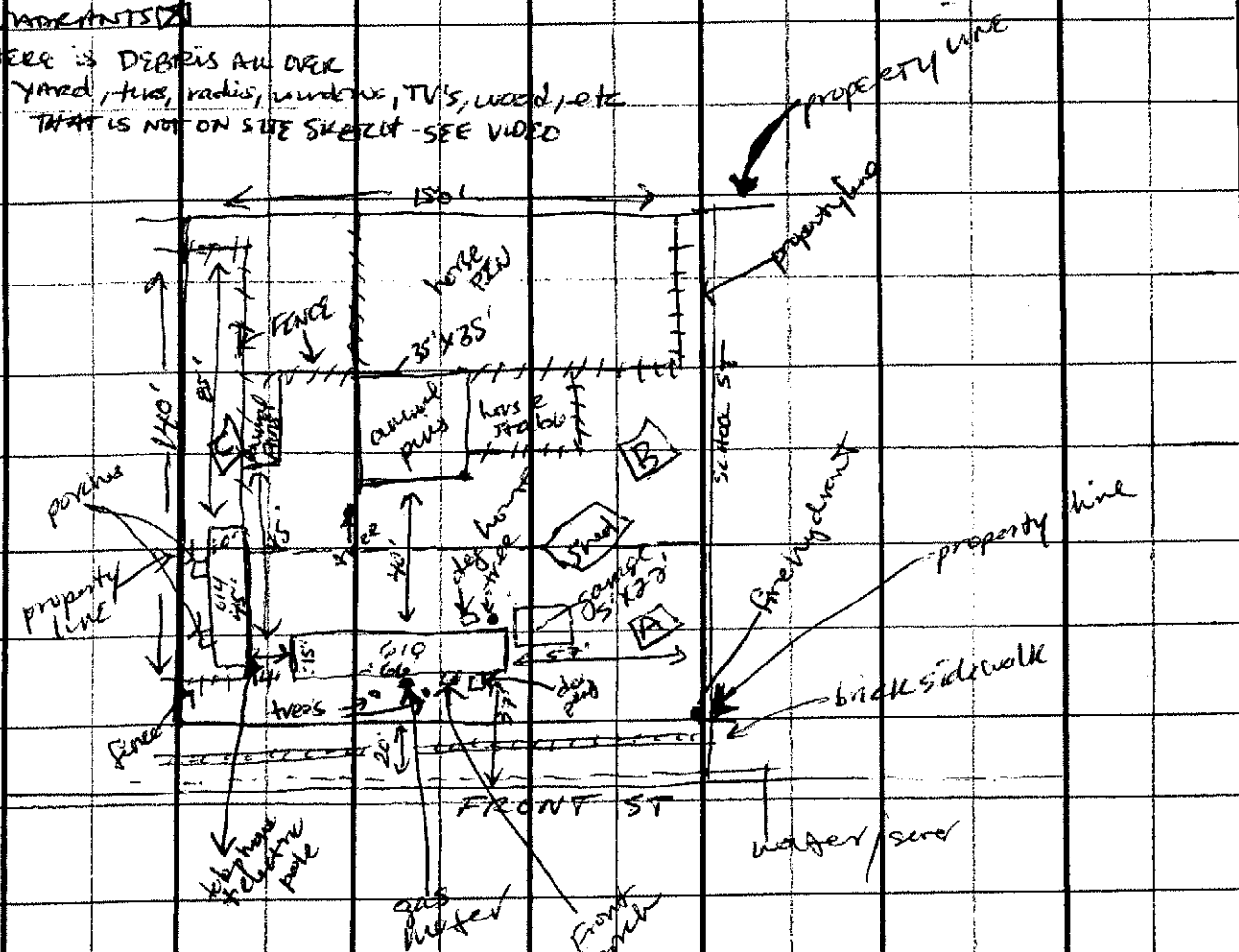
XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 50'
N
25'
½ Inches

XRF POST EXCAVATION READINGS:
QUAD A: 491 ± 89 (three); 711 ± 95; 2331 ± 61
QUAD B: ~~471 (100); 3250 ± 280; 2590 ± 230~~ → 2460 ± 190
QUAD C: 1480 ± 150; 194 ± 40; 114 ± 47

ZN 50.0K

NOTE: QUADRANTS
THERE IS DEBRIS ALL OVER YARD, TIRES, RADIOS, WINDOWS, TV'S, WOOD, ETC. THAT IS NOT ON SITE SKETCH - SEE VIDEO



XRF RESCREENING @ 610 FRONT
QUAD A:
QUAD B: Collected by KDHE FIELD TEAM = 1540 ppm
QUAD C:
XRF AT 614 FRONT = 3680 ppm

150 x 140

National Zinc Property Checklist

Resident: ARLA QUIGLEY

Date: 11/10/01

Address: 610 + 614 FRONT ST
Cherryvale, KS
67335

Field Tech: JD

Comments/Observations

* excavation area to be done around debris in yard and in horse pasture (horse pasture only 73")
* debris pile off of school ST at drive, is to be hauled to burn pile
* all else remains undisturbed

Video/Photographic Documentation

Pre-Excavation: Date: 11/10/01 Taken By: JD Roll#(s)Tape(s)#: 1 Frame#(s)/Tape Counter end of tape

Post-Excavation: Date: 1/23/02 Taken By: JD Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 15:36 - 38:14

National Zinc Site Sketch

Name: Keaton, Clearance

Date(s): 11/12/01

Address: 617 Front St
Chanute, KS
66733

	XRF I.D.	Operator
Pre-Removal:	KOHE 1660ppm	N/A ID
Post-Removal:	START	ID

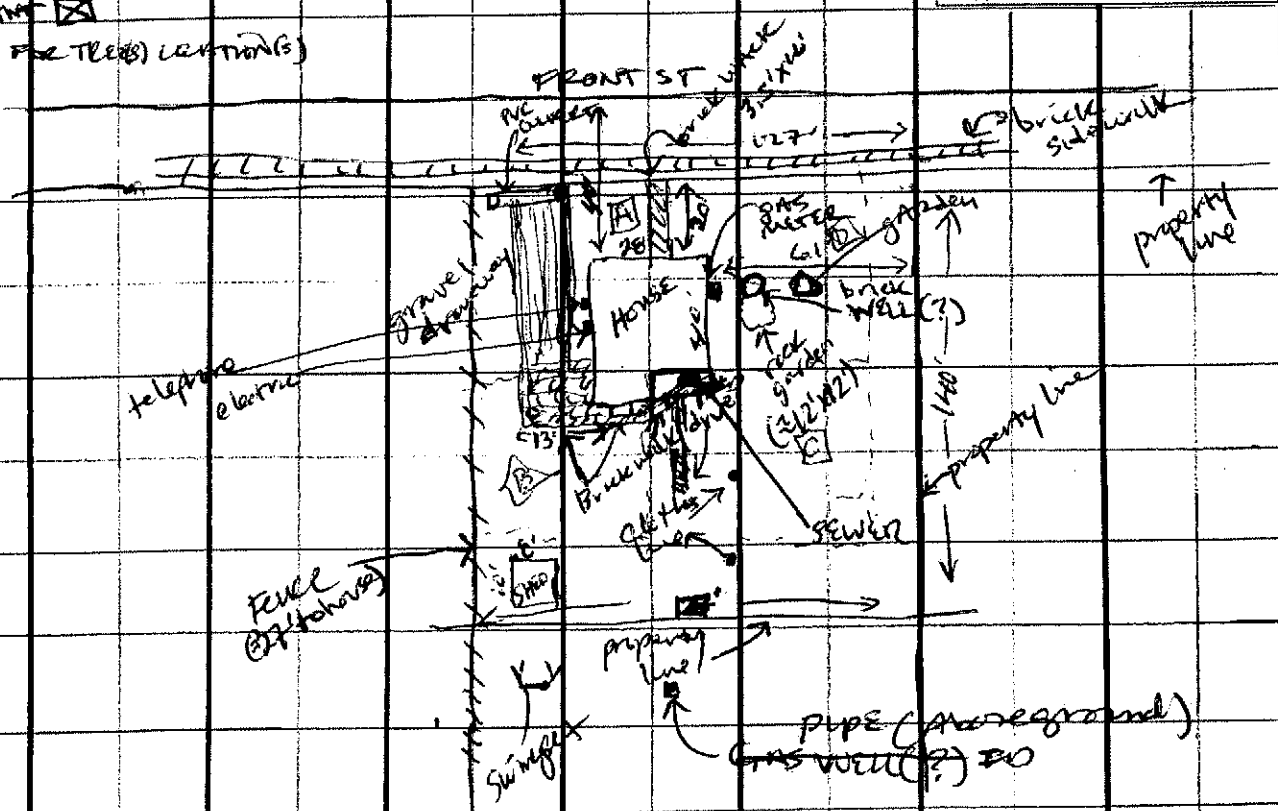
0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 50'
N
25'
½ Inches

NOTE:
QUADRANT ☒
SEE VIDEO FOR TREE(S) LOCATION(S)



11-28-01
POST
Screening XRF Readings:
QUAD A: 495±74; 604±80; 537±84
QUAD B: 612±91; 482±75; 576±79
QUAD C: 237±55; 330±63; 285±56
QUAD D: 125±43; 82±40; 125±44

100' 148' (50' lot 4.01)

National Zinc Property Checklist

Resident: Keaton, Clarence

Address: 617 Front ST
Chanyvale, KS
67335

Date: 11/12/01 + 11/15/01

Field Tech: JD / + Don Lunger

Comments/Observations

* OSC Don Leunger spoke with owners of property regarding any items in yard of special concern. Owners noted nothing. Owners were concerned about liability of excavation. Lunger informed them that there were no additional costs

Video/Photographic Documentation

Pre-Excavation: Date: 11/13/01 Taken By: JD Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 5:24 length AT 9:13

Post-Excavation: Date: 1/22/02 Taken By: JD Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 15:36 - 38:14

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ - 01D

Project Leader: Don Lininger

Sample Date: 11/28/01 **Sample Time:** 1048 **Sampler:** DD

Expected Concentration: Low Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
1-8 oz Jar	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

Matrix: Soil **Sample Depth:** 6"-12" **Aliquots:** composite

Sample Location:

617 Front ST, Cherryvale, KS
QUAD D
see sample location map

Property Owner/Contact:

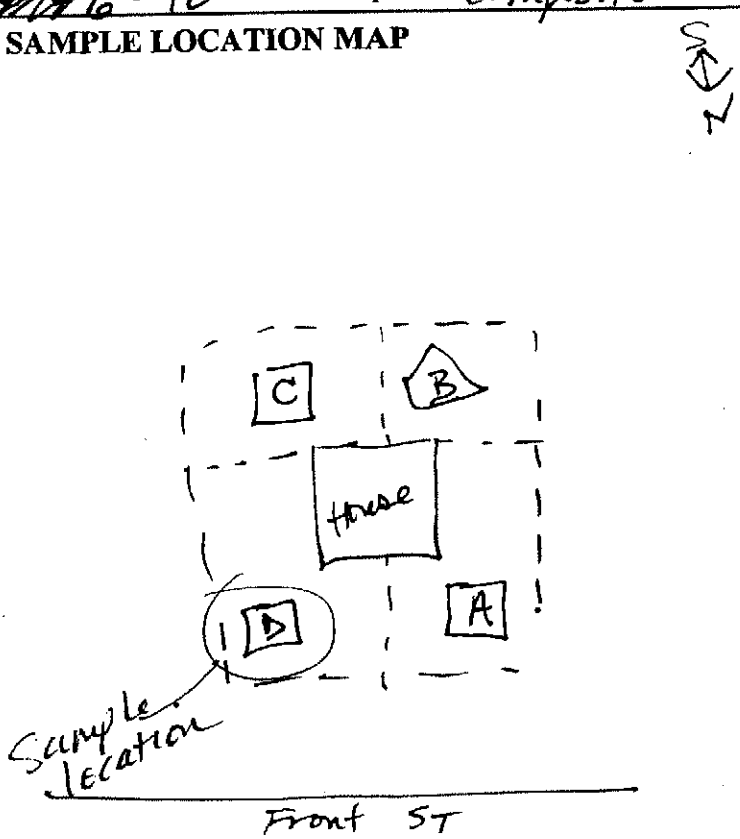
Clarence Keeton
617 Front ST
Cherryvale, KS 67335

Comments: Post-Screening XRF Readings

QUAD A: 495±74; 604±80; 537±84
QUAD B: 612±91; 482±75; 576±79
QUAD C: 237±55; 330±63; 235±56
QUAD D: 125±43; 82±40; 125±44

↳ Average = 111ppm

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: ARCHIE CANNON

Date(s): 1/10/01

Address: 618 FRONT ST
Chanute, KS
66335

	XRF I.D.	Operator
Pre-Removal:	KDHE 3680; 3190	N/A
Post-Removal:	see below	IO

0-12"

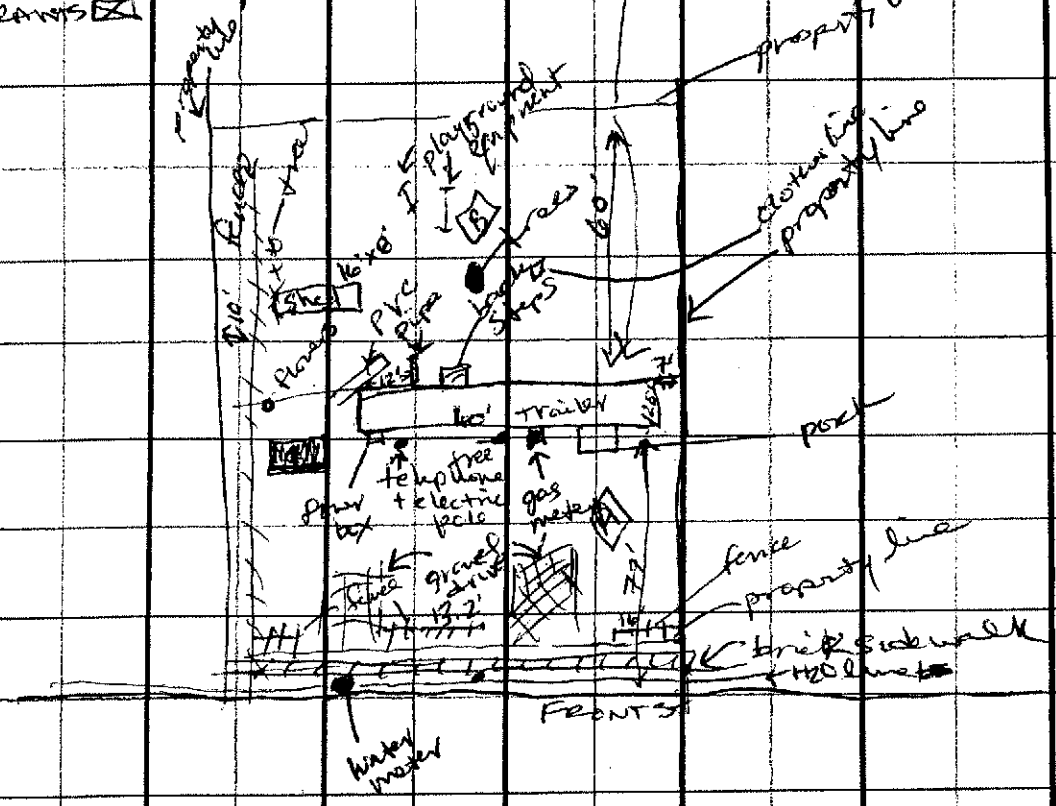
12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 50'
N
25'
½ Inches

POST EXCAVATION XRF READINGS:
QUAD A (East): <54 (ND); 286±62
QUAD A: 1190±120 (tree); <60 (ND); 223±66
QUAD B (east): <56 (ND); 102±44
Quad B: 207±56; 897±53; 528±76 east side

NOTE: SEE VIDEO for tree/flower (flower box location) QUADRANTS



100' x 140'

National Zinc Property Checklist

Resident: Arettie Cannon

Date: 11/10/01

Address: 618 Front ST
Chanute, KS
67335

Field Tech: TD

Comments/Observations

NO ISSUES OF CONCERN

Video/Photographic Documentation

Pre-Excavation: Date: 11/10/01 Taken By: TD Roll#(s)Tape(s)#: 1 Frame#(s)/Tape Counter end of tape

Post-Excavation: Date: 1/22/02 Taken By: TD Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 15:36-38:14

National Zinc Site Sketch

Name: BRENDA WAGGONER

Date(s): 11/12/01

Address: 620 FRONT ST
Cherryvale, KS
67335

	XRF I.D.	Operator
Pre-Removal:	see below	ID
Post-Removal:	see below	ID

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 50'
N
25'
½ Inches

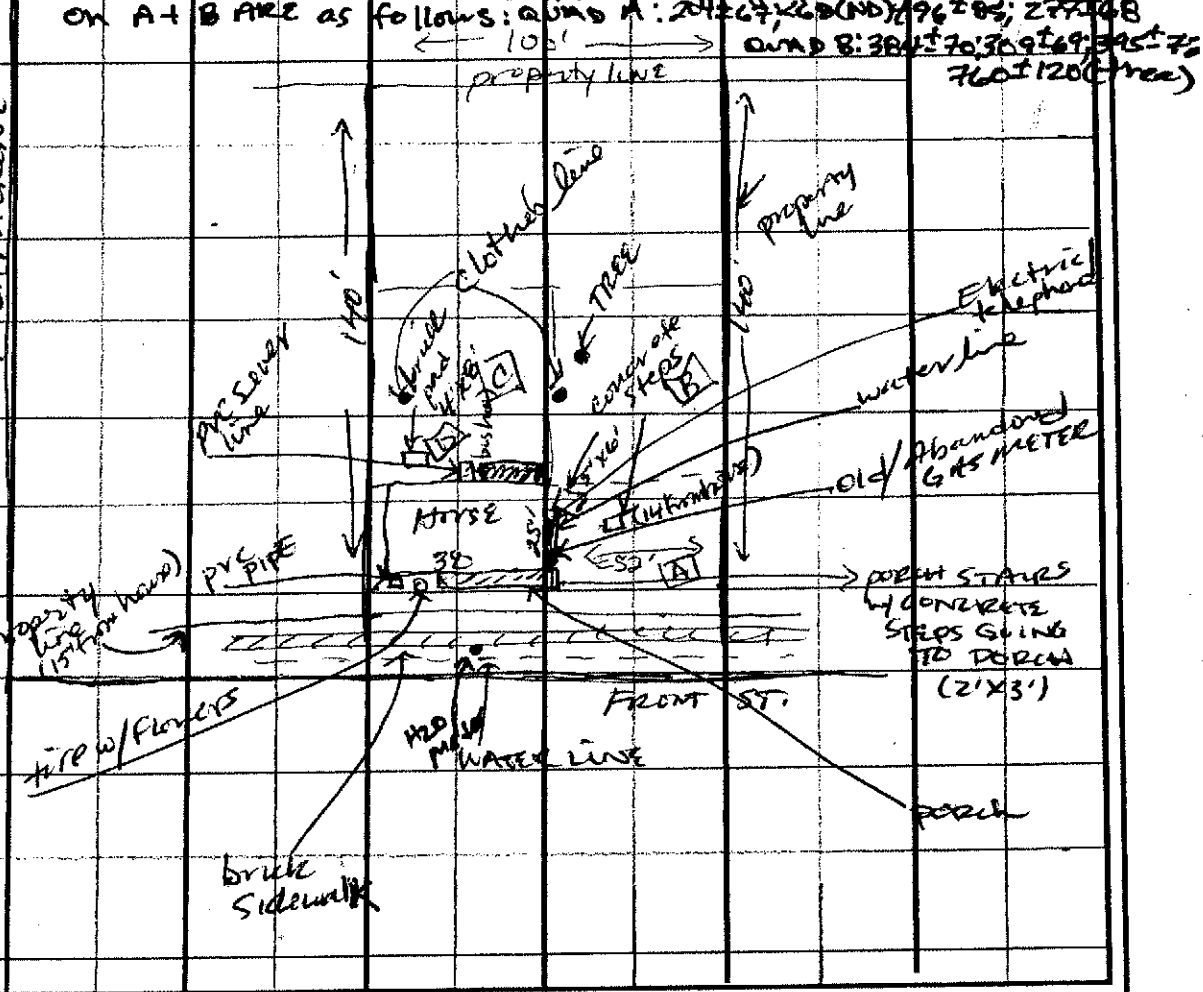
XRF READINGS PRESCREENING:
QUAD A: 456±68; 455±67; 496±71
QUAD B: 653±78; 688±81; 742±86
QUAD C: 544±74; 552±69; 554±70 → Avg 550 ppm
QUAD D: 38±56; 278±56; 353±61

NOTE: * QUADRANTS ■ + DEBRIS TO N. OF HOUSE

XRF READINGS POST EXCAVATION: QUAD A: 696±97; 347±74; <64(ND) (below line)
QUAD B: 1250±130; 360±72; 1180±89 (above line)
QUAD C: 297±55; 297±55; 403±72
QUAD D: IS CLEAN

Beyond 50' from HOUSE:
east: 502±73; 930±110; 1260±120
north: 1460±120
654±86
379±75
818±100

QUAD A + B were further excavated: XRF readings post-excavation on A + B ARE as follows: QUAD A: 244±67; 268(ND); 496±85; 277±68
QUAD B: 384±70; 309±69; 395±75; 760±120 (max)



National Zinc Property Checklist

Resident: Waggoner (Brenda - owner)

Date: 11/12/01

Address: 620 Front ST
Cherryvale, KS
67335

Field Tech: JD

Comments/Observations

* see 634 Front ST (formerly folder)

Video/Photographic Documentation

Pre-Excavation: Date: 11/13/01 Taken By: JD Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:00:0~6:04:22 (1st of tape)

Post-Excavation: Date: 1/22/02 Taken By: JD Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 15:36~38:24

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ-00~~4~~ 10

Project Leader: Don Lininger

Sample Date: 11/12/01 **Sample Time:** 1300 **Sampler:** JD

Expected Concentration: ~~Low~~ Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~ 10	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

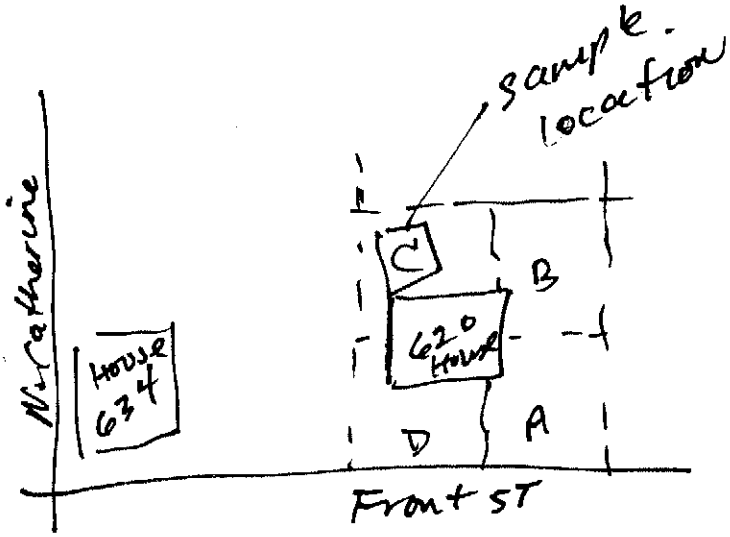
Matrix: Soil **Sample Depth:** 0"-1" **Aliquots:** composite (9 aliquots)

Sample Location: 620 Front ST
- QUAD C; see sample location map
- NW corner of house
(house is currently unoccupied)

Property Owner/Contact:
Brenda Waggoner
620 Front ST
Cherryvale, KS 67335
mailing → 720 East Hill ST
Cherryvale, KS 67335

Comments:
XRF Readings (ppm)
544 ± 74
552 ± 69
554 ± 70
pre-screening
average = 550

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: RUBEN SAMORA

Date(s): 11/12/01

Address: 621 W FRONT ST
Cherryvale, KS
67335

	XRF I.D.	Operator
Pre-Removal:	See below	ID
Post-Removal:	see below	ID

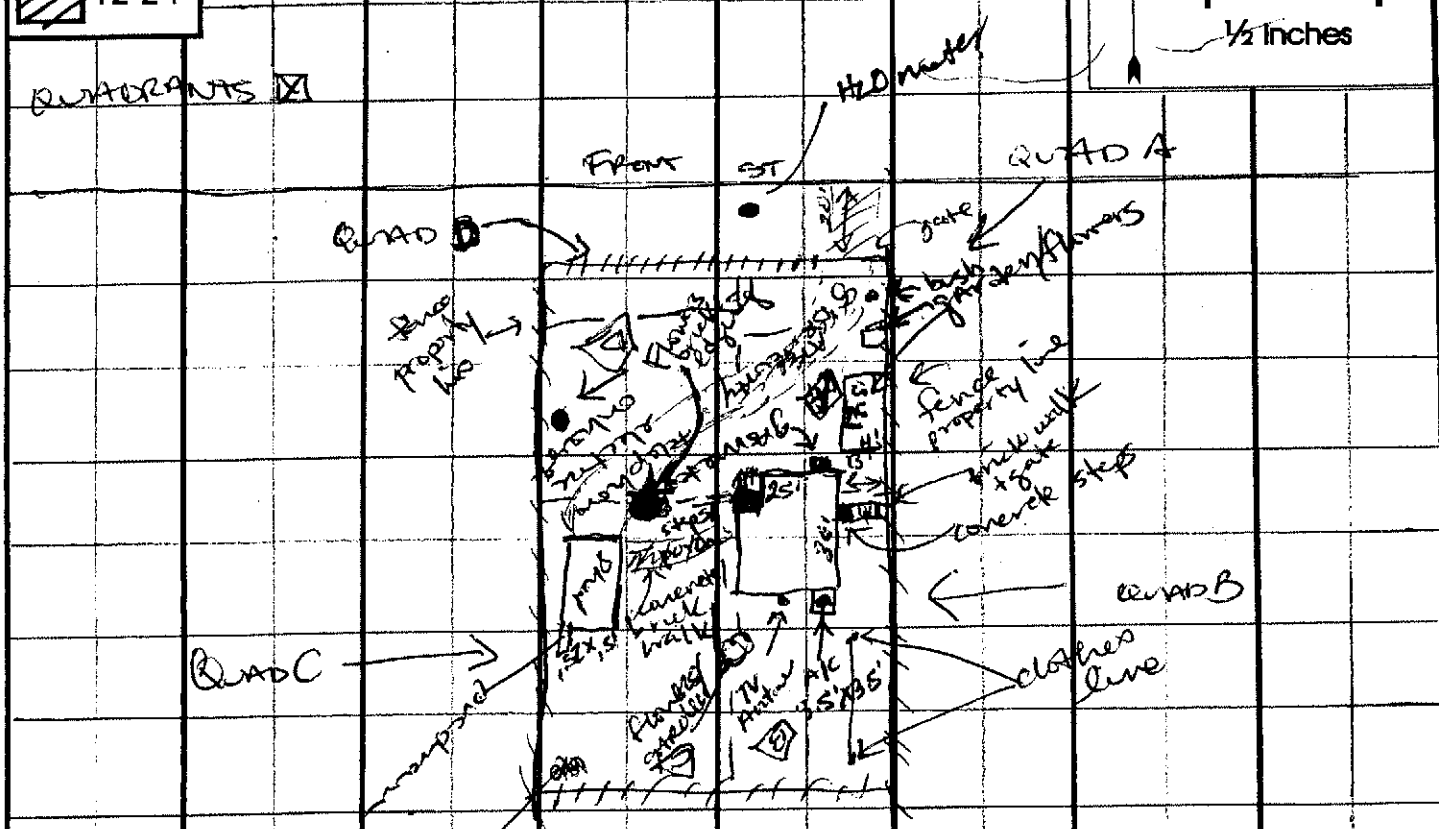
0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 50'
N
25'
½ Inches

QUADRANTS ☒



PRE-SCREEN XRF READINGS:

QUAD A: 1010±93; 1290±109; 1080±100
B: 626±74; 799±82; 626±74
C: 621±69; 636±74; 714±75
D: 874±90; 986±98; 970±92

POST SCREEN XRF Readings:

QUAD A: 163±51; 80±48; 70±41; <69(ND)
QUAD B: 66±37; 81±47; 76±47; 129±53
QUAD C: 45±27; 304±63; <73(ND); <64(ND); 82±49
QUAD D: <60(ND); 79±48; 99±56; <77(ND)

→ POST XRF Readings NORTH OF 50' QUAD's FROM house (only 3" removed)
154±57; 275±62; 255±50; 200±57 [illegible]

National Zinc Property Checklist

Resident: RUBEN SAMORA

Address: 621 FRONT ST
cherryvale, KS
67335

Date: 11/12/01 & 11/15/01

Field Tech: ED / Don Lincoln

Comments/Observations

& Don Lincoln spoke with owners, no special items of concern were mentioned or of concern to owners. Owners were concerned about not being liable for any cost of excavation.

Video/Photographic Documentation

Pre-Excavation: Date: 11/13/01 Taken By: ED Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:05:04 length 14:37

Post-Excavation: Date: 1/22/02 Taken By: ED Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 15:36 - 18:14

National Zinc Site Sketch

Name: Brenda Henderson

Date(s): 11/10/01

Address: 634 Front ST
Chanute, KS. 67335
(N corner of Front ST & N Catherine)

	XRF I.D.	Operator
Pre-Removal:	see below	JD
Post-Removal:		

0-12"

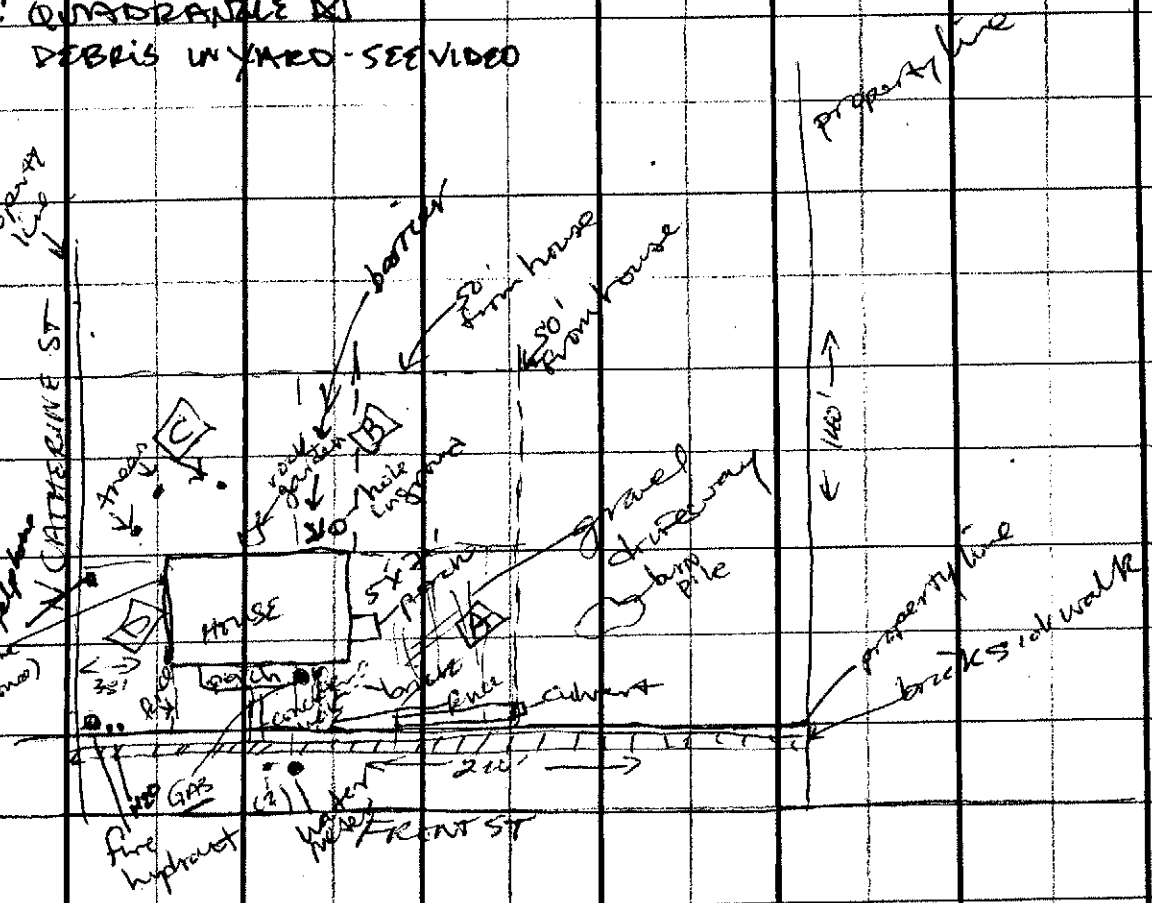
12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 50'
N
25'
½ Inches

PRESCREEN XRF READINGS FOR QUADS:
QUAD A: 1360± 120; 1240± 110; 1160± 110
QUAD B: 694± 79; 711± 84; 768± 91
QUAD C: 1250± 110; 1570± 130; 1250± 110
QUAD D: 1190± 100; 1490± 120; 1200± 110

NOTE: QUADRANGLE ☒
DEBRIS IN YARD - SEE VIDEO



POST SCREENING XRF READINGS
QUAD A: <52(ND); <49(ND); 88±39
QUAD B: 2900± 180 (tree); <60(ND); 659±81 - no tree
QUAD C: all trees → 930± 130; 4540± 290; 2600± 190
QUAD D: all trees → 1830± 130; 1900± 160; 1400± 140
Beyond 50' from House

National Zinc Property Checklist

Resident: Brenda Henderson Date: 11/13/01

Address: 634 Front ST + 620 Front ST Field Tech: ID
Cherryvale, KS
67335

Comments/Observations

- Juston Smith spoke with Ingrid Davis regarding any special items of concern. He stated that there are no trees or plants, pipes or tanks that he is concerned about or doesn't want removed. There is debris in yard 634 Front. He stated that we could pile the debris or remove it. Davis stated that we may put it in a pile and/or go around items in the yard.
- Note: resident is relative of owner Brenda Henderson

Video/Photographic Documentation

Pre-Excavation: Date: 11/13/01 Taken By: ID Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 5:01 length

Post-Excavation: Date: 1/22/02 Taken By: SD Roll#(s)Tape(s)#: 4 Frame#(s)/Tape Counter 15:36-38:14

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ - 006

Project Leader: Don Lininger

Sample Date: 11/10/01 **Sample Time:** 1433 **Sampler:** ZO

Expected Concentration: Low Medium X High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~ 50	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

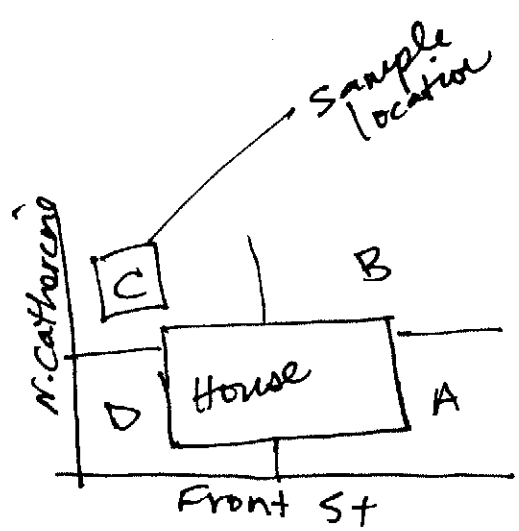
Matrix: Soil **Sample Depth:** 0'-1' **Aliquots:** composite (1 aliquot)

Sample Location:
634 Front ST
House at intersection of N Catherine + Front ST
- QUADC
- see sample location map

Property Owner/Contact:
BRENDA HENDERSON
634 Front ST
Cherryvale, KS
67335

Comments:
pre-screening XRF Readings (ppm)
1250±110
1570±130
1250±110
average: 1357

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: Arrid Lindquist

Date(s): 11/16/01

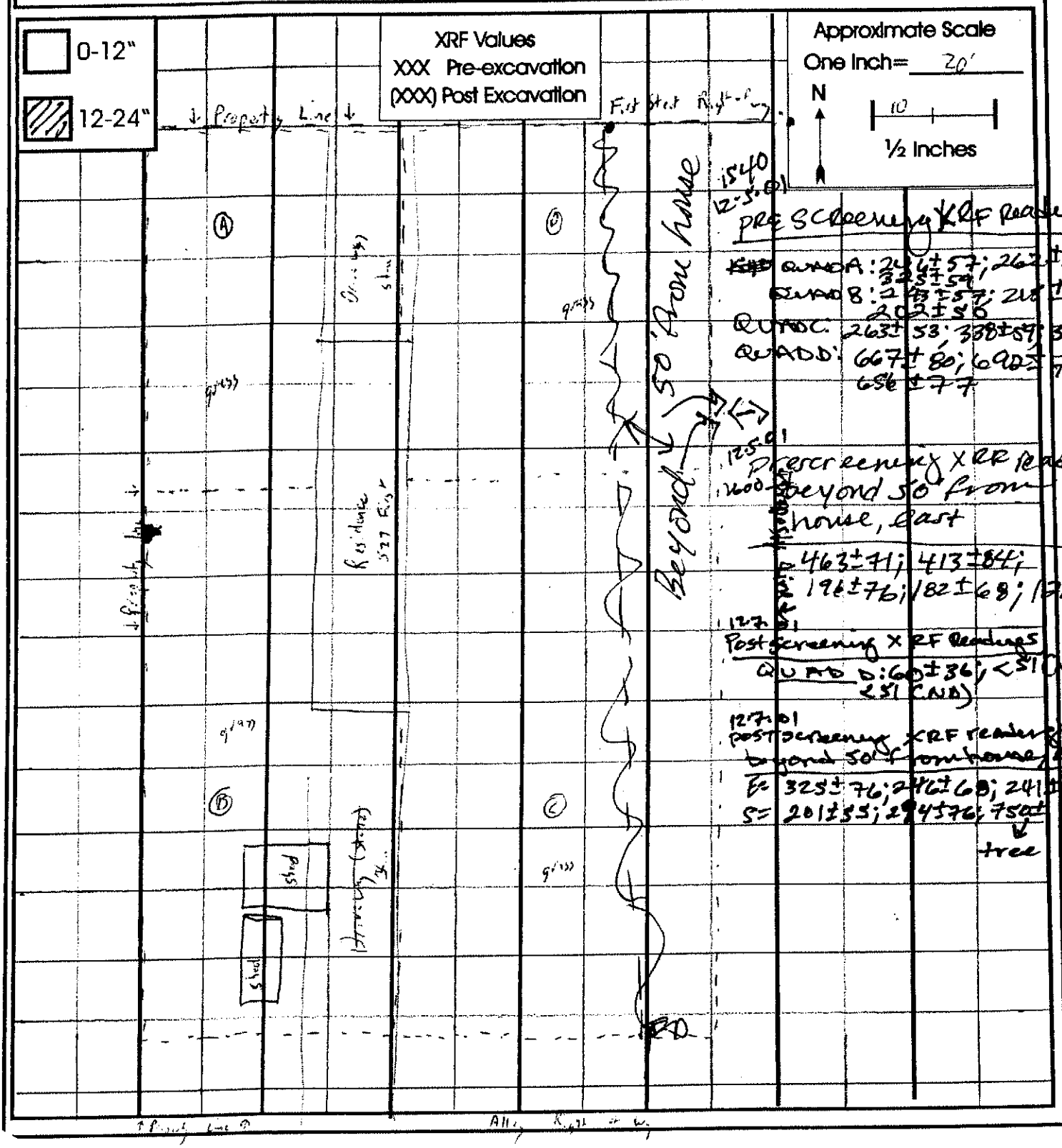
Address: 527 First Street
Cherryvale, KS 67335

Sketch: JK

XRF I.D. — Operator

Pre-Removal: START + NOTE: see back of field sheet - JD

Post-Removal: See below — JD



National Zinc Property Checklist

Resident: Arvid Lindquist

Date: 11/16/01 + 12/6/01

Address: 527 First Street
Cherryvale, KS 67335

Field Tech: JL + JD

Comments/Observations

* OSC + START member DAVIS speak with Mr. Lindquist about any items or issues of concern for above property. Mr Lindquist stated that there are no issues of concern at the property. An old cistern is located between Quad B + C, where excavation is to occur (QUAD D). Lindquist states that he assumes it's a cistern - it was there when he bought the property in 1991.

Video/Photographic Documentation

Pre-Excavation: Date: 11-16-01 Taken By: JL Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 6:27:24+28:23

Post-Excavation: Date: 3/28/02 Taken By: JD Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24-22:14

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ - 018

Project Leader: Don Lininger

Sample Date: 12/7/01 **Sample Time:** 1300 **Sampler:** DD

Expected Concentration: ~~Low~~ Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ NONE	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ DD

SAMPLE DESCRIPTION

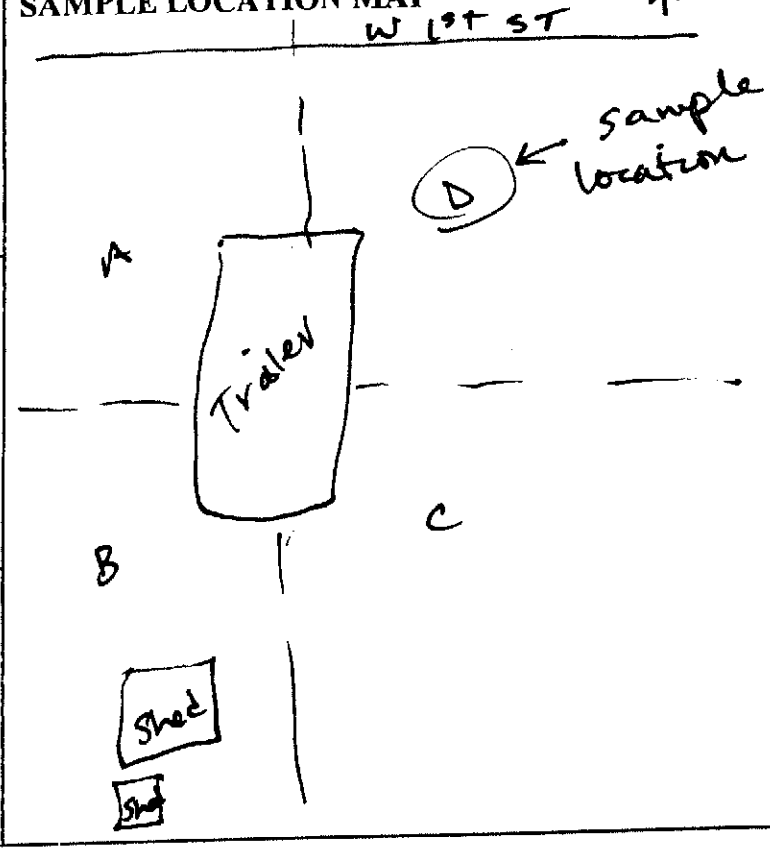
Matrix: Soil **Sample Depth:** 6" - 12" **Aliquots:** composite (5 aliquots)

Sample Location:
S27 W 1st ST
QUAD D
- see site sketch and sample location map

Property Owner/Contact:
Mr. Arvid Lundquist
S27 1st ST
Cherryvale, KS
67335

Comments: Post screening XRF Readings
60 ± 36; <51 (ND); <57 (ND)
Avg = 54

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: Jerri Blazer + JOE Slamby

Date(s): 11/27/01 + 12/4/01

Address: 529 First ST
Chanyvale, KS
67335

XRF I.D.
Pre-Removal: KDHE + START - see below
Post-Removal:

Operator
JD

0-12"

12-24"

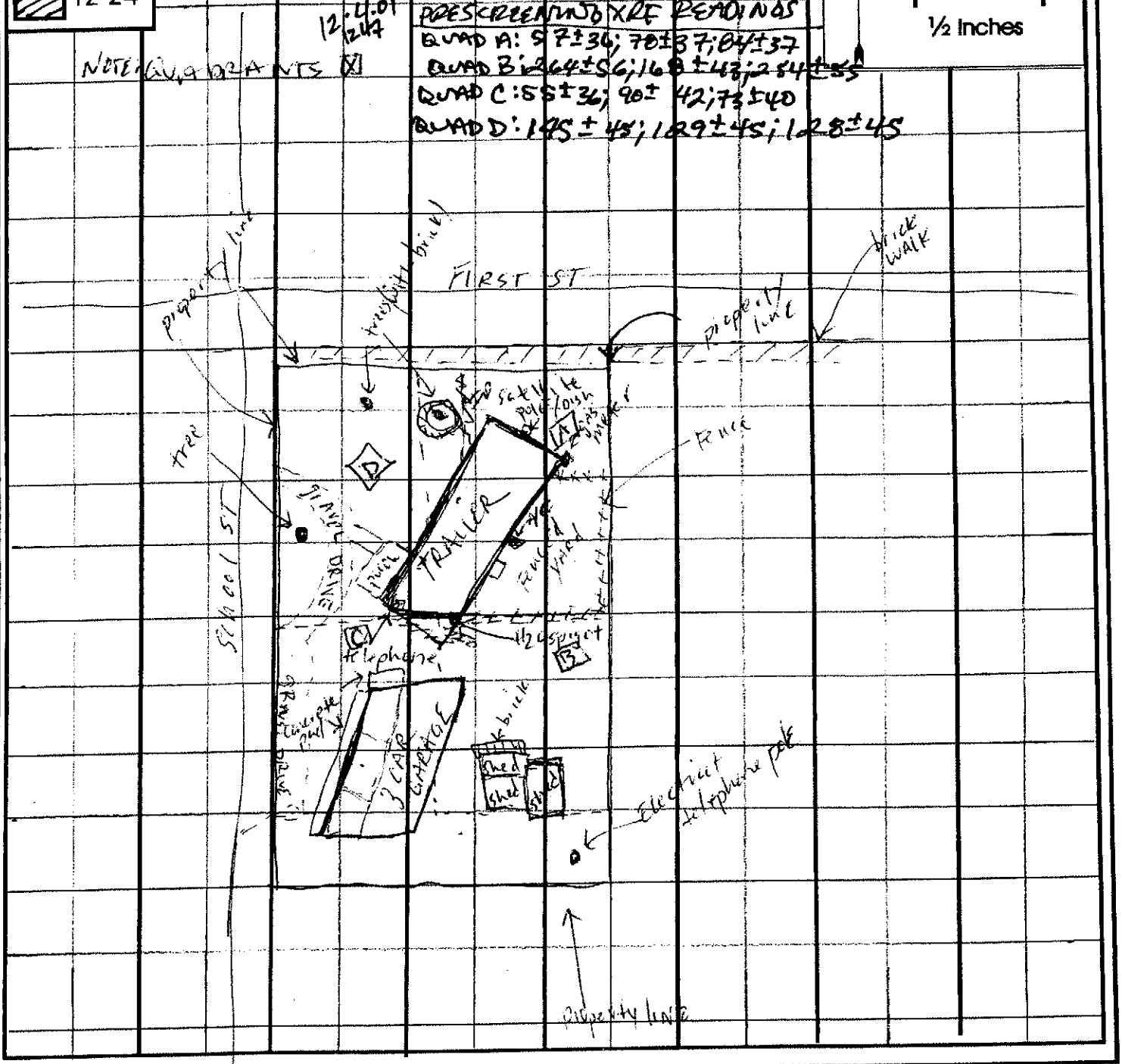
XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 40'
N
20'
½ Inches

12.4.01
12:47

PRESCREENING XRF READINGS
QUAD A: 97±36; 70±37; 84±37
QUAD B: 264±56; 168±43; 284±55
QUAD C: 55±36; 90±42; 73±40
QUAD D: 145±45; 129±45; 128±45

NOTE: GV, 9 DRAINTS [X]



100' x 154'

National Zinc Property Checklist

Resident: Jerri Blazert Joe Slamby

Date: 11/27/01

Address: 529 First ST
Chanute, KS
66335

Field Tech: JD

Comments/Observations

N/A not excavated

Video/Photographic Documentation (Includes 529 1st St)

Pre-Excavation: Date: 11/27/01 Taken By: CD Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:00:00-0:09:01

Post-Excavation: Date: _____ Taken By: _____ Roll#(s)Tape(s)#: _____ Frame#(s)/Tape Counter _____

National Zinc Site Sketch

Name: Mary Beeman + Mary Lou Beecher

Date(s): 12/4/01 + 12/5/01

Address: 532 West 1st St
Cherryvale, KS
67335

	XRF I.D.	Operator
Pre-Removal:	START see below	IS
Post-Removal:		

0-12"

12-24"

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

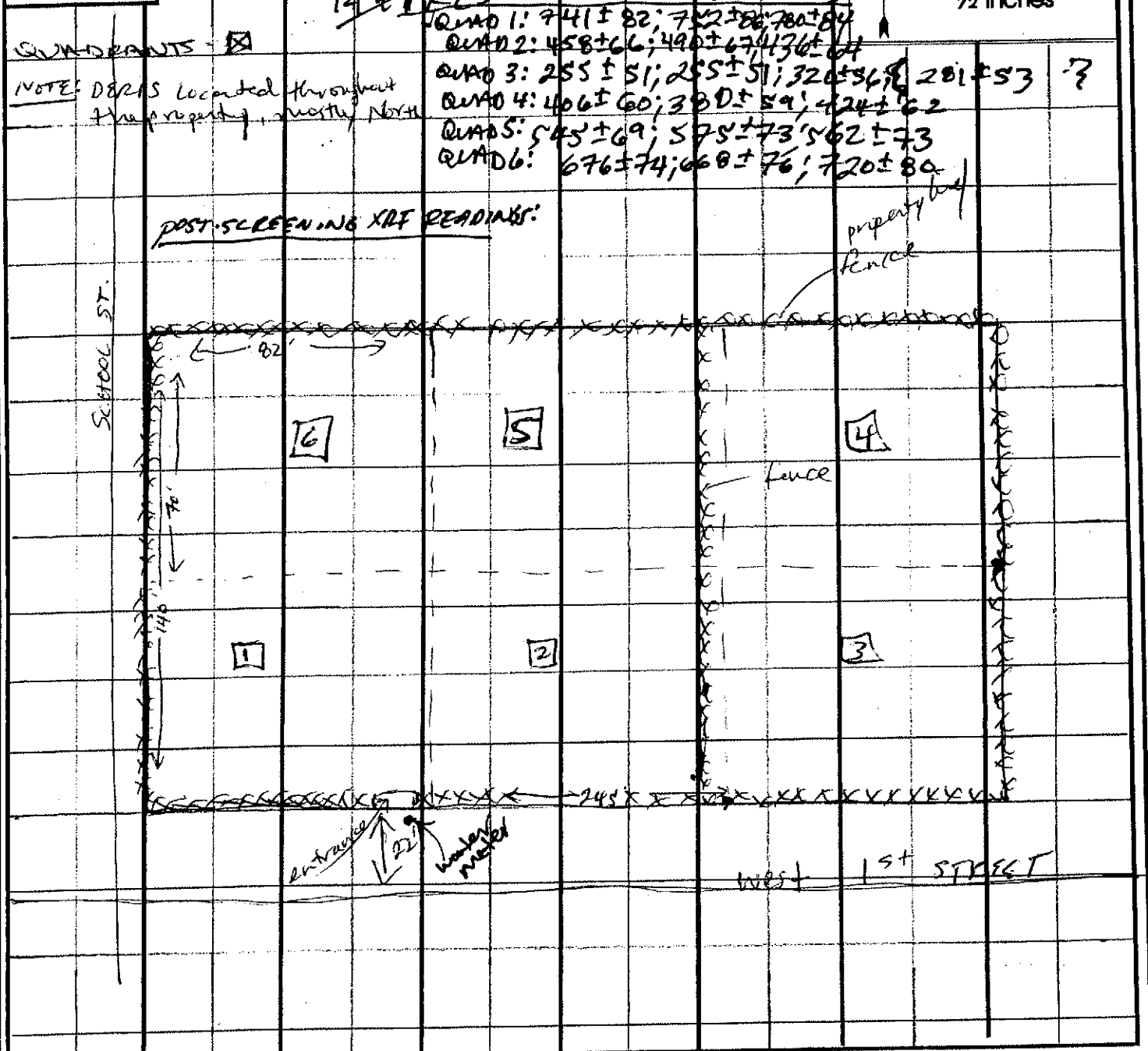
Approximate Scale
One Inch= 40'
N
20'
½ Inches

12/4/01 12/24 PRESCREENING XRF READINGS (quadrant)
QUAD 1: 741 ± 82; 752 ± 86; 780 ± 84
QUAD 2: 458 ± 66; 490 ± 67; 436 ± 64
QUAD 3: 255 ± 51; 255 ± 51; 320 ± 56; 281 ± 53 ?
QUAD 4: 406 ± 60; 380 ± 59; 424 ± 62
QUAD 5: 545 ± 69; 575 ± 73; 562 ± 73
QUAD 6: 676 ± 74; 668 ± 76; 720 ± 80

QUADRANTS - ☒

NOTE: DEBRIS located throughout the property, mostly North

POST-SCREENING XRF READINGS:



245' x 140'

National Zinc Property Checklist

Resident: MARY BEENMAN + Mary Lou Beachner

Date: 12/4/01 + 12/5/01

Address: 532 W. 1st ST
Cherryvale, KS
67335

Field Tech: ID

Comments/Observations

* OSC Don Unrugh + START member Ingrid Davis met with Mary Lou Beachner at site property to discuss special issues of concern.
* Ms Beachner would like to leave the fence up that runs north to south on east end of property/ the portion that is collapsed can be removed and used as an entrance to excavate NE corner and is ok to leave fence down where is ~~fall~~ collapsed and ID
* Ms Beachner agreed to removal and stockpiling misc. items/ debris like bath tub by shed At NW corner of site
* Beachner took access agreement & will show her sister, head of the estate, and give to OSC at a later time
* Grouping of trees just North of entrance off of W. 1st St can be removed. All large trees to remain

Video/Photographic Documentation

Pre-Excavation: Date: 12/4/01 Taken By: ID Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:00:00- 0:02:15

Post-Excavation: Date: 3/29/02 Taken By: ID Roll#(s)Tape(s)#: 5 Frame#(s)/Tape Counter 8:24 - 22:17

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #:** NZ - 013

Project Leader: Don Lininger

Sample Date: 12/4/01 **Sample Time:** 1224 **Sampler:** Ingrid Daiso

Expected Concentration: Low ~~Medium~~ High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	~~Ice~~ NONE	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
~~1-8 oz Jar~~	~~Ice~~	~~6 months~~	~~Mercury by Method SW-846 7470A/7471A~~ ~~LD~~

SAMPLE DESCRIPTION

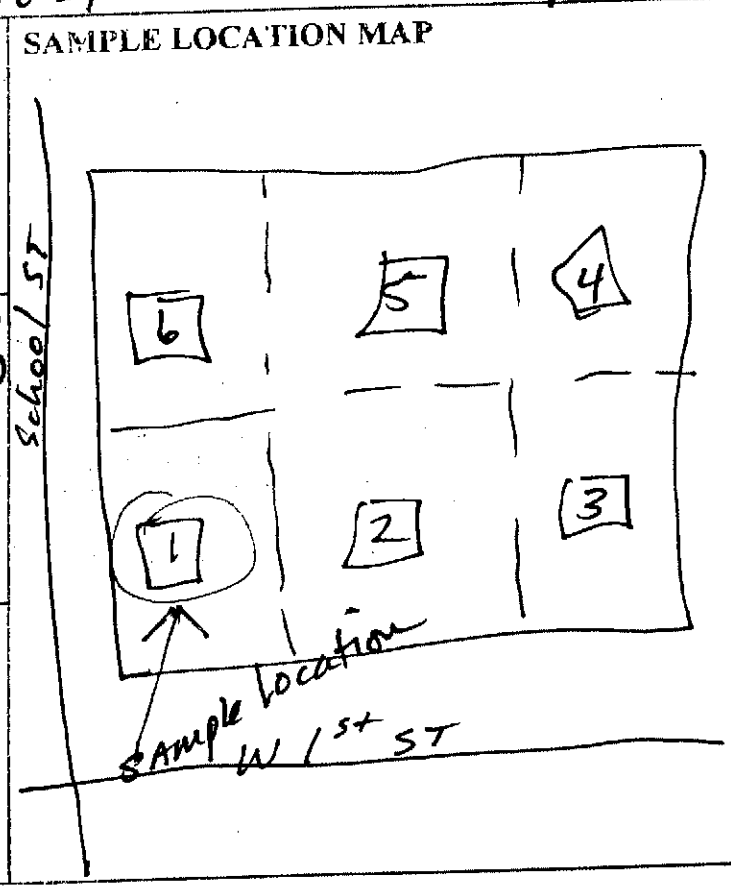
Matrix: Soil **Sample Depth:** 0"-1" **Aliquots:** composite (9 aliquots)

Sample Location: 532 W 1st ST
QUAD #1
(prescreening)
* SW corner
* see site sketch

Property Owner/Contact: (not mailing address)
Mary Lou Beachner - (Parsons)
(+ Mary Beeman)
532 W 1st ST
Cherryvale, KS 67335

Comments: Prescreening XRF Readings
QUAD #1 : 741±82; 752±86; 780±84
avg = 758

SAMPLE LOCATION MAP



National Zinc Site Sketch

Name: KNIGHTS,

Date(s): 12/3/01

Address: 605 + 609 W. 1st ST
Cherryvale, KS
67335

XRF I.D.
Pre-Removal: START SEE BELOW
Post-Removal:

Operator
ID

0-12"

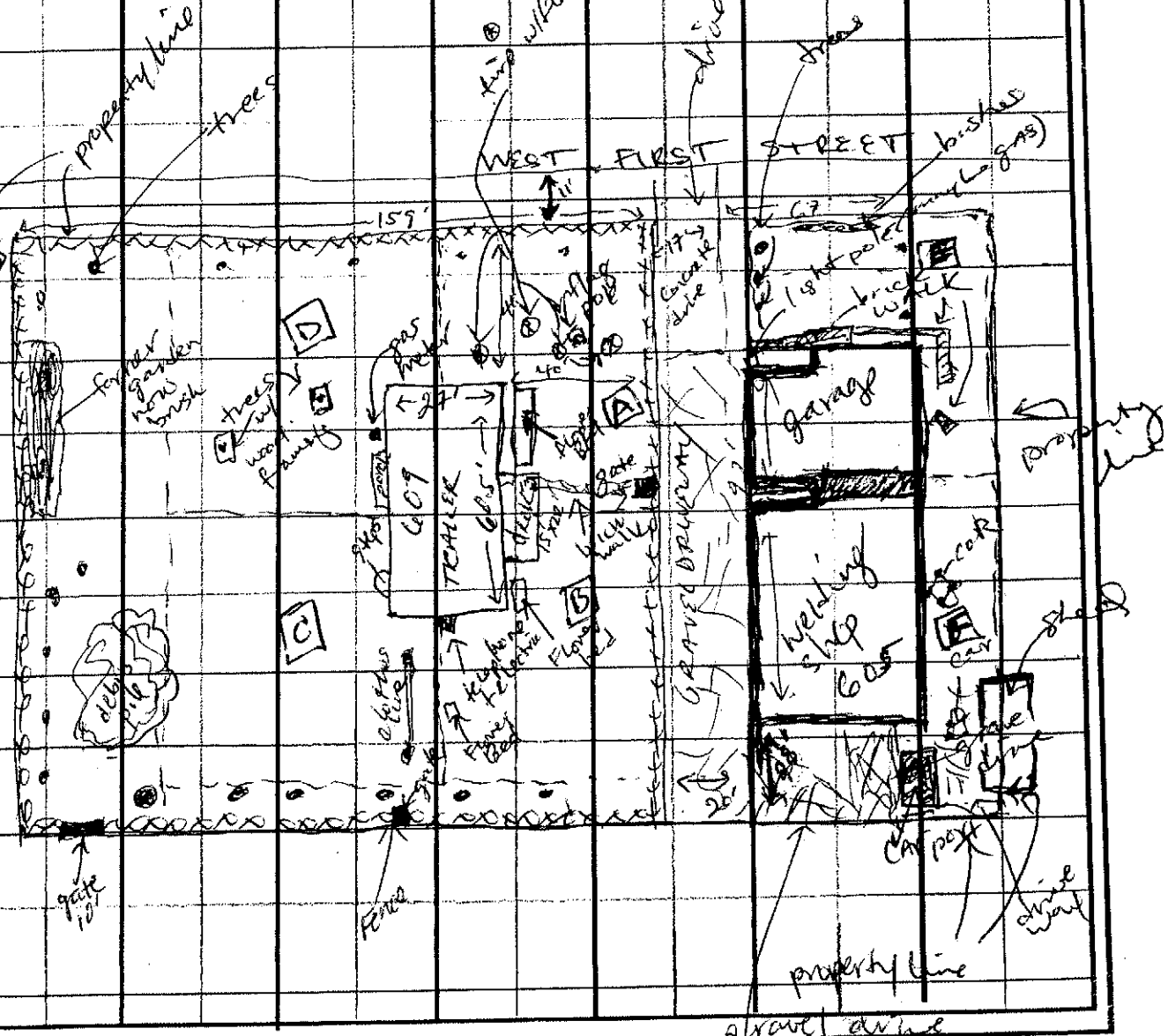
12-24"

PRESCREENING XRF READINGS:
QUAD A: 268±54;
QUAD B: 81±42; 140±48; 125±45
QUAD C: 210±56; 126±43; 222±50
QUAD D: 252±56; 326±58; 255±54
QUAD E: 318±56; 272±54; 276±53
QUAD F: 292±57; 342±50; 277±54

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch= 40'
N
20'
½ Inches

● = trees
QUADRANTS ☒



(150.7') or 200.7' X 154'

National Zinc Property Checklist

Resident: KNIGHTS,

Date: 12/3/01

Address: 605 + 609 W. First ST.
CherryVALE KS
67335

Field Tech: ED

Comments/Observations

N/A - not excavated

Video/Photographic Documentation

Pre-Excavation:Date:_____Taken By:_____Roll#(s)Tape(s)#:_____Frame#(s)/Tape Counter_____

Post-Excavation:Date:_____Taken By:_____Roll#(s)Tape(s)#:_____Frame#(s)/Tape Counter_____

National Zinc Site Sketch

Name: Waggoner, Barry

Date(s): 11/28/05

Address: 606 First St 4689 Front
Cherryvale KS
67335

XRF I.D. Operator

Pre-Removal: KDHE Except west lot, see below - DD

Post-Removal: START - See back DD

0-12"

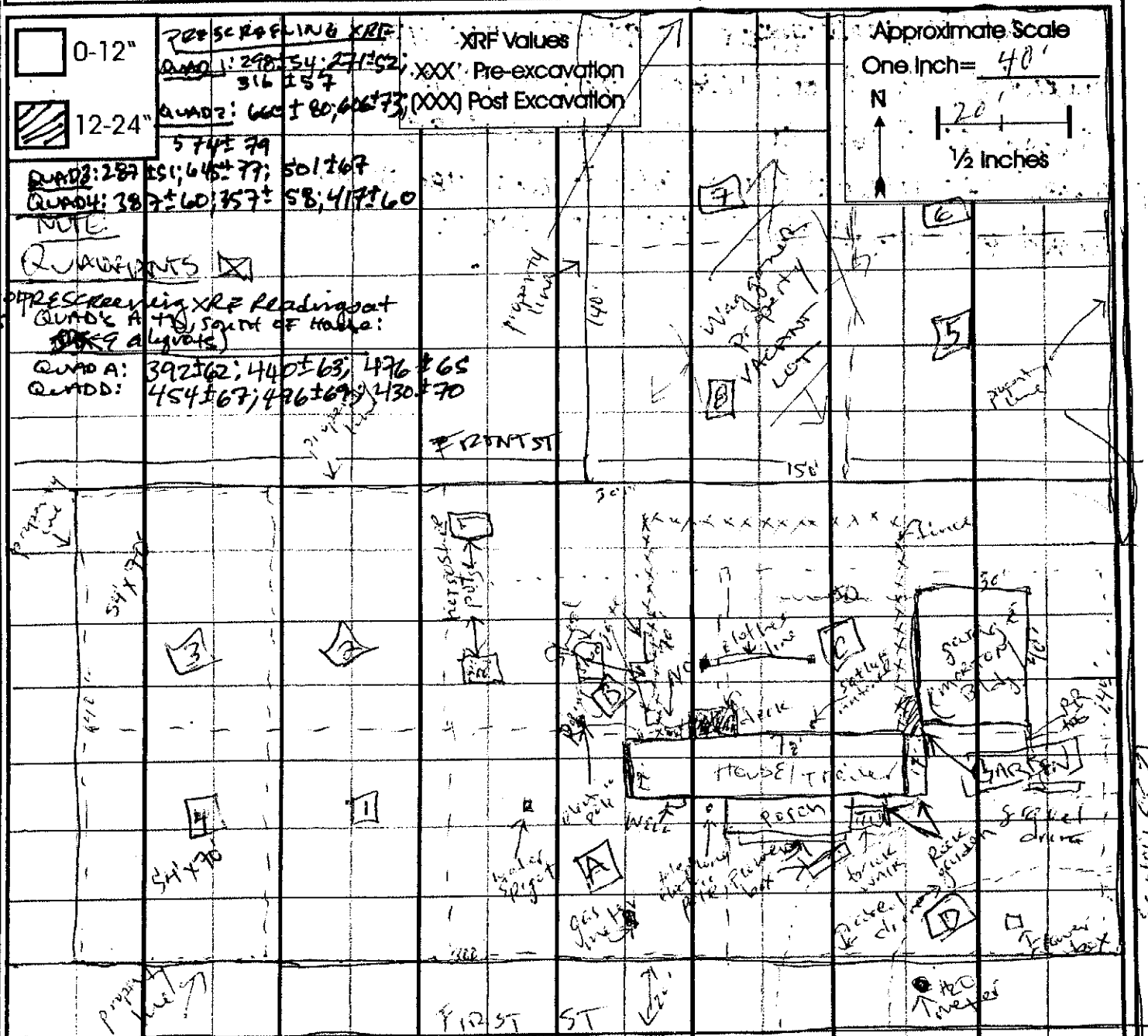
12-24"

PRESCREENING XRF
QUAD 1: 298±54; 271±52; 316±57
QUAD 2: 660±80; 600±73; 574±79
QUAD 3: 287±51; 645±77; 501±67
QUAD 4: 387±60; 357±58; 417±60
NOTE QUADRANTS

XRF Values
XXX Pre-excavation
(XXX) Post Excavation

Approximate Scale
One Inch = 40'
N
20'
½ Inches

12:50 PRESCREENING XRF Reading at 1655
QUAD'S A + D, SOUTH OF HOUSE:
9 aliquots
QUAD A: 392±62; 440±63; 476±65
QUAD D: 454±67; 496±69; 430±70



PRE-SCREENING XRF RESULTS: C9 Aliquot composites

1 QUAD #1: 298±54; 271±52; 316±57	QUAD #5: 616±82; 1200±130; 1200±120
2 QUAD #2: 660±80; 600±73; 574±79	QUAD #6: 966±99; 974±100; 918±97
3 QUAD #3: 287±51; 645±77; 501±67	QUAD #7: 1330±130; 1110±120; 934±100
4 QUAD #4: 387±60; 357±58; 417±60	QUAD #8: 1370±130; 1570±140; 1540±140

300' x 140'

National Zinc Property Checklist

Resident: Waggoner, Barry

Date: 11/28/01

Address: 606 First ST + 609 Front St
Chanute, KS
67335

Field Tech: FD

Comments/Observations

- No concerns/comments
- Homeowner Allowed us to Disconnect fencing @ NW corner of backyard to Allow equipment into area

Video/Photographic Documentation

Pre-Excavation: Date: 11/28/01 Taken By: SD Roll#(s)Tape(s)#: 2 Frame#(s)/Tape Counter 0:13:07 - 0:19:31 - FD

Post-Excavation: Date: 1/22/02 3/28/02 Taken By: SD Roll#(s)Tape(s)#: 4 + 5 Frame#(s)/Tape Counter 15:36 - 32:14 8:24 - 22:13

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION VII
Superfund Division, 901 N. 5th Street, Kansas City, KS 66101

Site: National Zinc Site
Cherryvale, Kansas

Project Number: G9011.L.0063.00 **Sample #: NZ-** 011

Project Leader: Don Lininger

Sample Date: 11/28/01 **Sample Time:** 11:48 **Sampler:** ID

Expected Concentration: Low Medium High

ANALYSIS REQUESTED

Container	Preservative	Holding Time	Analysis
1-8 oz Jar	Ice	6 months	Lead, Arsenic, Cadmium, Zinc by Method SW-846 6020
1-8 oz Jar	Ice	6 months	Mercury by Method SW-846 7470A/7471A

SAMPLE DESCRIPTION

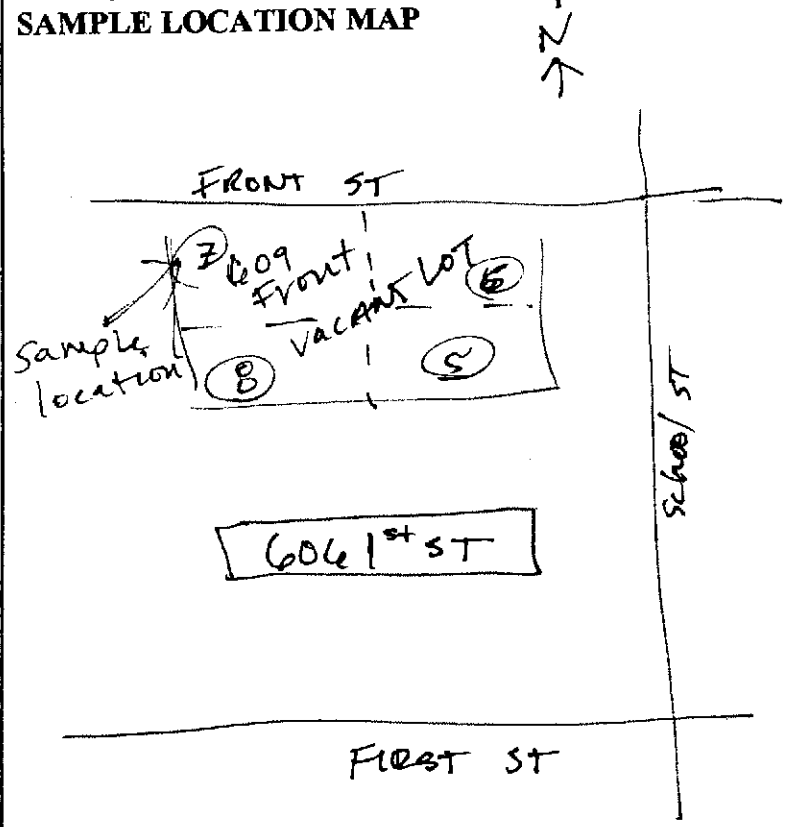
Matrix: Soil **Sample Depth:** 0"-1" **Aliquots:** composite

Sample Location:
609 Front ST
Quad #7
See sample location map

Property Owner/Contact:
Barry Waggoner
606 First ST
Cherryvale, KS

Comments: Pre-Screening XRF Readings:
QUAD #7: 1330±130; 1110±120; 934±100
Avg = 1125

SAMPLE LOCATION MAP



APPENDIX E

EPA LOGBOOKS

NATIONAL ZINC

1

COPY

7530-00-222-3521
FEDERAL SUPPLY SERVICE
(GPO)

NATIONAL ZINC
CHERRYVALE, KS
MONTGOMERY CTY

SITE ID: 07YZ
ID: KSD980406698

ACTION MEMO - 8/23/01

DRAFTED AMENDMENT 12/3/01
Action memo amendment 12/6/01
Action memo Amendment #2 3/26/02

Alex Chen - CNSL
x 7962

Site #
IT - 620-336-8952
FAX - " " - 8956
EPA - " " - 8954

Paul - fire capt
620-336-2121
Eric Ely - City Supt. cell - 620-330-1746
Shop # 3007
Rusty Moore - Coffeyville #-573-325-4993
Home - 270-676-3590
cell - 270-836-7007
fax - 270-676-3222
IT - Dale Krick - RM
cell # 314-422-2607
H - 636-239-5424

RANDY BROWN - 785-296-8065 fax 7030
Rob WEBER 785-296-8801
Peter Hamilton 785-291-3247

CURT Limestead KDHE remedial 785-296-1671

City of Cherryvale
123 West Main • Cherryvale, KS 67335
620 316-336-2776
Becky Brown
City Clerk & City Admin As of 2/1/02
Res. Phone: 316-336-3407 Fax: 316-336-2104

RM - ~~DALE KRICK 314 422-2607 cell~~ CATHEY
BILL ~~CATHEY~~ cell - 314-614-6753
IT office - 636-272-3303 x 13
EPA 1-800-223-0425

MONTGOMERY COUNTY HEALTH DEPT.
209 E. LAUREL ST.
INDEPENDENCE, KS 67301
#620-331-4300 - ALEX BOWMAN
fax-3491
SCOTT BARNHART - environmental 620-330-1190
Bill Crawford - City Admin - H - 620-347-8125
cell - 620-249-7970
MONTGOMERY COUNTY Appraisers
#620-330-1050
MONTGOMERY COUNTY Chronicle - ANDY TAYLOR
620-879-2156
444-0686
THOMAS DAVIS - H - 816-~~531-4455~~
C - 913-908-4680
NEWSPAPER FAX - 816-561-8356

Sw Bell - 620-336-3161 ~~#~~ to fiber plant
200 Martin
phone service
KGE - 1-800-794-6601

Hotel - Microtel - Indep. KS
620-331-0088
confirmation # ~~9605~~

Amendment # 2 - $168,936

P.O. # 120
$230,240.00
Amendment $251,054 ∴ TOTAL = ~~481,294~~ 650,230

START TASK ORDER $30,531.00
Amendment # 2 - 22,588
Amendment # $40,003
TOTAL START = $~~70,534~~ ~~93,122~~
Amend. 3 = 14,543 ∴ TOTAL START - 107,665

Commercial Metal - John
501 S. 20th Indep.
AM TOTAL - $1,024,262

12/10 -
ILDite PIRP notice letters
US Steel
Solomon Smith Barney

OEP - Juliana Young
x7463

Rodeo Grounds - lessee's
Harold Ridly - 336-2600
Steve Cushenbery - 336-3786
& Jodie - W - 620-331-4920 x3

Book 1
9/01 - 1/23/02

9/19/01

MET w/ Randy Brown - KDHE, Becky Brown - City Clerk & Bill Crawford City Mgr of Cherryvale @ the city Hall. Randy & I Discussed the 3 activities currently ongoing for site - our removal for the res. yards, Brownfields targeted assessment for the Rodeo grounds & prp search @ the site. we also discussed the potential for NPL listing - the city is supportive of our removal and wants to clean up the yards & the site. Bill states the local newspaper is the "County Chronicle" and Andy Taylor is the editor. A library is in town. Becky would like us to send copies of letters to her that we send to the residences. Bill states that the city is bldg a new trmt plant a few miles out of town - it would be a good site for us to obtain our fill material from - I told Bill we would have to obtain Staples 1st - he said that would not be a problem. I also asked if we could utilize the NATIONAL ZINC site as a repository for the excavated material - the city was agreeable to that - what we

would do is stockpile it their and if could be handled w/ the contaminated soil on site when it is assessed. Thanked the city for their time - will keep Becky up to date as we progress.

9/25/01 - Dale Kreiete is PM - we will do site visit late week of 10/1 or 10/8.

- MET w/ TETRA TECH - Lynn Parmenter & Ingrid Davis - she will be PM. will start immediately on QAPP - site visit likely the week of 10/1 - will look into 8 hr air sampler detection limits instead of high-vol's.

9/27/01 - Contacted Montgomery County Health Dept. Spoke w/ Alex Bowman - updated her on our removal plans - will cc her on paperwork - They do blood Pb - if child is < 6 - ¢ charge - would likely be no charge for others since we are doing a removal - she will check into.

- updated Becky Brown @ city - she sent letters out - a couple have been returned - possibly vacant - she was not receiving calls from any citizens. Appraisers office has maps w/ property listings.

- Also provided update to Scott Barnhart in the environmental office.

- spoke w/ Ken B. - he said to proceed w/ preparation of package for the site.

10/2/01 - Did phone interview w/ Andy Taylor.

10/4/01 - I was contacted by Mr. & Mrs Arvid Linquist ☎ 620-336-3804 - they seen article in paper - he owns property at 530 W. & 536 W. Front St. - They were not sampled earlier due to his illness - he would like them sampled - he resides at 534 W. 2nd - he would grant access for sampling and removal.

10/9/01 - Bill Caffey is PM for IT - will meet @ site on 10/11 @ 12:00 for walk through. LM for Rob. Weber - reviewed QAPP - signed & turned into Bob Dona - LM for Ingrid & Lynn.

10/10 - spoke w/ Rob W @ KDHE - He may try to make site visit. Updated B. Brown at city. Checked out XRF @ Dodge

10/11 - MET INGRID DAVIS (TT) @ DODGE @ 7:00.
1st WENT TO AMMONIA RELEASE RESPONSE IN KC, KS. -
LEFT KC @ 8:00 - WENT TO INDEPENDENCE, KS -
MONTGOMERY COUNTY COURTHOUSE - WENT TO APPRAISERS
OFFICE - OBTAINED MAP OF REMOVAL AREA - ALSO LIST
OF PROPERTY OWNERS. $9.50 - OBTAINED RECEIPT. WENT
TO OFFICE OF SCOTT BARNHART - LEFT CARD - HE WAS
OUT - MET PETER HAXTON & JOHN GREGAN OF KDHE -
THEY WERE OBTAINING LISTS OF PROPERTY OWNERS LOCATED
SOUTH OF REMOVAL AREA - HAVE 19 IDENTIFIED.
THEY WILL SAMPLE THE WEEK OF 10/30. WENT TO
SITE - AT 12:00 MET DAVE BRINKMEYER & BILL
CAFFEY OF IT - WALKED THE RESIDENTIAL
STREETS. DISCUSSED ASPECTS OF THE REMOVAL -
OF PEOPLE, EQUIPMENT, TIMEFRAME - THEY WILL
DEVELOP WORK PLAN - SUBMIT NEXT WEEK -
LIKELY START THE WEEK OF 10/29. DROVE
OUTO FORMER SMELTER SITE - TO LOCATION OF
BLDGS - VIEWED AREAS FOR DISPOSAL - A
LOW SPOT IS AVAILABLE JUST N & W OF
THE METAL OUT BLDG - IF THE AREA IS
CONTAMINATED - WOULD BE A GOOD SPOT
FOR DISPOSAL. MET W/ 2 PROPERTY OWNERS -
STEVE PAGE OF 511 MARTIN AND A LADY AT
THE CORNER OF COYLE & FRONT ST'S - BOTH VERY
POSITIVE ON US PROCEEDING W/ REMOVAL, WILL GRANT
ACCESS - THEY WANT YARDS & SMELTER CLEANED UP.

IT BUTTED BACK TO ST. LOUIS - WENT TO
CITY HALL - MET W/ BECKY B., BILL C, AND
ERIC - IN CHARGE OF MAINT. PROVIDED UPDATE
TO THEM ON REMOVAL - LIKELY START WEEK OF 10/29.
OBTAINED COPY OF NEWSPAPER ARTICLE FROM BECKY -
VERY FAVORABLE. REQUESTED USE OF FORMER TRMT
PLANT FOR OFFICE - THEY STATED THAT WOULD NOT
BE A PROBLEM - IT HAS A PHONE THAT HAS
BEEN DISCONNECTED, AND HAS ELECTRIC - BUT IT
IS CURRENTLY NOT WORKING - THEY HOPE TO FIX
WITH NEXT WEEK. ALSO DISCUSSED POTENTIAL
LOCATION FOR REPOSITORY - THEY FELT IT WAS
AN APPROPRIATE LOCATION. BILL INDICATED IF
SIDEWALKS WERE REMOVED - THEY WOULD WANT
REPLACED - ALOT OF THEM ARE BURIED HOWEVER
- WILL LIKELY JUST EXCAVATE UP TO THEM. THE
BACKFILL AREA IS LOCATED ON THE WEST END
OF TOWN - THEY NEED MATERIAL HAULED OUT FOR
FUTURE LAGOONS FOR WW TREATMENT. INDICATED
WE COULD HAVE AT NO CHARGE - AND WE COULD
OBTAIN SAMPLES. MET W/ ONE OF THE
CITY COUNCILMEN - WHO IS VERY SUPPORTIVE
OF THE CLEANUP - STATED THAT GAS WELLS
ARE STILL PRESENT IN THE AREA THAT WE NEED
TO WATCH OUT FOR. I WILL SEND LETTER TO
THE CITY RE: THE REPOSITORY. ERIC DROVE US
OUT TO THE LOCATION OF THE LAGOONS - OBTAINED

w/ samples; photographs. - Lands slope to the South. good Access.

Sample #	location	XRF's (Pb) ppm
Backfill # 1	SW	<45, <42, <50
" # 2	NW	<34, <45, <30
" # 3	NE	<45, <40, <41
" # 4	SE	<42, <43, <44

For samples - clearing vegetation, collecting surface soil w/ clean spoon; pie pan. - placed into plastic baggie - used EPA Niton 700 XRF for readings - will submit samples to Lab for RCRA metals. Left Chungwale - Arrived @ Dozer @ 20:00.

10/15/01 - Spoke w/ Bill C @ IT - he is working on sow - Informed him that city will let us utilize the Bldg - has phone line - will need to be connected - has elec - but a problem w/ transformer they will likely fix. We can utilize the site as a repository - whatever location looks most appropriate - they will also provide the soil at no charge from the lagoon area. I will fax him the list of res. addresses w/ contamination - so he can call one-call. Receives list & map from Ingrid.

10/16/01

Ingrid called - lab is set up - will do 20 soil samples for $1,800.00 - If we drop the HE the analysis will cost <. Has got the mini-ram lines up for air monitoring - She has secondary responsibility this week; will likely go down next week to do background air & screen the street/gravel area - receives fax from START for analytical services - looks ok - cm for Ingrid. - Receives approval QAPP from Bob Dana - faxes signature pg. to IT.

10/18/01 - Spoke w/ Montgomery Cty. Appraisers office re: parcel # 4 & 4.01 in Block # 10 - map does not show 4.01 - They indicated that the map has not yet been updated - but that parcel 4 is Lot 6, and parcel 4.01 is Lots 4 & 5. I updated our map. Drafted letter to city. Contacted Floyd Thomson - ok to dig 624 Martin - # 620-336-8075.

10/22/01 - Spoke w/ Alex @ HD. - faxes her copy of draft ltr referring homeowners to health Dept - she will review.

10/24/01 - Got IT w. Plan & cost. est. reviewing. - Also receiving backfill soil data - All levels ok. Spoke w/ Bill - 4 RFP's went out for waste hauling - bids due tommorrow @ 2:00. Getting ready to send RFP's for Clean soil hauling and excavating. Would like to process w/ 2 crews exc., get ≈ 75% done - then peel off crew to begin backfill - I will call Bill after I complete review of cost & w.p. He agrees to a start date of 11/5/01 - my concerns were that I do not have all the access agreements, and w/ halloween on 10/31 - concerned w/ leaving excavators and open and equipment being there as a vandalism target. Also discussed PBA I am concerned on ability to keep one busy - he stated we would likely share w/ another site - I said that sounds good. Discussed date change w/ Indrisworks good for her w/ move - she will go down next week for staking. LM for Alex @ Health Dept. LM for Weber @ LDHE. Spoke w/ a man at the Cynthia Hodgen Residence # 620-336-3249 - She works nights - She owns 512 Front - has no problem allowing us to sample. Spoke w/ Weber - advised him on 11/5/01 start date. Called Cheryl Valverde - owns 520 Front - 620-336-3123 - ok to exc. - will mail agreement. Called the Lindquists - who own 530 & 536 Front - 620-336-3804 - ok to sample properties. Contacted Becky Quigley @ w - 620-331-0096 - owns 610 Front - ok to exc - they moved out to Indep. because of contamination - now rent out the trailer - Her parents - Archie Cannon - resides @ 618 Front - it is ok to exc. There also - she requested that I send both access agreements to her. She also states that Becky Blate - who lives across the street from the Rodeo grounds is concerned about contamination - her # is 620-336-3700. LM for Carl Hale - who owns 505 & 513 Front - # 620-336-3388

10/26/01 - Spoke w/ Alex @ Health Dept - letters look ok. She is checking into whether or not LDHE would waive the $30.00 bloodborne testing fee for 2 kids (< 6 free). If < 6 is high, then remainder of house can be done for free. Sent letters to be faxed. Spoke w/ Becky @ city - the phone # for the old trent. plant was 336-3161 - elec provided by KGE - 800-794-6101 - it was billed to 200 Martin - but she believes it is in the 400 Block. She has received a couple of calls - referred them to me. LM for the letters (505 & 513 Front). Spoke w/ the

Tull's - who own 500-510 Coyle St. - KDHE
Did not sample - they will allow us to
sample. - Letters mailed out.

10/30/01 - called Bill - went over Action plan
& cost est. I informed him that I saw
no reason to make revisions - as long as
we agree on comments/changes - All work
will be done SCA - crew will consist of
1-JM, 1 part time PBA - will be shared w/
Wionna Post, 1-Foreman/op, 2-Lab, 3-op.
∴ Bill, part-time PBA; 6 crew. will work
on 2 exc. @ A time - 2 of the crew will
move on Mon 11/5 - the others on Tuesday.
equip will consist of 2-TB370 (exc), 2-TL26
(loaders) and a DOZER - equip coming from
Hertz in Tulsa - All the crew except 1 lab
has done residential yard work. Mob/Demob is
$85 each way for each piece of equipment.
cost is: TB370 - $2,040 each/month, TL26 - 1,480/month.
A D-3 dozer is $1,960/month. I asked Bill to
do cost comparision for A D-4 - which is a
contract item. He will notify KS one-call later
this week for utility markings - I also informed
him of natural gas wells that were being
utilized in the area. It is ok w/ him
for me to bring down the orange safety
barrier that we have @ the warehouse
The RFP's being put out for the
Hydroseeding - has 2 firms lined up for
waste hauling - likely to be the same 2
firms for backfill hauling - emment trucking
and/or Mullen Constr. Driver; truck @
$55/hr. likely charge $100/hr for truck
hour; operator to load clean fill. Rock
contract set up w/ Midwest Minerals - cost
is per ton delivered - 1"-$6.85; 1" clean $8.55
3"-6" $6.65/ton.
- Also spoke w/ Weber - he was @ site - he
did not see other KDHE out sampling - he
wants another copy of Action memo; work
plan. I will mail to him.

10/31/01 - spoke w/ Travis - KDHE is sampling
yards for Ag. Reviewed Health & Safety Plan
updates. Alex on project status - he is working w/
KDHE contractor on PRP search. Spoke w/
Thomas - field sheets developed. She will
go down on Friday.

11/1/01 - called Becky @ city. Got equip. organized
@ Dodge. Called KDHE to get update on
sampling - Spoke w/ Beth - they are getting

hits > 100 ppm - highest was ≈ 1000 ppm. Discussed plans w/ Ingrid - she will head down Monday AM - she has all equip lines up - she will go down tommorrow to XRF the street & get the legal descriptions of the property.

11/5/01 - START: couple IT notes to site 11AM - they set up office in old Dust plant - staked out repository area & set up secondary containment on fuel tank - I left Dodge @ 15:00 in response truck - arrives at site - IT/START gone - tank on site, portajohns & some equip. My cell # worthy - called Swift @ 1-800-331-0500 - # hts not been updated since phone switch last week - arrives @ hotel @ 18:30 - met up w/ START/IT - All the crew had arrived - will be on-site @ 7:00 on 11/6/01.

11/6/01 - On-site at 7:00 - START - Ingrid IT - Bill - RM, Rong - FE, 1 - FM, 4 - Op, 2 lab, 1 - D-3, 2 loaders, 2 exc. - All haste equip. Daily equip will be the pickups. Dis safety mtg - Starts crew on project - concerns w/ res. yards - tours the site - Rock arrives to set up the haul road - FM uses D-3 to grade it. Obtaines access agreements from page @ 511 Martin & Thompson @ 629 Martin. Decides to start both exc. crews @ 511 Martin - since not all of 629 had been marked w/ utilities - Bill will do them - should have by tommorrow. will exc. out ≈ 50' from each residence if yard is bigger - will do some more sampling - both page & Thompson moves most of the items out of the way. Also met w/ Mr. Tull - Discussed the sampling w/ him - he is concerned about restoration - explains to him the process - he receives the letter. o/c to sample - 500 - 510 Coyle - Also met w/ Rick Valuse & discusses w/ him. Met w/ Betty @ city hall - she never got letter. Calles Carol to have her fax them to her. She says the city agrees to fix the electrical - she is setting up the contractor - Asks her to have the H2O dept mark the H2O line - she will call them - met w/ city crew after lunch to mark - Ingrid doing add'l sampl

on the east boundary of page's 50' perimeter - still getting hits - some > 1000ppm .. continue to dig along east to property line - city crews marking H2O / sewer along the way. Ingrid started stepping along west side of page 50' boundary - doing a 50'x50' grid - area is still not along the 1st set of grids - met w/ Mr. Carl Hale - discussed concerns w/ him - spoke w/ Cynthia Hansen - she sent access agreements back to KC - 512 Front - Also spoke w/ Betty Quigley reg: 610; 618 Front - she also emailed access agreements back to KC. LM for Lindquist. Crews doing a good job locating utilities - shallowing the exc near trees, etc. Spoke w/ Randy Brown - he will be down Thursday. Discussed w/ Bill the possibilities of doing loadouts on Sunday - he will check on trucking firm. Will likely be a week before power is on, will try to get a generator tomorrow to run fuel tank and inside bldg for fax/computer - shut down equip at ~ 15:30 - will return w/ a 7:00.

11/7/01 - Arrived on site 6:45 - Stat - Ingrid IT - Bill - RM, ED - FM, Roadway F/C - 4 op, 1-lb backfill utilize the 2 exc; 2 loaders to finish E & W. side of pg. residence - Ingrid continue to sample along the west - Discussed ways of exc. large area. Utilities not marked get at Thompson residence. Generator was running for power. Haul Road was completed yesterday - ready to go - ≈ 15 loads rock utilized. Bill has set up 2 tandems to run on Thur to begin loadout of soil from page property. Reviewed data from KDHE - 7 grids along W. 1st - 500, 506, 514, 532, 511, 527, 509 - All had samples > 400 ppm. Orange Barrier was delivered - 100 rolls - Also received Dumpster - placed behind front plant. Will move Smitty's exc. crew to Thompson residence after lunch - received access agreement for Lindquist property - 530, 536 Front. Spoke w/ Rappleyea re: remote process - Smitty's crew decomm - moved equip. to Thompson - then had lunch - Ingrid sampled all west side of page - all levels elevated - ∴ will have ED utilize the D-3 to scrape 3" from the area - so we can place some clean fill

in there - Huck hit the phone cable @ Sil Martin - SWIST called - it was marked - ≈12" Deep - estimate that it will cost $100 to repair - informed crews to start shallowing up around all utilities. Ingrid is doing additional sampling around Thompson residence - then will go sample the full properties after lunch. ED utilized the D-3 for removal of small logs @ Page property. Ingrid began sampling at full property after lunch. SWIST repaired page phone line - it will be billed on the bill for our job site. Met w/ Mr. & Mrs Mangum - Jeanie or Jack 620-336-2870 - they own the vacant lots next to Floyd Thompson - they want it samples - I told them we could sample it - but we are only exc. areas of residences at this time - they are wanting to sell the lots. Told Steve page his phone was out - he was not aware of it - SWIST got it fixed - working fine. ED spent the afternoon using the dozer on page property - Smitty's crew working on Thompson property. Ingrid samples the full properties along Coyle - has elevated levels throughout the area. She pulled one sample to send to lab from page property. Met w/ Mr. Arlo Quigley - toured his property on 610 Front and his vacant property @ 618 Front - we received his access agreements @ the office - Carol faxed them down to me. Rusty left @ ~14:00 to go back to Wichita post - will start having the 1900-s next week. Mr. Quigley will spend some time over the next couple of days cleaning up his property - I discussed w/ him the horse pen - we will sample it - but will have to decide if we exc. if it is contaminated - he is currently renting the residence out - and the city will not allow the horses inside city limits - likely the renter will purchase the house from him - he stated the depth of H2O lines is deep - but the sewer is shallow @ 618 - he is not certain who is

now living at the ends of the street. Spoke w/ Mr. Thompson - he was pleased w/ how the exc. was going on his property left site @ ~ 18:15.

11/8/01 - All crew on site prior to 7:00 - Truck driver called in running late - HAD safety mtg. - will load out @ page property & continue exc. @ Thompson property. Greg Rakers showed up shortly after 7:00. will be doing air monitoring on crew. Smitty's crew continuing to exc. @ Thompsons - loads out began at page shortly before 8:00 - Bill walked truck drivers to repository - instructed them on procedures. Met w/ residents @ 524 Front - owner is Billie Jo Brice #620-331-2156, or w-620-331-6914 - Resident is a relative - said access should not be a problem. A Billy Schaffer has left me a message #336-3422 - called her - she resides @ 334 Front - Along the east side of the overpass - She wanted to know if her yard was going to be sampled - she has a son who died of a brain tumor when he was 19 - still has a couple of teenagers in the house - I told her that I would talk to KDHE and that either EPA or KDHE should be able to sample the yard. Called Carol T - LM w/ info.

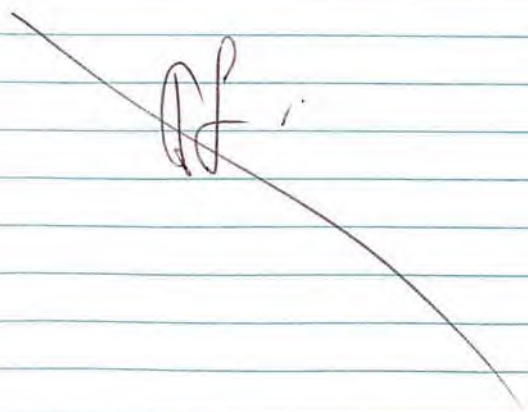
INGRID sampling N-end of Tull property - levels are < 400 - except in ditch area. to speed up the loadout - moved Smitty's exc. from the Thompson residence to loadout page residence - both loaders will be working at the Thompson residence. Met w/ the resident @ 634 Front - her aunt is Brenda Henderson who lives in Independence - #331-3902 - they are redoing the house. Also at 620 Front - they will rent it out - she does not think that doing the sampling will be a problem. - called Brenda - LM for her re: sampling. INGRID completed sampling the Tull property - only levels > 400 are in the ditch. She began to lay out grid for the Hudgen property. Rob Weber from IDHE visited site - gave him a tour - he was pleased w/ the way the removal was going - Also met w/ Randy Brown from IDHE - they were doing sampling to the south of 1st St. LED was having more rock brought in to beef up the haul road. - Also put in culvert on Thompson property w/ rock to begin haulout. Hucks exc went down - oil cap was gone - was not installed - shut down @ 3:30 - ∴ only one exc. running - Smitty's in removing the pile - losing at least 2 hrs haul time this afternoon. Huck spent the time scraping off his machine - while Smitty vacs the 2 trucks on his pile. Bill talking w/ Hertz requested either a loader set up - they don't haul, then to reduce price due to our lost down time. They will send up a mechanic in morning after parts store opens up - Greg went and purchased oil for all that was lost w/ the cap gone - Appears put in 2 - 1 gallon jugs - maybe a temporary plug w/ a bolt & rock type - and refilled w/ oil - Hertz guy should be here tommorrow around 10:00 - Bill said we will be in morning. INGRID completed sampling at 512 Front - All quadrants are hot - will need to video tape - she prepared the sketch & grid for 530-538 Front - will sample tommorrow - Crew shut down prior to 5:30. INGRID: I left @ 6:00

DF.

11/9/01 - Safety mtg @ 7:00 - I truck driver was present @ 7:00 - 2 others are running late - one of the trucks wouldn't start - Greg Dix safety mtg - Hack will complete pile at page - then Deron and move down to Thompson - will also get brushout of Thompsons yard. ~62 loads were hauled to repository yesterday. Discussion w/ Randy Brown yesterday - contamination found in the Alley between 1st & 2nd Street - between ~~church~~ school & Catherine Streets. - Hy will supply cage between 1st & 2nd. - Utilizing 3 TSI today. Deanna one of the loaders to move to next exc. Contacted Mr. Tull - informed him of results - only contamination is in ditch - he will stop by today w/ Access Agreement. Contacted Cynthia Hogsen - she can sign another Access Agreement - she said she mailed the other to us - she will stop by this morning to walk through property. Met w/ Cynthia Hogsen & husband - Travis - toured the property and obtained the Access Agreement. No concerns w/ trees or shrubs - Hy informed the renters that the work would be going on - not for sure when the park-property checklist form was details - Hack completed his pile @ 9:30 - moves to Thompson property. Inorganic still supply 530's 53rd Front. Met w/ Mr. Thompson - discussed the loadout and exc. of the SW corner of his property. Met w/ Mr. Tull - obtained Access Agreement - waiters over the ditch area that needs to be exc. Mr. w/ Mr. Linquist - will give him a call once the supply is done. The new truck broke down at ~ 9:30, ∴ only loading out 2 - one @ page & one @ Thompson - went back and checked out of hotel - make reservations for Sun/Mon - then Wed - Sun next week - ∴ gone Sat - Tuesday. Met w/ Steve & Cindy Page - very pleased w/ progress - work going well on 512 Front St. Grey Rollers here during the day to wrap up the Air Monitoring on the crew. Eric w/ the city stopped by - may not be able to use soil from the lagoon - but from a separate area on the same property

he will check it out and get back w/ me. - Eric said surveys will be there Monday to mark out the area - then we can see what area we ~~acc~~ can get the soil from. Hucks machine leaking oil - Bill calling Hertz to bring in new equip. - will be no charge for the mobe, etc - since not providing a reliable piece of equipment. Discussed the reposit w/ Ed/Bill - will be taking it further out rather than building it up - Also discuss w/ Bill that we could hand seed the repository area rather than hydroseed - he expects cost for hydroseed to be $.07 sq ft. Spoke w/ Bille Jo Bruce - she will sign access - ok to start tommorrow - went & met Bille Jo in Insp. - explained process - ~~not here~~ she signs access. - Smith hit shallow water line 42" in front of page residence - last bulldozer @ ≈ 16:00. Eif repairs - not likely to receive a bill - Smith moves to Thompson residence - met w/ Lindquists - the yard is coming up hot - except for one area by garage - Also 1 drum is sitting by the garage - appears to be used oil - we can handle - it was abandoned there - returned copy of access agreement to Bruce's daughter-in law - would likely start in there yard on Sunday - met w/ VA Murise - obtained access agreement - walked site w/ Bill & Duane - covered area Smith will exc. - Discussed work for Sat, then Sun - I'll be gone tommorrow - Duane will leave Sat night - I'll return Sun. Morning - crew done @ 17:30 - I left site @ 18:20

11/10/01 - Sat - I was not on-site - Ingrid was - She sampled west on Front - used same IT crew - 1-RM, 1-FM, 4-op, 1-lab - sub. out to cement for 2 handems - continued & completed loadout @ 629 Martin - Also exc SW corner & loading. Exc. & loadout of Ditch @ 500-510 cogle - exc. continues @ 512 Front - Also initiates exc. @ 520 Front - did some loadout @ 512 Front - did hit phone line @ 530 Front - Qwest will be out Monday for repair - crew worked 7 - 5:30. Ingrid returned to KC.

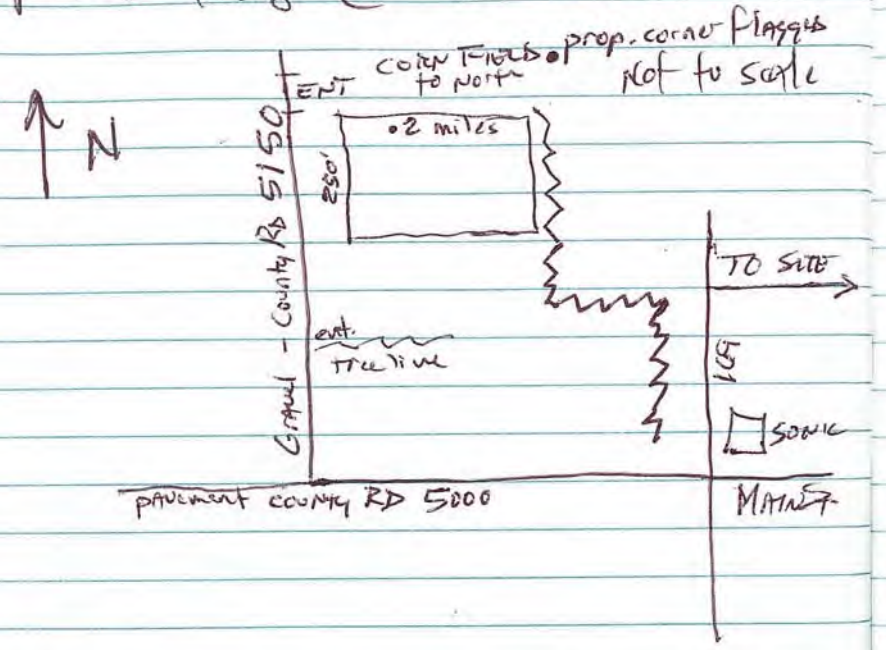


11/11/01 - Arrived on site @ 10:00 - Crew began work @ 9:00. ED went back to hotel - sick w/ utility 1-RM, 4-op & 1 lb. - exc. @ 520 & 524 Front - no loadout today - Bill working on RFP's for clean soil. will likely use truck to exc clean soil, 1-loader to restore - other crew continuing to exc. yards. walked site to view work done yesterday. Ditch looks good along cogile. exc. is complete @ 512 Front except at the area where the contaminated soil is being stockpiled - Also stockpiling soil from 520 & 524 Front @ SW corner of 512 Front. exc. looks good @ 512 Front - Also along east side of 520 Front - road is in good shape from loadout @ 520 Front Driving that occurred yesterday. Continue to work on 530 - Begin exc. 536 Front @ 11:45 - Spoke w/ Mr. Lindquist re: Stockpile near the garage area - we can place fresh gravel down - that has been fractured over. Discussed Thanksgiving holiday - will work the Tue before - take off Wed, Thur, Fri, Sat, maybe back on Sun, start work Mon. Morning. Crew broke for lunch

@ 1000 N. unpacked oil drum on Linquist property. After lunch - continues @ 520-536 Front - may complete all lot 536 TODAY. Went and walked Mary Front St. to view the residences - have lot data for 7 of them. Also walked the repository area - loading goods - Property owner list for First St. called information for Quincy phone #. - Home - 620-331-9018 - Informed Becky that we would be starting on horse pen tommorrow due to high levels - > 7000 ppm - they are fine to sell after cleaning - no further livestock will be in there due to city ordinance - Asked if she knew who lives in C17 - does not - She said it is ok to take trees out of the horse area - she realizes that we can not replace. Smitty hit a phone line @ 536 - it was an old/dead one - the resident still has phone/cable service. Bill got the D-3 and started removing soil from Lelo Martin - will not remove the trees until tommorrow - Review DATA for Hale property. LM for Gloria Zorn re: C21 W. Front Visited w/ Thompsons - may please w/ progress. Spoke w/ Gloria Zorn # 316-541-2868 - Discussed the removal action w/ her - her parents own C21 Front - but have moved out due to health - same relative to Stayle - will mail her an Access Agreement. - A relative now owns C17 Front - Mary Coulkeeton - who is in CA. Her # is 530-787-3171 - Attempted call but no answer. Clarify on map from county location of Sanora & Keeton property - will need to visit w/ county reg. properties & their boundaries. Shut down @ 5:30 - left site @ 5:45

11/12/01 - Tailgate safety mtg @ 7:00
will loadout today from S12:
S36 Front - finish limitations exc.
in those areas, continue pressing reporting
cut up some timber - Mailing access
Agreement to Gloria Zorn for 621 Front.
Crew - 1 RM 1-FM/op, 3-op, 1-LAS -
(1 of the op. is sick - Different
one from yesterday) 3 - IT trucks -
very 2 exc, 2 loader, 1 - Dozer,
1 generator. 2 Truck drivers to
arrive @ 7:30 for loadout - replacement
exc. to arrive today - will have
Seth decon the other once it
arrives - it is the one that was
always leaking oil. 2 - TDs showed
up @ 7:30 - Began loadout operations.
Spoke w/ contract for Brenda Henderson
re: C034 Front - informed her that
proposal was contaminated - will drop
Access Agreement for her this
evening. Bill working on lining up help
in of Chainsaw - hope to start this
week or Thur - Went w/ Eric from
City of Chanyville and visited area
that we can exc. clean soil from -
we can go in from the N-entrance
- go south a 200' - N of the wg back
east to the tree line: take 16"
of material - should be sufficient
for our needs - I will go back
later today and mark off:
sketch. Spent some time taking out
trees @ C40 Front - rain started -
may slow down loadout - rain done
by 10:00 - copier not working - co.
atis because we were running
off a generator - likely to bring in
a 2nd start person on weed if
we can get an xtra XRF -
spoke w/ Ken R - he is not using
Bethanie, ∴ should be available.
Woods piles up - spoke w/ Becky @
City Hall: fire dept - ok to burn
today - Bill will get some lighter
fluid. Did wipe test on XRF.
Replacement exc arrives @ 12:15 -
starters decoming old one. Inspns
will sample C020, 621 Front today.
Spoke w/ Becky @ city - she will
check w/ street dept about clutter
front St. between cycle: school
@ the ends of the day. LM w/
Barry Thier by address for library for

public notice - Mute left w/ exc - Bill lighter fire. went to clean soil area that Eric shows me - placed flag @ SW corner



can easily exc. an 16" depth over an area of 250' x 2/10 mile (1056')
N/S E/W

≈ 12,711 cy of material available.

Smitty completes leasout @ 536 Front - completes leasout @ 512 Front - moved equipment to 610 Front prepare for tomorrow - Hitz 400 @ 620 : 621 Front TD gone @ 5:45, II @ 5:55

START: I previous data - Separates site @ 6:05 - Fire has been smothered prior to departure. Met w/ nephew of Brenda Henderson @ 418 S. Wells in Independence - Harvey has the access agreement - he will give to her - left residence @ ≈ 6:30 - Mail us Access Agreement for 621 Front to Gloria Zorn in Tonganoxie.

11/13/01 - I had safety mtg @ 7:00 - II - 1 AM, 1-FM, 4-op 1-lab - will start loadout from horsepen w/ 2 trucks - they will arrive @ 7:30. Still utilizing generator - Have 3 - II trucks on-site - can move wood debris to burn pile if it is still hot. Will use other exc. crew to start exc the front of 610 Front. Bill will call Sweet today re: phone line @ 530 Front for repair. They were closed yesterday due to holiday. Will also see if Lomont prep grass for backfill. Ingram will videotape additional houses and start sampling areas that have been excavated. - Went to courthouse - obtained map & copy of deed for city property. Stopped by Brenda Henderson house re: 620 & 634 Front - no one @ home. Called her answer # - Spoke w/ the lady there - updated her on progress. That grass was contaminated - and would need to start exc. - she did not feel that was a problem - but would update Brenda today - Bill had spoke of sweet - they will not fix the line since their is no one residing there @ this time - when someone moves in, then they will drop the new line - no charge to the home owner - Mr. Lindquist. I need to discuss w/ him. Will be using the horsepen area to load soils from both 610 & 618 Front. Went to borrow area w/ Eds Bill - walked over ground - feel it is better for us to utilize a track loader to exc & load the trucks - will add a small amount of gravel at the entrance - A culvert will not be needed - will run 4 trucks - Hurk will do loadout - he will do some scraping tommorrow when the loader gets here - then will start loadout Thur. - I left for ICC - dropped drum off @ ENSU - gave form to Kage Dollman. Did physical - got business cards & copies of maps. Spoke w/ Bill - 2 This shift down @ 2:30. 1 op left only for Dr. Seth did some op. in the afternoon. Ingram did sample

11/14/01 - Left house @ 6:15 - Arrives @ Site @ 8:30. The electrical co worked some on the transformer yesterday. but it is not complete, ∴ using the generator again today. Inorganics receives 1st lab result back - should have more tommorrow - worked started @ 7:00 w/ safety mtg. - No trucks running today. - exc. @ 620 & 628 Front. ED went to borrow area @ 9:30 for rock trucks - est. 7 loads to beef up the haul road. Spoke w/ Niece of Brenda Henderson rg: exc. of the yards - she is keeping Brenda updated. Track loader to arrive @ Noon - Bill feels we can effectively utilize 4 trucks tommorrow - Also discussed w/ him charges on hours on the rental equip. - he said he had already discussed w/ Hertz - The only one they will keep track of it the Dozer - which we are not utilizing on a continous basis. Jeremy w/ Tetratech shows up @ 10:00 - Spoke w/ Belinda rg: fact sheet - She will fax draft down. Inorganics; Jeremy utilized both XRF's to screen beyond the 50' line @ 620 Front - >1000ppm - ∴ will do some additional exc. Went to City Hall and met w/ Becky - updates him on progress - Asks about city hauling debris - they might be able to pick up a little bit in a city truck - Scrap metal can go to Commercial Metal in Inkop - they screen for radioactivity - they would not come out and pick up the small volume we have. Dirt pile w/ metal in alley behind 620 Front - screened w/ XRF - >1200 ppm - needs to decide on how to handle the piles reviewed fact sheet - couple minor comments. faxed back to Belinda - Newtons working on hooking up electrical today. Spoke w/ Gloria Zorn rg: 621 Front it was contaminated - ∴ needs to exc. - She has not yet received access agreement - but does not see a problem. Huck will exc the pile of soil in the alley - will set the debris off to the side for now. Spoke w/ Clarence Keeton rg: 617 Front - he lives in CA - he did get my message - explained process to him & asked if it doesn't cost him anything if it is ok to dig - there is a cistern in the SE corner by the house. He was

not aware that Alf Castronia
Mrs Cou's uncle - still owners
of 2e - he said that they bought
it from Samorai property to the
east fence line - I will mail him
an Access Agreement. Mail up Access
Agreement to the locations from the
Chenoweth post office. The electric
was fixed @ 14:30 by Newton - furnace
is working also. Informs Becky @
city Hall. LM w/ Carl Little re: clearing
his property. OD Returning generator -
∴ Cat 3g was 11/14/01 for its use.
Carl Little gave his permission to
clear; vine tape & grib the portion of
his property to the west - explains the
removal process - he wants a walk through
before we start. met w/ 634 Front - re:
items that will be moved - creating a
stock pile of scrap to haul to Landfill -
we agree on what items to move and
what to leave in place - starters exc.
will create soil stockpile @ the NW
corner - Both 620 & 618 were completed -
∴ All equipment moves to 634 Front.
Ours exc. Went to visit crew @
Borrow Area - they met clay - Gumbo
type - has to pull of grates due to
wetness - met w/ Bill OD About - will
talk to a local farmer about disking
field to loosen. Dry up - they believe
it is still workable - The copier was
fixed. Rush is to return this
evening. met w/ Rex Knoles; Matt
Little family @ 500 & 506 W. First -
After crew shut down @ 5:30.
explained process to them - they will
sign Access Agreements - I will
deliver to them tommorrow morning
Left @ 6:45 from their house

DJ

11/15/01 - Had safety mtg @ 7:00 - 2 start - Jerry/Inerts - IT - Bill - RM, EB - FM, All other operating - Huck @ Borrow area - 2 on exc. clay loadout @ 610 & 620 Front - 2 loaders exc. 634. Tony is here also - the 2 pertaining has been knocked over - Seth upright. Bill calls for cleaning out of trailer & Hale @ 500 & 506 W. 1st - gave them access agreements - will pick up after 3:00 - they came ok to sketch/videotape - utilizing 3 trucks for loadout from the 2 stockpiles. Bill is checking on soil from other sources - due to wetness - will be to difficult to dry out. Discussed various ways - Huck uses loader and moves cart in 50' increments to check soil type. 2200' east of original scrape - found good soil - will work well - will bring dozer out to site to move it quicker to the haul road area - Emmert will allow us to utilize their trailer - no charge. Used XRF #63 to shoot in-situ - All PB levels BDL. Collected 3 - 9 aliquot samples to shoot w/ XRF - homogenized in bag.

Plan is to still run 6 trucks tommorrow. Carol T signs my timecard paperwork was done - Also made copy of ESI - sent to records center for inclusion in A.R.

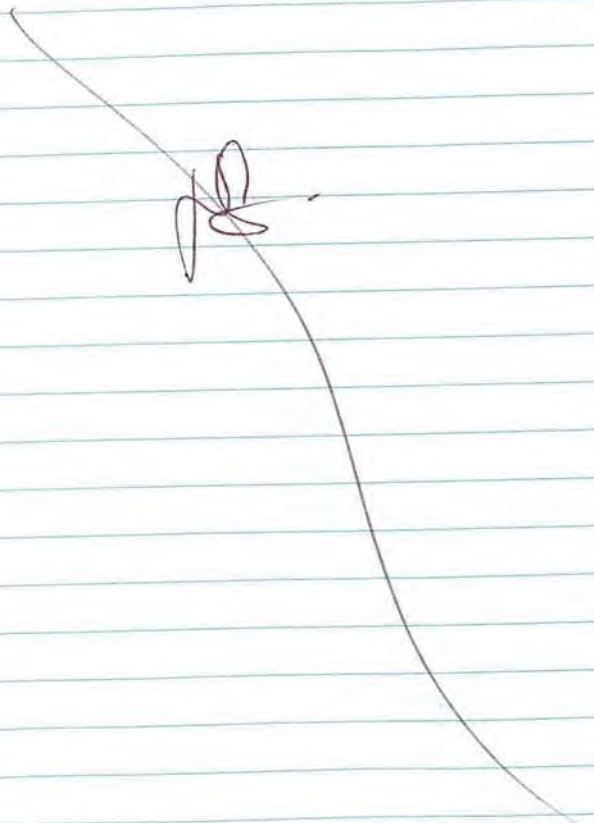
Borrow sample w/ XRF #63
#1 <53, <89, <90 ; w/#63 <98, <150, <150
#2 <46, <64, <44 ; <90, <110, <150
#3 <41, <42, <47 ; ~~<90~~, ~~<110~~ <140, <110, <120

All samples good - Dozer was loaded by 11:45 - Will go w/ out to the borrow area to begin moving soil - the repository is in good condition. Discussed equip. w/ Bill & Rusty. The majority of equip - other than the excavators are daily rate equip - Dozer is D-4, big loader and 2 - Takeuchi are the same as a unloader - Bill has been keeping a fuel log. Spoke w/ Ms Adams rep 514 W. 1st - She will sign access agreement - LM for Lindquists rep 511 & 527 W. 1st & phone line 530 W. Front. Met w/ Steve and Lindsey Page re: the backfilling of their septics starting tommorrow. Taking lunch

on shift so loadout can continue. Reviewed Draft 1900's - comments well D.I.B. Rates = charge for trade for site walk through. walked over 620 & 634 w/ Bill - needs some more exc. from drive @ 620 - Smith will direct loads out - then deepen near house @ 634 AND scrape more off outside the so boundary. will plan on directing one truck to hauling clean fill this afternoon. Cp & truck using Dozer, loader at borrow area this afternoon to stock-pile. Met w/ ICDH Randy, Peter re: the samples they have been doing today - results are as follows - Between school & Catherine - the Alley separating 1st AND 2nd St. is our southern boundary. - Along W. 1st - 606 & 638 are high on the N side - along the south side the Blue superintendent house is high - they never got access to the welding shop - knights. Between School & Coyle - everything south of 2nd St. is fine - a couple of houses are contaminated on the N side of 2nd St. - only hits I hit on the east side of coyle between 1st & 2nd St.

They will come back on Tue to sample the 8 houses on the east side of coyle - between Martin & 1st St. 529 W. 1st is contaminated they never got access to 515 Martin I will fax Randy the list of homeowners w/ contact #'s. I met w/ Wilma Adams - she signed access agreement - she said we could take the flowers from the front - met w/ Lindquist re: 511 & 527 W. 1st - he signed the access agreements - he wants grass replaced @ 530 Front to the sheet I told him that would not be a problem. met w/ Mrs. Hale @ 506 - obtained access agreements for 500 & 506. Smith got additional soil exc. @ 620 - Dig'd deeper @ portions of 634. Started hauling in clean material @ 511 Martin - got 4 loads in - Ray's trucks all day. will only run for tomorrow - our exc will not stay up. Fremont has areas identified that need barrier - only need to finish @ 634 Front. will sample 2 cells @ 513 - Hale w/ sample - All the grass along Front between sidewalk & road was < 400 ppm.

In the grassy Areas - only 1 strip of soil was > 400 ppm - @ 6:34 between sidewalk & street. Jeremy getting Ahead on sketches for Incorp. Left @ 6:15



11/16/01 - Safety mtg @ 7:00 w/ IT - Bill - Run, Eds - FM, Rusty - PISA, 4-up, 1 IAS - Hack will continue exc/loading clean. Smitty will start @ 6:21 after checking equip. - will finish exc @ 6:34 AMS loadout - will use one loader to haul clean material @ Page's - Eds will bounce back and forth between borrow area & site. ID: Jeremy on-site for START - Jeremy will start sketch - pull two samples from Wyles for QUADS that < 400. Only if truck drivers come to show up - early up heavy 5 show up + 1 has a truck to repair. Spoke w/ Gloria Zorn @ 6:21 Front - she gave permission to exc. House @ 6:21 - Her Mother Also called me says it was ok to exc - Discussed the trees & flowers - she was comfortable w/ us doing the work. Smitty starts exc. yard @ ≈ 8:00 - Seth spotted gas, H_2O, sewer. 1 op using exc. to complete 6:34 - One op. using loader to spread clean. - one loader is down - broken bucket - Hatz is to be here this am to fix. Will not need to place Am barrow @ 511 Martin - levels still elevated S. of house in A/C sewer free line area - but exc. was to shallow, will ADD

pl[illegible] of fill material. Jerry stately 527 W. 1st - Cinsequial property - peoples were not aware of what he were doing, ∴ need to start letting peoples know of work in addition to homeowners. - Give Jerry some more cards to hand out. Met w/ a homeowner along 2nd St. - says we will talk w/ them once we get the data from ICDHE. Met w/ Fire Dept. - Fire @ 524 starting about 10:00 last night - no one hurt - uncertain of cause - fire marshall will investigate this afternoon - they will likely have 30 to 60 days to remove debris. Reviewed pioneers draft 1400 for 11/4 - only change was to DB - looks ok - he will start updating for every work day that we have had so far - property list to tax RB for Coyle St - east side - have 8 residences. Visited Smith at 621 - exc condition but will need loader fixed soon - went to Borrow Area to view loadout - timing the 5 trucks - loading 5 to 6 buckets on each - 1.5 cy bucket ∴ only placing 7.5 to 9 cy per load - when can easily haul more - thats all truck can load w/ the heights of the beds of the trucks.

Loadout timing

Truck	TO	TI	TO	TI	TO
Happy Face	9:55	10:20 [25]	10:32 [12]	10:52 [20]	11:05 [13]
White	10:04	10:25 [21]	10:38 [13]	11:00 [22]	
Red-Will.	10:10	10:34 [24]	10:46 [12]	11:06 [20]	
Blw-Hang	10:20	10:42 [22]	10:53 [11]		
Red/Silver	10:27	10:45 [18]	11:00 [15]		

18-25 minute cycle from borrow area to site

11-15 spent @ borrow area

TO - time out of borrow site

TI - time in @ borrow site

∴ 5 trucks running clean - the 6th got fixed and started hauling dirty material from 634. the one loader is still broken down @ 11:30. - will not be charged for the down loader today - Hertz still hasn't been out by 12:30 - don't know when it will - est. 400,000 sq. ft at high end for hydroseed - this includes the area around Coyle - at .07/sq ft - $28,000 - should be less when you take out for ISlng, etc. Discussed w/ Bill various ways to speed up the

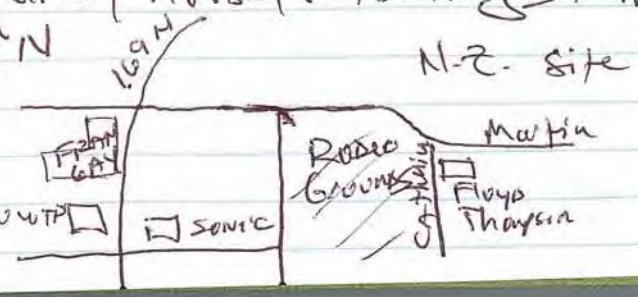
backfill - DIS est. on purchasing soil vs. what we are doing now - it is still $1.00 - $2.00 c/cy to so by using we are doing rather than purchase the soil. May not start on 617 until after the holidays. Dan Brinkman left before noon. Signed off on 1st 1900 - 11/16. Jeremy left @ 12:30 to go back to KC. Amy Pope IM g. AR - will look @ next week. LMFA Alan Chen re. AIR. Views locations May cycle for info to Randy B. Top soil exc behind 620 since has some higher hits - using CTD to load out. Smitty still working on 621 Front - Hafz shows up to work on loader @ ≈ 1:00 - fixing bucket. Exc finishes Addl. exc. @ 620 Front - ID resample - All ND. - loadout was complete @ 634 Front - ∴ exc went to 621 Front op - hit one of the power lines going from garage to house - Bill says he could fix. ≈ 1/2 of 621 was exc - fixed loader finally moves over @ end of day - to help stockpile, Utility Dozer to help scrape borrow soil - Bill

Crawford: Rick Valuise - city Administrator, city councilman stopped by - stated we were exc. clean material from wrong area - should be east of creek - I explained to Bill/Rick the Eric Ely - city Supt. & I walked over the area previously - Ans based on info he was from surveyors - we are in the area specifics. Bill contacted Eric & Terry Emert - their consultant to visit the site - they shows up in ≈ 20 minutes - Terry said we were to be in the SE corner of their property - which is bordered on the west by Brown creek and on the east by an unnamed creek - ∴ landlocked - we walked over the area - Bill est. $10,000 to build a bridge over the small creek - 2 - 20' - 60"Ø C.S.P. w/ lots of rock - plus haul roads - could also be a problem w/ access based on property line & location of power pole in SE corner - would like have to get access from neighboring property owner. Usin showed to view material - it would be good for our use. - then

were some old oil wells along the southern boundary - Terry says they has not been used for years. Terry also pts some soil borings across the property - ≈1.5' topsoil - then hit clay until ≈5' - then hit bedrock - Terry apologizes for the misinformation - he knew of no other borrow sources - he says exc. he knew of was Mueller Municipal. Eric went and talked to the farmer that borders the east property line - to get access along his fields from the North - he says no - didn't want the fields torn up - but possibly access on his SW corner boundary. Eric also apologizes. Bill starts making calls. Terry says we could take the piles we have stockpiled - then we will grade everything out as smooth as possible. Returning to site. crew shut down @ 5:30 - I got ESP from JD - she will have back home tonight - will call her tommorrow - update - she will likely not come back until after break. Left site @ 6:15.

11/17/01 - SAT. - Safety mtg @ 7:00 for IT - Bill - RM, EX - FM, Rusty - PBA op, ~~1 TAS~~ No start prescence. will utilize 3 TDs for portion of day. 1 hauling dirt soil from 6021 Front - 2 will be hauling clean soil that was stockpiled from the borrow area - then will pull up the gravel and haul it back to our repository - ∴ Both exc. working at 6021, also a loader moving material, then a loader spreading the clean soil @ Sill Martin. Bill is still looking for soil to haul in. JD left list of homes that need barrier placed down - having that list - 2 TDs done @ ≈10:00 hauling clean soil - will haul gravel back to repository area - and then regrade - Both exc. ∴ loader working @ 6021 Front - Seth is running loader - ∴ not operating. Bill met w/ Frank Gay - who lives along the west side of 1169 Hwy - south of the grand road - which runs E/W - and when heads east to site - turns into Martin. His home is the location of

Jeremiah Farms & Garden Center - Hwy 169 N. Cherryvale - 2 #'s listed in book for the business - 336-2760 & 336-4014. Fran works for the KS. Army National Guard - SFC - Recruiting trainer - located in Coffeyville - office # 316-251-0617, cell # 785-633-0441. He is listed in local phone book as Fran & Michelle Gay - 5332 County Rd 5050, Cherryvale, # 336-4064. ED & Bill first met w/ Fran - he has an area on his property that we wants the soil removed - so he will be able to hold more H_2O to run his pumps for irrigation - he would not charge us for the soil - would grant access and allow the area to be sampled - his property is just N. of the current Cherryvale WWTP. He has ≈ 27 acres w/ a trailer/house/outbuildings. Mr. Manson



- who lives on the N of Fran, is the one who owns property next to Floyd Thompson that has requested it be sampled. I called and discussed the situation w/ Janice Krone, Bob Jackson & Ken Buchholz this AM - All in agreement that this would be an appropriate borrow source - not making any improvements to lands - may need to work around his garden - went and met w/ Mr. Gay - he said we could take as much soil as we need - no charge - our cost would be in exc./haul. - I asked Bill to run the #'s - which I would do also - I informed Fran that we would need to do some sampling and if the levels were ok - we would start sometime after Thanksgiving if this was cost effective. We thanked Fran for his time. Bill worked #'s - easily ~~less~~ $4.00 less per ton if we had: haul free dirt - so easily a $20,000 savings to project. Will continue to evaluate. Used 2 TD's until 14:00 to haul rock back after the clay soil was hauled back. Rock placed @ repository - Hock then using Dozer to level out borrow area -

Seth began decon on the truck loader. using one TL-26 to move the repository material - using the other to finish spreading clean dirt @ SW Martin went back to view SE corner of city property - instead of pipe - could use large riprap - move if heavy rains come in - 2 concerns to discuss w/ Bill @ City - 1) Is there any lease on property for someone to use it - that our exc. would interfere w/; 2) use large riprap instead of pipe - went to visit property owner to east - not at home - would only need limited access on the very SW corner of his property - no name on mailbox - but RF 2 Box 261 went to fire sta for update on 524 Front - Fire marshal has not completed his report yet - hopefully within a week - still needs to do some interviews. They do not have a way to give me a name based on a PO Box. Smitty was ready to scrape the last of the LTD and load last bit of soil out - will move equip over to the pump area. Signed off on 11/7 1900 - it has pending for hauling trucks, etc - :. reason for large amount - Hauled out 25 loads from 6021 Front - Drive home by 16:00 went to meet w/ property owner located on East side of city property - He sold the property to the city - DENVER TRICKNELL He has no problem granting us access on the SW corner of his property to get onto the city lands - he does not feel that we would even get onto his lands - but in case we need to it is ok. I informed him that we would restore anything damaged. - We talked until 17:15 - Bill C called - The crew was sent home @ 17:00 - I met w/ Bill & Rusty - discussing work to do when we returned. All equip has been parked by fuel tank - equip, tank & bldg secured - Also closed gate to repository. left site @ 17:30. CM for Ingress by no need to return to site until after holiday.

11/18/01 - Spoke w/ Don the hotel manager re: Thomas Davis' Rod Rogue - they has not properly checked out - we ~~[illegible]~~ got it worked out - he backed out the charges. Thomas also has 2 packages @ the hotel - I will call her about. Told him we shouldn't have anyone check in until the Sun. after Thanksgiving. He also says we could use the tax exempt forms. Reviewed emails 12:30-14:00. Signed off - went to get lunch. Did no further work - Did not feel well

11/19/01 - Hotel messed up my bill for this stay - ended up taking one night charge off of the bill for the mistake. Spoke w/ Thomas - ok to leave her mail @ hotel - she will likely return on Mon. Spoke w/ Jill - he is city into D6 from IT group otherwise it will be Hertz - be there early next Monday. - Notified exc. residents of backfill will not start until after Thanksgiving -

notified. Brenda Henderson - 620/654 Front
Lindquist 530/536 "
Page 511 Valinde 520 Front
Martin Tull Coyle

Others did not answer - will try later.
LM for Bill Crawford to return my call re: the SE corner of lands went to SE corner of city property to collect staples - Did 4 ~2" depth 9 shiner over 50' x 50' grid - collected photos. Diagram not to scale

called sampler BSE#1-#4 - Borrow South east, Drove by 1st borrow area - Dozer & track loader still there. met w/ Steve Page @ Sil Martin re: no more work till after Thanksgiving - that was fine w/ him - he is very pleased w/ progress to date. Secured office - left site @ 1:30. Spoke w/ Bill A couple of times - he wanted to bring down an xtra op. on MW - I felt we were fine. LM for Carol re: vehicle - time off tommorrow if still not feeling well. Spoke w/ Don II. he signed out Dr. Durango for me from today until next Mon - ∴ I transferred all equip. over, Arrived @ Dodge @ 16:15.

11/20/01 - Took the day off due to illness - ∴ 10 hrs A.L.
Did speak w/ Landfill operator Chuck Goff @ the Resource Recovery Landfill located south of Chuckwalla - Discussed our Dirt job - May send some normal waste for disposal
620-479-6131
cell # 620-252-8336

11/21/01 -
Into office - catch up on mail.
Reviews 11/8/01 - 1900 - looks ok.
CM for Bill C. Spoke w/ Becky @
city re flagging the exact property line
calls Gloria Zorn re: 621 Front - no
answer. Informed Becky Quigley re:
610 & 618 Front of work shutdown
went to Dodge to swap vehicles. cleaned
all equipment. Sampled the 4 soil
samples collected on 11/19/01 w/ XRF
#53

#			
BSE 1	52.9 ± 32	59.4 ± 32	82.7 ± 36
BSE 2	<39 (ND)	<44 (ND)	<41 (ND)
BSE 3	<45 (ND)	58.3 ± 35	<48 (ND)
BSE 4	59.1 ± 33	<45 (ND)	62.8 ± 34

∴ All ok -
initialized GPS unit @ Dodge -
returned Bahnke XRF - #63 -
CM for Janice: Donna re: calibration
Gloria Zorn calls - discussed
removal Amp that no further work
until next week. Turned in OT
for 11/5 - 11/17 - 45.5 hrs - C.T. said
I should be ok for the top pay category

Spoke w/ Clarence Keeton re: 617
Front - thy received Access Agreement -
signed - no problems w/ it. told
him we would likely start next
Mon - that was fine - he said
thy mailed a couple of days ago. -
He has not discussed w/ Alfred
Castorena yet re: The Lot #6
still in Alfred's name - I will
discuss w/ him next week. -
Discussed removal w/ Ken - can get
additional $ if needed. Mike S.
signed off on Gov @ night.
CM for Sgt. Fran Gay re:
the utilization of the soil from
the city's property rather than Frans -
left my # for him to call.
Spoke w/ RB - thy will likely be out
next wed - 11/28 to complete the
sampling - thy have not gotten all of
the recessis worked out for Coyle St.
yet. ~~returned vehicle to whse.~~

~~11/21/01 No OSP @ site - took sick day.~~

11/23, 24, 25, 26. - No Site work - Some IT & TT returns to Independence late Sunday.

11/27/01 - Monday - Start IT & osc back to site - safety mtg @ 7:00. 3 IT trucks on site - Seth Brown - LAS does not return to site - went to different job in St. Louis - will have new op. on-site - he will run D-6. Bill - RM, ED - FM, 5 - op for today - D-6, trackhoe, 2 - TL-26 loaders, 1 - exc. will use 1 loader to set up repository rock, Smith will start on 1 exc & 1 - op w/ loader will start @ 617 Front to begin exc. Once the D-6 & trackhoe show, will start haul roads for borrow area. will need to cut some trees. Alg creek. Eric w/ city stopped by - I asked that the east property line be flagged on the N. side of the creek for the borrow area - so we don't get to close to the property line - Eric will get w/ the surveyors to flag. Met w/ Smith & Rob by 617 - walked the property - so that determines stockpile area - located all utilities - called Mr. Osborne and spoke w/ him re: lot 6 - parcel 4 - west of 617 Front - he says he has sold all - doesn't own any. I explained what the county records show and also the removal process went to borrow area - met w/ Bill & op - located area to place road and turnout for stockpile. Bill called on rock & equip. - neither on-site by 9:00. - it's called shortly after 9:00 - equip. is loaded - but do not have OK permits - have ks. ∴ Bill is having 2 pieces of equip moved to new borrow area - will use Dozer to move rock free of charge - since equip not on way. Review maps of properties - gave list for utility markers to Bill C. - met Bill Off - he dropped off KDHE access agreement for 404 & 408 N. Liberty - he was questions about sampling & removal - also questions regarding restoration. Likely that Rusty will return to site tommorrow. Eric City stopped by - surveyors should be out by Wed. to mark the east property line. Lord of Gravel shows up @ 9:45 - Bill will escort to the new borrow area. Spoke w/ Randy Brown @ KDHE - They will be out Wed to do some more sampling. 4 loads of rock were utilized to build haul roads

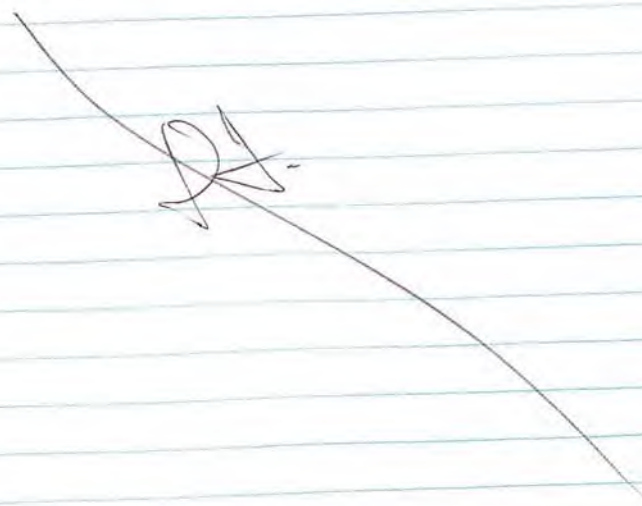
to creek. As of 13:00 - 2 loads of riprap over haules in - will spend the afternoon hauling in riprap. The D-6 Dozer arrives @ ~ 12:30 - the track hoe will arrive late this afternoon - the D-4C track loader now removes from the site by Hertz 1-op will use the other exc to scrape the ditch along the south side of 6341 Front - lots of utilities in area - b of Bill feels we can safely exc - shallow. Spoke w/ John Koehn rg: 515 W. 1st - A portion of yard is contaminated - will leave an access agreement in the mailbox - thy plan on being there this evening. Left w/ Urbanek rg. 529 W. 1st - is a number of these family purchasing? (that was my understanding) Called Randy B - to see if he has a types title of data - he will check w/ Peter - this sends over. Spoke w/ Barry Wagoner rg: 606 - I will drop off access agreement w/ him. Went to Borrow area - Dozer has moved across creek trees out on other side - continuing to haul in riprap - will likely use 3 trucks tommorrow to finish haul in. Inurid came out and video taped borrow area. Started using dozer to scrap top layer of vegetative cover off. The trackhoe will not arrive until tommorrow - Bill says that allows us plenty of time to stockpile - Began using dozer to stockpile - soil in front of 634 has been removed - 617 Front almost complete - will load out tommorrow w/ 1 truck - will likely run 4 trucks on Wed for clean. Went to Thompsons to view wet spot on N. side - old metal pipe - filled in but draining H2O - will cap. Also measured cap @ 617 for sewer cleanout Smitty broke - ∴ will replace - getting a sewer smell between 617 & 621 Front - will spot dig along 621 sewer tommorrow to make sure it does not break w/ weight of equipment. Met w/ Mike @ 509 W. 1st - homeowner is Cheryl Blackburn - she will return @ tommorrow @ 10:00 - can met w/ her then - left access for her. - Dropped off access @ 515 W. 1st for the Koehns - left in the mailbox. Met w/ Barry Wagoner @ 606 W 1st - Discussed removal w/ him - he wants vacant lot samples - left access agreement w/ him - he will discuss w/ wife. Bobs came in for hydroseed - .08¢/sq.ft - firm in Joplin - thy can do work in phases. Weather indicates snow storms

will primarily be east of here. PM for Carl Little by the open area west of the 50' perimeter of his house - All le cells come up elevated - will use the 2 loaders to scrape off ~ 3". IT crew shut down ~ 17:00 - I left site @ 17:30. Spoke w/ Carl Little @ ~ 18:15 - ok to start on his west end - will do an ~ 3" exc. will meet w/ him Tue every to do a walk through. Rick Walmsley left message - his mom - Jerry Blazer resides @ 524 W. 1st - they are in the process of purchasing - her # is 336-2298 - ok to proceed -

11/27/01 - IT Safety mtg @ 7:00 - 3 IT trucks bey used - Bill - RM - ED, FM 5-op - Smith will loads out 617 Front w/ 1 truck - the TD arrives @ ~ 7:15. - The 2 loaders and other exc will be used to exc the west ends of Hales property - 513 Front. Huck & DeWayne will be out @ borrow area - stockpiling - the exc is to arrive today. Should be 3 trucks haulg gravel. ED will continue to work on electric @ 621 Front. He fixes the sewer cap @ 617 Front and put a plug on the old metal line @ Thompsons - that had leaked some H2O - it was all drip up this am. Had 3 loads of rock by 8:30 @ borrow area - Qwest stopped by - one truck broke down, trying to line up 2 others - ∴ would run 4 rock trucks - 2 more showed up at 9:15. Watered the grade @ 515 Front w/ op - will stockpile in the NW corner of property to load out off of Front. Smith had 7 loads out by 9:30 - off of 617 Front. Met w/ Joe Slamby @ 524 Front - provided him an access agreement - Discussed the remount w/ him and how we would restore - He will

Sign Access Agreement - I will pick up from him tommorow @ 9:00. Exc still not on site by 9:00. Met w/ Chuck Blackburn @ 509 W. First. Answers questions - obtains signed Access Agreement - they will try and get brush mowed out by next week. Went to borrow area - another truck broke down just off 169 hwy - loaded w/ rock - Dropped drive shaft - got D-6 and utilized chain to pull him to borrow area - dumped rock - then moved him out of way ∴ only running 3 trucks. Bridge over creek closed by moon - starts tailgate rock on west side. Escorted Hate to borrow area w/ Kobelco track hoe - Arrives ≈ 12:00 - unloaded - truck clears some limbs - then began exc. - finally both pieces of equip stockpiling after 12:00. ED. putting together plastic cones for the 2 loaders & the D-6 to block wind for the operators. Joe dropped off the Access Agreement for 529 W. 1st Street - the six residences we called in for utilities were marked today along W. 1st. Still has a small of Sewer gas along 621 - east side. ED. is sketching & videotaping 509 & 529 W. 1st. called Carol T. & LM - phones into KC are not working from here. Surveys shot in the east property line of the borrow area - placed stakes in the area. Met w/ Barry Waggoner @ 606 W First - obtained Access Agreement from him - he also owns the property along Front - At corner of school - he wants it sampled - I tells him we would grid it off and sample - explained removal process to him & AA as exc. passes. Smith is close to being done w/ yards @ 617 @ 1:30. primarily using exc. to push 513 Front - using loader to move to stockpile. ED is using one loader to spread the soil at the repository - will start building it up - do not envision going further out w/ it. Previous litter that Bill drafted is: notice of 85% - looks ok - I previously discussed w/ Ken B possibility of amending original D.O. - Action memo Amendment to increase $ for removal action since more yards being added to project. Appears ≈ 30 res. yards will be exc. - Does not include any work ~~west~~ east of Coyle. Met w/ Carl Hale @ 505/513 w/ Bill C - did site walk through discussed yard w/ him: how to proceed - will plan on continuing to work on west end of 513 w/ Smiths exc tommorrow.

then start on 505 Lilac on Thur. Will exc. the area w/ the trampoline & swingset to 24" depth - the kids play hard in that area. Smith completed loadout of 617 Front 26 loads to repository, then moved to 513 and hauled out 2 loads to repository. - completed ≈ 50% of west end of yard - Atul Rats was completed @ borrow area - good stockpile started - covered w/ plastic. Crew shut down shortly after 5:00. This brought in trucks for tommorrow. The dirt truck from today scraped bus clean for hauling clean backfill tommorrow. left site @ 5:45.



11/28/01 - No snow overnight - colder. IT safety mtg @ 7:00. 4 IT trucks. Bill - RM, Ed - FM, S-op - Huck - exc @ borrow area, Dwayne - D-6 @ borrow area - Rob & Whitbury - 2 loaders moving clean fill, Smith - exc @ 513 Front - continuing to exc west end of yard. Rusty - F.C. - on-site today - will start getting caught up on P100's. 4 TDs shows up - signs in - briefed on days activities - will start backfilling @ 511 Martin. 1st 4 loads clean dirt out by 7:42. 1.8 cy bucket on exc.

Truck	2nd loads II	TO	3rd loads II	TO	4th II	TO	5th II	TO
Wilkins	7:47 6	7:53 14	8:07	8:13 15	8:28 8	8:36 16	8:52 7	8:59
Red/Silver	7:51 6	7:57 15	8:12 6	8:18 13	8:31 8	8:39 15	8:54 8	9:02
White	*7:54 8	8:07 16	8:23 6	8:29 15	8:44 7	8:51 15	9:06 7	9:13
Orange	8:01 8	8:09 15	8:24 9	8:33 12	8:46 8	8:54 14	9:08 9	9:17
	6-8	14-16	6-9	13-15	7-8	14-16	7-9	

* white did not latch safe - 2/3 loads and popped open.

D-6 starting dying @ ≈ 8:15 - Bill came out to look at it - runs for ≈ 15 minutes - then stalls - then have to hit the ether to restart. Bill called Hulse mechanic - coming from Tulsa - should be here in ≈ 2 hrs. Bill met

w/ Steve this AM re: gravel driveway - he only wants gravel along the one GARAGE door to street - not a double wide PATH. No gravel ADDED to existing driveway. IT believes fuel filter bad on Dozer will try to obtain over Smitty exc 513 Front St. - Both loaders being utilized to move clean dirt @ 511 Martin Cosmo 11/8 - 1900. Spoke w/ Mr. Lindquist re: where he wants gravel @ 530/536 - he will stop by sometime TODAY. D-6 still having problems @ 11:00 - mechanic not shown up yet. Started backfilling along Front St. ED moves other exc. to repository to load out rock - couple of loads out to borrow area. May use the trucks for rest 2 hours of the day to move dirty soil from 513 Front. Review emails. Met w/ Randy Brown - he brought list of DATA TO DATE for sampling done by IDHE. provided him our DATA from 515 First. Also gave him the Access Agreements that had been dropped off. They will start sampling east of cafe today - likely down again next Tue to complete. Spoke w/ Bill Greg Rahlens plans on coming down next week to do 1 days

of air monitoring. Reviewed 11/9 - 1900 - HAD 1 comment - Decided to shut trucks down @ 1:30 - starting to cut up the yards. Its been snowing good for ~ 2 hrs. Smitty continuing to exc. @ 513 Hale; Dewayne continuing to stockpile @ borrow area - Hertz still not out by 2:00 This parks trucks adjacent to filter plant. IDHE sampling along cafe. Rosi Whitenbury lovely out piles of clean - Smitty should complete west end of 513 today. Hertz 1's filters on D-6 - will stop by @ end of day to ensure working ok. Review IDHE DATA. HAD A couple questions - Met w/ Mr. LINDQUIST - walked property @ 530 FRONT - Discussed area he wants gravel - along west side of trailer - between the ties and out to shed @ the N - then also S of the trailer - up to the sidewalk - told him that would not be a problem. ED had discussed w/ IDHE how they were sampling. 5/SNW 11/9 - 1900 - only comment was that included Greg Rahlens vehicle as a rental - not a daily rate item. It is cheaper for govt to pay rental + fee rather than 3 days of passenger exp. Rusty preferred this way - he was also aware that

we also not pay fuel - he did not include in 1400. IT shut down @ 5:00. The D-6 is running alot better after Hartz replaced filters. ID sample soil collected today - left site @ 5:30.

11/24/01 - IT safety mtg @ 7:00 - 4 IT trucks Bill - FM, Ed - FM - 5 - op - Dwayne - D-6, Huck - exc, Smitty - exc, Ross - whit - loaders. 2 TDs are to be here @ 7:30. Huck/Dwayne will start a new stockpile @ borrow area. Smitty will begin loadout @ 513 Front. The 2 loaders will smooth out clean material that was hauled in yesterday. Due to wet weather yesterday afternoon - not hauling in clean dirt today. Follow gov request: use lose to cap cell 1. The two loaders smoothed out what clean soil my crews. At ≈ 8:00 walked Mr. Hales property @ 513 w/ Smitty & Rob - Discussed features & area to exc. - the south side and west side of house - All that soil will be moved to current stockpile. Running 2 trucks to repository - they are starting piles next to each other - plan is to fill the area w/ piles - then bring over the D-6 to smooth them out - expect will add a 2' lift. Huck is mixing the current borrow pile to break up. Dwayne is beginning a new cell for exc. of clean. Drove by the original borrow area - NW corner of property - it looks good. Provided update to Rob Weber @

KDHE - he will likely stop by next
week - He drove by the site
before Thanksgiving - it looks
good to him. Discussed sample
#'s w/ Incorp - she will incubate
the #'s going to the lab by 10 -
which should give us plenty - we
will not be doing any additional
HC analysis. Spoke w/ Randy Brown -
2 homes east of Coyle has hit > 400 ppm
corner of Front & Coyle; house just south
of it - 420; 416 Liberty - R.B. will be
down next Tue to do more sampling -
on house located N of smelter and at
residences that have requested sampling -
likely 5 or 6 homes - Question I have
on the DATA's field sheets can be
answered by Peter - he will be in
Lafn today. 2nd stockpile at borrow
area is going well - 1st stockpile was uncovered
to let winds dry it out. Mailed report
from post office to Carol for copying - got
receipt. Stopped by E.D. - talked about
Montgomery county Fire Bldg along Coyle -
one of the FD members is a capt - he
will check w/ a supervisor to see if
they want properly sampled - they were aware

kids are regularly playing in fields - I
asked about water meter - they said to call
city - went to see Becky - she called Eric -
he provided me meter, 100' hose & hydrant wrench
we will be charged in the end w/ the H2O
that we use. meter reading is 16,858.1. Met
w/ Pages & Ammon @ 638 W. Frost - Discussed
removal - they sign Access Agreement -
they want area to the North that
borders Front St. sampled. Reviewed
Title 1900 - comm period from 11/10 to
11/14 - entire week - sent through Friday -
was ~ 5 comments. Got updated info
from Peter - he will fax down field sheets/
maps for several of the residences. Rusty
made changes to 1900. Drove a loader
for awhile to move dirt @ trailer -
used meter & hydrant to spray down
the street after trucks dumped for the day.
- they shut down around 4:30. Repository
looking good w/ stockpiles - haulers 2 loads
back out to borrow area. Stock says we have
3 days having clean stockpiles - they were
well covered w/ plastic. Discussed using Dewayne
tommorrow for exc. Received fax from Peter.
Invoices sampling: Sketch 638 W. 1st met
w/ Mr. Smith - resides @ 635 W. 1st - He

is the supt. of schools for Chenango Co. - he purchased property ≈ 1½ - 2 yrs ago from Willis - county has not got updated list. Gave him an access agreement and explained the removal process - will pick up agreement from him tommorrow after 12:00. He said the knights fence on the east is on his property 25'. went to knights house @ 605 W. 1st - no one answered door - Daughter lives @ 630 W. 2nd - behind Smiths - met w/ her - gave her a card - her father - Mr. Knight - passed away a couple of weeks ago - the state never heard back on access - She thinks Mrs. Knight will sign access will discuss w/ her tonight - She works like her yard further defoliant - KDH - samples has 1 hit of Dog > 400 - will review field sheet. I will drop off access agreements tommorrow. Went by FD - still out of Montgomery County Bldg. IT done @ 5:30. FD identified 2 elevn cells @ 638 W. 1st. Left site @ 6:05

11/30/01 - IT safety mtg @ 7:00 - 4 IT trucks Bill - RM, ED - FM, 5 - op - Rusty - PBA. Muck on exc @ borrow area - Smitty will load out ≈ last 3 loads @ west end of 513 - then move to east end of 513/505. JAMES: Rob will be moving clean material. Dewayne will continue to stockpile w/ the D-6. Ed/Bill will both run the other exc @ 505 Dory the day. will place some gravel in ditch @ 513 for the loads of soil going to repository. Running 4 TD's - I will start off dirt - then switch to clean after secondary bed. - starters @ 7:30. Reviewed revised 11/16 1900 - couple of comments - met w/ Mrs. Hale @ 506 W. 1st - discussed yard features - bulbs in front of 500 - shrubbery - cable from pole to house - would like gravel in area back by garage - will likely start yard later today or tommorrow - Stopped by FD - got verbal okay to sample soil areas @ the N & S ends of the Montgomery County Rural FD building on W. 1st. will notify them of results on Tue. IT sampling yards - she will screen east side of 500 W. 1st & between 505 Front & Shop - Area to small for exc. op. to notify before going to west side of school w/

clean fill. Reviews KDHE field sheets & DATA at additional Residential yards. Discusses w/ Bill about having couple loads of rock into borrow area - he will have Rusty call - Rust arrives @ ~ 9:00. Went to check out from hotel - got gas. Returned to view lookout - still running 3 clean trucks - Smith should be done by noon on dirty loadout - then begin w/ 4th clean truck. ED samples along east edge of 500 W. 1st - fine between 5 & 6 hour - ∴ will not exc. that portion. ED also sample after 12" exc on east side of 505 - samples are <400 - will continue to sample after 12" exc. Spoke w/ Billie Jo Bruce re trailer @ 524 - that caught on fire - she just received clearance today from fire marshall to remove debris - would like to do quickly because she has had a couple of people interested in purchasing lot - I informed her that we are backfilling today - and would likely hydroseed next week - which if we do hydroseed - then they come in to move trailer out it will mess up the seeding - she says she would try and get it out of there as soon as possible. Met w/ Smith @ 635 W. 1st - he left agreement @ work - I will stop by later to pick up. Went to 630 W. 2nd - met w/ owner - Discussed KDHE results w/ him - only sample >400 ppm was along sidewalk - result was ~408 ppm - All other samples <400 ppm - ∴ we agreed no reason to do additional sampling or any other removal work @ 630 W. 2nd - they will provide the access agreement to the stepmom who resides @ 605 W First - She does want the yard sampled - indicates she has always had problem w/ things growing. Signed 11/16 - 1400. Faxed use/lease sheet to Carol for later in December. Did briefly w/ Bill of areas that need barrier west of School St - will likely start backfilling that area tommorrow. 4 TDs shut down @ 3:30. 2 loaders still moving clean dirt - still utilizing 2 excs to dig out 505 & 513 Front. Will send 50 rolls of orange barrier to Newton County - ED will take over Sat. night. Viewed borrow area - dozer is staying up close w/ exc. w/ replacement soil - plan on continuing stockpile around the haul roads to ensure

plenty of clean material. Plan on using 4 trucks tommorrow for clean haulin & 1 for Dirty soil from 505/513. Want to repositoy - Area looks good - TDs doing a good job of closely placing soil. 70 loads clean haules today. Obtaining Access Agreement from Smith @ 1035 W. 1st. IT shut down @ 5:30 - will start @ 7:00 tommorrow - 4 clean 1 - Dirty truck. Left site @ 6:00 - ID will be on-site tommorrow - I will return Sun. morning.

12/1/01 - Not on site - ID was for portion of Day - 4 IT trucks - normal crew / activities - completed backfilling west of school - began portion west of school - should complete tommorrow. Smith continuing loadout / exc @ 505 - will need ~ 3 hrs tommorrow to complete. Ran 4 clean trucks & 1 Dirty truck - will do same tommorrow. crew 7 - 5:30 - TDs 7:30 - 4:30 I will return to site tommorrow.

12/2/01 - Returned to site - IT safety mtg @ 9:00. 4 IT Trucks - Bill-RM, ED-FM/OP, Rusty-PBA - 5-op. - Smitty - continue loadout @ 505/513 - should complete today. Rob & James on loads - houses between school & Catherine - backfilling will get close to completing today. Dewayne & Chuck @ borrow area w/ exc & D-6 - continuing to stockpile clean soil & loadout. TDs(5) shown up @ 7:30 - used 1 @ 513 for dirt loadout - u/ hauling clean. Hauled ≈ 100 loads yesterday - Repository in good shape - TDs doing good job of closely placing piles - spoke w/ Mr. Manson - he is still very interested in getting his yard cleaned up. Reviewed draft 1900 for 11/17/18 - looked fine. ED took 50 rolls of the barrier to Newton County yesterday. Did place barrier @ 606, 608, 634 Front - utilized 3 rolls in each yard. The hydroseeder will visit site on Tue - he will bring equipment in to start the finish grade & do site walk through. Spoke w/ Mrs. Knight @ 605 W. 1st - she gave verbal ok to staple - we discussed the remount process - she has not yet gotten the Access Agreement from her Step-Daughter in-law. Faxed in OT form - LM for Carol T. re: OT/vehicle/Daily report. Lot for sale @ NE corner of 1st & School Agent - Caldwell Banker - Woody Dulohery - Hot 421-6840 or Janice Dulohery - 421-3052. Reviewed draft 1900 for Week ending 11/30 - looked good - ∴ All caught up on 1900's except for 12/1 & 12/2 - Rusty will put them together tommorrow - TDs shut down @ 4:30 - Majority of IT crew shut down @ 5:30 - not much stockpile of clean soil left - ∴ will continue for a few hours to stockpile. Majority of exc. areas west of school have been backfilled. ED/Smitty/Rob/James - All shut down @ 5:30 - Rusty went to get dinner. Bill/Chuck/Dewayne and myself went to borrow area to continue stockpiling - used D-6 & exc. - Rusty worked till ≈ 6:30-7:00. The remainder worked till 9:00 - used my truck & Bills truck to shine lights - did a good job stockpiling - will have sufficient volume to loadout tommorrow.

12/3/01 - Monday - Bill/Huck/Dewayne reported to work @ 5:45 @ borrow area - to stockpile - 4 IT trucks. Remainder of crew on-site @ 7:00 - HAZ safety mtg - Bill-RM/EX-FM/OP - Rusty - PZT - he plans on leaving to Wionna post today - Smith - continue to exc. @ 500 W. 1st. Rus/Sams - using loaders to continue backfilling - Huck/Dewayne - continue to stockpile & loadout - 4 TSI shows up @ 7:30 - haulers 91 loads yesterday. ED on site - will start post - screening holes - Fire Station resolve water check. Greg Rabens to show up today to do some additional air monitoring. Signs 11/30/01 - 1900 - work on AM Assessment. Greg R shows up @ 9:00 - has not yet received previous air monitoring DATA. He will only place monitor on Smith - since only one exc. in contaminated area. Smith & ED using both exc. @ 500/506 1st St. Backfilling started @ west end of Hales property - 513 Front. Borrow area going well. Stopped by 634 Front - they were pleased w/ progress. e-mailed action memo assessment to Carol Ann Alex Chair. Reviews signs 12/1 & 12/2 1900's - ∴ caught up. ED samples city property to the west of the filter plant - only samples > 400 ppm were in the NW corner. Rusty left site @ 13:00 to go to Wionna Post for the remainder of the week - he plans on returning to the site on Sat. Drafted polrep. Stockpiling still going well - good progress being made on 506 W. 1st - using both exc. Spoke w/ Carol - she received email - working on action memo assessment. Also spoke w/ Gary S - he is ready to process the assessment. Has the cost est. EM for Roy C. reg START - TASK ORDER changes necessary. Completed 1st 3 polreps - e-mailed to Carol T. provided list of new residences to Bill for him to have utilities located. Bill is keeping a list for Rusty of items that are being sent to Newton County - i.e. - gloves, caution tape, booties, orange barrier. Attempting to log onto internet to do eng report - can not get access. Reviewing UDTC DATA - FAXED request for field maps to Peter. Contacted REM

estate Agent for 532 W. First - She
said 2 sisters own the property -
Mary Beeman & Mary Lou Beachner - Ms.
Beachner is the primary point of contact -
her # is 421-5750 and address is
1730 Morgan in Parsons KS. ID shut
down @ 4:30 - plan on running 2 clean
& 2 dirty trucks tommorrow - truck
has sufficient soil stockpile for 2 - finish
backfill of 505/513 Front tommorrow. Smitty
will use 2 dirty to load out @ 500/506 W 1st.
Should complete tommorrow - has col loads
of clean dirt hauling (4 trucks @ 9 hrs each)
∴ @ 3 cycles/hr - would be 108 loads -
∴ just under 3 cycles/hr/truck. LM
for Carol T re: travel mgr. password -
Attempt to log onto internet - still not allow
access. Spoke w/ Mary Lou Beachner
re: 532 W. 1st - explained remount - it is
ok for us to sample. I will meet w/
her @ 10:00 on Wed @ the property
to walk w/ her. ET shut down @ 5:30.
Corey completed air monitoring on Smitty. Also
received previous results - only 1 sample > DL -
for Arsenic on Whitakay, < health based levels.
@ Knights - All samples w/in 50' are < 400 ppm - will sample
beyond the 50' tommorrow. ID & I left site @ 6:00

12/4/01 - IT safety mtg @ 7:00 -
3 IT trucks - Rusty gone. Bill - RM
ED - FM/Op - Huck/Dewayne - op - stockpile
& load out @ borrow Area. James/Rod - op.
w/ loaders - moving clean dirt as backfill
Smitty - exc - load out @ 500/506 W. 1st
plan on running 4 trucks - 2 clean/2
dirty. Hydroseeders are to be here
this Am. No barrier needed @ 505/513 -
only hits post exc > 400 was on the
next lot - beyond 50' perimeter - w/
shallow exc - ∴ can't place barrier - ID
will QUAL/sample 532 W. 1st, sample the
owners @ 529 W. 1st & sample beyond
the 50' perimeter on Knights property @
605 W. 1st - All samples from QUALS
w/in the 50' perimeter are less than 400 ppm
Provided DATA Alloy Cole Street - first
time - (the homes have Liberty St. addresses)
4 TDs shows up @ 7:30. Calles Brought
Henderson - meet him in Independence and
obtained access agreement - Calles Randy B
@ KDHE - LM. Met w/ hydroseeders -
2 crew w/ bobcat shows up @ 9:30 -
walked site w/ them - they will start
doing finish grade work today. They also
requested to put in seed mix some bermuda grass

indicate next Spring/summer is rent
by - Bill & I agree that was fine.
Smith completes loadout @ 500 1st -
Eis I both utilize other exc to
loadout 506 W. 1st. Receives fax from
peter w/ field sheets. Spoke w/ Becky
Brown - Bill not in today - uncertain
of when he will be back - I will
call him @ home. Spoke w/ Bill -
he may be over later this week - or
definitely next Monday - he is very
interested in results from Rodeo
Ground - I will rely to Randy B.
1 clean TD broke down @ NOON -
∴ only 1 clean running - still 2 dirt
trucks running. All samples @ knights
prompt came back below 400 ppm ∴
no removal is necessary - Also samples
@ 529 W. 1st - composite samples
were below 400 - however state sample
was >400. Results of our sampling @
532 were consistent w/ KDHE. Met
w/ Ms. Adams @ 514 - She is moving
out on Thur - ok to remove fence
on west side of house and plants
that are located in the front of
the house. Spoke w/ Peter re: clarification
of Libuy sample results - he will fax
down 635 W. 1st map - he will
also discuss w/ Randy the results
for the Rodeo Grounds. Hertz @
site for awhile to change out
filters and do general maintenance
on equipment. Daily field check on
KDHE samples - ID samples 529 W.
1st - All quadrants fine - only KDHE
hit was our sidewalk - spoke w/
homeowner - discussed results - Agreed
no removal was necessary based on
KDHE and EPA sampling. ~~One~~ the
remaining clean TD shut down @ 3:30
due to Hertz maintenance on the loadout
exc. - Smith continued to loadout 506
w/ 2 trucks - truck utilized other exc.
to start exc. @ 514 W. 1st. Eis left site
@ 4:30. Hydroseed crew gone by 4:30 -
took equip. w/ them. ID samples south
of 635 - All samples hot. Also
discussed w/ Peter 508 N. Libuy -
Agreed no removal was necessary.
Continue to review KDHE DATA. IT
shut down @ 5:30 - Smith has
3 loads to haul out of 506 in the
morning ∴ Eis plans on running 1 truck

Dirt until the 3 loads are to the repository - will use 1 clean truck - ∴ 2 TDs to report @ 7:30. ID DID post exc. screen @ 500 W. 1st - all quakes < 400, except SE corner by large tree and sidewalk - ∴ can place barrier. Met w/ Ms. Bishop @ 516 W. 2nd - went over KDHE results site avg < 400ppm - ∴ agrees no further sampling or removal is necessary. Also met w/ Mr. & Mrs. Tooe @ 524 W. 2nd - discussed KDHE results - came to same decision as Ms. Bishop - no reason to do any further sampling or removal work. LM for Mr./Mrs. Lindquist of their property @ 534 W. 2nd - informed them of the KDHE results - and no reason to do any further work - look to get back this AM of me - met w/ ID & discussed results & next steps - Left site @ 6:30

12/5/01 - IT safety mtg @ 7:00. 3 IT trucks - Bill - RM ED FM/op - Rob/James loader op - continue to backfill @ 505/513 Front, Smith - exc - loaded @ 506 W. 1st & dly @ 514 W. 1st - Huckle/Dewayne - op @ borrow area - w/ exc & D-6. 2 TDs to be here @ 730 - I will start hauling, clean - the other will load out the remainder @ 506 - then move over to clean. Based on discussions yesterday w/ Bishops & Boos - no removal necessary @ 516 and 524 W. 2nd. Met w/ Ms. Knight @ 605 W. 1st explained results to her - All samples < 400 ppm, ∴ no removal is necessary. Met at Fire Station w/ Capt. Pg. Montgomery County Bldg along Cole - All samples < 400ppm ∴ no removal is necessary - Thanked us for sampling. Drove site w/ Bill C - Hydroseeds finishes 1st block of grading yesterday - plan on having 1 truck backfilling by end of today. LM for Ken Gy: taking Gov to Fonner Park in West Plains - wet spot in stem flys yards - SW corner @ intersection of Martin/School - called Becky Brown to have H2O dept look @ - she will send them down. Eric Ely stopped

by - Appears Cont'l line from A service line - he can't get to today - but will tommorrow - Bill says that works ok w/ our schedule - if the wet is to wet for the hydroseeders they can come back to it. Smitty finishes exc @ 506 W. 1st @ 10:00. ID will switch over to clean. met w/ Mary Cov Beckhue @ 10:00 @ 532 W. 1st. ID & Bill C also present - explained removal, sampling no cost to her - walkers sit - provided her access agreement - she will read over and get back to me. She wants the fences left in place - not a problem. Will take out the small trees that are located @ the spot of the old house - Thanked her for her time. ID sampling @ 506 for post-exc samples. Both IDs running clean. met w/ homeowner @ 508 N. Liberty. Discussed results w/ her and wanted to know if she would like us to sample further - She says no - ∴ no further sampling - nor is a removal needed. Met w/ Roberts @ 420 N. Liberty - they also own 416 N. Liberty - explained ID results & removal action - left access agreements for them to read/sign. They

Photo 00 52

want both grass remediated. Met w/ Mr. Linnovich @ 534 W. 2nd - he did receive my voicemail - he agrees w/ conclusion and was happy that no further work was necessary. CM for John Kochu reg. work starting on his grds @ 515 W. First. Bill exc. NE quad of 515's stockpiles. Ordered D-4 for Fri to start scraping the large areas. Eds will run. Callers in utilities location for remainder of lots - All except those on Liberty. Will run 3 clean IDs; 1 Dirty tommorrow - Then plan on shutting down the hauling for a few days and concentrating on the exc. Only 1 cell @ 527 was contaminated - the NE corner - and the strips beyond the 50' boundary. Rusty fixed the 12/3 1900 over - looked fine. IT shut down @ 5:30. ID & I went over the days results. Left site @ 5:45

12/6/01 - IT suff mg @ 7:00 - 3 IT Trucks - will shoot for the 19th As A date to have exc. done. Bill - RM, ED - FM/op - Smith - exc - loadout @ 515/514 Front - Jones/Jacob - spreads clean material. Huck/Sengue @ borrow area w/ D-6/exc. will run 4 TDs @ 7:30 - 3 clean - 1 Dirty - plan to get backfill caught up to 506 Front. Bill is expecting feeder today. City crews out working on H2O line @ School/Martin @ 7:30 - 3 TDs hauling to borrow area - orange for dirty. Met w/ Jackie McGuire @ 400 N. Liberty - went over state results - provisions access agreement. Discusses removal - she wants clean up - ok to proceed w/ videotape/sketching/sampling. I will get access agreement from her in a couple of days. ED screens the south side of 506 W. 1st last night. All samples in front of house high - Dig up all quake immediately around house. Got wipe sample results back on XRF - All N.D. - placed w/ XRF. Got NZ10 NZ11 results back. will do grab samples @ 400 N. Liberty to define the extent of contamination around the hot samples. Hydroseeds will not show up today - but will come out on Friday and finish the grading work and hydroseed over the weekend. ED plans on starting the exc. @ 527 this AM. Met w/ Mr. & Mrs. Mangum re: property on West Martin. it is all contaminated - discusses removal - give them copy of Access Agreement - give ok to proceed w/ work. Smith completes loadout @ 515 W. 1st - ED starts exc. @ 527 W. 1st. Met w/ ~~the~~ resident @ 511 W. 1st - informs them that we would start digging later today - thanks me for the heads up - will only do front today - back over the weekend. Utility crews out marking locations - city H2O crew still working at Front/School. ED shot sts w/ XRF - very good results - correlation of XRF: 1st 11 lab samples is 94%. Met w/ Mr. Linquist - discusses removal process. Smith hit phone line @ 514 W. 1st Swisstalks - came out and repaired. Dug up rose bush for 514 - told them it might not live - that was fine w/ them - 511 W. 1st TDs dust that we remove shrub

by edge of driveway. ED continues to work @ 527 - switches 1 clean truck to haul dirty soil for EX @ 527.
∴ 2 clean / 2 dirty running in
Afternoon - went to hotel & checked out
Met w/ Mr. Thompson - he just returned from vacation - very pleased w/ progress - Bill will fly the small trees for the hydroseeders. Spoke w/ Ms. Zorn; Mr. Keeton rg. (617) 621- provided update on progress. KB said GOV request was signed, action memo amendment was on Mike's desk as of yesterday - Also gave him update for WAR. Met w/ KDHE - got 2 copies of Rosco Grounds BTA - they will provide contact for 1st. School lot. We also discussed the results Alog Liberty 2nd - They agreed w/ my decision that no removal necessary at lots w/ Avg < 400 - especially if only 1 sample came back greater 400 - They have 4 additional lots they will sample. Met w/ Mr. Off @ 404 Liberty - ok to comple hot area - State access agreement - will screen.
ED spent day working Alog Liberty. Bill and I discussed work for next few days

Took copy of KDHE report to city Hall for Bill - will meet w/ him on Monday. 500/506 BF should be complete. Met w/ Ms Hale @ 506 re: area needing gravel - informed her of progress. Smith should complete loadout @ 514, EX will be close to completing 527 loadout. Smith will start on front (north) of 509/511 - notified homeowners of schedule - Backs (south) will be exc Fri/Sat. Huck/Dewayne will continue to stockpile/loadout. Bill plans on 4 TDs tommorrow - 2 clean / 2 dirty. Hydroseeders are scheduled to arrive tommorrow - will gravel & seed own workers - plan is to complete up to 514 1st. St. Left site @ 4:45 to head home for funeral. UM for wagons @ 606 they work starting this weekend.

12/7/01 - Gone from site for funeral. TD on site for start - IT - 3 trucks. Bill - RM/FM, Eis FM/op, Smith - exc - loadout - James/IT06 - loaders work in clean - Assisting hydroseeders w/ pry. Dwayne/truck - stockpiling/loadout from borrow area. RAN 4 trucks - both clean & dirty - Backfilled @ 514 W. 1st - completed exc. @ 527 W. 1st - Began exc. @ 509 & 511 W. 1st - Backfilled A portion of 515 W. 1st. Denver Tickner was concerned about dust by borrow area, ∴ uses hydroseeders tank truck - loaded w/ H_2O and sprays down the road. D-4 Dozer previous on-site - Bill pushes up area along Martin - debris pile was placed into alley until I can talk w/ city. Hydroseeders prep yards & seeding them. IT hours 7-5:30

12/8/01 - Gone from site for funeral. TD on site for portion of day. Rod returning to site today, ∴ 4 IT trucks. Bill - RM, Eis - FM/op, Rod PBA, Dwayne on D-6 @ borrow area - Smith/truck on exc loading out material from stockpiles yards - Rod/James on loaders moving soil - Also D-4 on site - uses on Wasson property Mary Front! ~~Mary~~ First to stockpile! 3 TDs today - All hauling dirty soil - no clean hauling - exc's down @ 509/511 W. First - soil/haules from there and also from Martin - 1 TD down for awhile due to a flat tire. Exc starter @ 600 W. 1st - CI left a muscle for the Wassons on 12/6/01. Hydroseeders continuing to prep & seed areas - along Martin done and majority of N. side of First - RAN out of seed mix, ∴ will have some shipped in on Monday ∴ they will not be here on Sunday 12/9. Hydroseeders broke a fitting on the value for the water meter - they will replace. IT works 7-5:30.

12/4/01 - Sunday - IT not to start work until 9:00 - however TDS shows up early, ∴ 4 IT crew starts @ 8:00 - ED goes from site. IT - 4 trucks. Bill - JCM, ED FMOP, Rusty PSA, Hoot/Smitty - working on exc. to loadout 606W. 1st - use 4 current TDS - All hauling dirty to repository - Dewayne at borrow area coming to stockpile clean soil at the D-6. Jaws/Rod use loaders to move dirty soil - Hydro seeders not on site today - should return tommorrow - no clean hauling today. Also use D-4 to blade up contaminated soil from the open area. Started exc. @ 638W. First signs 12/3 1900. Some areas that hydroseeders hit are locations that we will place gravel - Bill plans on doing that w/in a few days. Both exc. loading out @ 606 & 638, D-4 is stockpiling/scraping & the 2 loaders are exc. the extension area of 606. met w/ Mr. Lindquist - he said the Vatmans purchased the trailer lot @ 524 Front - he said Mr. Vatman knows we would like it cleaned up as quick as possible - level area of repository is almost full - ∴ ED will work down in the morning w/ D-4. Revised draft 1900 for 12/7 - looks ok. Will plan on running 3 dirty trucks tommorrow to load out 606 & 638. IT security equipment @ 5:15 - site shut down @ 5:30 - spoke w/ ED @ 8:00 - she will likely not come down until late Mon - I said that was fine since we are only hauling dirty on Mon. clean hauling not likely to start until Wed.

Dt.

12/10/01 - IT safety mtg @ 7:00 - 4 IT trucks - Bill - PM, CS - FM/Op. Rusty - PBA, Smitty/Huck - op on small exc., Dwayne - will utilize D-6 to stockpile, Rob/Jamie - will utilize the 2 loaders to stockpile, exc. The D-4 will be used this morning to knock down the repository - then will go back to scrapy soil. 3 TDs to show up @ 7:30 - will haul dirty soil from L606 & L638 - the trucks will haul to whoever is open for loadout. Prepared fax to send to Randy Browning site sketches. Received email. Signed 12/7/01 1900. Attempted to log onto ens/travel mgr - will not allow access. Worked on poll rep #4. Hydro seeders are to show up today. Their seed was brought in @ 8:15 AM & dropped off by a carrier, faxed gas receipts to Roy C. IT got additional # for removal action. Hydro-seeders showed up @ 10:00 - All of their material had been stacked west of our office. Met w/ Mr. Williams - he purchased 524 Front from Billie Jo Bruce - he is working on cleaning up the property - he has a roll off ordered to haul the material away w/. ED still working on repository w/ D-4. Called Randy Brown & left message. Rick says Bill Crawford will not be over until Wed - AM for MA, Lou re: Access Agreement for 532 W. First St. Completed review of BTA Document - make copies of map. Spoke w/ Bill Crawford - he will come over either Wed, but then again also on Thur or Fri - I will see him on one of those 2 days. Met w/ Mangums - got Access Agreement. - Huck moves to South end of L638 to start loadout - Smitty nearing completion of L606. Views stockpile at Borrow Area - Dwayne is starting to finish off the original cells. Reviews draft 12/9 1900 - only comment was for the hotel pending costs. Spoke w/ Randy Brown - they are getting the contact name/# for 1st School - will have Peter get to me. The prop search has been completed - they are sending out notice letters to U.S. Steel & Solomon, Smith & Barney. The 3 properties they sampled last week all came back clean - Becky Blake, 334 Front & 425 Butler. They still want to sample the house located @ the

- NW corner of the former smelter property will do later this week or next.
CM w/ Alex cy: prep starter. Bill
- Off drops off Access Agreement for 404 N. Liberty. Signed 12/9 - 1900.
Completed polrp #4. KDHE calls locate Access Agreement for property @ 1st & school - they will continue looking. Emails polrp to Carol - #4. Next one will be 12/15. 606 was completed. Majority of 638 is exc. & loaded out. Bill will run 2 trucks tommorrow to haul dirt - AND start @ 635 - I inform them that we needs start tommorrow - Universe continues to make progress on removing the trailer. Hydroseeders prepping Front St today - plan on spreading tommorrow, placing seed inside our bldg. IT & TD's shut down @ 5:30.
CM for MM, Lou 5:530 again. Met w/ Roberts @ 416/420 N. Liberty - got Access Agreements - tells them we needs start work later in week. Stopped by McBride @ 400 - she was not home yet. Left site @ 6:00

12/11/01 - IT Safety Mtg @ 7:00 - 4 IT Trucks - Bill - Rd ETS - FM/Ops. Rusty - PBA - he is going back to Winona post later today. ETS will use D-4 @ 630 to scrape up area - Smith/Hook - exc - will couple loadout/exc @ 638 then move to 635. James/Rob on loaders - one will be moving dirty soil - the other will start placement of clean gravel @ residences. Dwayne will continue to stockpile soil @ the borrow area. Obtained Access Agreement from 400 N. Liberty. 2 TD's are to run dirty soil today. - started hauling @ 7:30 dirty soil from 638 w. 1st. Bill calls in utilities for N. Liberty Addresses. Started exc @ 638 - dirty site walk through. Mrs. Smith says ok to place gravel in dog pen and under play house.
Reviewed draft 12/10 1400 - looks good. Have not heard back yet from Mary Lou re: 532. Signed 12/10 1900. Drops off Access Agreement @ 536 W. Main for 1st & school - Bill orders cement for Thompson residence. Left site @ 8:30
Spoke w/ Sylvia Schaeffer @ 9:15

Page 2 of 2

- Ty. property @ 1st & School - Discussed removal - she used to work for city when they obtained the property from National Zinc - She got Access Agreement - will sign and leave w/ Becky @ city hall for me to pick up on Thur - I told her we would likely today or tomorrow. Her # is 620-336-3346
Also spoke w/ Mrs. Lou Beachner re: 532 W. First - she signs Access Agreement I will make arrangements w/ her to pick up on Thur or Friday. Told her we would start exc. her lot on Wed.
ID never made it to the site - has problem w/ credit cards - will return on Wed - says that was ok. Returned to office - got caught up on mail - spoke w/ Bill - Rock was delivered all day - will still need some more on Wed. completed loadout @ 638 First - completed exc. loadout @ 635 - ready to start on 1st/School & 532 W. First. Dewayne has Absorbate soil, ∴ Stockpiling will cease - will get rid of D-6 this week. Mayor stopped by - he will stop again either Thur. or Fri.

NB.

12/12 - In office @ 8:00 for training - IT on site - START TO return.
IT - 3 trucks - Bill, RM, ED - Fill/op.
Dewayne will labor today and assist w/ spreading of more rock - DID get rain - no hauling - only a couple of spots have H2O puddles - so we can work on those when it dries up. James is using loader to spread rock - Frank/Smitty/Rob - op - working on 1st/School & 532 W. First - should have both exc. completed today if rain does not get too heavy. Stockpiled soil was absolutely covered - looking good - will get some rock out there tomorrow for haul road - hope to start hauling clean on Fri. If not too wet, will start loadout of 1st/School & 532 on Thur - and exc. at homes along Liberty. Burning small amount of brush @ 532 - if starts getting to wet - or tracking up - Bill will shut down for the day. ID arrives @ site. Bill was informed of clean cell in SE corner of 532 - will begin D-6 tomorrow after road work is done. Spoke w/ Randy B - they will sample NW corner house on Fri or Mon. - Ty will also notify

3 residuals samples last week of sample results and that there was no problems spoke w/ Bill;
Incoming - IT shut down @ 5:00. Both 1st School & 532 W. First exc: stockpiled - no haul done today. Large amount of rain today - standing H_2O - majority of crew will be in hotel tommorrow - only work would be some minor gravel if needed - likely crew in hotel on Fri.
Also - earliest Bill believes we could haul in clean is Sun - but then a chance of rain also D-6 likely gone on Fri - just a few hours to decon - IT has almost all quad samples pulled - will pull remainder in morning - other samples drying overnight - will shoot tommorrow. She will likely head back Fri - I will discuss w/ Bill tommorrow on return.

12/13/01 - Heavy rain overnight - too wet for any work exc or loading out - ∴ no T.D's. - minimal IT crew - Bill Dawson, Huck, Smith - hauled in some rock for repository - bulldozer out bridge over creek due to H_2O backing up - becomes D-6. ID pulled remainder of samples - still letting dry out for sampling. IT crew worked 6.5 hours - remainder @ hotel. Will discuss status w/ Bill on Fri. morning. I took 10 hrs AL - called hotel and cancelled reservation.
CM for Bill Crawford.

12/14/01 - Site receives heavy rains overnight again - Rain is forecast again for SUN - Discusses options - wait it out & let it dry/drain - try to pump - but concern w/ what to do w/ H_2O - especially from contaminated cells - And fact that more rain forecast ... would not gain any grounds - A couple of IT staff are working on getting more gravel down @ the borrow area - ≈ 8 to 10 loads total being utilized to beef up haul roads for final loadout - Couple IT folks will work till noon today - then shut down for weekend - wait out rain - Dennis Holcomb will go ahead and demobe today ∴ crew starting back on Monday, the 17th will be Bill - RM, ED - FMop, Smitty/Huck - exc, James/Rob - loaders. We will need to loadout piles of dirt @ SB3 w. 12 & 1st School, and start backfilling operations - ED will need to use the D-4 to prep the repository - will likely not exc. the yards along library until after the New Year - decision will be made early next week based on progress & weather. I will plan on returning to site on Monday - based on weather. ID will leave site today - will likely not return until the following Wed - WIS training Mon/Tue - All exc. areas have been sampled - A few will require barrier - she will leave field sheets - but will take XRF w/ her - Felt her return was not needed any before next Wed. Called hotel - cancelled reservation until Mon. Pat J says my travel authorization has been approved starting 12/10.

Exhibit 52

12/15 - no site work - heavy rain
12/16 - no site work - heavy rain
12/17 - FM ED Sturgess checked out site. large amount of rain still standing - no other site work - I took AL

12/18/01 - reports to office - caught up on paperwork - fi 2nd voucher - signed 1st voucher. left office @ 13:00 to go to Dodge then to site in Gov. Arrives on-site @ 16:00. Tours site - no IT present - majority of lots fine - stockpile @ 1st & School - 532 W. 1st - All equip present - H2O still standing @ 606 & 638 W. 1st - not w/ Bill C - based on site conditions. will plan on running 2 sites if clear tommorrow - will start backfill @ 509 W 1st - then work to the west. D-6 dozer was picked up by Hertz. This will start @ 8:30. Met w/ residents @ 638 & 509 W. 1st - discuss progress - checked out repository - borrow source. Left site @ 15:45 to go to hotel.

12/19/01 - IT crew back on site - safety meeting @ 7:00 - IT - 4 trucks. Bill - Jon, Rusty - 1st, ED - FM/op - Smitty / Huck - exc/op - James / Rob - loader/op. ED will prep the repository area so trucks can dump dirty soil. Huck is going to the borrow area - will put rock bridge back in place - uncover soil to start loadout of clean trucks, Smitty will use small exc to start loading out dirty @ 1st School - will load from the Alley. James / Rob will prep 532 for loadout then Decon loaders and start spreading clean - will start @ 509 - barrier is required for cell C - SW corner of house - will run to TDs today - 4 clean / 2 dirty. Ty are to show up @ 8:30. Spoke w/ Thomas last night - she will stay in KC & catch up on paperwork. I will cover site activities - All staffing is caught up & no reason for her to be here - weather forecast is good through Sat, 12/22 - Bill believes we can have all the landfill done by Fri / early Sat. Reviewed IN field sheets for landfill. Reviewed draft 12/11 - 1900 - looks fine - left my PC in KC yesterday for repairs - motherboard down - one is big screen - can't do polaps @ this time. Singers final 12/11 - 1900. TDs started @ 8:30 & CM for Alex 19. letter to city by repository w/ interviews. Records Center w/ AR - Alex looking @ - ok - & ready to go. LM for Delivery Young reg. AD in newspaper for AR. picked up access agreement for 1st School @ City Hall - Bill Crawford will be here tommorrow afternoon. Smitty completes loadout @ 1st School by 11:15 - moves to 532 W. 1st AND starts loadout. Backfilling w/ clean 509, 511, & 527 W. First Aid 606 W. 1st - TDs are dumping where directed by operators. Smitty & Huck work through lunch on exc. to continue loadout of dirty & clean soil, placed 3 rolls of barrier down @ 606 W. 1st. Bill will plan on running to TDs after tomorrow - start off w/ 4 clean / 2 dirty - then switch over to clean as loadout is finished. Rusty will go back to Wichita Post tommorrow. Becky said Bill Crawford would be in tommorrow. Reviewed draft 1900 for 12/14 - will need couple

minor changes, revises 1900 looks fine. Left site @ 8:00 to WTD to KC - Arrives @ Dodge @ 5:30.

12/20/01 - I starts morng in KC - Dentist appt - 4 hrs S.C. Arrives on-site @ ~16:00. IT - 3 trucks, Bill - RM, Eis - 1=Mlop, 1 truck - exc. @ loadout for borrow area, Smith, exc loadout of dirt @ 532 W. 1st - then moves to 524 Front - exc area when moves forms out trailer - then to corner of 635 W. First to complete loadout there. RVS/James - on loadout removing clean soil - hydroseeds not present today - Backfill @ 606, 638, & 635 W. 1st. Dust is not a problem - uses 6 TDs - 1 Dirt, 5 clean. Bill Crawford stopped by - but I was not present, I will call him later. Also a couple of people from KDHE stopped by to visit - Bill did not get there names. IT shut down @ 5:30 - I reviews 1900 for 12/19 - needs a couple of revisions - signs the 12/19 1900. Left site @ 5:45.

Left 8:00 5:2

12/21/01 - IT safety mtg @ 7:00.
3 IT trucks Bill - RM, EBFM/Op.
Smitty - Op - exc/D-4 - will start by
cleaning/straightening up ditches then
moving clean soil in open areas - Huck -
exc @ borrow area - At end of day
will remove gravel bridge - so H2O
will drain completely - The city may
provide a culvert for us to put
in so the road can be left in place.
RB/James will use the loader to
spread clean and get spoils prepared
for hydroseeding - they are to be here
today. Will run 5 trucks start
@ 8:00 - All clean. Working on
payroll - forms Rec'd of 2 changes
for 12/19 - 1400 that were received -
he will fax our changes. Attempt
to connect to internet to email payrol.
Called DNR to LM for his rep. site
status/how DMA is correlating
revisions/revises 12/19-1900 - looks good -
LM for Rusty. Bill ordered gravel.
Hydroseeders not here @ 10:00 - but still
planning on showing up today. Spoke w/
Randy Brown re: update of site - they
sampled house @ the NW corner
of the W.ZN property on Tue, 12/18 -
no contamination present. They also
sampled the house @ the SW
corner of the NZN site - along
Martin - on the N. side - there is
some contamination >400 present along
the east side of the house - near
the ditch which is on the NZN
property. LM for Mary Lou Cyr:
Access Agreement for 532 W. 1st.
LM for Bill Crawford. City Admin. re:
punch list of items. Spoke w/ Beck,
@ City Hall - gave her an update on
site status and condition of
house @ 511 w/ cats - she will
advise animal control. Spoke w/
Mrs. Lindquist reg. her property @ 511
W. First - Asked if she would like
gravel down in area back to garage -
she states yes. 4 loads of gravel
delivered today - 520 Front-1, 2-509
W. First - 1 @ 511 W. First. Huck out
of dirt @ 13:00 - TD's told to
clean their legs & go home - Huck will
stockpile soil for after break. Met w/
James Gann who lives on Martin St -
@ west edge of site - told him the state

Staples and has some contamination - discusses the removal of him - left Access Agreement - I will meet w/ him again after break. ES & Bill replacing wire @ 821 Front. Hydroseeder arrives around noon - places supplies in bldg - then moves south to 527 W. 1st. Starts grading work - plan on working over weekend as long as weather is nice. Hook created stockpile @ Sorrow area - covered w/ plastic - he also removed the rock from creek - so it will get plenty of drainage. All equip departed @ end of day. ES has list of items to complete over next couple of days while hydroseeder are here. Met w/ Kathy Hale re: removal op for sub - Hydroseeder shutters at gate meter @ 406 W. First - wagons residents immediately called ICGE - also advised homeowners - ICGE arrives - will remove meter - patch line - then next week place meter (new) up against house - not out in the middle of the yard. It will settle bill - but will pass on to sub. emailed policy #5 to office. Got lat data - informed Ingrid. Signed 12/19 1400.

met w/ Mr. Mangum - explained we would not start backfill his property until after break. He said that was fine. Met w/ All Families Day Living - informed them that we would not begin any exc. activities until after the new year. Spoke w/ Ingrid. Shut down @ 16:30

12/22/01 - no START - only IT will be ED Sturgis - EM/O,S - All other Demobbed. ED will stay on-site w/ the hydroseeding sub to ensure work is completed adequately - he Also has a punch list of items to complete - will likely work on polsp for this last week. We plan on remobbing to site on 1/2/02, w/ work starting on 1/3/02. - weather dependent - Bill will return as RM, w/ Huck, Smith & Whittenburg as op. the pwr exc will go to Newton County, getting caught up on rwils - still can not access, talent EM to cont Johnson Eq: ethics firm - cant complete environ polsp #10 to Debbie. LM for John T, Eq, Acrimps for N.Zo & Ron K Eq. travel. Hydroseed currently has 2 workers on site - using bobcat to grade areas - Another piece of equipment and additional crew is to arrive @ Noon to assist w/ final grade. Seed truck is also to arrive this afternoon - 1st thing is to spray down dirty streets. ED said it is not to windy to seed. ED placed gravel @ 511 W. First - gravel has to many fines, ∴ dusty - will mention to quarry not so many fines when we return - BD will H2O it down w/ seed truck - they have sufficient gravel until we return. Also placed some gravel @ 506 W. 1st Gravel looks real good @ 509. 606 W. First has new gas meter - placed in same location as one hit by the hydroseeder. ED's list of items includes: the clothes line pole @ 634 Front, repair of ditches, clean streets, knock down piles @ repository - fill in low spots for hydroseeder, repair fence @ 606 W. 1st. repair of Mr. Tulls ditch for better drainage. work left after break:

exc - 400, 404, 416, 420 Liberty, w/ Martin & Rodeo grounds

Backfill - 532 1st, 1st & School, 638 W. 1st - North end, Mangum & 524 Front

Left site @ 11:10 for break.

1/2/02 Left Dodge @ 13:00 for Chanyenne - site activities shut down between 12/23/01 and 1/2/02 except for hydroseeding. Drove around site @ 16:00 - All grass hydroseeded except for 509 W. First - and 3 areas that still require some backfill. The trailer was removed from 521 Front - for Backfill. Gravel still needed @ 511 & 506 W. First. Spoke w/ Bill C - IT moving back to site - Indian also returning to site w/ XRF on 1/3/02. Randy Brown left message re house @ west end of Main. They have field sheets to send down. Receiving Beacher Access Agreement in mail @ office. 509 was not hydroseeded because they need more soil in yard. Some soil was placed in Tull ditch - will need more work done - the clothes line pole @ 634 still needs repair - does not appear the struts are sprayed down. Some of the ditch work was done - the majority of the repositing was leveled out. The hydro seeder did not clean the sidewalks off - will mention these items to Bill. DB.

1/3/02 - IT on site @ 7:00 for staff mtg - 2 IT trucks - All equip was still secure. Bill - PAN, Huck-op-on exc @ borrow area - the city has still not dropped off any cement yet - ∴ will just place gravel back in - Huck will start a new cell for clean soil. Smith - exc - will start digging @ 400 N. Liberty - Whitesburg - op - will use loader to help move dirty soil - also do other jobs as needed. I went and met w/ Jackie McBride @ 400 N. Liberty - informed her we would start on her yard today. Rudy will arrive in site tommorrow as PISA. TD to show up @ 8:30 - Pam Emmert called - The truck side down enroute - ∴ another one on way - but may be a little late. Bill said we may not be able to sweep off the sidewalks w/ the hydroseed - will have to look @. Sent to Smith @ 400 N. Liberty - walked yard - will stockpile soil in the back - hold out off of cycle. TD showed up on site - went over Dry-lab/XRF correlation is @ 93%. TD showed up @ 8:40 - one - will start

hauling clean - will place in location of former trailer @ 624 once Ingris XRF's it. Calls Peter Hartung @ KDHE - will fax down field sheets for house @ west end of Martin. Went through emails - still could not log onto internet. ID Sampler 624 Front - All samples < 400 @ location of former trailer - ∴ no barrier needed - starts putting in clean soil - ID then samples cells A & B of 400 N. Citing - east side of house - cell A was high - but @ location w/ large tree roots - ∴ can't dig deeper or place barrier. cell B has 1 sample high - will exc. more material and then resample. Previous fax from peter - calls him and discusses results. Went to city hall and met w/ Bill Crawford - City Admin. Rick Wilbourne - councilman - also shows up for a portion of the meeting. Obtains access agreement for Rodeo Grounds - contact person re: the cattle is Harold Riley. Also discusses our results - and provides a map - of sampling zone N. of Martin - west of the filter plant. Some asphalt work will need to be done @ end of job.

- Agrees Eric Ely and I will walk around the city street and agree w/ in the area requiring repair. They would like the rock bridge left in the borrow area - they will try to provide a pipe to be placed in there. They also want the rock roads @ the repository & borrow areas left in place. They are not concerned about fine grade at borrow area, other than not holding water - which I says we are also concerned about - we will just place a fescue/rye mixture down @ the borrow area, they will be happy w/ that. Also discusses maintenance of repository cover - they can do minor work - I will plan on sending them a letter @ the end of the project. Met w/ Mr Valverde @ his sons trailer - concerned about a couple of low spots. We will bring in more dirt. Cheryl Blackburn calls - spoke w/ her husband - they wanted to make sure they were getting more dirt before seeding - and I stated yes. Also spoke w/ Mrs. Wagoner re: her fence - told her we would have it up by the end of the day. Bill and I

want & works on - replaced fence - put in more & longer screws than originally present - replaced 2 gate panels - started to dig hole to replace concrete for stake in gate - ground frozen - spoke w/ Wagoner son - agrees that we would just pour some new concrete for the gate - will do at the same time that we concrete the clothes line post @ 634 Front. Clean stockpiles dirt was spread out @ Marquis property w/ D4. Also the remaining piles @ the repository were knocked down. All of 400 & 404 N. Liberty were exc. Backfilled 404 because of Mr. Offs concern w/ an open hole - some of 400 was backfilled. Smitty uses exc. to start @ 416 N. Liberty. Met w/ Mr Roberts - ok to remove old brick sidewalk in back and brick debris on ground. Carl Hale called - has 3 concerns - 1) Gravel in ditch @ NW corner - 2) Add'l. soil @ SE corner of trailer & 3) Shed damaged by hydroseeders. Met w/ Mr. Hale - said we would remove gravel towards end of project - small

tasks like that done @ the end - we will place more soil @ SE corner of trailer & seed and that the shed was damaged & we will repair - will place back on block foundation - and replace the 2 - 1"x3" corner strips. Told him to let me know if anything else. Met w/ Mr. Gann @ 5399 Co. Rd. 5050 - shows him KDHE data - he gave me the signed Access Agreement - has Bill call in the utilities - we will locate KDHE sample points then screen both post-exc. screening @ 400 & 404 N. Liberty & 400 - ∴ no barrier needed. Met w/ Jackie McBride @ 400 N. Liberty - shows him the small piece of concrete broken ok to remove & replace w/ soil - no need to replace concrete - I will talk w/ City on Mon. re: this matter - she would like gravel sidewalk from house to shed - and gravel in drive area that we tracked through. Went to Lindquist house - not @ home - left site @ 6:15

KS.

Aug 2 2005

1/4/02 - IT safety mtg @ 7:10 - 2 IT Trucks - Rusty to show up later today. Bill - RM, Smitty - op - exc - will dig @ 416 N. Liberty. Mick - op - exc - will dig @ Sorrow Acres: loads out clean fill w/ 1 truck. James - op - loader - will jump between to spreading gravel and spreading clean soil. TD on site for start. Will run 2 TDs starting @ 8:00 - 1 clean 1 dirty. Met w/ Mr. Roberts - owner of 416/420 N. Liberty - he was very thankful that we were cleaning the yards - he will move the items in his back yard and stack them out of the way. Moment minutes calls - the 2 trucks won't be here until 11:00 w/ gravel. Bill called Emmert - ordered 2 more trucks for hauling clean fill - since chance of rain tommorow should be here around 11:00, ∴ should be able to have stockpiles clean soil brought over. Met w/ Mrs Lindquist - says her husband thought more gravel & soil was needed @ a couple of places - she wasn't sure of locations ∴ asked me to have him stop by this afternoon so we could discuss. Harold Reilly leaves

2:50 pm

cattle @ the rodeo grounds - #336 - 2600 - gave him a heads up that we would be sampling in there in the next day or two. - his cattle are all located to the east. 1 rock truck shows up @ 12:45 - places @ 520 Front. 2 additional Emmert trucks shows up @ 12:45 - started hauling clean. Smitty completed back yard @ 416 N. Liberty - TD samples - hits > 400 - in areas that could be exc. Deeper - he dug more out - resampled - still > 400 - but level are less than before - ∴ calls it good. Exc. will not be deep enough for barrier. TD cleans bed - starts hauling clean, ∴ all 4 trucks running clean dirt in afternoon. 2 Gravel trucks ran during afternoon - rock deliveries to 400 N. Liberty, 520/526 Front, 618 Front, 506 W. 1st, 511 W. First. Met w/ Mr. Lindquist discussed his properties - need for some more gravel & soil leveling. Mr. Denver Tickner complained about the dust along County Road 5050 - drives are going slow enough - just to dry

∴ reroutes drivers to go South to main St. - then heads east to the site - And continue driving slow. checked on availability of H_2O trucks - will get from Hertz in Tulsa - ~~also~~ mobe charge ~~at~~ $800/week rental - should only need for a week. The back yard of 416 N. Liberty was backfilled, the majority of magnums is filled. will plan on running 1 dirt truck tommorrow, & clean - due to 60% chance of rain. will finish spraying rock, & exc. front @ 416 N. Liberty. ID & I located ICDH8 sample point @ Rodeo Ground - Sampled around area found small area of contamination. Also identified area of slag etc - Sampled in ditch @ N end of Rodeo Grounds - All Pb levels ok - will plan on exc. small area around ICDH8 #10 & investigate the slag. ID sketched property of Mr Gaines - will sample tommorrow. left site @ 6:00

1/5/02 - IT on site @ 7:00 - 3 trucks - Rusty arriving late yesterday. Bill - PM, Smitty - op - exc yard @ 416 N. Liberty. Huck - op - loader - moving soil for Smitty. James - op - loader - will place gravel in driveways that was dropped off yesterday. Site covered in snow - more forecast for today - 1 TD showed up @ 7:30 - will load out dirty soil to repository - no clean soil hauling - H_2O truck is to arrive today. Rusty - PBA - he will go and purchase supplies - then get caught up on IGOO's. ID on site for start. Exc. will be slow @ 416 N. Liberty in front due to the small area to work in, trees, sidewalk - Roberts gave permission to remove brick walking around the front and side of house. They also cut the old phone line on the N. side of the house that ran between 416 & 420. One exc is to be sent back to Hertz today when the H_2O truck arrives. Smitty nearing completion of the front yard @ 416 N. Liberty @ 11:30 - no damage to concrete or brick sidewalks. Completed exc @ front of 416 N. Liberty -

starts exc. o front of 420 N. Liberty. TD starts front of 416. South side was still high, but could dig no deeper. ∴ plans orange barrier. Hertz arrives w/ H_2O truck - took one exc back w/ them. Front of 420 N. Liberty was done - TD dumps last load o clean bed - gone by 5:00. Moves exc. to back of 420 N. Liberty. Starts exc that area. Whit completes spraying of rock. Huck/Whit spent some time in afternoon on maint. - clothes post o C034 Front - fence/gate e side w. First. put together pdrep #7. Emailed to Debbie Adams @ the ends of the day. IT shut down/secures equipment @ 5:30. Did not use exc or dozer today.

1/6/02 - IT on site @ 7:00 - 3 IT trucks Bill - RM, Rusty - PBA, Smith - exc - will dig remainder of 420 N. Liberty. Huck will use exc. to stockpile soil @ the borrow area. Sams will use loader to load out dirty soil from 420 N. Liberty - area to small to use exc to do loadout. ∴ will not use 1 loader or the dozer today. 1 TD to show up @ 10:00 reviewing draft 1400 for 12/20, 12/21 - couple changes needed. Signs final. Smith completes exc. @ 420. - Whit will continue to load out dirty. Smith cleans exc. and moves to 5319 Co. Rd. 5050 - I met w/ Mr. Brown. I explained we could exc. the small area to the east of the house - we did not get levels > 400 ppm on the N side of the house - were IDHE had a hit of 393 ppm - w/ duplicate of 457 ppm - we screened in-situ and pulled a 9 aliquot sample - all < 400 ppm. This was sample #6 of IDHE - We did the same to the east - IDHE sample #1 - and had hits > 400 ppm. Smith has all area exc. other than location of

stockpile by noon. I informed Mr. GANN that we could either replace w/ gravel or grass seed - he will let me know what he decides. Huck is opening a new cell to the North @ the borrow area -.'. will have 2 stockpiles ready for loadout tommorrow. Completed loadout @ 420 N. Liberty. ID pulled samples from 420 N. Liberty. Smitty started loadout @ 5399 C.Rd 5050. The D-4 was started after lunch. Whit will use to level off the soil along W. Martin - Mr. Mignuns property. Called Mr. Rielly - let him know that we would be exc. in the rodeo grounds today - told him there was no reason to turn off the power to the fence - we will be cautious. Exc. loadout completed @ 5399 C.Rd 5050. Mr. GANN inspected he wants area replaced w/ rock. Smitty cleans exc. - moves to rodeo grounds - identifies 40' x 40' area of contamination - started exc.: Direct loadout w/ 1 driver. Reviewed 12/24 1900 - draft - Covered 12/22 demob & 12/23 - Stuart is overseeing the hydroseed.

- looks fine - no comments. Signed final 12/24 1900. Exc. of the 40' x 40' area was complete. ID samples in-situ - All results ok - ∴ no barrier needed. ID also sampled exc. area @ 5399 C.R. 5050. All results < 400, ∴ no barrier needed. Will plan on running 4 clean trucks tommorrow, 1 rock truck - TDI to be here @ 7:30. Will H2O roads down pit. IT shut down @ 6:30. ID: I samples 4 locations along the slag area @ the rodeo grounds. Samples @ 4'-6" high, samples @ 1' ok. ∴ decided to exc the slag and haul to the repository. ID will measure off the area tommorrow. Left site @ 6:35

1/7/02 - Mon - IT safety mtg @ 7:00. 3 IT trucks on site - Bill-KM, Rudy-PBA, Hack - exc @ borrow area - will start w/ 4 trucks @ 7:30 - All clean. Smith - loader - moving clean soil @ N. Liberty. Whitt will spray roads w/ H_2O truck first thing - then will get ready for rock. IT on site for start. Placed barrier @ 420 N. Liberty - in rear - between pool & house. 4 TD's started @ 7:30 - Whitt and I loaded H_2O truck - drove out to repository - pump was frozen - covered w/ plastic - Rudy went to get a turbo heater @ 8:30 - Bill C called Hertz. Truck arrived here Sat afternoon 1/5/02 - we did nothing to it until this AM when we filled it up. Will need to work out contact w/ Hertz - rental not start until today - thy pg for turbo heater - will discuss w/ Bill. While using D-4 to move clean dirt @ Magnum lot. Dirt is wet so using small exc. to scrape berms. Rudy delivered turbo heater @ 9:30 for H_2O truck - covered w/ tarp and heating. Started placement of soil @ N. ends of 638 Front @ ~ 10:30. Utilities 2½ loads of rock @ Mr. Carns property - he was very pleased w/ results. The remaining ½ load was placed @ 630 Front. That is all the rock we will have delivered today so we can stay up w/ the soil. One of the loaders is acting up - Bill called Hertz to come out and look @ today spoke w/ Ed Clements re: Lexington #2. - Also spoke w/ Don H - he sent over the info on AID by fax. Started hitting the roads w/ H_2O @ ~ 12:00 - finished all the gravel till ~ 14:00. - used 4 loads of H_2O - 2000 gallon truck. Met w/ Mr. Thompson - he was glad we are watering roads - he would like a little berm left w/ him when we are done w/ the job - told him that would not be a problem. The N. ends of C638 Front W. First cut filled in @ ~ 14:00. Trucks started delivering soil to 1st School & 532 W. Firsts. Met w/ Eric Ely from City - discussed culvert @ bridge - he will bring out some culverts and leave @ the borrow area for us to use.

Hfim and I will meet at the end of the project to walk through the area to identify areas of asphalt that needs patching. Also showed him the broken window in filtrplant - we did not break, but patched it. Also asked if we could fill in the old 420 meter @ 400 N. Liberty - he said that was ok to fill in. Smitty completed front of 420 N. Liberty, & moved to 532 and started filling in around 16:00. The majority of 1st school was filled in, and a good start was made on 532 W. 1st. Attempted to contact the Rodeo grounds (ages - neither answered. LM for Belinda earlier today re: newspaper to place ad - Amy from Records center was earlier sent the AR to the library - Belinda put together the PN, & was working w/ Trite to get the ad placed. TD: It shut down @ 5:30. Secured all equip. will run 3 TDs tomorrow hauling clean soil into exc. areas. Spoke w/ Josie Cushenberry re: Rodeo grounds - told her about removing fence, exc & restoration - she will come up w/ a "native mix" for reseeding.

1/8/02 - Tue - IT safety mtg. @ 7:10 - 3 IT trucks - Bill - RM, Rusty - PBA, 1 truck - exc. @ borrow area - will run 3 trucks hauling clean @ 7:30. Smitty on loader backfilling back of 420 N. Liberty. Whit will use loader & ~~exc~~ dozer to spread clean @ 532 W. First. No rock is scheduled for today. Whit received a small cut on forehead when he opened the toolbox on his truck - Bill notified Greg Rakins - no stitches - just placed bandaid on forehead - he was ok. Reviewed draft 1400 for 1/2, 1/3, & 1/4 - looked fine - no comments. Reviewed emails - netscape is still not working - got email for 1st voucher - not the same amount as voucher - called Pat J - she will check into. Josh w/ the help desk. Called Josh @ help desk - said we can't use netscape from fields - only lotus notes - have to use conversend for internet access. Signed off on 1400's for 1/4 & 1/7 - up to date. Whit watered roads this am for dust control. Hauling clean soil to 532 W. First. Smitty completed 420 N. Liberty - moved to 532 W. 1st to assist. Bill hit roads w/ H2O around noon. Shortly after 14:00 - Huck called

over radio that one of our TDs hit a car @ Hwy 169 - Blue 4 door - Grand Am - or similar type car - Bill & I drove to scene - local police - firefoms, county & sheriff on-scene - 2 individuals in car - hit rear ~~passenger~~ driver side - against front passenger side of Dump truck - our driver was crossing 169 - he was ok - other 2 individuals were taken to hospital by Ambulance. Shut other 2 TDs down - brought truck back over to help Smitty & whitt prep yards for hydroseeding. Are to be here on Thur. 7/10. - done hauling clean by 15:00 - still have 532 & Rodeo grounds to backfill - plus filling in low spots @ various areas. Met w/ Mr. Walwise - he wants likemore soil placed into his yard. LM for Antoinette re: Ar. cables. LM for Ken B & Alex re: truck accident. FT shutting down @ 5:30 - plan on running 3 clean trucks tommorrow - finish backout @ 532 W First Ave & spot dump soil. Left site @ 5:40

1/9/02 - Wed. - FT safety mtg @ 7:00. 3 FT trucks - Bill AM, Rodg - PM - he will do yesterdays 1900 - then heads to Winona post - will plan on returning on 1/12 - Sat. Hock - exc. will load 3 clean trucks @ borrow area. - Smitty - loader - will complete backfill @ 532 W. First - then backfill @ the 40'x40' area @ the rodeo grounds. Whitt - op - will hit the reeds w/ H_2O this AM, then use loader to fill in low spots at various areas. TDs on site for start. 3 TDs showed up @ 7:30 to start hauling clean. Fretz was here ~8:00 to work on one of the loaders. Smitty used D-4 to move dirt @ 532 W. First. Completed work @ 532 W. First - moved D-4 & mini-exc to Rodeo Grounds - began backfilling 40'x40' area - completed @ ~12:00. moved exc. to slag/cinder area. Bill & I removed fences earlier in the morning. TDs took 1 hr. for lunch. Smitty moved D-4 to repository to prep for slag. Whitt used loader to scrape Maple St. - will then spray it down. - looks good when done. FT sampling @ Rodeo grounds - found

high levels of surficial soil contamination - Majority well above 1000 ppm - was a hit of 14,000 ppm. Lodes our area would like to process w/ removal in area - called Ken B - faxed map to him - In - large area is contaminated. Drove site w/ Bill C - discussed area for rock work tommorrow - will mainly focus on maintenance/ditch & rock tommorrow. No hauling tommorrow w/ TDs. Spoke w/ KB - Rodeo Grounds is zoned residential based on discussion w/ city - waiting to be developed by grant for low income housing - once state gives them a letter that it is clean. I would like to process cleaning area during removal - Action memo says we will address residential - which this is - have sufficient dollars to do work - lean areas - best to process since residential - discuss w/ Alex - will evaluate needs to amend Action memo. IT off site @ 5:30 - TDs shut down by 5:00 - ID & I discussed sampling options - Erik Ely w/ city ok's tally down metal bldg. @ the repository area that is in our way. We did not use one of the Takechi Rodeo Grounds - it was worked on early in the day by Hatz - then we did not use. CM for Alex Chen. Also Dan Harris re survey work. Spoke w/ Bill Crawford @ home - discussed Rodeo Grounds - he says they have plenty of documentation re: the grants & building of houses in the area - he will be here tommorrow - but I am going back to KC - will likely meet up w/ him on Monday. Attempts to call the Cushenberry - no answer - Left site @ 6:50. Faxed OT/CT form to Ken B.

1/10/02 - Thu - FT safety mtg @ 7:00.
2 FT Trucks - Bill - RM, Huck - will
decon large exc - straighten up borrow
area. More trees that were cut down
to woods - and remove rock bridge -
large exc will be demobed today.
Smith & Whitt will be using the 2
loaders & mini-exc to straighten up
the ditches - rock is coming this am -
Bill and I walked area yesterday
and identified locations. The mini-
exc & one loader will also be decoming
and demobbed - will keep one loader
on-site. will also keep H2O truck
to keep DUST DOWN. Engrs will
get legal description of area & purchase
large stake today - will start gridding
off in 100' x 100' cells and sampling -
FT will be shut down likely tomorrow
(FRIDAY) through next Tue - Allow FT
adequate time to get out into areas
start sampling/screening. Evaluating
different ways to use Brian's 2
exc w/ dirty buckets for next Tue -
then evaluating whether to use Emmert
as sub for hauling - 4 trucks/day x
10 hr days is ≈$2000/day. Appears
more cost effective to rent 3 off
road dump trucks for ≈$7000 each
per month - and utilize 3 FT
TDs - DESA ST rate is $34/hr, &
DESA OT rate is $45/hr. Figuring in
fuel & mob/demob - it would be
quicker and cheaper to utilize FT
TDs - (3) - w/ 3 off road trucks
for rental - may only go w/ 2
off road trucks to start off w/ -
then evaluate if the exc. are
sitting for too long - if they are -
then ~~geo~~ would bring in a 3rd truck.
Met w/ Harold Riley - explained work
that we would be doing out in the
Rodeo grounds - he was not surprised
that the area was contaminated -
glad to see that it was cleaned up.
left site @ 9:45 to check out of
hotel - Grandel was being delivered and
workers in by Whitt - Huck finishes
straightening up the borrow area,
rock bridge was removed - he is
deconning bucket - will keep ICORELCO
and switch it to a ditch bucket -
Hertz will haul to site when they
bring in other equip - likely on Monday.

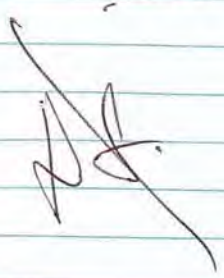
After Chen calles - based on fact that LAMS is residential - no need to change action memo - .. we are goods to go. Left Fr Dep. @ 10:30. LM for Randy Brown @ RDHE - he calles back - gave him an update - he will fax letter he sent to Bill Crawford - Arriv w/ Dodge @ 12:00 - gave book to Greg for the Durange - left Dodge @ 13:20. Spoke w/ Bill: ID in eve. Mini-exc; 1 loader - decons and ready for demob - Rock was placed as requir - except @ 420 N. Liberty - will do after hydroseeds are done - Rock @ 416 N. Liberty was left in a pile for after the hydroseeds are completed. Ditches clean up, slow @ Mr. Hales works on. ID purchases stakes & starting grid off rodeo grounds in 100' x 100' cells @ the NW corner. IT completes work, ∴ will shut down until Wed - 1/16/02.

1/11/02 - Fri - ID only one on site - laying out grid & sampling - Bill ordering equip. - Agrees to allow use of 2 IT all-terrain dumps - will be moved in @ cost of ≈ $1000 each. Dave Brinkmyer sending letter to Marie Noel. Daily rate per truck is $321.00 - which includes fuel. Rental units were $7000 to $9000/month - and that only includes 44 hrs usage/week - huge charge on overhours. ∴ definetly most cost efficitive to use IT trucks. (No IT onsite work 1/11, 12, 13, 14, 15).

1/14 - went to office - paperwork - ID did not go back to site - calls: cancelled hotel. Arranged for Dan & Don H to visit site next week - 1/22 to survey. Hertz delivered exc, moved exc from borrow area - Ant demobed 1 loader & the mini-exc. Bill calles that the Hertz deliv man said grass fire near site. - I calles city & Fire Dept - confirmed grass fire - unk cause N of where we are working - N of R12 tracks & W of old 149 Hwy - site equip not in danger - fire under control. Will return to site tommorrow.

1/15/02 - Reports to Dodge to get Dumpster - left KC for Chanute. Did drive by N of site where fire occurred - Did not get close to our equip or work area. Site in good condition - H2O truck, fuel tank, D-4 loader & 2 Kobelco exc on site - one does not have the ditch bucket - but was requested - All equip secure - gravel placement looks good. 3 Emment trucks remain on-site. Spoke w/ propl owner @ 509 W. First - gave status high on status. Borrow area was fine - city has not delineated the culvert yet. TD has stakes staked along N & W fence of Rodeo Ground - gas pipeline was marked w/ flags. Office was secure. Called Landa @ RTP re: travel voucher - She will check into. TD called - enroute New Tulsa w/ All-terrain Dump - provided him directions to area. TD showed up after 3:00 - I began staking more cells - She staked sampling Add'l cells to the east - Northern most row - temp cells 5-9 contaminated, T10,11,12,13 - NW corner was fine. Volvo truck showed up @ 5:00 - unloaded parts in Rodeo Ground - I signed paperwork - Emment showed up w/ TD's to get trucks - Also had paperwork

for Bill C - I left on his desk w/ the paperwork for the Volvo truck - I removed keys from the Volvo & the new Kobelco - left on Bill's desk - Emment & truck driver left after 6:00. - he is to return tomorrow AM w/ the other truck. Spoke w/ Jonie Cockburn re: the removal action - informed her of plane to crib off propl in 100'x100' cells - sample - Alvis exc. Area > 400ppm - may proceed to houses to south if it appears contamination continues that way. They want to get their livestock back in there this spring - She has come up w/ a native mix to re-establish the area - I will get from her in the near future. CM for Kris Marie re: Fuels - left site @ 6:30 to go wash vehicle, fuel & check in.



1/16/02 - Wed - IT safety mg: briefy
@ 7:00 - 3 IT Trucks on-site -
Bill - PM, Rusty - PBA - he will be
heading back to Wiona Post until Fri
or Sat. Hack/Smitty - operators on
the 2 Kobelco exc. New man on
site - Barry - him & Whitt will be
TD's in the All terrain units -
will hit roads w/ H2O for dust
control - set up signs along roads
by men working - will move portajohns
out to Rodeo grounds. explained grid
layout and where we will start work.
will use D-4 to lay out roads for
the trucks to get to repository. The
finish grade for pollock is to be here
today to work on yards. ID - Miss -
she will be getting paint for stalls this
AM. Whitt operates roads - uses D-4
to put in roads to repository - removes
all debris out of way for fires - should
be no damage - took out bldg that
was located on the west side of the
repository - Eric w/ City gave okay while
back - was a pit under the floor -
we filled in - stockpiles debris on
the south side of repository. Smitty
starting using new exc w/ smooth bucket
on NW most contaminated cell - times
load cycle - appears even exc. could
use 2 trucks - Bill is looking -
Hertz has not been up by 10:00 to
put on blade on bucket - Bill calls - can't
get here until tomorrow - ∴ won't be
charges for exc today since not
using effectively - 2nd Volvo truck
not on-site by 10:00 - Asks Bill
to call on status - finish grade
shows up for hydroseed - begin a
lot on N-side of 638 w. 1st. ID
saying more cells to the west.
Rusty leaves to Wiona Post - should
be back late Fri or Sat. Times load out
of truck - haul time to repository. ~4
minutes to initial load - 5 min haul time
& return - ∴ adequate time for another
truck - exc. sitting to much - discusses
w/ Bill options - he will see what is available.
IT has 2 more trucks - can free up after
decomm - can have here either Thur or
Fri - drivers are also available. one truck
is a 35 ton - not a 30 - ∴ mobe will
be a little higher and so will the daily
rate - $45.00 more - Dave B will bring a

letter to Mark Noel re: the new piece of equipment. Met w/ Mr Thompson re: work - he is pleased w/ the progress. Went to Radio Shack in Indep to check on survey equipment to assist w/ grid layout - they was none. Then went to Cingular wireless - paid cash for a new belt clip - the other one broke on-site. Obtains receipt for reimbursement. 2nd Volvo truck arrives @ 3:00 - unloaded from trailer and starts hauling soil to repository. Bill says works good he charges for 1/2 more are to arrive Thur eve - ready for work Fri. morning. - Has Smitty exc the 1st cistern encountered in cell T-7 - went > 6' and bottom not yet removed - decides that when we encounter - we will remove to a couple of feet and make sure they are filled in. Went to city Hall - obtains copy of letter from Sitec-Cap, inc, re: the development of houses on Rosedale Grounds property. FT Shut Down @ 5:30. 2 1/2 cells exc. - The 2 complete cells - T9 & T8 - post exc samples are all fine. Hertz to be here first thing tomorrow morning. Left site @ 6:05

1/17/02 Thur - IT safety mtg @ 7:00 - 2 IT trucks - Bill - PM. Smitty/Huck - op - both using kobelco exc to remove soil from contaminated cells. Barry/White - TSS both driving Volvo trucks hauling dirt soil to repository. It shown up - Mibrut XRF - will continue to screen the cells in the 3rd row south of the N. fence. Asked Bill c to have Hertz use D-4 @ repository - not getting anything w/ dozer handling the material. Hertz not likely to be here until after 9:00 to relocate blade to bucket. Met w/ Eric Ely - asked if the city could mow the Rosedale grounds - would help us w/ the survey & exc. He said that they can - likely early next week - because they do not have a closed cab on their tractor they use for brushhogging - it is expected to be warmer early next week. Exc of cell T-7 was completed - Started exc of T-24 (clean cells are T11, 10, 12, 13, 22, 23, 14, 15 & 34) - these will be renumbered once survey w/ Dan it is completed. Hertz arrives on-site @ 10:00. Attempts to do ers - passwords not working. Spoke w/ Dan it - he: Don

will arrive on next Tue to do
survey work. I will make hotel
arrangements @ Microtel - write
w/ confirmation # 10540 for both.
Hepta welded plate - off-site @ 11:00.
TD sampling 3rd row of cells - placing
soil in pie pans - will allow to dry
in office - then shoot w/ XRF. Hydroseeders
showed up around 10:30 - began
working along N. Liberty. Asked Bill
to ensure that we could get parts/
tires for the Volvo trucks if needed - It
was maint. guy in OK City who will
come up - he is getting everything set up.
After plate welders on - 1 truck started exc.
in cell # T6 - he will work east on
the 1st row - Smith will work east on
the 2nd row. Hydroseeders worked along
N. Liberty - too much snow - Hy left early
afternoon - likely would return until next week
to finish. cistern sent on trucks bucket blade - he
will not remove them. Smith will. Jim for
Nat'l Ag. Accept - Eric w/ city stopped by -
he indicated that there is a 2" shallow
pvc H_2O line on the N side of Martin
Are trucks are driving over it - A citizen
was concerned we might damage Bill or down

Rock for tommorrow to place over the
area - we will also check it to
determine depth - if possible. - 1 truck
is dedicated for Rock in the morning.
2 II crew will show up tommorrow
from Newton County to assist w/
placement of rock along N. Liberty - mowing
clean dirt to the roped grounds to
fill in the cisterns - bulldoze off
the repository - The 2 volvo trucks are
to arrive after 12:00 - 2 TDs will be
coming over Sat. Exc of cell T24 is
completed. Area cell T6 is ≈ 75% done.
Samples collected earlier in day dried.
TD shooting w/ XRF - II cleaning trucks
for everything, stages equipment - Shut
down @ 5:30 - All cells T35-T45
are hot - ∴ will move exc. will
stockpile samples tommorrow for off-site
lab analysis. Filling in paperwork for
Aemim - Jim for Jer, Norfolk. Did not
utilize the TL-26 today - used 2 Kobelco
excs, D-4, & 2 volvo trucks. Left site
@ 6:30

1/18/02 - Fri - IT safety mtg @ 7:00 - 2 IT Trucks on site - Bill - RM Smith/ Hale will be utilizing the Kobelco exc. @ the rodeo grounds - exc starting @ cells T-6 ; T-25 - working east. Whitt/ Berry will be driving the 2 Volvo trucks. Rock is scheduled for delivery today. ID on-site for start - pulling samples to ship off site for lab analysis - Got paperwork from BSK for cost for 30 - 40 for Volvo truck - daily rate is $393.54 - original sent to Maple Nock. Bill setting up the fuel to be delivered every other day - will fuel Volvo trucks up directly - keep 500 gallon tank here as a reserve. One Volvo truck has a dead battery - jumping off the other battery from the good one. EDS Terry shows up from Newton County @ 8:30 - left and there @ 7:00 - will use D-4 & loader to prep repository area & grade area to repository & finish residential areas. No work completed prior to 9:00 - very slow start - 1 Volvo truck down - spent time charging from other Volvo - 1st truck started hauling 9:30 - 2nd Volvo truck started hauling @ 10:00 - Rock driveway & sidewalk area completed @ 400 N. Lisby - concrete pad & sidewalks still Berry - started using D-4 @ repository @ 9:15 to knock down piles. New operator using loader to move clean dirt into ditch to repository - informed Bill that I wanted that clean soil placed into the 4 cisterns that have been uncovered. The 2 additional Volvo trucks shows up @ 10:30 - started unloading them. ID samples cells T6, T24 & T15 for XRF's. cell T-15 sample will be sent for lab analysis w/ cells T38 & T43 samples. Loads of large rock arrives to be placed on road leading to repository to cover up the pvc H_2O line. One Volvo truck has a tire problem @ 10:55 - will shut it down. The 35 ton unit was delivered to the site w/ the right rear tire off of the rim. Working north @ repository - soil is being dumped in the center of the area - and being pushed to the outside edge - It took ≈ 1½ hours this morning to knock down all the piles that line the edge - ∴ it appears better to dump off the existing edge to expand the unit.

Whitts Volvo down @ 11:30 – right rear tire flat – he says it was delivered low on pressure – took photo of both units down w/ bad tires – neither caused by site work – delivery in poor condition – Barry's unit was not properly worked all day – didn't start running until after 10:00. I left site @ 12:30 – heading to KC for weekend – she left Sandy equip; XRT – she will order stuff for XRT – just like was done for Orange & Newton County. Spoke w/ Bill Crawford @ city hall – provided him update on project – he is pleased w/ status & progress. James Green called – wants memo from me stating needs for the 4 trucks – told him I would send when I get a chance. Kriewke equip repair truck arrives @ 1:30 – after lunch – Huck/Smitty on exc – sitting for large part of time due to trucks down – Barry & Henry on trucks hauling dirt – Barry shut down @ 1:40 to allow repair man to look @ – Whitt prepares a list of all things wrong w/ the trucks – ED on D-4 @ repository pushing dirt – Whitt using small loader – discussed equip. problems w/ Bill – he has law firm in Birmingham & discussed w/ equip group – informed him of dissatisfaction of quality of equip & its progress made – very inefficient at this time – informed him that we may shut down until equip is working – he will only charge for one exc & 1 truck today – Whitt placed one load of gravel @ 420 N. Liberty – they could not move all the vehicles – ∴ that is all that we will do for now – Whitt will sweep off the sidewalks & some porch on N. Liberty. A winter weather advisory has been issued – 3"-5" snow expected – w/ sleet expected. Barry's truck needs 2 new batteries – repair man went to get – Bill states that their repairman is to come up Monday to do the needed repairs and the tire repairman will be here also. Repairs likely to take up Mon & Tue. Heavy snow starting @ 2" – What Dis food joint sweeping off driveways. Smitty and Huck still exc cells T5 & T26 – may not complete them today, ∴ less than 1 cell each would of been accomplished. Tyler to shut site down until trucks are fixed – ∴ will start back up next week. Tool truck came @ 3:30, ∴ w/ bad

weather approaching - decided to start shutting work down & securing everything. All trucks were parked so repairman could work on them. Spoke w/ Becky Brown @ city hall - updated her on situation. They do not get Monday off. I told her if Eric moves Monday the Rodeo grounds - we would not be here - Those Mon back on Tue - Ready to work on Wed would be - Bill - RM, Smitty/Huck - eqp, Whitt, Barry & 2 TDs from Wionas post. TL26 loader was taken by EIS to Newton County. Repairman came and placed batteries in Volvo truck. Informed Roberts that we would not finish the driveway this weekend - that was fine w/ them. Left Cherryvale @ 5:30 and headed back to Dodge.

Inform ID of site shutdown & return on Tue 1/22/02 to start survey. Arrives @ Dodge @ 9:30 pm.

No site work 1/19, 1/20 or 1/21

1/22/02 - Tue - Left Dodge @ 6:30 in Gov. Hamm & Harris to arrive to survey this am. ID to arrive for start. Arrives on site @ 9:15. Rusty Moore for IT on site - he was also on-site yesterday - site was shut down last Fri - 1/18 due to problems w/ Volvo trucks. IT maintenance man on-site yesterday working on Volvos - not all repairs complete - currently in Tulsa getting parts - is to have all work done today. Bill C called - he is to arrive tomorrow afternoon - remainder of IT crew will be here @ 7:00 am on 1/23 to begin work - Appears 2 loads of large rock delivered to entrance of rodeo grounds - will need to spread w/ D-4. Rusty indicates the hydroseeds are to be on-site today - rain is forecast for next evening. Hydroseeder shows up shortly after 9:30 - grippy truck. Dis drive thru of site - All equip secure - yards in condition as left on 1/18 - Views borrow area - H2O draining fine - site still secure. organized travel paperwork - faxed in OT request for next

physicians. ID shows up @ 11:15 - visit std's wife @ hotel - ∴ she was going to go get - Don/Dave shows up - they will follow her to hotel, then eat lunch - likely to start surveying @ 1:00. ID spent afternoon videotaping completed residential area. Don/Dave I surveyed in Rodeo grounds - shot in fence, streets, utilities, control points, monitoring wells & temp grid pattern that ID & I laid out - 1st 3 rows of cells: will put in grids tomorrow. Hydroseeding completed N side of 638 W. 1st, ditch @ 635 W. 1st, 1st & school - NE corner of 532 W. 1st, 509 W. 1st, ditch @ 515 W. 1st, 400 N. Liberty & 404 N. Liberty. - they were having hose problems, ∴ will return tomorrow to finish - have ditch work, fill ditch, Magnum lot, the 420 N. Liberty, Valverde property, 532 W. 1st & Hales lot. Spoke w/ Mechanic - 3 of the Volvos ready tomorrow morning - 4th is still w/o a tire - Goodyear is to have replaced first thing in morning - then truck will be ready to run - the 35 ton Volvo needs oil change - will be done after work tomorrow. Left site @ 5:30 p.m.

1/23/02 - 2 IT safety mtg @ 7:00 - 2 IT trucks on site - 2 new crew members showed up. Bill C not to return until later today - Rusty/Smitty/Huck - will be using the excs to remove contaminated soil in the Rodeo grounds - Will start running w/ 3 trucks - The 4th is still down w/ no tire - is to be replaced this morning. John/Dennis/Barry will be driving the trucks - which will start off using the D-4 to shape in the gravel to the Rodeo grounds - then will keep the piles knocked down @ the deposit. ID on site - mentioned to him about putting tables together to keep track of the DATA to include on DEM's map - asked TDs to keep track of loads dumped. Huck working on cell 75. Smitty DIS T25 - then identifies location for Smitty to start on T35 - and work his way west. The 4th truck was fixed last night - new tire was on it ∴ running it from 8 - 9:00. Rusty informed me that one of the new TDs - John - would need to be taken to the Dr. today because of an eye injury he received

@ Wionna Post - He was gone @ 9:00 - IT Maintence man Then Dixson filter change on the Volvo truck while he was @ the DR. Rusty returned w/ John @ ≈ 10:30 - ∴ ≈ 1.5 hrs down time - Hydroseeder shows up @ 9:30 - begin @ N. Liberty. ID's pulled samples for post-exc Analysis from cells T5 & T25. DAN prepares map w/ grids - 2 Trucks down @ 10:40 - have only had 4 trucks running so far today for ≈ 1 hr. DONDAN: I laser out first 2 rows of cells - #1-25 - The southern boundary was off some - ∴ had to exc cells 3 & 4 an additional ≈ 10' to the south - Smith did this after lunch. Starts raining @ ≈ 2:40 - shut down survey due to rain - stopped @ cell 4. Hydroseeders did Magnum lot, Tull ditch, 416 & 420 N. Liberty & 532 W. First. ID samples from T5(17) & T25(18) came back clean. Mechanic left site @ ≈ 2:00. He indicated All repairs made. One Truck stopped @ ≈ 2:00 for water to blade down the repository. Spoke w/ Randy Brown. He had been contacted by Solomon Smith Bagley - he gave them my #. Ty want to discuss the removal costs. At 3:15 today - Smitty moved the exc. w/ smooth bucket over to Hoc to remove A cistern - This was the 2nd time today he stopped his exc to assist w/ the cisterns. Rusty spent the day rising w/ the TD's in the volvo's. The hydroseeders completed Hales yard - left @ 3:30 due to rain - he didn't not know if they were coming back tommorrow. Weather: Some ditch work remains. Fuel truck arrives @ repository @ 3:25 - Shut down survey for day @ 3:30 due to RAIN. Done fueling @ 3:38 - ∴ 13 minutes to fuel 2 exc's & 4 Volvo trucks that were utilized for ≈ 1/2 day since last being fueled. Bill C arrives on site @ 3:45. One volvo truck stuck in ditch going to repository @ ≈ 4:00. D-4 could not pull him out - moved exc over got him out - then loaded pile of brick located N. of repository into the ditch as fill ≈ 3 loads - having pretty much done for the day. All trucks parked @ repository for the evening. Used D-4 to back drag Marsh

Sat. @ the ends of the day. ID porks sampling cell 21 (T35) will get dry then shot tommorrow. Spoke w/ Randy Brown - he says they has been contacted by Solomon Smith Barny - one of the PRPs they sent the letter to back in December - they will be giving me A CALL to discuss the amount & costs. Randy Also faxed letter to me that he sent to the city eg: the rodeo grounds - he will Also send over Another copy of the BTA. IT Shut down @ 5:30 - met w/ ID rg: results - Spoke w/ Eric Rg: Gov - they need Green Dump for Salt Lake City - I will end up using the white Dump. Left site @ 6:00

Emmert Dump Trucks

Date	# of trucks	Hours
11/8	2	
11/9	3	
11/10	2	
11/12	2	
11/13	2	
11/14	∅	
11/15	~~2~~ 3	
11/16	~~4~~ 5	(1 didn't run entire time)
11/17	3	
11/27	1	
11/28	4	
11/29	2	
11/30	4	
12/1	5	
12/2	5	
12/3	4	
12/4	4	(1 truck broke down @ 12:00)
12/5	2	
12/6	4	
12/7	4	
12/8	3	(1 truck down for awhile for flat)
12/9	4	8 - 5:30
12/10	3	7:30 - 5:30
12/11	2	7:30 -
12/12	∅	
12/13	∅	

Date	# of trucks	Hours
12/19	6 ✓	8:30 – 5:30
12/20	6 ✓	8:00 – 5:30
12/21	5 ✓	8:00 – 1:30
1/3/02	1 ✓	8:45 – 5:30
1/4	2 ✓ Bill C. around 2 helping in the day.	8:00 – 5:30
	2 ✓	12:45 – 6:30
1/5	1 ✓	8:00 – 5:00
1/6	1 ✓	10:00 – 6:00
1/7	4 ✓	7:30 – 5:30
1/8	3 ✓	7:30 – 3:00
1/9	3 ✓ 1 hr for lunch	7:30 – 5:00
3/25/02	1 ✓	8:30 – 5:30
3/26	2 ✓	8:30 – 5:30
3/27	2 ✓	8:00 – 5:30
4/3	2 ✓	7:30 – 5:30
4/4	4 ✓	7:30 – 5:30
4/5	2 ✓	8:00 – 5:30
	1 ✓	11:30 – 5:30
4/6	5 ✓	7:30 – 5:30
4/13	4 ✓	7:30 – 5:00
4/14	5 ✓ – 1 broke down early – another shut down to go to church.	7:30 – 5:00
4/15	7 ✓	7:30 – 2:30 – Hyd. hose broke on Link Belt.
4/16	7 ✓	10:00 – 6:00
4/17	7 ✓	8:00 – 5:30

Access Agreements

Property	Date Signed
530 Front – Lindquist	11/2/01
526 Front – "	11/2/01
511 Martin – Page	11/6/01
629 Martin – Thompson	11/5/01
610 Front – Quigley	11/3/01
618 Front – Cannon	11/3/01
512 Front – Hodgen	11/8/01
500-510 Coyle – Tull	11/6/01
524 Front – Bruce	11/9/01
520 Front – Alvarez	11/5/01
500 W First – Knoles	11/15/01
506 W First – Hale	11/15/01
514 W. First – Adams	11/15/01
511 W. First – Lindquist	11/15/01
527 W. First – Lindquist	11/15/01
621 Front – Samora – (verbal 11/16/01)	11/17/01
505 Front – Hale	11/6/01
513 Front – Hale	11/6/01
617 Front – Keeton (verbal 11/21/01)	12/6/01
509 W. First – Blackburn	11/27/01
529 W. First – Sclaniber (No removal necessary)	11/27/01
606 W. First – Wagoner	11/27/01
515 W. First – Koehn	11/26/01
638 W. First – Page/Cannon	11/28/01
635 W. First – Smith	11/29/01
620 Front – Henderson	11/14/01

Access Agreements Con't

Property	Date Signed
6034 Front - Henderson	11/14/01
Martin - Parcels 2,3,4 of Blocks - Mangum	12/6/01
404 N. Liberty - Ott	12/10/01
416 N. Liberty - Roberts	12/6/01
420 N. Liberty - Roberts	12/6/01
400 N. Liberty - McBride	12/7/01
1st & School - Schaeffer	12/12/01
532 W. First - Beaston	12/26/01
5394 Co. Road 5050 - Gann	12/30/01
Rodeo Grounds - City of Chanute	1/3/02
Ponderosa 701 W. First - Reilly	3/22/02

Truck Log Cont.

Date	# Trucks	Hours
4/18	7 ✓	8:00
		DOT shows up @ ≈ 10:00 - Shut Down 4 of the trucks ∴ 4 - 8:00 - 10:00
		3 - 8:00 - 5:30 (minus time down for DOT)
4/19	5 ✓	3 8-4 2 12-4
5/2	4 ✓	11:00 - Co
5/3	7 ✓	8 - 5:30
5/4	3 ✓	8 -
5/5	—	

*-exc. area not deep enough to adequately place barrier
()- # of rolls utilized (4'x100') see start sketches

PROPERTIES - EXC

Loc	START EXC	COMPLETE EXC	Backfill	Barrier
511 Martin	11/6/01	11/9/01	11/15	N*
629 Martin	11/7/01	11/10/01	12/1	N*
512 Front	11/9/01	11/12	11/28	N*
500-510 Coyle	11/10/01	11/10/01	11/30	N
520 Front	11/10/01	11/12	11/28	N
524 Front	11/11/01	11/11/01	11/28	N
530 Front	11/11/01	11/12	11/28	N*
536 Front	11/11/01	11/12	11/28	N
610 Front	11/11/01	11/13	12/1	Y (3)
618 Front	11/13	11/13	12/1	Y (3)
620 Front	11/14	11/15	12/1	N
634 Front	11/14	11/16	12/1	Y (3)
621 Front	11/16	11/17	12/3	N
617 Front	11/26	11/27	12/3	N
513 Front	11/27	12/2	12/3	N*
505 Front	11/30	12/2	12/5	N
500 W First	12/2	12/4	12/6	N*
506 W First	12/3	12/5	12/6	N*
514 W. First	12/4	12/6	12/7	Y ~~N~~ (1)
515 W. First	12/5	12/6	12/8	N*
527 W. First	12/6	12/7	12/8	N
509 W. First	12/7	12/8	12/19	N*
511 W. First	12/7	12/8	12/19	N
606 W. First	12/8	12/10	12/19	Y (3)
638 W. First	12/9	12/11	12/20	N

Part 2 of 2

Loc	Start Exc	Complete Exc	Backfill	Barrier
6035 W. First	12/11	12/12	12/20	N*
1st & School	12/12	12/12	1/7/02	N
532 W. First	12/12	12/12	1/8/02	N
W. Martin-Manson	12/12	12/12	1/7/02	N
400 N. Liberty - McBride	1/3/02	1/3/02	1/3/02	N
404 N. Liberty - Ott	1/3/02	1/3/02	1/3/02	N
416 N. Liberty - Robert	1/3/02	1/5/02	1/4/02	N*(Y) EN (1)
420 N. Liberty - Roberts	1/5/02	1/6/02	1/7/02	Y (1)
5399 Co. Road 5050 - Gannon	1/6/02	1/6/02	1/7/02	N
Rodeo Grounds - Cherrywrite	1/6/02	3/27/02	N/A.	N
Pondcrest 701 W. First - Ridley	4/3/02	4/4/02	4/4/02	N

Auto 2 Cos

RODEO GROUNDS

Cell	Exc. REQ's	Post-Exc Sample
1	N	—
2	N	—
3	Y	ok
4	Y	ok
5	Y	ok
6	Y	ok
7	Y	ok
8	Y	ok
9	Y	ok
10	Y	ok
11	Y	ok
12	Y	ok
13	N	—
14	N	—
15	N	—
16	N	—
17	Y	ok
18	Y	ok
19	Y	ok
20	Y	ok
21	Y	ok
22	Y	ok
23	Y	ok
24	Y	ok
25	Y	ok
26	N	—

RODEO GROUNDS

27	N	—
28	N	—
29	Y	ok
30	Y	ok
31	Y	ok
32	Y	ok
33	Y	ok
34	Y	ok
35	Y	ok
36	Y	ok
37	Y	ok
38	Y	ok
39	Y	ok
40	N	—
41	N	—
42	Y	ok
43	Y	ok
44	Y	ok
45	Y	ok
46	Y	ok
47	Y	ok
48	Y	ok
49	Y	ok
50	Y	ok
51	Y	ok
52	Y	ok
53	Y	ok

Rodeo Grounds

cell	Exc. Required	Post-Exc Sample
54	N	–
55	N	–
56	Y	ok
57	Y	ok
58	Y	ok
59	Y	ok
60	Y	ok
61	Y	ok
62	Y	ok
63	Y	ok
64	Y	ok
65	Y	ok
66	Y	ok
67	Y	ok
68	Y	ok
69	Y	ok
70	Y	ok
71	Y	ok
72	Y	ok
73	Y	ok
74	Y	ok
75	Y	ok
76	Y	ok
77	Y	ok
78	Y	ok
79	Y	ok

Rodeo Grounds

80	Y	ok
81	Y	ok
82	Y	ok
83	Y	ok
84	Y	ok
85	Y	ok
86	Y	ok
87	Y	ok
88	Y	ok
89	Y	ok
90	Y	ok
91	Y	ok
92	Y	ok
93	Y	ok
94	Y	ok
95	Y	ok
96	Y	ok
97	Y	ok
98	Y	ok
99	Y	ok
100	Y	ok
101	Y	ok
102	Y	ok
103	Y	ok
104	Y	ok
105	Y	ok
106	Y	ok

RODEO GROUNDS

cell	Exc. Requires	Post-Exc Sample
107	Y	ok
108	Y	ok
109	Y	ok
110	Y	ok
111	N	—
112	N	—
113	Y	ok
114	Y	ok
115	Y	ok
116	Y	ok
117	Y	ok
118	Y	ok
119	Y	ok
120	Y	ok
121	Y	ok
122	Y	ok
123	Y	ok
124	Y	ok
125	Y	ok
126	N	—
127	Y	ok
128	Y	ok
129	Y	ok
130	Y	ok
131	Y	ok
132	Y	ok

RODEO GROUNDS

cell	Exc. Requires	Post-Exc. Sample
133	Y	ok
134	Y	ok
135	N	—
136	Y	ok
137	Y	ok
138	Y	ok
139	N	—
140	N	—
141	Y	ok
142	Y	ok
143	Y	ok
144	Y	ok
145	Y	ok
146	Y	ok
147	Y	ok
148	Y	ok
149	Y	ok
150	Y	ok
151	Y	ok
152	Y	ok
153	Y	ok
154	Y	ok
155	N	—
156	N	—
157	N	—
158	N	—

NIST - H - 5523 ± 80
M - 1162 ± 31
L - 18.9 ± .5

XRF Screening

Date	cell #	Readings - Pb - ppm
2/22/02	NIST-H	4920 ± 110, 4980 ± 170, 4960 ± 140
"	NIST-L	<20, 29.8 ± 15, 28.6 ± 14
"	42	28.4 ± 15, 25.5 ± 15, 18.8 ± 12
2/23/02	NIST-M	1000 ± 51, 1000 ± 52, 1000 ± 52
"	56	<19, 46.1 ± 15, 33.8 ± 14
"	35 (re-exc)	25.7 ± 15, 36.8 ± 15, 40.6 ± 16
"	36 (re-exc)	36.9 ± 15, <21, 24.9 ± 15
"	57	44.6 ± 15, 65.6 ± 17, 64.1 ± 16
"	49	292 ± 28, 245 ± 26, 211 ± 24
2/24/02	NIST-M	1000 ± 52, 969 ± 52, 1040 ± 54
"	50	248 ± 27, 266 ± 28, 206 ± 25
"	58	48.5 ± 16, 42.8 ± 15, 51.6 ± 16
"	68	101 ± 18, 96.6 ± 18, 82.5 ± 18
"	69	67 ± 17, 57.5 ± 16, 62 ± 16
"	138	148 ± 22, 182 ± 24, 180 ± 24
2/25/02	NIST-H	5000 ± 140, 4760 ± 140, 5000 ± 150
"	59	65.1 ± 17, 72.1 ± 18, 35.4 ± 15
"	70	111 ± 20, 145 ± 22, 136 ± 21
2/26/02	M-NIST	1020 ± 55, 1000 ± 53, 996 ± 53
"	124	183 ± 24, 210 ± 26, 182 ± 24
"	125	79.7 ± 19, 69 ± 19, 59.2 ± 18
"	71	248 ± 28, 188 ± 25, 215 ± 27
"	72	156 ± 23, 166 ± 23, 174 ± 23
"	110	51.8 ± 16, 44.4 ± 15, 39.5 ± 15
"	73	111 ± 21, 126 ± 21, 141 ± 22

Date	cell #	Readings - Pb - ppm
2/27/02	NIST-L	<22, <21, 37.1 ± 16
"	141	84.1 ± 19, 120 ± 21, 64.4 ± 17
"	82	204 ± 28, 218 ± 28, 232 ± 28
"	142	150 ± 23, 143 ± 22, 120 ± 21
"	83	64 ± 17, 59.4 ± 17, 62.2 ± 1[illegible]
"	143	74.4 ± 18, 79.5 ± 18, 80.4 ± 18
"	96	209 ± 27, 173 ± 24, 246 ± 27
"	127	133 ± 23, 120 ± 21, 126 ± 22
2/28/02	NIST-M	975 ± 52, 1010 ± 54, 1010 ± 55
"	97	34.2 ± 16, 46.8 ± 17, 33.2 ± 15
"	98	39.6 ± 15, 49.9 ± 17, 33.5 ± 15
"	128	72.8 ± 18, 76.7 ± 18, 78.6 ± 19
3/12/02	NIST-M	1020 ± 55, 1010 ± 54, 1070 ± 56
"	103	29.1 ± 15, 34.7 ± 15, 25.1 ± 15
3/13/02	NIST-L	<22, <22, <21
"	NIST-H	4870 ± 140, 4960 ± 140, 4930 ± 14[illegible]
"	133	38.5 ± 16, 43.2 ± 16, 63.3 ± 17
"	104	113 ± 21, 123 ± 21, 104 ± 20
"	134	39.2 ± 16, 48.1 ± 17, 38 ± 16
"	136	110 ± 21, 114 ± 21, 107 ± 21
"	137	143 ± 23, 147 ± 22, 143 ± 24
3/14/02	NIST-M	1040 ± 55, 1030 ± 54, 1020 ± 55
"	123	41 ± 16, 45.4 ± 16, 53.7 ± 17
"	118	33.1 ± 15, 27 ± 14, 36.3 ± 16
"	119	28.6 ± 15, 46.4 ± 17, 51.6 ± 17
"	121	<21, 35.6 ± 15, 36.4 ± 15
"	122	48.3 ± 16, 39.5 ± 15, 34.7 ± 15

3/4

DATE	CELL #	READINGS - Pb - ppm
3/15/02	NIST-M	978±53, 1010±53, 996±54
"	105	46.2±16, 62.1±17, 58.4±17
"	109	45.5±16, 35±15, 45.4±16
"	91	28.4±15, 23.1±14, 20.8±13
3/21/02	NIST-M	998±54, 998±54, 1020±55
"	108	25.8±14, 39±15, 43.7±16
"	120	41±16, 37±15, 41.1±16
"	106	93.2±19, 117±20, 92.9±20
"	95	225±27, 280±29, 181±24
3/22/02	NIST-M	1010±54, 961±52, 1020±54
"	107	60.2±18, 53.7±17, 66.1±18
"	94	27.1±14, 33±15, 28.3±15
"	81	59.1±16, 45.5±17, 48.1±17
"	92	24.6±15, 35.5±15, 35±15
3/23/02	NIST-M	982±54, 1010±54, 1040±56
"	80	39.6±16, 35.9±15, 42.6±16
"	78	125±21, 121±20, 124±21
"	67	58.2±18, 53.3±16, 52.9±16
3/24/02	NIST-H	4940±140, 4890±140, 4850±140
"	" -L	<20, <19, <21,
"	93	<25, 39.2±15, <21
"	66	52.9±17, 52.7±17, 54.8±17
"	24	47±16, 48.5±16, 44.9±15
"	79	47.6±15, 37.5±15, 24.2±14
"	65	110±20, 120±20, 109±20
"	25	47±16, 45.4±16, 40.9±16

4/4

DATE	CELL #	READINGS - Pb - ppm
3/25/02	NIST-M	946±52, 970±52, 1010±52
"	51	95.1±19, 86.9±19, 88.4±18
4/4/02	NIST-M	1000±52, 1020±53, 1010±53
"	701 W. FIRST - D	38.6±17, 62±18, 50.1±1
"	701 W. FIRST - E	34.1±15, 22.4±14, 34.2±1

TRANSYSTEMS CORPORATION

Terry L. Emert

115 S. 6th Street, Suite B
Independence, KS 67301
tlemert@transystems.com
(620) 331-3999
Mobile: (620) 331-9394
Fax: (620) 331-4082

www.transystems.com

Kansas Army National Guard

FRAN R. GAY
Sergeant First Class
Recruiter Trainer

3002 W 8th St.
Coffeyville, KS 67337

Office ~~(316)~~ 620 251-0617
Cell (785) 633-0441

Floyd Thompson 629 Martin

Young's Hardware 'n Gifts
1922 W. Main
Independence, KS 67301
(316) 331-1490

Mark Thompson
336-3647

Wes Thompson
336-3683

Floyd & Marlene
Will be at 661-258-9159
From Nov 14- Dec 5th

Todd/Mulvaney
Holly

Dozer - JD 5501H
TL - JD 5556 -
Same as 943

Same as D-4

This page intentionally left blank

IF FOUND PLEASE RETURN TO:

NAME _____

COMPANY _____

STREET _____

CITY _____ STATE ____ ZIP ____

PHONE ____ _____

NATIONAL ZINC
#2

JOB BOOK

PROJECT NAME _____

PROJECT NUMBE

COPY

CREW _____

DATE 1/24 - 2/21 BOOK # ____ OF ____

WEATHER _____

Forestry Suppliers, Inc.

MORE THAN THE NAME IMPLIES®

P.O. Box 8397 • Jackson, MS 39284-8397

Sales 1.800.647.5368

Fax 1.800.543.4203

www.forestry-suppliers.com

Stock No. 49365

James Price - ERRS - x 7239

CURVE FORMULAS

$T = R \tan \frac{1}{2} I$

$T = \frac{50 \tan \frac{1}{2} I}{\text{Sin.} \frac{1}{2} D}$

$\text{Sin.} \frac{1}{2} D = \frac{50}{R}$

$\text{Sin.} \frac{1}{2} D = \frac{50 \tan \frac{1}{2} I}{T}$

$R = T \cot. \frac{1}{2} I$

$R = \frac{50}{\text{Sin.} \frac{1}{2} D}$

$E = R \text{ ex. sec } \frac{1}{2} I$

$E = T \tan \frac{1}{4} I$

$\text{Chord def.} = \frac{\text{chord}^2}{R}$

$\text{No. chords} = \frac{I}{D}$

$\text{Tan. def.} = \frac{1}{2} \text{ chord def.}$

The square of any distance, divided by twice the radius, will equal the distance from tangent to curve, very nearly.

To find angle for a given distance and deflection.

Rule 1. Multiply the given distance by .01745 (def. for 1° for 1 ft.) and divide given deflection by the product.

Rule 2. Multiply given deflection by 57.3, and divide the product by the given distance.

To find deflection for a given angle and distance. Multiply the angle by .01745, and the product by the distance.

GENERAL DATA

RIGHT ANGLE TRIANGLES. Square the altitude, divide by twice the base. Add quotient to base for hypotenuse.

Given Base 100, Alt. $10.10^2 \div 200 = .5$. $100 + .5 = 100.5$ hyp.

Given Hyp. 100, Alt. $25.25^2 \div 200 = 3.125$. $100 - 3.125 = 96.875$ = Base.

Error in first example, .002; in last, .045.

To find Tons of Rail in one mile of track: multiply weight per yard by 11, and divide by 7.

LEVELING. The correction for curvature and refraction, in feet and decimals of feet is equal to $0.574 d^2$, where d is the distance in miles. The correction for curvature alone is closely, $\frac{2}{3} d^2$. The combined correction is negative.

PROBABLE ERROR. If d_1, d_2, d_3, etc. are the discrepancies of various results from the mean, and if Σd^2 = the sum of the squares of these differences and n = the number of observations, then the probable error of the mean = $\pm 0.6745 \sqrt{\frac{\Sigma d^2}{n(n-1)}}$

MINUTES IN DECIMALS OF A DEGREE

1′	.0167	11′	.1833	21′	.3500	31′	.5167	41′	.6833	51′	.8500
2	.0333	12	.2000	22	.3667	32	.5333	42	.7000	52	.8667
3	.0500	13	.2167	23	.3833	33	.5500	43	.7167	53	.8833
4	.0667	14	.2333	24	.4000	34	.5667	44	.7333	54	.9000
5	.0833	15	.2500	25	.4167	35	.5833	45	.7500	55	.9167
6	.1000	16	.2667	26	.4333	36	.6000	46	.7667	56	.9333
7	.1167	17	.2833	27	.4500	37	.6167	47	.7833	57	.9500
8	.1333	18	.3000	28	.4667	38	.6333	48	.8000	58	.9667
9	.1500	19	.3167	29	.4833	39	.6500	49	.8167	59	.9833
10	.1667	20	.3333	30	.5000	40	.6667	50	.8333	60	1.0000

INCHES IN DECIMALS OF A FOOT

1-16	3-32	⅛	3-16	¼	5-16	⅜	½	⅝	¾	⅞
.0052	.0078	.0104	.0156	.0208	.0260	.0313	.0417	.0521	.0625	.0729
1	2	3	4	5	6	7	8	9	10	11
.0833	.1667	.2500	.3333	.4167	.5000	.5833	.6667	.7500	.8333	.9167

1/24/02 -- IT safety mtg @ 7:00 3
IT trucks on site. Bill - RM, Rush - PISA,
Smitty / Hack - op on 2 Kobelco exc - Hack
working on cell #9 (T3) & Smitty #30 (T3b)
Whitt / Barry / David / John - All 4 TDs in
the Volvo's - mechanic was here this am -
All trucks starting fine - ∴ mechanic
took off - Hack is using the grabber
on the exc to pull the pipe that
is exposed @ the ground surface. FD
on site for start - will sample cell
#29 (T3b) then should be able to
pull confirmation samples from cells 8,
9 & 30. DAN & Don A on site for
survey work @ Rodeo grounds. LM for
Roy rg: GOV - Also message to Debbie
Abrams reg: WAR. LM for James
Price reg: memo for Volvo trucks - he
says next week was ok for memo.
DAN / Don: I completed survey @
Rodeo Grounds @ ~ 12:30. FD pulled
samples from cells 40 to 53. Bill C
RAN D-4 some during the morning to
knock down piles @ the repository. All
4 trucks RAN fine during morning.

IT took lunch break 12 - 12:30. Rusty is working on 1900's - Bill states that IT is not going to charge EPA for per diems or any other costs for Fri, 1/18/02, Sat 1/19, Sun 1/20, or Mon 1/21 - due to equip problems - these charges will be billed to another IT group. ∴ only charge will be on 1/22 for Rusty's trav, per diem & mob of 2 new workers to site. Met w/ Bill @ Repository - discusses need for some gravel @ the west entrance to the Rosco grounds - Also discusses concern w/ bucket on Hucks machine - he will make calls to get a different machine or bucket - concern is that may be leaving some contamination - Also discusses how to fill in the repository - tells him I would like to square off the east & west ends - and continue to expand the repository to the north keeping the height @ the same that it is now - the benefit I see to doing that is that we have a level area that we have built up that the oil can utilize for storage, etc, and that this area was previously not usable. A less MW monitoring well is far north - I called Peter Hanson and discuss w/ him - well is not needed for HRS purposes - it never was any recovery sufficient for adequate sampling ∴ would be ok to remove well - he will talk to Randy to see when they could come down and abandon - because they need to do those @ the Rosco Grounds. Also: IT is expecting that the hydroseed will be here Mon. to complete Valverde's ditch work. Reviews has signed off on 1/11/02 - 1900 covers 1/9, 1/10 & 1/11 - then break to wait for equip to come in. Discuss w/ ED & Bill how to proceed w/ sampling & exc over the next cycle of days. Cells 40 & 41 do not need exc. 42 will be sent for lab analysis for determination - cells 43 - 53 are all hot, exc. confirms @ 8, 9, 31 - ED pulled samples - will screen tomorrow. IT shut down @ 5:30. I clean GOV - vac & wash - $2.50. Left site @ 6:30.

RT

1/25-1/28 - I was not on site during this time frame - ID was present for start. She continues to screen cells - while IT exc. contaminated cells - 10 hour days were worked - 3 IT trucks - Bill - RM - Rusty - PBA - who ended up being off site for a couple of days for personnel reasons. Smitty/Huck - ran the 2 excs - Whitt/Barry/Davis/John. All 4 drove the Volvo trucks - Whitt did some work on the D-4 - blading the roads & knocking down the piles @ the repository. All equip ran fine - no down time - The H_2O truck was utilized some due to the dry conditions.

1/29/02 - Tue - Returned to site @ 4:00. IT crew was Bill - RM, Smitty/Huck - exc. 4 TDs - Whitt/Barry/David/John. ID on site - Discussed sampling strategy - brought maps from survey - Requested ID to check on Apvit for residential. Worked till 6:10 - then left site.

(mud)
1/30/02 - Rain/Sleet overnight - roads, power poles & trees covered w/ ice - IT finds up equipment - HAD safety mtg @ 7:00 - 3 IT trucks - Bill - RM, Rusty - PBA, Huck/Smitty - op on exc., Whitt/Barry/John/David - Volvo truck drivers. Began exc - fields to wet - trucks became stuck very easily - making the situation worse in fields - poor productivity ∴ decided to shut down - 4 TDs done @ 9:30. Bill/Rick/Hudl/Smitty - worked till 11:00 - preparing the area that was disturbed. ID prepared a couple samples to send to lab - XRF < 400 - but want to verify - cells - 111 & 113. She decided to head home - I will call her when it is decided to start back up. Rain/Sleet continued throughout the day. Bill & I discussed options for the need for different bucket - Hertz has not done anything - ∴ Bill located a Link Belt in St. Louis - w/ a ditching bucket - 6' - cost is $6520/month rental - w/ a $4300 mobe charge. Agreed that is the equip. to utilize. Bill states there could be no equip. changes for today.

1/31/02 - Rain/sleet continues overnight & into the morning - expected to rain throughout the day - then start to dry up over the weekend. Based on wet fields conditions decided to shut down site activities until next week. Bill/Rusty/Smitty/Frick did do some maintenance activities to help drain the site/area better once the rain stops - hours 11:30 - 1:30 for each. The new Link-Belt exc. arrived & was unloaded - Bill says it was running fine. They will start working again next Wed. 2/6/02 @ drying out the site, w/ the TDs returning to work on 2/7. Rusty plans on sending me a 1900 on Monday - signing off on 1/18/02 1900 on 1/24. LM for TD rg: site status - LM for carol rg: WAR. left site @ 2:00 to head to KC. Arrived @ Dodge @ 4:30 - unpacked Durango.

2/1/02 (Fri) → 2/6/02 (Wed) - No site activities occurred due to wet weather. No charges for equip - only costs would be motel & per diem.

2/7/02 - Thur - Went to office for paperwork - Spoke w/ Bill - site still extremly wet - more rain was received over the last couple of days - wet site conditions make working worse than waiting for site to dry or freeze. Told Bill I would arrive this afternoon. Spoke w/ TD - she will get xsf @ Dodge then head to site - She has some videotaping to do; Also sample remainder of cells - will complete before she goes on vacation. Bill and I agreed it would be best to shut down/demobe/and wait for site to dry - my concern was w/ what equipment would have to be demobed - the following was worked out and agreed upon:

Hertz - Kobelco will be deconned & sent to Newton City or back to Hertz - we no longer need.

H2O truck D-4 & Kobelco w/ smooth bucket - Hertz will not charge IT for during the next couple of weeks if we do not use - ok for Hertz equip to stay - The H2O truck has a monthly rate. So whatever

time it sits now will be taken off the bill.

Grantham - Link - Baltere - he will do the same as Hertz - will not start the monthly rental rate until we start using - $6520/month + $300 mob charge.

IT - of Volvo trucks - we will not be charged any daily rates - however, if another job needs them - they will be shipped off - I asks folks that we can get them back when needed - the site being shipped to covers the mob (or demob) charge.

∴ All equip will remain on site w/ no charges - other than the Kobelco to be demobbed.

Bill demobbed 3 of the TD's - Barry, John & David - ∴ they will have demob hours today.

2 IT trucks on-site today @ 12:00
On site was Bill - RM, Huck/Smith/Whitt - they used the D-4 to work the Rosco grounds - also exc to clean out the ditch to the repository. The Kobelco was disconnected and parked along Martin St. All the remaining equip will be parked up @ the repository - did some minor gravel spreading @ the corner of Martin & Catherine - placed barricades @ entrance to ~~Martin~~ Rosco grounds. Using H2O truck to spray down outsides of Volvos - in case they need to be shipped offsite - also make sure the beds were clean - some maint was done earlier in the week on the Volvo's - the remainder will be done next week while we are gone. The copier was picked up the the rental company - Paulette also picked up his grass seed & fertilizer that was inside the bldg - the mulching material was still located outside - the processors still need to complete Vol numbers and a portion of Hales ditch. Did drive thru of site - only site holes water is all ends of Quigleys - CLO

Front) - Along Martin - in NW corner of property - we can fix that when we place gravel @ Roberts Along N. Liberty. 2 locations @ the Rodeo Grounds holding H_2O - when we complete the exc - we will slope off the edges @ the fence line - and make have to create a small ditch for the H_2O to drain to the road ditch - remainder of site looks good. Bill states that the same crew would be returning - we will attempt to return on 2/18 - if site conditions allow. Date kicking return for Bill - I said that was fine - I asked Bill to see if Lori Freeman could work on Goth Newton Ct. & N. Zu - then Rusty would not have to come back - he said that might work & he would check into.
Met w/ the Roberts @ 420 N. Liberty regarding their driveway - told her that I didn't want to gravel until the end of the project - she said that was fine - no rush for the rock. Spoke w/ Harold Rigby about the site status in the Rodeo Grounds - he figures it was to cold to work in there - I told him we would not have any activities going on over the next week or so. Attempted to contact the Cushenberys - but no answer on their home phone.
Spoke w/ Ed - the XRF was taken over to the lab - ∴ she will get the XRF in the morning and then drive down.
Spoke w/ Jorie Cushenbery @ 10:00 - updated her on status of project she thanked me for the update. All work is decommissioned street cleaned. All equipment secure. Will plan on IT returning on 2/18/02 - weather dependent. Left site @ 7:02 to feed dog & check in.

DF

2/8/02 - Fri - No IT on-site today - All demobs. Arrives @ Filter plant - 8:00 - ID to arrive today to sample. Faxed vehicle log to Roy - Spoke w/ Dee @ ATP re: Nov. voucher. She will work on it in the next couple of weeks - And issue me a new voucher for $44.50. Working on polreps. CN for Carol re: printer cartridges. Spoke w/ Rob Weber @ ICDIS provided him a site update - he will attempt to come down on 2/20/02. Calls Randy B to discuss Alamoosa the wells - but he is out of the office today. Emailed policy #8 - which comes to 1/12/02 to Carol. Spoke w/ Betty Brown @ City Hall - gave her an update on the Rodeo Grounds status - Also discussed w/ her of playing around over the contaminated soil @ the repository. The city could use for storage/parking - she thought that was a good idea - she will mention to Eric. Spoke w/ Lynn P. re: ID's performance @ site. Talking project office refresher course on internet. Completed course - sent cert. to Carol Rompage. Reviewed phone call bills for 11/11 - 12/10 - no personal calls.

12/11 - 1/10 - total of 6 personal calls. Completed reviews of New Coast Guards FAN web system. Emailed Scott Hayes that I completed the survey. ID arrives on-site @ 1:30 - w/ XRF - unit does not have battery charger though apparently he on work over last couple of days. Spoke w/ John T - he sent the Aerial request to Las Vegas. Calls Rick Upthegrove to discuss the hydro-seeding of his property @ 520 Front St - he understands why we has not yet completed - And it was all of him that we wait until the site dries out. Spoke w/ Mrs. Lindquist re: the phone line on the grounds @ 530 Front - she says the phone Co. is to bury the line. Updated EPCRA report - Bahnke XRF - #63 was calibrated w/ SMDS - ID went out to collect samples for screening. Dispolrep #4 that covers 1/13 - 1/19/02. Completed policy #10 that covers 1/20 - 2/8/02. Drafted memo re: volvo trucks for James Price. Went out and looked @ borrow area - H_2O flowing down through creek - also did not notice

Ag standing H_2O in the borrow area - it looks in good condition. ID collected samples from cells 116 → 123, and 135, 136, 137 - secured site to Rodeo grounds when done - emailed polreps & memo re: travels to James Price. ID off site @ 6:30 pm - she will sample remainder of cells over the next couple of days. I has no lunch today - leaving site @ 6:35 - ∴ work till 7:00.

DJ

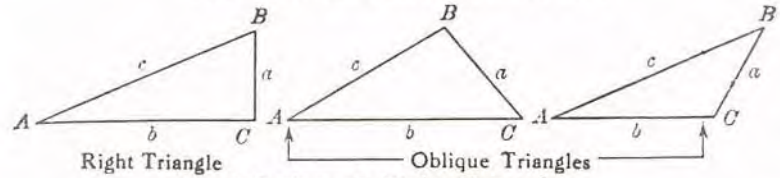
2/11/02 - Mon - ID was on site completing the screening - she worked 2/9 & 2/10 - All cells screened - out of 157 total cells - 22 do not require exc ∴ will need to exc 135. She will return on 2/12 - And turn in XRF @ Dodge - I will utilize next week to screen the post-exc samples. She will Also email table to update data.

2/12 - ID returned to KC - turned in both XRF's - #53 - was sent to Niton for resourcing.

No site work through 2/21 - site to rest - Allowing to dry out. IT removed to site on 2/21/02 - ∴ no site costs from 2/8 to remobe on 2/21.

2/21/02 - Arrived on site @ ~5:30 - Fifth Bldg was secure - All equip. on site was secure - 2 Volvo tires sitting by trucks - maint. was to be done while we were on break. Kobelco track-hoe still on site. No standing H_2O in Rosedale Grounds or yards. Valverde Modus in a new trailer @ 520 Front - some tree limbs still down due to the ice storm. Overall site looks fine - work to resume @ 7:00 on 2/22/02

TRIGONOMETRIC FORMULAS



Solution of Right Triangles

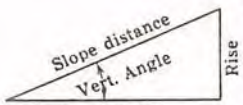
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B,\ c = \sqrt{a^2+b^2} = a\sqrt{1+\frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B,\ b = \sqrt{(c+a)(c-a)} = c\sqrt{1-\frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90° - A,\ b = a \cot A,\ c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90° - A,\ a = b \tan A,\ c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90° - A,\ a = c \sin A,\ b = c \cos A$

Solution of Oblique Triangles

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A},\ C = 180° - (A+B),\ c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a},\ C = 180° - (A+B),\ c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180° - C,\ \tan \frac{1}{2}(A-B) = \frac{(a-b)\tan\frac{1}{2}(A+B)}{a+b},\ c = \frac{a \sin C}{\sin A}$.
a, b, c	A, B, C	$s = \frac{a+b+c}{2},\ \sin\frac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{bc}},\ \sin\frac{1}{2}B = \sqrt{\frac{(s-a)(s-c)}{ac}},\ C = 180° - (A+B)$
a, b, c	Area	$s = \frac{a+b+c}{2}$, area $= \sqrt{s(s-a)(s-b)(s-c)}$
A, b, c	Area	area $= \frac{bc \sin A}{2}$
A, B, C, a	Area	area $= \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = 5° 10′. Since cos 5° 10′ = .9959, horizontal distance = 319.4 × .9959 = 318.09 ft.

Horizontal distance also = Slope distance minus slope distance times (1 − cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. Cosine 5° 10′ = .9959. 1 − .9959 = .0041. 319.4 × .0041 = 1.31. 319.4 − 1.31 = 318.09 ft.

When the rise is known, the horizontal distance is approximately the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance $= 302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.

NATIONAL
ZINC #3

COPY

7530-00-222-3521
FEDERAL SUPPLY SERVICE
(GPO)

2/22/02 →

LISA ZEMBA - USS Atty.
#412-433-2909

DAN Lanelli - x7450
216-584-8244

10 Acres
43,560 x 10 =
435,600 sq ft x .5' depth
217,800 cft
= 8,066 CY.

ID -
~~$3200 left~~
OF 4/15/02

3/15 1900's.
508,124.01

3/22
528,260.46

3/29
$550 856.69
415 - 562,987.78
~~Dirt/Rock tickets.~~

DAL - ~~Eric - Aphalt/H2O water - sewer~~
~~H2O meter ; 2 sections of~~ complaints.
Rose
573 - 325 - 4993
1900's (meas 4/5 ; 4/12 original)
- next ow →?

Lots counts for 103
4/18, 4/19, 5/2, 5/3, & 5/4.
~~Also meas for 5/11~~ 69
- Was ~~yellow~~ - took off yellow
- Rocky - Icc - (wood) P. Jones, Dempsk
~~Once cons up.~~ H2O meter equip in office.

2/22/02 - IT on site @ 7:00 -
4 IT Trucks - Bill & Dale - RMI -
Dale knick will be taking over for
Bill As the response mgr. HAD
safety mtg - Smitty/Huck - op -
will run the Link Belt & Kobelco
track hoes - will put bridge in to
repository - Smitty will Also use
the D-4 to smooth out Roading
into the Roseo grounds & the repository
4 - Volvo truck Drivers - White/Barry
John/Davis - instructed to warm up -
equipment And ensure working fine -
maint. was to be done on equip. over
the break - Rush will work on 1900's.
As PISA - Bill & I discussed over break
About utilizing the PISA in conjuction
w/ Another site. The one Kobelco
track hoe is still on-site - has not
yet been sent to either Newton Cty
or Hertz. Bill took Dale on A
Drive by of the site - including the borrow
Area. Will begin exc. in cell #42 And
#35 - will DO An Additional 4-6" from
#35 - the post-exc sample came back @
458 ppm. All equip fired up ok. Moved
pipe that had been stockpiled west

Rodeo grounds entrance to the repository. Decided to exc ≈ 4-6" more from cell #36 also since post-exc. XRF sample was close to 400ppm. Smith started exc. cell #42 @ 8:40 - will start shallow exc. @ west end - then tie in the east end into cell #43. Huck begin exc. cell #35 @ 9:00. Whitt moved on the D-4 @ 9:30 to smooth out the repository and knock the piles down. Bill will call Hertz to come and get the kobelco track hoe - they will not use @ Newton City. Lunch break from 12:00 to 12:30. Whitt utilized D-4 until lunch. After lunch he started back @ TD. Prepared sample supplies for #42 & 35. Turned on XRF to self calibrate. TD called from Atlantic - gave her an update. Reviewed emails during lunch. Smith completed exc. @ #42 @ 13:00 - collected 9 Aliquot sample for screening - Barrys truck ran out of fuel @ 13:00 - refueled - but having to bleed pump injectors. Barrys truck running @ 14:00. Huck completed cell 35 @ 14:00 - pulled sample - very stiff clay. D-4 was utilized @ 14:15 to knock down piles @ repository. Fuel truck came and fueled all vehicles - one Volvo is having a problem w/ the brakes - Bill/Dale said ok to continue to run - they notifies mechanic. Sample from cell #42 was fine. Smith moves to cell #56 and started exc. Huck exc. additional material from cell #36. Allowing sample #35 to dry more to make homogenity easier. Smith completed exc of cell #56 - pulled 9 Aliquot sample. Discussed w/ Dale: Bill staying on another person - very dusty conditions right now - Dirt @ entrance is a fine powder - Dale believes we need a larger dozer - like a Dale to stay up w/ the repository - it would also cut a path @ the Rodeo grounds that would be smooth - that is what the TD's would drive over - we could keep it H2O'd down so dust would not be a problem. Huck completed the majority of the re-exc. of cell #36. Road was H2O down. IT shut down @ 5:30. Checked voicemail - left site @ 5:50.

Jeff

2/23/02 - Sat. IT safety mtg @ 7:00. 3 IT trucks Dale - RM, Rusty, PBA - Bill C is demobing today. Smitty/Huck - op. on the Link Belt; Kostelio tracks hous. Bang/Wyatt/Dennis/John - will be driving the 4 Volvo trucks - will also hit the roads w/ H2O this AM for dust control - temp will be in upper 60's. Discuss w/ Dale another op for dozer/H2O truck - he will move in this area prior report to work tommorrow morning - IT has not get lines up the D-6 - I mentions a closed cab for the cold weather - My will see if one is available. Smitty starts exc. in cell #57, Huck is completing exc in cell #36. H2O truck got stuck @ 7:45 in Rosco Grounds - ~~brought D-4 down to pull out!~~ - used chain & track hoe to pull out @ 8:02. pulled sample from cell #36 @ 8:10 - Huck moves to cell #49 to complete exc - it is ≈ 1/3 of the way exc. Samples from cell #56 & re-exc cell #36 came back clean. Smitty completes exc. @ cell #57 @ 10:30 - I collects 9 Mizpot sample - exc. depth was 1'. - he moves to cell 58 & starts exc. Dale pers the D-4 @ the repository to keep the piles knocked down. Huck completes exc. @ cell #49 @ 11:00 - I pulls a 9 Mizpot sample - exc depth 1'. he begins exc. cell 50. Cell #36 sample was clean. IT lunch 12-12:30 Dale discusses using Rusty as PBA & driving H2O truck - he has done before - ∴ on-site full time doing both jobs. Huck completes cell #50 @ ≈ 3:15 & moves to cell #68 - will only dig ≈ 6" in this cell - last sample was 420 ppm. Dale continues to H2O the Rosco Grounds & repository haul roads in the afternoon. Smitty completes #58 @ 3:20 - I pulls 9 Mizpot sample - depth ≈ 10" - 12" - he then moves to cell #59. pulls sample from cell #50 @ 4:00 - exc. was ≈ 1', Serenus samples cell #49 & #57 - both came back clean - cell 49 was reading in low/mid 200 ppm. will allow cell # 50, 58 to dry overnight. One TD shut down @ 5:10. Huck has ≈ 1/2 of cell 68 exc. Smitty completes ≈ 1/2 of cell #59 exc. IT shut down @ 5:30 - will start sun. morning @ 7:00 - will fuel as needed - fuel truck to come Mon. left site @ 5:45 XJP

2/24/02 - Sun - IT on site @ 7:00 - NO START - 3 IT trucks - Mike Bixby misses in yesterday to start today. Dale-RM, Rusty - PBA, Huck/Smitty - Koselco; Link Belt excs. - Huck will complete cell #68 - Smitty will complete cell #59. Whitt/Barry/John/David - All Driving Volvo trucks. Mike will run the D-4 to peel off the repository - Dale still trying to get a D-6 w/ closed cab. Has safety only - Discussed fuel - most around 1/2 tank - will notify Dale when they need fuel. Advised TDs to not run over the instrument point in cell #86. The TDs were sticking quite a bit yesterday @ the repository - had 2 stuck that were pulled out w/ tow rope. The TDs were told to slow down to keep the dust down - Don't want them rushing back to the exc. to just sit & wait - to better time their haul's. I homogenized and screened samples from cells 58 & 50 - both CLVD. cell 50 & 49 were in the low to mid 200 ppm range - ∴ informed Dale & Huck that when we exc. 37-39 & 51-53 we would go a little deeper. Huck completed #68 @ 8:45 - began exc #69. I collected a 9 Aliquot sample from cell 68 @ 9:00 - exc depth from 6-8". Smitty completed exc @ cell 59 @ 10:00 - he then moved to cell 60. I collected 9 Aliquot sample from #59. Exc depth was 7". Discussed w/ Dale moving Smitty to the SW corner to start exc. #138 - since the row he is on is so powdery - lots of dust slowing to the N. over our exc. areas. - then we can continue to H2O down that row or wait until it's some moisture on it to start exc. - will likely shift after lunch. IT lunch 12-12:30. After lunch - Smitty moves to cell #138 to start exc - Dale and I flagged the corners of the clean cells - will exc the SW corner to a depth of 6". Smitty was ≈ 1/2 of the way done w/ exc #60. Huck completed #69 by 12:50. I collected a 9 Aliquot sample @ cell #69 @ 13:00 - exc depth was 6" - 10". Huck moved to cell 70 & began exc. Spoke w/ Mike Rey plans for repository - plan on meeting w/ City tomorrow to discuss. Smitty completed cell #138 @ 15:00. Collected a 9 Aliquot sample from cell 138 @ 15:30 - exc depth 6". Smitty moves to cell #125. Huck spotted the gas line while Smitty exc - Depth appears > 12". Huck completed

exc. cell # 70 @ 16:15 - he then moves to cell # 71 to begin exc. exc. depth 6"-10". I collects A 9 Aliquot sample from # 70 @ 16:45. It shut down @ 5:30. I prepares list of residents/ property owners South of the Rosco Grounds. Screens samples from cells # 68, 69 & 138 - All came back clean - # 138 was in the mid to upper 100's ppm - mg need to go A little deeper in other cells in that area. Have cells # 70 & 59 to screen in the morning. Left site @ 6:20.

J.F.

2/25/02 - Mon. I safely mtg @ 7:00. 3 IT trucks on site. No START. Dale - PM, Tracy - PBA, Mark/Smitty - on Link-Belt & Kobelco track hoes exc. @ RG. Mark will complete cell # 71 & Smitty # 125. Whitt/Jerry/John/David - TDs on vehicles hauling soil from the RG to the repository. Mike - op - on D-4 - keeping haul roads in shape and grading of the repository - Large D in weather - overcast & cool today. I screens samples from cells # 70 & 59 - both came back clean. Dale updates me on D-6 - Hertz has one in St. Louis - we would only pay mile from Tulsa - IT also has some - but they didn't know mileage costs yet. Rosty still working on getting A copier. Do not yet have A 1900 - last one is from 1/18. Mark completes cell 71 @ 9:00. I collects A 9 Aliquot sample from # 71 @ 9:10. exc depth 6-10". Smitty completes # 125 - then moves to # 124 to exc. I collects A 9 Aliquot sample from # 125 @ 9:20. exc. depth was 6" to 9". Contacted Becky Brown @ City Hall - Asked if he/Eric Ely - city supt. - were available to view the repository - they will stop by today. Mark encounters A foundation in

cell # 72 - tells him just to exc. it out
not the entire cell to a deeper depth.
Met w/ Becky Brown; Eric Ely - updated
them on Roseo Grounds & removal progress.
Went and toured repository. can utilize as
much ground as necessary - to the west to
the power poles, to the east to the rr
tracks. Agreed a good gravel cap would
be easier to maintain and more beneficial
for the city than all grass covered.
Also discussed placement of the soil to the
SE of the current repository - the area
is low and wet. I said we would
evaluate. They felt the project looks
good and were pleased w/ the results.
Drafted an off-site approval ltr for
Lexington #2 - emailed to Carol T. IT
lunch from 12:10-12:40. Spoke w/ ID.
She will plan on heading to site Thur.
morning. Met w/ Mike to discuss the repository -
the cattail and grassing - will discuss w/ the
city the 2 concrete structures to the east -
could utilize that area to provide a good
break for the drainage - it already has a
natural break there that would be best
for us to utilize. Hack completed cell #72
@ 13:00 - he then moves to cell #73.

I collected a 9 Aliquot sample from cell
72 @ 13:30. Exc. depth was 8"-12".
Smith completed exc. @ cell #124 shortly
after 13:00. - he then began exc. cell
#110. I collected a 9 Aliquot sample
from cell #124 @ 13:45. exc. depth
6"-9". Fuel truck arrives @ 15:00. Met w/
Eric Ely - discussed the 2 concrete structures
and the repository. He would like to see the
structures removed and agreed it made
sense to lay out the repository that
way. City gave approval to take down if
that they are on city property. I went
to courthouse to purchase map of
the old smelter property - it shows R.R.
r/w and that the structures city on
city property. cost of map - $5.00 -
obtained receipt. New copier was
delivered @ ≈ 15:45. Smith completed
cell #110 @ 16:15 and moved to cell #141 -
which has a level of 407 ppm. A shallow
≈6" exc is what we will do. Drivers were
instructed to stay off the clean cells to the
west and the clean portion of #99. Hack
completed #73 @ 16:35 and moves to
cell #82 - entrance along west side.
I collected a 9 Aliquot sample from

cell #110 @ 16:45. exc. depth was ~6".
I collected A 9 Aliquot sample from cell
#73 @ 17:00. Exc depth in cell was
10" - 12". prepig samples collected today -
will Allow to dry overnight - results
1400's for 1/25 & 1/31 from Rusty @
17:00 - the 1/25 was Already been
finished. IT started shutting down
equip @ 17:05 - snow started to
fall more heavily - the edges of the
plug for the pump had been covered -
could not remove. Left site @ 17:50.
I did utilize my IT radio today -

2/20/02 - Tue - IT safety mtg @ 7:00 - Bitter
cold today, 3 IT trucks on site. No
START - Dale - RM, Rusty - PBA, Huck &
Smitty - op. on Link Belt & Kobelco exc.
Huck continues to exc. cell #82, Smitty will
be in cell #141. Whitt/Barry/David/John -
4 TDs on volvos - hauling dirty soil from
~~repository to the RCS~~. the Rodeo grounds to
the repository. Mike - op on the D-4 -
wetting the soil @ the repository. Rusty
went to get plugs for the pump on the
H2O truck. I screened samples from
cells #124, 125, 110, 71 & 72. All came
back < 400 ppm. Allowing sample from cell
#73 to dry more thoroughly. Dale inquired
cost of mose for the IT D-6 from Fort
Lawton would be $900. I Asked to compare
costs from other companies - concerned w/
maint. of IT equip. 2 of the volvo
trucks are identifying problems by error
codes - reg. transmission turbo. Dale
called IT maint to describe the problem.
Smitty completed cell #141 @ 9:00 - exc
depth 6". he then moves to cell #142.
I collected A 9 Aliquot sample from cell #141
@ 9:30. took to command post to dry.
Screened cell #73 - sample < 400 ppm.

Reviews 1900's for 1/20 : 1/31 - the 1/25 WAS already seen finalized. Will need numerous changes on personnel - mostly sig from up to TD. The equip list was ok. Missing 1 invoice for hotel charges - covers mostly December. Still have not placed the majority of Nov or any of Jans hotel charges on a 1900. The Draft 1/31 1900 will also need similar personnel changes - the equip is other was fine. Hertz arrives to replace filter on H2O truck - also doing scheduled maint. on D-4 & Icorbelco - ∴ the equip is having some down time. Discussed again w/ Dale concerns over mobe charges for the D-6 - I believe equip could be located closer w/ less of a mobe charge - problem that it has is that since in bankruptcy - some firms may not deal w/ them. Huck completes cell # 82 around 10:30 - then moves to cell 83. I collects a 9 aliquot sample from cell 82 @ 12:15. exc. depth was 6-10". Smitty completes cell 142 @ 11:00 - then moves to cell 143. I collects a 9 aliquot sample from 142 @ 12:30 - exc. depth 6". IT lunch @ 12:15 - 12:45. Discussed the 1900's w/ Rusty - Dis that we need.

He will make them - then likely do one 1900 for 2/1 - 2/22 - since not alot of site work occurred during that time. I informed him I wanted the 1900's caught up to at least 2/22 by the time I leave on Thur. Called Randy Brown & left message. Rusty indicates that they would obtain the D-6 from Hertz - would be an open-ended - mobe cost would be $150.00. Hertz mechanic done w/ on-site maint. by 13:00. Huck completes cell 83 @ 14:40. I collects a 9 aliquot sample @ 14:45 - exc. depth was 6-10". Huck then moves to cell #96. Smitty completes cell 143 @ 15:00. I collects a 9 aliquot sample @ 15:30 - exc. depth 6"-9". Smitty then moves to cell 127. I requests of Eric Ely w/ the city if we could park our H2O truck inside their garage overnight - he graciously allowed us to do that - Dale took the H2O truck down to the city garage. Spoke w/ Randy Brown - discussed the status of NZ removal - they will be down next week to pull MW's - has a conflict w/ their schedule. He is having a mtg w/ PRP - Solomon Smith Barney rg the draft order for NZN - in early March

he hopes to have it in Cherryvale w/ the city present. Rusty made changes to the 1900 - the 1/25 was Mirecky finalized - the 1/31 was a draft - he did not deduct any time while he was here w/ the mechanic for repairs of the Volvo's - I do not feel I should pay for his time to babysit/run errands for the repairman - he also did not deduct the 1.5 hrs for running John to the Dr. - for an exam for an injury from another site. The 1st truck shut down @ 17:13, the 2nd @ 17:16. Smitty stopped exc. @ 17:19. Huck is 2 truck loads w/in completing cell #96. Smitty has > 1/2 of 127 exc - he expects it will be done by 9:00 tommorow morning. Dale wants to wait a few days to knock down the concrete structures due to the cold. Mike is in an open cab dozer, let him get warmed up @ night. Continues to homogenize samples. IT off site @ 17:30. Noted comments on 2nd draft of 1900 for 1/31. Signed 1/25 that was Mirecky finalized; left for Dale. Leaving site @ 6:30 - ∴ 1 hr. OT.

2/27/02 - Wed. IT safety mtg @ 7:00. 3 IT trucks on site. NO START. Dale - RM, Rusty - PISM, Huck/Smitty - op. running the Koselco & Link Belt trackhoes. Smitty will continue to exc #127, Huck will be in #96. Provided both A Grid map w/ the PB limits prior to exc. Whitt/Barn/David/John - TAs on volvoes. Mike is an op. on the D-4. Expecting the D-6 to arrive late today or tommorrow. Informed Mike that Kidde will not be on site this week to Abandon wells - but next week - he states that he could work around the MW. Dale: Rusty went to the city maint. garage to get the H2O truck. I'm prepping samples and calibrating the XRF. Screened samples from cells 141, 142 & 82. All came back < 400 ppm. Provided comments on 2nd draft of 1/31 1900 to Rusty - still needs him to deduct 1.5 hrs for himself when taking John to the eye Dr. - also delete his hours for the 1/20, 21 & 22 - while here w/ the mechanic - he called Bill Cathey and asked him if hours were billable to us - Bill said no. Rusty finalized the 1/31 1900 - he made the 1.5 hr change & deleted the 1/20 hours -

He did not delete hours for 1/21 & 22 - I inquired why - he forgot - I went on that And signed the 1900 - Rusty said he will make the adjustment on a future 1900. Dale left site @ ~8:30 to go visit the Wisonna Post site - he plans on returning by 3:30. Huck completes cell #96 @ ~8:00 - then moves to #97. I collected a 9 aliquot sample from #96 @ 9:45 exc depth was 6"-12". Smitty completes 127 @ ~9:00 - moves to cell 128. I collected a 9 aliquot sample from #127 @ 10:00 - exc depth was ~1'. Screening samples from cells 143 & 83 - both came back fine. Fuel truck came around noon - Driver was upset that we had not utilized the majority of fuel from our tank. IT lunch break 12-12:30. The site was watered down in the morning - Rusty was H2O'ing again @ 13:00 - Dust is minimal today, Huck completes cell #97 @ 13:15 - he then began exc. cell #98. I collected a 9 aliquot sample from #97 @ 13:20 - exc depth was 6"-12". Reviewed draft 1900 for 2/15/02 - looked good - no changes necessary. Smitty completes cell #128 @ ~14:00 - then moves to #129.

Collected photos of concrete structures that are to be removed at the repository. Also collected photos @ the Rosco Grounds. ID called, discussed budget - her #'s are different than what I have. She will double check and call back. Dale returned back to site @ 14:30. Utilized H2O truck to hit the repository and haul roads. I collected a 9 aliquot sample from #128 @ 15:15. exc depth was 6"-9". ID called back - START currently $5000 over budget. - the report I recently seen did not include seagull costs - billed > 75,000, but budget is 70,000. I will add $ to cover additional START support. Dale & Rusty took H2O truck to city garage. Rusty changed 2/15-1900 to include up to 2/22 1900 - Reviewed draft - only comment was on the Link Belt exc. - it is a contract item - Dale said - Bill states it would be a monthly rental. I asked that the equip. list seperate the Link Belt from the Kobelco - Rusty said he would do - the only equip I have that I pay for fuel is the water truck. Huck completes cell #98 @ 17:00. Smitty is 2/3 of the

WA done w/ # 129. Huck starts exc. # 84. Dale asks if we could use the soil from the clean cells to fill the cisterns - Agreed that made sense and will enable us to better grade the Rodeo Grounds @ the ends of the job. I collected a 9 Aliquot soil sample from #98 @ 17:10. Exc. depth is 6"-12". Contacted Harold Riell, rep. the ~~Rodeo~~ Fairgrounds - he gave verbal ok to sample - Told him we would like to do it w/in the next week or so - I will call him when we are done. The D-6 is not expected to arrive until late Thur or early Fri. IT left site @ 5:30. I screened cell #96 - came back ok. Went and met w/ Ms. Tyler @ 726 W. 3rd - she lives south of the Rodeo Grounds - I explained our removal action and asked if she was interested in us obtaining samples to see if property is contaminated - She would like for us to sample - gave verbal permission. I left her an Access Agreement to review. Screened sample #127 - levels ok. Attempted to contact the Cushenberrys again - no answer - Left site @ 6:50

2/28/02 - Thur - IT safety mtg @ 7:00. 3 IT trucks on site. START to arrive this morning - Dale - RM, Rusty - PBA - they went to get the H2O truck from the city garage. Huck/Smitty - ops on the Kobelco Link-Belt track hoes. - Huck will continue to exc #84, Smitty will complete #129 this morning then move to 154. Whitt/Barry/David/John - TDs on the 4 volvox. Mike will op. the D-4. - he asked when the D-6 was coming in - not for sure - Spoke w/ Roy C rep START - he was not aware that the Seagull Sill was not inclosed and that we are over budget - he will email me the IGCE & TO to amend. LM for Carol rep. WAR - prepared sample #97 for screening. NA @ the Cushenberrys @ 7:20. I flagged off the clean cells @ the south ends of the Rodeo Grounds - evaluating whether to add another cell @ the S. ends of #153. Smitty completes exc. of #129 @ 7:45. Screening samples 97, 98, & 128 - All came back ok. Drafting IGCE & TO order - Rec'd emails from Roy. Signed off on

2/22/02 1900 - total cost to date is $377,889.64 - As of 2/22. Completed polyp #11. Contactor Peter Hayton @ ICDIHE re: property lines to the South of the "Pondmonia" - 700 W. 2nd Randy Brown believes they sampled that property and didn't come up w/ anything. He will check his field sheets & logs and fax me down whatever he has. Emailed polyp; Titli order w/ IGCE to Carol T; Roy C. Went to hotel to work out. Made reservations for 3/11; 12 - when I plan on returning to the site. Hertz came and picked up the Kobelco exc. @ 10:15. Peter Hayton faxed field sheet; DATA on 700 W. 2nd - All levels well below 100ppm. Huck completed #84 @ ~ 10:30 - moved to #85. Smith completed 154 then began exc. #149. I collected A 5 Mizvot sample from #84 @ 11:45 - exc depth 6" - 9". I collected A 9 Mizvot sample from #129 @ 12:00 - exc depth was 6". Located new cell 158 in the SE corner - split off excess portion of #153 - we will exc 153 then screen 158 to determine if exc. is necessary. IT lunch break @ 12:05 to 12:40. ID arrived on site @ 13:00.

She provided me A copy of costs through 2/24 - $75,607.31 - this is ≈ $5000 over budget. I informed her that I was put together An Amendment. We discussed progress of removal. She will screen the Pondmonia; Ms. Tylus grass, collect background samples for HRS, complete videotaping of the residential areas and collect DATA of exc. cells - w/ documentation of ERRS activities. I signed off on 1900 for today - 2/28 - ∴ we are up to date on the 1900's. - cost to date for ERRS @ 414,000 - will have to closely evaluate whether An Action Memo is needed. Met w/ DMR to discuss site progress - left site @ 13:45 to head to KC. Arrived @ Sage @ 16:05 - then to house

3/1/02-Fri- I was not on site- ID present for start. IT - 3 trucks - hrs 7-5:30. Dale-RM, Rusty-PTA - op - Huck/Smitty/Mike - 2 truck hoes; Dozer - White/Barry/John/David - TDs. The D-6 Dozer arrived today around 13:00. ID called w/ update. She is checking into Aerials & costs. The samples I pulled yesterday - #84, 129 came back clean. - she sampled cell 158 & it was clean - ∴ no need to exc. She pulled samples from 85, 99, 149 & 154 - All came back clean - she will sample #113 as it is completed - All equip is running fine - she has not yet collected the background samples for Kamp or done any of the Ponderosa or Tyler yards yet.

3/2/02- Sat - I was not on site - ID on site for start - very cold - still snow. IT - 7-5:30 - 3 trucks - Dale, RM, Rusty - PBA - Huck/Smitty/Mike - op. Barry/White/David/John - TDs - Spoke w/ Dale All equip running fine - not cutting site to day. Running D-6 today. Spoke w/ ID - samples came back fine from 113/144 & 150. She has sampled 60, 100, 114, & 145 - currently exc 61 & 86.

3/3/02 - I was not on site. ID present for start. IT - 3 trucks - hrs 7-5:30. Dale - RM, Rusty - PBA, Huck/Smitty/Mike - op - 2 truck hoes & 1 D-6. White/Barry/David/John - TDs. Spoke w/ ID @ 17:00. Equip running slower due to cold. ID collected 3 of the 4 BG samples for KAMD for H2S. Samples from cells 60, 100, 114 & 145 came back clean. Cells 61 & 86 - the exc has been completed. - currently exc. cells 74 & 87 - will only complete 4 cells today - ID says one exc still backing up. Heat is to come tomorrow to work on - it is the same kobelco they just changed the filter on last week. Also switching out A H2O truck since the one we have is not running properly according to Dale. ID will start grading off the Ponderosa tomorrow.

3/4/02 - Mon - I was not on site. ID for start 7-5:30 IT - 3 trucks Dale - RM, Rusty - PBA, Smitty/Huck/Mike - op. White/Barry/David/John - TDs -

3/5/02 - Tue - I was not on site - ID for START. 7 - 5:30 - WS. IT - 3 trucks - Same crew/tasks. Spoke w/ ID. - Hunt was on site yesterday & today working on exc. Receives replacement H20 truck. Work is going slow - due to cells & exc. not running properly - exc. was running smooth in afternoon. Cell 86 was to be re-exc. because post-exc sample came back @ 410. The following cells exc. yesterday & today and came back clean 86, 87, 74, 75, 101. Currently exc. # 115 & 62. ID plans 8 cells @ the Pondmost & will sample tommorrow.

3/6/02 - Wed - I was not on site - ID for START 7 - 5:30 WS. IT - 3 trucks. Same crew & tasks. Equip working good; exc more today than the last couple cells that have been exc are - 115, 63, 88, 76 - and began exc # 89 & 77. cells that came back clean are: 115, 62. The Pondmost has been sampled. 7 of the 8 cells > 400 ppm - levels up to 770 ppm - I will discuss w/ Mr. Rielly. ID HE on-site today pulling the MW's. Hunt will work late tonight knocking down 1st concrete structure - Mike will also stay late using the D-6 on the Rodeo Grounds. An estimate from a pilot for $120/hr for an overflight to take pictures. - he flies out of Inyokern which is less than 5 minutes away - less than an hour - uncertain of what type of camera he has. - ID will discuss w/ him. ID will screen Mr. Tyler's YARD tommorrow.

3/7 - (Thur) → 3/10 (Sun)
The 7, 8, 9, & 10th - I was not on site - ID was present for start. Did sample Mr. Tyler's - All 4 Quads < 400 ppm. Got verbal access from the Cushenberrys - Sampled 4 Quads around house - All < 400 ppm - Cushenberrys would like to have the rest sampled. Same IT crew & tasks & hours.

3/11 - Mon - spoke w/ ID - update on cells completed - have & 35 left to exc. Gravel will be brought in today for around Catherine ID will report site around noon - I arrived @ site @ 18:00 - site secure - composite looks good - received copies of signed 1400's - Same IT crew & hours. Commenced # of cells completed 3 loads rock brought in.

3/12/02 - Tue - IT safety mtg @ 7:00 - no START on-site today. 3 IT trucks. Dale - RM, Rusty - PBA, Hack/Smitty - op. on Koselko & Link Belt track hoes. Hack is exc. in cell # 104. His Link Belt lost a roller - expecting the part in soon and will have it replaced - it has not slowed him down. exc. Mike will continue to use the D-6 to grade off the repository. he placed stakes to assist w/ grading. I signed the 3/1 1900 final - missing 2 hotel invoices. Rusty will not prepare the 3/2 & 3/8 1900. Barry is @ his physical this morning - his truck is also down w/ bad air lines - IT mechanic is to be out this morning to repair - it is supposed to be done by the time Barry returns. The city stopped by yesterday - At our entrance to the repository off of Martin their is some H2O standing - may be a small leak - the city indicated their is a 2" PVC potable H2O line. A 12" main - potable H2O line that goes to the west. One of the city employees stated he lines out that way and has not noticed a loss in pressure - I noticed no H2O there last night - but there is some there this AM. The city spoke to check for smell of chlorine - Dale did this AM and smelled no chlorine - he will call Eric for the city to come and look @ - we have gravel that we can add to it. The 3 TDs that started @ 7:00 are Whitt / David / John. I pulled a 12 aliquot sample from #103 @ 8:00. Smitty began morning exc #134. I pulled a 12 aliquot sample from #133 @ 8:20. IT mechanic began work on Volvo shortly after 8:00. Dale met w/ Eric @ repository entrance - Eric not concerned w/ H2O line @ this time - he asked to keep an eye on it and he will also. Dale is ordering more rock for the repository entrance - 2 loads ordered. Called Jodie Cosenberg & left message. Calibrated XRF - taking in-situ readings of #104 - range from ND (<40) to 5600 ppm - over 2' of soil is being exc. Smitty completed cell #134 @ 10:15 - he then moved to cell #136. I collected a 12 aliquot sample from #134 @ 10:30. exc depth from 6" to 1'. Rick Bean, Randy Brown - w/ KDHE and representatives of the state identified PRP's stopped by and toured the

site. I met them in the office and described the removal action — both the residential yards, the Rodeo Grounds, the Sorrow Area & the repository. Some of the questions asked included how many yards, the cells @ the RG, type of sampling, action level. The cost of the removal was not discussed. The only concern one of the individuals had was that we did not place the exc. soil over the highest contamination areas @ the smelter property. I explained that we screened the area before placing the soil there and that the levels are all in the 1000's ppm. The individuals never introduced themselves — but did take my business cards. They thanked me for the info. Then went to tour the smelter grounds w/ KDHE. Barry shows up @ 12:30 to start the day. The mechanic finishes the work on the Volvo — ∴ went 1/2 the day w/ only 3 trucks. The mechanic says the brakes working well enough to run another week or two on. I starts digging after lunch @ ~12:45. Dale hitting the site w/ H2O. Spoke w/ Jodie Cushenberry re: her results around the house — all 4 Quads < 400 ppm. I will meet w/ her @ 6:00 tonight to discuss removal options. Steve w/ Mineral Agis called w/ questions reg. IT and the bankruptcy. Hack finishes cell #104 before lunch — then moves to cell #118. I pulled a 12 Aliquot sample from #104 @ 13:45 — exc. depth ~2'. Also did some in-situ screening @ #118 — all levels < 80 ppm — other than one in a small pile of cinders — which was ≈1900 ppm — Hack will further exc. that area. Smith completes #136 @ 14:00 — then moves to #137. I did some in-situ readings — all well below 400' except in a dark sediment running east/west — levels > 400 ppm. Has Smith exc another 4"-6" from seam down to orange clay — levels then ND. I collected a 9 Aliquot sample from #136 @ 14:40 — exc depth 6"-9". Runs em/um — spoke w/ Carol T — my ETS is still down — revised draft 3/8 1900 — no moss — only 7 reg hrs — on 3/6 one of the TDs only worked partial day due physical ∴ crew had 2 days w/ only the 4th truck 1/2 of the day. Hack completes

cell #118 @ 17:00 - I collected A 12 Aliquot sample @ 17:15 - exc depth: 2' truck shut down to fuel - so did Smitty: TDi @ 17:15. Smitty completed #137 ~17:05 - @ 17:30 I pulled A 9 Aliquot sample from #137 exc. depth 60" - 1'. ∴ pulled 7 samples today - w/ 5 cells being completed for exc. - the other 2 cells exc. was completed yesterday. IT off site @ 17:30. I screened #183 - came back = clean. Spoke w/ Bill Craig status of removal. Went to meet w/ Ms. Josie Cushenberry @ 18:15 @ her house - Showed her the results of Rodeo Grounds work and the sampling results from doing the Quads around her house - discussed whether she wanted beyond the 50' limit samples - Both agreed not to proceed w/ any further sampling due to the fact that the samples around her house were clean and that the perimeter at the South end of the Rodeo Grounds was clean except for one cell - #154, which had a level of 408 ppm - I will provide her a map showing the house and the sampling Quad results - Leaving site @ 19:20

XOX.

3/13/02 - Wed. IT Safety mtg @ 7:00 3 IT trucks - No START on-site. Doyle - RM, Rusty - PBA, Chuck/Smitty - op on track hoes. Mike - op on D-6. Whitt/Barry/Mohn/David - TDi on volvo's. I'm preparing samples for analysis. Doyle: I discussed demobe for a break for the workers crew has been working 3 straight weeks - no time off - plus rain forecast for Thur 3/14 - Sun 3/17. ∴ agrees to demobe on Fri morning 3/15 - and remobe to site on Tue 3/19 - to begin work on Wed. 3/20. Also updated him on discussion w/ Cushenberrys - Spoke w/ DD - updated her on status - will talk w/ her on 3/20 to decide on when for her to return. I screened samples #133, 104, 134 & 136 - All came back clean. Smitty exc. cell #123 - truck is exc cell #119. went to hotel to check out and make reservations for tomorrow night. Drove out to borrow area. The city placed a concrete & corrugated metal pipe in and replaced the Rockbridge - A contractor is abandoning the oil wells out there. Met w/ Mike

@ repository AMS discussed the placement of contaminated soil - the repository looks good - not very noticeable - it will blend in well. Smitty completes #123 @ 11:30 - he then began exc. #122. I completed cell #123 @ 11:45 - 12 aliquot sample. - exc depth was 6"-12". Huck has nearly completed #119 - not ready for a sample though. - Dis some in-situ readings - All well below 400 ppm except where the fine grained, loose dark black dirt is located. Screened sample #137 - it came back clean. Called Ms. Tyler - left her a message re: the sampling of her property and that I would like to meet w/ her tommorrow night. Signed off on the final 1900 for 3/8 Informed Dale: issue that I would be gone until tommorrow morning. Dale & I discussed different ways to backfill the ~~repository~~ RCG. once the exc is done & a sheepsfoot roller for the repository. We is est. 5 days after we return to exc. the RG. I left site @ 13:10 - no lunch.

RL.

3/14/02 - Thur - ARM was on-site @ 11:15. NO STAT on SITE. IT crew on site same as yesterday. Smitty completes 122 & 121 - Ann is currently exc. cell #109. I collected a 12 aliquot sample from #122 @ 11:30 - exc depth was 1'. I pulled a 12 aliquot sample from #121 @ 11:45. exc. depth was 1'. IT shut down for lunch @ 12:00. Huck HAS completed exc. of #119 & 105 - Ann is currently exc. #91. I collected a 12 aliquot sample from cell 119 @ 12:15. exc. depth was 2' to 3'. I collected a 12 aliquot sample from #105 @ 12:30 - exc depth was 2' to 3'. IT returned from lunch @ 12:40. Notified Betty Brown @ city hall of removal status - we will be shut down over the next few days. I spoke w/ Randy Brown yesterday re: the PRP visit. he said they went well and that they are on the path to sign up to an order. Screened samples #123 & 118 - both clean. Discussed site w/ Ken B - re: prp's. Action memo Amendment needs for xtra $. He is

Addy PRP info to the WPR.
Hack completes exc of cell # 91
@ 15:15 - I collected A 12 Aliquot
sample @ 15:45 - exc. depth 2' to 3'.
Hack moves to cell #120 AMS begin exc.
Smith completes cell # 109 @ 15:00 -
then moved to cell 108. I collected
A 12 Aliquot sample from # 109 @
16:15 - exc. depth 1'. Screened
samples 119, 121 - both came back clean -
exc shut down @ 17:00 - TD's
secured trucks & parked so maint. could
be done on them over break - picked
up signs AND All equip. removed bridge
into the repository so they would
drain - Also straightened up roads
@ Martin - All equip. secure & FT
off site shortly After 5:30. Still
Attempting to contact Mr. Rielly -
Screened #122 - it came back clean
LM for Alex Chen reg. Site Status -
spoke w/ Mr. Tyler reg. his results @
7th & W. 3rd - No removal needed - I
told her we would give her A ring w/
the results - she thanked me. Spoke w/
Harold Rielly reg. the Pondmost - we will
meet tommorrow @ 8:30 to discuss - left
site @ 7:10. ~~AJ~~

3/15/02 - Fri - checked out of hotel @ 07:00 -
make reservations for 3/20-25 AMS
Also for Sam Harris for 3/20-26.
Secured fence on west side of
Rosco Grounds - no FT or START
on-site. Called Reg C - ok to
do A.M. Amendment but not do A
task order for START @ this time -
should have sufficient $ for
START. prepping sample from # 105
for screening. Mr. Rielly stopped
by the office to discuss the
results of the "Pondmost". The
property is zoned residential - but he
is only utilizing it for pasture - to
keep cattle on - their is no
house or barn on the property - only
A barn AND couple of small sheds.
He does not intend to use for
residential - will only utilize As
pasture. The results from the 8
cells were as follows: A - 711, B - 483,
C - 428, D - 503, E - 490, F - 385,
G - 569, H - 503. Based on the levels
AND the fact that the property is not
intended to be used for residential - no
removal is warranted. I informed

Harris that I would provide him a copy of the map w/ the results. He was glad we sampled - And also that we are not removing any soil - he has a very good vegetative cover over the property. ∴ no additional residential yards to do - only complete exc. of the rodeo grounds. Screens sample # 105 - ok. Screens sample #109 - ok. Screens sample # 91 - ok. Drafted polrep #12. - Discussed w/ Carol T - she edit thy did my edits for last 2 pay periods. Spoke w/ Terri H - $ is available to amend action memo - Do not need to include indirect costs on polrep - ∴ I removed from polrep #12 - Drafted cost est. for Action memo amendment. Left site @ 14:30 - however - did not take lunch - Drove back to Dodge.

DJ.

3/16, 17, 18, 19 - No EPA, START or IT presence - other than maint. on equip by mechanic.

3/19 - Spoke w/ Becky Brown @ city - A little rain was receiving last night - some more expected today - but temps to be in the 60's tommorrow. Spoke w/ Dale - crew will move back today - start work tommorrow morning - 3/20. I received a letter from Hafe - but I did not mention to Todd. Continue to work on Action memo Amendment / cost estimate - completed and turned in to Carol T: Alex Chen.

DJ

3/20 - WED - Left Dodge @ 8:45 w/ XTRF to go to Cheyenne. Microtel called - they messed up my reservation - but we fixed over the phone. Arrived on-site @ 12:30 - IT just wrapping up lunch. 3 IT trucks - crew started @ 7:00. Dale - IRM, Rusty - PSA, Smitty/Huck - excs - Smitty completed exc of #108 then moved to #95 and began exc. Huck completed exc. of #120, then began exc @ #106. Mike on D-6 @ the repository - 4 TDs on volvos - Whitt/Barry/David/John. Fuel truck has not arrived yet. Mechanic completed most of the repairs - but still has some work to do - Rain did not impact the site. H_2O still standing @ Martin to intersection of the repository entrance - Does not appear to be worse than when we left. Provided copy of Hertz letter to Dale - thought they may send one to the city also. Both Rappleyn & Williams received the letters also for Newton City Wichita Post - I will discuss w/ the city. Informed Dale that A 30 amendment was on the way through the system. Dale brought up an issue the the Volvo trucks - the lease has expired on 2 of them - and they want to come and get them - can send replacements @ no cost to us - Dale does not get have a date for when they would come to get. We are getting close enough to finish that we may not need 4 trucks - 3 may be sufficient. I also mentioned to Dale about the 2 tires that were replaced on the Volvo's - the old ones are still @ the repository - he said the tire co. was supposed to take - he will get in contact w/ them to have them pick up. Spoke w/ Becky @ City Hall re: the ICDHE preps, the fence @ the Rodeo Grounds and them potentially receiving a letter from Hertz. I collected a 12 Aliquot sample from #108 @ 14:30. exc depth was 1' to 2'. I collected a 12 Aliquot sample from #120 @ 14:45. exc-depth was 1' to 18". Spoke w/ Randy Brown re: cover for repository - he said it would be best to discuss w/ Ross Wilson - call his him - he is out of office all week. Spoke w/ George Bolton @ the SEK-CAP office re: the R.G. - he is pleased w/ the progress - and believes development will

start once we complete our action and provide a clean bill of health. Smitty completes exc. of #95 @ 16:00 - then moves to #94 to begin exc. Met w/ Harold Riely @ the Powerstation he says his daughter wants to buy the property from him and build a house - but he prefer it not be dug up so he can keep his cattle there. I will meet w/ his daughter on Fri. I collected a 12 aliquot sample from #95 @ 16:45 - exc. depth was 1'. I collected a 12 aliquot sample from #106 @ 15:00 - exc. depth was 1' to 2.5'. Huck then moves to #107 and began exc. Huck shut down exc. @ 17:12 to fuel. Smitty shut down exc. @ 17:15 - completes changing bars of Barrys truck. All IT crew off site by 17:30 except for Dale, Smitty & Mike - Smitty uses exc to knock down concrete structure @ repository - Mike assisted the state mechanic repair the edges for his D-6 blade - Mike's time not-chargeable - All off site @ 18:30.

3/21 - Thur - IT safety mtg @ 7:00. 3 IT trucks on site - no start on site. Crew: Dale - RM, Rusty - PSA, Smitty/Huck - op - exc cells 94 & 107. Mike - op - D-6 - will start the day grading a haul road @ the RB and into the repository - cold today w/ a strong N. wind. Whitt/Barry/Davis/John - 4 TDs on volvos. Did not start dumping soil @ repository until 7:45 - slow start on the day - Rusty fueling equip - fuel delivery did not occur yesterday. Dale picks which trackhoe to use for clean cell exc - (to place dirt into holes left by exc the cisterns - doesn't really matter - other than I want to use the chopper exc. @ the Sorrow Area if it digs as fast as the Cinder Belt - Dale thought the exc. were the same cost - he will check. Screened samples 108 & 120 - both came back ok. HIS insitu screening in cells 94 & 107 - levels ok except in locations w/ fine, dark black soil/cinders. Spoke w/ ID reg comp to site next week. LM for Carol T re: WAR - also KB - reg Action memo Amendment & BT re using DAU for survey. Screened samples 95 & 106 - both came back clean. Next to

City Hall and got map of tracts surveys into the Rodeo Grounds property. took photos of the repository & exc. in the Rodeo Grounds. Huck completes #107 @ ≈ 11:00 - then moves to cell #92 to begin exc. I collects A 12 Aliquot sample from #107 @ 11:45 - exc depth was 1' to 2'. DT lunch from 12 to 12:30. Smitty completes #94 @ 13:15 - he then moves to #81 and began exc. I collects A 12 Aliquot sample from #94 @ 13:30. exc depth was 1' to 1.5'. LM for Dan Lanelli @ x7450 is assisting in the survey next week. Did some in-situ screening of #81 & 92 - All shots well below 900 except where small black-dark colored cinders/soil is located. - Smitty completes #81 @ 16:00 - he then moves to #80 and began exc. I collects a 12 Aliquot sample from #81 @ 16:15 - exc depth was 1' to 1.5'. Smitty shut down exc. @ 5:20 to fuel. Huck completes exc of #92 @ 5:25 - then shut down for the day. I collects A 12 Aliquot sample from #92 @ 5:30. IT off site @ 5:30. #92 exc depth was 1' to 2.5'. I left site @ 5:55 after prepping sample.

DJ.

3/22/02 - Fri - IT safety mtg @ 7:00. No START. 3 IT trucks. Dale - PM, Rusty - PBA, Smitty / Huck - op on exc - working on cells #80 & 78. Mike - op on D6 working @ repository. TDS - Barry / Whitt / John / David. Slow start to morning - did not notice trucks dumping until 8:00. A TL-26 (uniloaders) will be delivered to site this weekend to be ready to work Monday. LM for Mr/Mrs. Roberts @ 420 N. Liberty - will complete their gravel drive on Monday. 1 loads of rock was delivered this morning @ stockpiles @ entrance to the repository. I screened samples from cells #81, 94 & 107 - All came back ok. Dale says iterts may get their equip - some bills have not been paid. Dale & I discussed easter break - will plan on working 1/2 day next Thur - 3/28 - then drive back on Mon - 4/1 and start working on 4/2. I met w/ Mr. Hale - he is removing his A.G. pool - I told him that we can screen under it if he removes it soon enough - he would like for us to do that - he plans on having it down by Sat. - he was pleased

w/ the work we has done AND the repairs that were made to his shed - which has been damaged by the seeding subcontractor. Fuel man shows up @ ≈ 10:00. Discuss in-situ screening of cells 80 & 78 - All results well below 400 ppm except in locations of small dark black soil / cinder mixtures - appears consistent on the east end of the R.G. Took in-situ readings along the east side of the RODEO Grounds - between exc. Area & Catherine St. - along the fence line was numerous readings > 400 ppm - along the ditch AND adjacent to Catherine. levels were All < 400 ppm. Hack discovers A trash dump in cell # 78 - Dug it down several feet AND got the majority of it - it was not A cistern. D-6 busters A hydralic line before 11:00 - Hatt was called. Screens cell #92 - came back clean. LM for Eric @ city re: ditch along Catherine. CAROL T signs the Action memo Amendment has been signed by Alex AND NA w/ KTB. Smitty completes # 80 @ 12:00 then moves to #67. Hacks machine needed Antifreeze - up AND running Again @ 13:15 - but then Down Again - Dale believes it might be the thermostat. Hatt arrives @ ≈ 13:15 to begin working on the D-6. met w/ Mr. Tielly @ the Pondosa - He would like the eastern portion that runs along Catherine exc. I told him that we could do that - not likely to start until Mon. or Tue. met w/ Mr. Thompson - he was pleased w/ the results so far. Hacks machine up AND running @ ≈ 1400. Hatt left site @ 14:00 - to go get parts for D-6 ∴ it will be down for remainder of day. Mike will run the H2O truck AND pick up the plastic sheeting that was covering the clean soil piles. I collected A 12 Aliquot sample from # 80 @ 14:15 - exc depth was 1' to 2'. Hack completes # 78 @ ≈ 14:20 - then moves to cell # 93. I left VM for KB re: WAR. Spoke w/ DAN L - he is coming down on Monday w/ DAN H - I will make hotel reservations for him. I collected A 12 Aliquot sample for # 78 @ 14:45 - exc depth was 1' to 2.5'. One of the porta-johns was picked up yesterday - ∴ now only renting 2. Met w/ Mr. Kielly @ the Pondosa - obtained the written

Access Agreement from him - Also met w/ Mr. Roberts @ 420 N. Liberty - informed him that the gravel we will be on Monday. Smitty completes #67 @ 16:00 - then moves to #66 and begin exc. I collected A 12 Aliquot sample from #67 @ 16:15 - exc depth 1' to 2'. Did some in-situ screening of cells 66 & 93 - levels ok. Huck shut down exc. #93 @ 17:18 - mechanic was on-site to place on roller and check overheating. Smitty | John | Barry will work till 6:30 continuing to exc. #66. Hatt mechanic arrived on-site @ ~ 16:30 to begin work on D-6. Rusty, Mike, Davis, Whitt & Huck shut down and off-site @ 5:30. Smitty shut down exc. @ 6:25. mechanic fixes Huck's exc - roller placed on and believes overheating due to no Antifreeze in overflow bottle. Dale | Smitty | Barry | John offsite @ 6:30.

3/23/02 - Sat. ☐ Safety mtg @ 7:00 - No START. 3 IT Trucks - Dale - Ron - Rusty - PTBA. Smitty | Huck - op on truck moves - exc. cells #66 & 93. Mike - open D-6 @ repository - repairs were completed last night. Whitt | Barry | John | Davis - TD's on the 4 volvos. I screened the samples from cells #67, 80 & 78 - All came back clean. Did in situ screening of #66 & 93 - All results ok. I began flagging locations of cisterns in the field and also identifying on A map. Smitty completes #66 @ 10:00 then moves to #24 and began exc. Went to WM to pick up photos & food for lunch - provided lunch for crew. Huck completed exc @ #93 @ 11:00 then moves to #79. I collected A 12 Aliquot sample from #66 @ 13:30. Exc depth was 1' to 1.5'. I collected A 12 Aliquot sample from #93 @ 14:00. exc depth was 1' to 2.5'. Did in situ screening of #24 & 79 - All levels ok - except in #24 - the large Ø cast iron back - the backfill material around it is >400 ppm. Mike Doing A good job @ the repository. Smitty completes #24 @ 15:30. I collected A 12 Aliquot sample

exc depth was 1' to 1.5'. Smitty then moves to cell #25 and began exc. Huck completes #79 @ 16:00 - he then began exc. #65. I collected a 12 Aliquot sample from #79 @ 16:30. exc depth was 1' to 2'. I continued to place flags @ location of cisterns. Mike removes his AG swimming pool - the area around it was exc. due to contamination - it took 6 in-situ surface soil XRF screenings - the levels ranged from 150 ppm to 1100 ppm. The area sits lower than the surrounding - will have Dale look @ to see if it works work just to fill the area in. Did some in-situ screening in cells 25 & 65 - All readings fine except @ locations of small, fine dark black soil/cinders - consistent along this east side. Huck shut down @ 6:20. Smitty shut down @ 6:30. IT off site @ 6:40. office secure - left site @ 6:40.

3/24/02 - Sun - IT security mtg @ 7:00. NO START. 3 IT trucks. Dale - RM, Rusty - PBA, Smitty - op - will use Kobelco exc to complete exc in cell #25, then move to cell #65 to finish it. Huck will be deconning the Link Belt exc - it will be moved into the clean area tomorrow to start placing the soil from the clean cells into the cisterns. Mike - op on the D-6 @ the repository. Whitt/Davis/John will start the day at TDs hauling contaminated soil to the repository - Barry will be deconning his volvo - the 35 ton unit - then John will start deconning his Volvo. Smitty completes cell #25 @ 7:45 then moves to #65 to complete it. I analyzed the samples from cells #66 & 93 - both results fine. I collected A 9 Aliquot sample from #25 @ 8:20. exc. depth was 1'. Analyzed samples from Cells #24 & 79 - both came back clean. Finishing marking cisterns w/ flags and on map. Smitty completes #65 @ 10:00 - then moves to #51 and began exc. I collected A 12 Aliquot sample from #65 @ 10:20 - exc depth lets 1' to 2'. I did in-situ

readings in #51 - All levels of except location of dark black soil - Smitty will exc. those areas deeper. Left site @ 11:15 to have lunch w/ Alicia. I returned to the site @ 17:00. Smitty still exc. Both volvos was seen decontam'd & stored North of the Rodeo Grounds - Hucks exc. was decontam'd & moved to the west end of the Rodeo Grounds to begin exc. clean soil to place into the cisterns - ≈ 5 have been filled in. The Takeuchi was delivered to the site. We also utilized a pressure washer today to decon the equip. Smitty was completed the exc. of #51, & was ≈ 1/3 of the way completed of #52. I collected a 12 aliquot sample from #51. exc depth was 1' to 2'. Screened samples from cells # 25 & 65 - both came back clean. Left site @ 7:05

3/25/02 - Mon. - IT safety mtg @ 7:00. 3 IT trucks. Dale - PM, Rusty - DBA, Smitty/Huck - op on track hoes - Smitty will continue to exc contaminated soil - will complete cell #52 today. Huck will use the other track hoe to exc soil from clean cells to be placed into cisterns. Mike - op on D-6 @ repository. David/John - TD's on volvos hauling contaminated soil. Whitt - op on TL-26 - started the morning placing the driveway @ 4/20 M. Lisby - called Cheryl Valenzuela - Hy plan on moving the old trailer this weekend - also would like a gravel sidewalk going from the driveway to the porch for the location of the new trailer. One load of rock was ordered this morning. Barry will be a lab. Assisting Whitt w/ gravel - then removing soil @ MW's & guy wires @ the Rodeo Grounds - then removing pipe, slag etc. from Rodeo Grounds. ID to arrive today for start-up also Dan Harris & Dan Cauceli for survey work. I screened sample #51 - it came back clean. Emmert driver shows up @ 8:30 - gave

him a map and explaining how the cisterns are flagged - he will dump soil from the clean cells into the cisterns. I called and LM for Carl Hale - told him that we would place 3 to 4 loads of clean soil @ the location of his swimming pool after Easter, then add some seed. I checked out this morning from Microtel - they only charged me $26 for the 1st 2 nights - reason is because they billed my credit card for the 19th - which I did not make a reservation for - it was their mistake. I get billed to the credit card 5 nights @ $52 each - but that is not what my hotel bill will show. I will call Bec @ RTP to talk w/ her about screening samples in-situ @ #52 - results look good. Rock truck arrives @ 9:10. Discussed w/ Dale the possibility of another Eminent truck tomorrow to assist w/ backfilling the cisterns. Went to hotel to get paperwork - very messy. Fuel truck shows up. Barry unconeds the south end of the culvert @ the west entrance to the R.G. I LM for Jodie Cushenbury @ work. Called Eric @ city - discussed the fence w/ him - he will get w/ Becky & the Cushenburys and decide by next week. ~~Dan~~ Dan shows up @ 11:30 to survey. Smitty completes coll #52 @ 11:45 - then began exc. #53. It broke for lunch @ 12:00. I collected a 12 aliquot sample from #52 @ 12:15 - exc depth was 1' to 1.5'. ID arrives on-site @ ~12:10. Spoke w/ Carol T - Gov request was approved. Action memo amendment had a couple of changes from Terry - but is @ Mikes desk - should be signed today. She is also switching some of my OT hours to comp time. Spoke w/ Jodie Cushenbury - she will talk w/ Becky this week to determine what to do about the fence and restoring the grass to the RG. While Barry was using the loader after lunch to spread the rock @ 420 N. Liberty, the Valmeras and some @ Thompsons. Rock spread - then back to RG to place soil into the cisterns. Dan H. setting up survey equip. Left site @ 2:00 to go to ICC.

3/26/02 - Tue - I arrives on-site @ ~10:00. Staff on-site. Dan H: Dan C on site surveying. IT: Emmert driver worked till 5:30 last night - All the cisterns were shot in - will start the topo survey this morning. 3 IT trucks. Dale - RM, Rusty - PISA, Smitty / Hack - op on track hoe - Smitty will continue to exc. cell # 37 - he completed #53 last night - 52 & 53 came back clean. Hack will use track hoe to exc. clean soil for cisterns. 2 emmert trucks on-site today - began @ 8:30. Mike - op on D-6 @ repository. Davin / John - TDs on valves. Whitt - op on TL-26 - Barry - laborer. ~37 cisterns were filled in yesterday. Met w/ Eric Ely @ repository - he showed location for an ~ 200' x 200' gravel area - based on cost. Also said we will likely shut in a straight line for a mile a couple hundred feet back of Catherine - he said the city should discuss w/ the Crabenbergs this week. Smitty completed # 37 @ 11:00 - then began exc. #38. I collected a 12 aliquot sample from #37. exc depth was 1' to 2'. All broke for lunch @ 12:00 - All back to work by 12:45. Called Harold Reilly and his line we would not start exc. the pondcrest until after Easter - he still that was fine. Had Barry pull the flags from the locations of the cisterns. All the cisterns were backfilled - : started using emmert trucks to place clean soil into the low areas for the final grade on the R.G. Dan, Dan: I completed the topo survey. ID updating data base - All data looks good w/ correlation - Also has some video topo to complete. Smitty completes # 38 - then moves to # 39 and began exc. ID pulled a sample from #38. Surveying in a potential fence line along the 2nd row of cells - #25, 38, 52.... - that runs N/S. IT's emmert shut down @ 5:30. We then surveyed in a 200' x 200' area @ the repository - for potential parking area. One of the Emmert TDs. left his running lights on - I turned them off. Left site @ 6:45 - All survey work completed.

3/27/02 - Wed. IT safety mtg @ 7:00. ID on site for START. 3 IT trucks. Dale - RM, Rusty - PBA, Smitty/truck - op's. on track hoes - Smitty will complete exc. @ # 39 - then work his way back up to the repository. truck will exc. clean soil that will be used to place in the low areas @ the RG. Mike - op on D-6 @ repository. Whitt - op on TL-26 moving the dirt @ the R.G. - He will also remove the instrument point and have that soil hauled to the repository. Barry - LAB will also do some watering. David John - truck drivers - will start off w/ both driving this morning until #39 complete - then will begin decomm one of the trucks. IT will get a pressure washer at noon for decon. 3 loads of rock is to be delivered today to place @ the intersection of Martin & Catherine to build the road back up. Dale also presented the cost of gravel @ the repository - estimate for a 200' x 200' 4" gravel area - for 6 oz. fabric for base - $2000.00 for delivery to site - then estimate for rock is $5000.00 - ∴ material estimate for 200' x 200' gravel area is $7000.00. Agreed the majority will end work today then demob tommorrow - Dale wants to remobe next Tue - 4/2, and start work on well 4/3. will definitely have Dale, Rusty, Mike, Smitty & truck return - evaluating whether to have Whitt return - will depend on response from ICDHE on covering up the repository - they are to call on Friday w/ an answer. 2 ammont TD's on site @ 8:00 - one load of rock delivered @ 8:00 - All 3 loads delivered by 8:30. LM for see @ IT/ for voucher. CAOI T LM rg: A.M. Assessment signed 3/26/02. Walked repository @ wise points - ≈ 750' x 620' - 465,000 sq ft = 10.67 Acres. if at a 7' depth (which is low) - 120,555 cy. - this est. seems high. Dale felt it would take 7-10 days to place clean soil on the repository - Cell 38 came back clean. Smitty finishes #39 @ 11:00 - then begins pulling out the haul road. Whitt places some rock @ the Pandanosta ID over the sketches of cushenberry & Tyler properties. I called Beaty @ city: LM

reg. vs Seiy shut Down. There is A problem w/ Hertz equipment - they may pull it all back - ∴ it now is only leave us w/ one exc - the Linebelt. FD calls and can be back clear - she will drop the XRF off @ Dodge when she is done tommorrow. Spoke w/ consultant for the prps - he will send A copy of their topo map to me - I will then send him our map of the repository - drove out to the Gorrow area - it looked good. Left site @ 11:30 to go to KC. Commed shut down @ 5:30 - so did IT crew except for Smitty, Dave Ryan & Dale - they worked till 6:30 to complete the exc of the haul roads to the repository. ID says once the former location of the U-house trailer came back hot, ∴ will need to remove soil. She has completed all videoing & sketching. Hertz will allow equip to stay except for D-6, ∴ it will be decomm & IT will ship in Another D-6 @ no cost to me - And it will be ready to go.

3/28 - Thur - I was not on site - ID for START. IT has 3 trucks And A smaller crew. Barry & John demobed. IT crew - Dale - RM, Rusty - PBA, Mike, Davis, Huck, Smith & Whitt. completed placement of soil @ Rosco Grounds - Both remaing voluos were decomm & so was the D-6 - ID & IT crew off-site @ 12:00. ID returned XRF to Dodge. IT plan to remove on 4/2 - with site work beginning on 4/3 - Dale, Kirby, Rusty, Smitty & Huck to return. ID DATE to let me know About cover material.

3/29, 3/30, 3/31, 4/1 - no site work.

4/1 - Mon - Josie Cushenbury calls - She met w/ Becky Brown last Fri - city not certain if they want to continue the lease - Becky will check w/ the city council this evening. Josie was polled the fence along the east side - since it is theirs. Spoke w/ Debra ID DATE - no decision yet on cover - will talk to prps tommorrow. v posted Dale K. The office called by the D-5 - will leave the keys in the library. Got map from Dan H.

4/2 - Tue - no on-site activities - IT to remote to site today. Chuck Wince representing US Steel; Sotomar left a message for me today stating that they were not interested in "taking over" our repository project - he says he would also relay message to Rob Weber. his # is 361-449-2468. Called Harold Rielly and let him know that we would be at the Pondrosa in the morning and start digging - he will make sure the cattle are pinned in the other area.

4/3 - Wed - IT on site @ 7:00 - Dale-RM, Rusty-AEA, Huck/Smitty/Mike - they will begin exc. in the Pondrosa. 2 dump trucks to arrive between 7:30-8:00 - will haul contaminated soil from pondrosa to repository. The H2O line May Martin appeared to have been repaired by the city - the fence was down May the RG. Rusty will get the 1900's ready for my return. Dale will evaluate Haley's Valmeter preparations to see if we can use the TL-26 to exc the soil. Made reservation @ Microtel for 4/4 - #11747 - (for the 4th only). Spoke w/ Doyle Pluto - who can do the aerial photographs for us - will meet him @ 12:00 on 4/4 @ the Pizza Hut to discuss the aerials. Rob Weber from KDHE called - their discussions w/ PRP's indicates that we will need to cover the repository - to early in their negotiations to determine if they will leave our repository or combine into one. KDHE wants comments. I did request that the order include post-removal control if they leave our repository as is - Rob says they would include that in their order. Spoke w/ Dale - TDs arrives @ 7:35 - 2 of them - will exc. Pondrosa to 12". Whitt will be on-site tommorow so Huck can exc clean soil @ the borrow area. Come him assesses for - Valmeter; Hale properly to get utilities flagged - Also informed him that the State expects the repository to be covered. IT's Emmert worked till 5:30. The new D-6 went down when the H2O pump failed - ∴ IT utilized the Hertz D-6 that was still on-site and has been deconned.

4/4 - Thur. IT on-site @ 7:00. 3 IT trucks - Dale - RM, Rusty - PBA, Smitty - op on track hoe - completes exc @ Pondrosa then began exc Alog Catherine. Hack - op on track hoe @ Sorrow Ary. Mike - op on D-6 @ repository. Whitt - op/laos - working H2O truck, traffic control & TL-26. 4 emmet trucks on site @ 7:30. - 2 clean / 2 dirty. I arrives on-site @ 9:45. Smitty exc. Alog Catherine - Hertz has seen cables because of starting problems w/ the H2O truck; a caller was hit on the TL-26 - still using both. A separate mechanic arrives @ ≈ 10:30 to replace the H2O pump on the D-6 (FT's). Hack blew a hydraulic hose @ ≈ 10:00 - Rusty went to Independence to get replacement part. Dale provides update on job conditions. Hacks track hoe back up & running @ 11:30 ∴ down for ≈ 1.5 hrs. Collected a 1/2 aliquot sample from cells D & E @ the Pondrosa @ 11:35. exc. depth was 1'. Met w/ Doyle Floyde re: the aerial photos discussed w/ him what we are looking for - he can do the work - estimates a little over an hour - will also put it on a CD for us - I gave him Ingrid's #. Spoke w/ Harry Cunningham who resides @ 6620 W. 3rd - his # is 336-3623 - he wants the yard samples - says his wife has a rash that they are wondering if it is caused by lead. Updated ID on site status & that the aerial photographer would bill her. Joins off on the 3/15 & 3/22 1900's. Gave CT the WAR. Faxed info. to Bryant B. Met w/ Becky Brown from the city - updated her on the status. She thought it would be good for me to brief the city council - they meet on the 1st & 3rd Monday - I just need to let Becky know the Friday before so I can get on the Agenda. IT & Emmet's hit Down @ 5:30. Cell D & E samples both < 400 ppm. Met w/ Mr. Kelly - he was pleased w/ work @ the Pondrosa. 2 1/2 of the Pondrosa has been backfilled. Mike used the IT D-6 during the Afternoon. Met w/ Mr. & Mrs. Harry Cunningham @ 6620 W. 3rd, # 336-3623 - screened yard samples @ cistern < 400 ppm - rest ok - ∴ NFA - they thanked me for time. Met w/ Ms Tyler & Ms. Cushenberry - gave them copies of the sketches of their yards. Left site @ 7:00

DF

4/5 - Fri. - IT safety mtg @ 7:00. No START. 3 IT trucks. Dale - RM, Rusty - [illegible] Smithy - op - trackhoe - will continue to exc. the ditch along the N. side of the R.G. Huck - op - trackhoe - exc/loadout of clean soil @ the borrow area. Mike - op - D-6 @ the repository. Whitt - op on TC-26 & H_2O truck - will complete backfill @ the Pondrosa. - Discussing best way to exc the Hale & Valmise properties - Rusty will check on prices of getting a mini exc from Parsons or Chanute - could use the TC-26 but it will not be as efficient. Called Eric Ely @ city - the column @ the NW corner of the RG is the county's - I asked if he has a contact to get it cleaned out - he will call the county. They did place a clamp on the 12" raw H_2O line - but it appears it still may be leaking - they will check on it today. He would also like to see the line covered w/ 6" to 12" of soil where it is exposed @ the RG. 2 TDs arriving @ ≈7:45 - started hauling after 8:00 - 1 clean to the Pondrosa - one hauling dirty from the NE corner of the RG. Date unsure of location of other 2 TDs - still not on site by 9:10. 2 additional cement drivers still not on-site by 10:20. Hertz arrives on-site @ 10:30 to look @ the TC-26; the H_2O truck. LM for the Valmises re: the car @ 520 Front St. needing to be moved. Smithy completes loadout of NE corner RG @ 11:00 - Hertz will need to get parts for TC-26, ∴ no repair today - Did spend time on the H_2O truck. Rusty went to get plywood to move exc down to Hales. I LM for Hales @ work: none re: exc of the pool area today. The 3rd TD shows up @ 11:30 - ∴ 3 on site now - the one Smithy uses for contaminated is going to haul clean to the Pondrosa - ∴ all 3 hauling clean @ 11:45. IT shut down for lunch @ 12:00 - Back from lunch @ ≈12:40 - Rusty purchased 6 sheets of plywood - Utilities to move Smithy's track-hoe to exc the pool area @ the Hales. Met @ the Valmises - the long three sons Nick Valmise would be home @ 5:00 - she was not sure how to get the car running. Smithy started loadout @ Hales @ 1:30. Date

continue to H2O the roads - CAPOLT
called - I just got in my inbox a
FOIA from US Steel for National
Zinc and a due date of Feb -
CAPOL uncertain as to why it never
got to me. The requestor was
Lisa Zemba - an Atty in Pittsburg -
her # is 412-433-2909. I called
LISA AND Apologized - she said
they got a letter about 3 weeks ago
saying EPA has the FOIA but was still
processing it. I told her I would
get the documents in the mail on
Mon or Tue. Smitty completes exc.
@ the HALLS @ 3:15 - We then
moves the exc to the Whatever
residence - Smitty spotted the
gas & sewer line @ Whatever's & swept
the street. It called - says is $200 left
in budget - will need more to complete
the final report - I told her to not plan
on any additional visits to the site - she
will give me a better idea of $ on Mon. Backfill
of pondmost completed. Began backfilling
Halls property. IT & Emmert shut down @
5:30. Signing off on 3/29 1900.
Left site @ 5:45

4/6/02 - Sat. NO START - I'm in KC
IT on site - 3 trucks. Dale - RM,
Rusty - PBA - start @ 7:00. Mike -
op - D-6 @ repository - Hack - op - track
hoe @ borrow area. Smitty - op - starting
on track-hoe - exc. Whatever property -
then moves to other D-6 AND
began grading the Rodeo Grounds.
whitt - op on TL-26 - it broke down
during the day - IT has to go rent
a Bobcat. The backfill of Hale's
Whatever property was completed - also
moved more rock to Whatever driver
The 2 piles of clean soil was
placed @ various locations - Hals reposit
@ emmert trucks - only 5 showers up.
will shut down @ 5:30 - work for
tommorow will be hauling clean to
repository & grading the 26 - whitt will
only stay if we do not get rain -
but it was sprinklers on/off during
the day @ the site.

4/7/02 - Sun - mitch start on myself on site -
site received rain last night. IT crew worked
from 7 to 10 - got the trackhoe decontam -
no Emmert or other work - site to wet.

4/8/02 - Mon - neither Start or myself on site
Rain continues thru last night, rains
currently and expected for the rest of
today & tommorrow. Dale drove to site
to met - ∴ crew kept @ hotel -
Agreed to shut down till Fri - And
rain is forecast for Fri/Sat right
now. No chg for equipment Rusty
will prepare a 1400 Am fax to me.
Dale will talk to Paulak re: Additional
Seeds @ Hales; Valuness. The
Hzo line looks good. The loads
count of clean to the repository for
Sat. was 22, 16, 15, 21, 22. Informs
Becky Brown @ City that we
would be shut Down this week.

4/9/02 - No site Activity - to met

4/10/02 - spoke w/ Dale K - he is @ Newton Sq -
he wants to bring Kirby in tommorrow to
work on the RCG - he believes it has dried
up enough to work on tommorrow. Rain
is forecast for Thur night, Fri & Sat, ∴ only
Mike & Dale work tommorrow. Rusty is to
fax me at 1900 today. Dale met w/
Paulak @ the site yesterday - walked over
the residential grass that needs to be
seeded - Valuness, Hale, Ponsnosa - will
try to do next week - Grass seed is
coming up - and will really start to grow
w/ the warm days ahead. Paulak gave
an estimate of $600.00/Acre to do the
RCG, repository & Borrow Area - would include
utility a Hydro rake, fertilizer, and
seed (which is primary fescue w/ ≈ 10% Bermuda) - Also rolling the seed in
if no rain expected. He would have
to test to see if application of lime
is necessary.

4/11/02 - Thur - Dale & Mike on site - Mike-op
on D-6 working @ the Rodeo grounds -
Grass continues to grow - the borrow area
is still to wet to work on - All the
clean soil was spread @ the repository.
Paulak will be out one day next week
to complete Hales, Valuness, Ponsnosa?
The 2 lots were the clean soil was located -
Remainder of crew on hold - 70% chance
of rain tonight/tommorrow. Dale will
check w/ Rusty on status of 1900.

4/12/02 - Fri - Spoke w/ Dale - him and Mike on site - op. D-6 @ R-6; looks good - completed full length 200' cutoff - expects another 5 to 6 days to complete R6. Dale is bringing truck & Smitty back to work on 4/13 - Sat - borrow area & repository dry enough - Also orders 6 ammat trucks to haul clean. He believes they can achieve 3 loads/hour/truck.

4/13/02 - Sat. Dale - AM, Mike - op - D-6 @ repository - Smitty - truck returns to site - both op. Smitty - D-6 @ R-6. Truck - trackhoe @ borrow area - need expecting 6 ammat trucks - only 4 shows up - Dale believes close to 100 loads. Ans 7-5:30.

4/14/02 - Sun - Dale - AM, Mike op - D-6 @ repository - Smitty - D-6 @ R6. Truck - track hoe @ borrow area. 5 ammat shows up - had requested 6 - one broke down early and one left early for church. Dale requests 8 for tommorrow - believes truck can stay up. The slopes @ the repository have 6" of clean fill and 1/3 of the surface of the repository has clean fill - Dale ran H_2O truck today - site looking good - will likely complete grading of the R6 and the covering of the repository @ the same time.

4/15/02 - Mon - with myself on staff on-site reviews 4/5 1900 - All ok - except for 2 on hotel. Called Microtel re: my bill from 3/20-25 (where they billed me for the 19th) spoke w/ Joe - explained that I needed voucher to show actual nights stayed - he said he would try & fix - gave him my fax # - and made reservation for Wed evening 4/17/02. Rooms far from Microtel. Pat J. - extended travel authorization. Spoke w/ Dale K - 7 ammat drivers showed up. Mike - op - D-6 @ repository, Truck - op - track hoe @ borrow area. Smitty - op on D-6 @ R-6. Day going well until ≈ 2:30 - Link-Belt broke hyd hose - Rusty will go to Joplin tommorrow morning to get fixed - Dale will then call in drivers.

4/16/02 - Tue - NO EPA/STAT on site. Lynn Parson calls to discuss START work - says that ≈ 100 hours has not been billed to the project that should of - and that they estimate another 100 hours needed to complete the report, etc. - I asked Lynn to fax over the info (just as I had Ingrid earlier) and I will evaluate. CM for Roy C on status - will meet w/ him next week. Calls Dale K - the hose was replaced on the link belt - began hauling @ ≈ 10:00 w/ 7 trucks. ID calls - she will get info from aerial photography - needs load count data

4/17/02 - Wed - NO START - I arrived on-site @ 9:30. Took photos of repository. Spoke w/ Rusty reg: 4/5-1900 - Hotel gave them a discount for the week - that's why the lower rate. Dale - RM, Roy - PBA, Mike - op - on D-6 @ repository. Left @ 100' x 100' area for gravel - the top area is all covered - not working on the lower tier - Mike confirmed that a 6" layer present of clean soil. The kobelco trackhoe & 4 volvos still on-site. Smitty - op. on D-6 @ R-6. Hock - op - trackhoe @ borrow area. Running 7 cement TDs - Arrived on-site @ ≈ 8:00. Met w/ Smitty - he believes another 4 to 5 days to complete staging @ R6. Hock works through lunch ~~Doing~~ lookout of some of the TDs - the split their lunch shifts ~~Dale~~ running the H2O truck. Hertz was on-site the pump needs to be replaced on the H2O truck. Signs off on the 4/5 - 1900 - the hotel lowers the rate - made an adjustment - hotel costs were less. Signs the 4/12 - 1900 - did have some questions/changes needed - will be made on next 1900. Bill Cathy arrived on-site @ 3:15. Pawlak is to arrive tommorrow to finish remaining yards - Hale - Valuree, Pouserga & dirt piles @ 2 vacant lots. Calls Ans left message for Jodie Cushenbury @ USDA - wanted to discuss reseeding. Mike est. that should be done w/ cover placement late Fri. IT's TDs shut down @ 5:30. I left site @ 6:15.

4/18/02 - Thur - NO START. It to begin @ 7:00. Dale is leaving site, ∴ Bill C - rm, Rusty - PBT - he is also going to leave ANR so to Wiomnt Pay. - he will mail the last couple of 1900s - ANR for the next one up. Mike - op - D-6 @ the repository. Huck - op - truck hol @ Sorrow area Smitty - op - D6 @ the R.G. I hot-ed back to KC @ 6:30. 7 TDs are to show up. - 2 showed up - began working @ ~ 8:00. At 10:00 - DOT shows up - shut down 4 of the TDs for the rest of the day - only 3 running. - ∴ won't finish repository in Fri - FT working till 5:30.

4/19/02 - Fri - NO START - I was in KC. - 5 trucks shows up - 3 @ 8:00 - the other 2 @ 12:00. - Heavy thunderstorm came through @ 4:00 - shut site down - no work planned for tomorrow - Sunday dependent on weather overnight - powerful storm the night - rain may of washed it all out - crew - Bill - rm, Huck, Smitty, Mike - ops. - SIE

4/20 - Sat - no site work
4/21 - Sun - " " "
4/22 - Mon - " " "
4/23 - Tue - no site work
spoke w/ Betty Brown @ city - rain expected overnight. Spoke w/ Dale - he will send Mike over on Thur 4/25 to check out the site for wet condition
4/24 - Wed - no site work.
trying to organize vouchers
met w/ Roy rg. START - called Hue - LM - he was out of office. Returned call of Chuck Chandler of Chandler oil rg. IT - LM for him. provided him Dale's #.
4/25 - Thur - no site work
Chandler oil called again - returned there call - gave them Rusty's cell #. - they are trying to send an invoice - Mike Kirby visited site - All secure - still a little wet - 70% rain over next couple of days - ∴ will re-evaluate on Sunday - 4/28/02
4/26/02 - Fri - no site work - DOT met w/ TT.
4/27/02 - Sat - No site work - heavy rains
4/28/02 - Sun - no site work

4/29/02 - Mon - Dale K called from Grassy. Site did receive rain over weekend. Rain forecast for late tonight into tommorrow - if not much rain Dale will go to site tommorrow to check it out. Drafted task order Amendment #3; IGCE #3 for START - emailed to Roy C.

4/30/02 - Tue - no site work - called Betty Brown @ City - no rain overnight - but thunderstorms are in the forecast for today and it looks like it could start raining. No comments/comments from citizens w/ us gone. Did receive a call from another IT sub - same than Rosty's cell phone #. Spoke w/ Ros Wilson @ KDHE - provided site update. He may do site visit this week if he has time. Spoke w/ Dale K - he did not visit site today - he was told they received rain last night - he will go over early tommorrow morning and then call.

5/1/02 - Wed - submitted bill to Carol T - no on-site work. Dale K visited the site - overall in good shape - the haul road into the borrow area needs some work - will have Mike show up this afternoon - get Smitty/Hick on the road for tommorrow - only a 20% chance of rain expected - He will give everyone a call and line up 7 travelers. I left KC and arrived @ site @ 5:20 - No IT present - site was secure. Mike was signed in @ 1:30. One D-G @ repository - the other @ the R-G - neither was been utilized today. H2O truck still on-site. 3 of the Volvo trucks were gone - ∴ only 1 still parked @ the site. Repository looked good - only water standing is in the area for the rock - RG did have some standing H2O in ≈5 spots - took photos - Drove thru residential areas - All have grass growing - only water standing in the residential yards was the NW corner of the Quigley residence - along Martin St - no other yards have standing H2O. Drove to the borrow area - Link Belt was been utilized to fix the haul roads into the borrow area. Left site @ 6:10 to go to hotel.

5/2/02 - Thur - IT safety mtg - @ 7:00 - Dale - rem, Mike - op - D-6 @ repository, Hack - op - liner - belt @ the borrow area, Smith - op - D-6 @ the RG. 2 IT trucks. 1420 truck still on-site. NO START - I was requested 7 trucks yesterday - Dale informed me that Emment could only provide 3 - Ans that was not until around 10:00 or so. I expressed my disappointment to Dale - Asked what the contract requires them to provide - They (Emment) said they will have 7 trucks tommorrow - Dale locates another TD so we should be running 4 later this morning. Mike states one day of good hauling w/ 7 trucks will get us enough soil to cover the repository. This has been a problem throughout the job - requesting a specific # of trucks to be here @ a specific time - Ans the TDs not being here @ that time or with the # of trucks - Also problem w/ the condition of the trucks. Dale orders rock - one load will be delivered to the borrow area to build up the bridge - the remaining loads will be delivered to the repository. A TL-216 is scheduled to arrive on Monday from Newton City to help spread the gravel that will need to be placed @ the intersection of Martin & Catherine. Dale believes we can be done by next Wed. Drafted pol reps (13, 14) Rock truck shows up @ 9:30 - sent him to the borrow area. 2nd rock truck shows up @ 9:50 - he places 1st loads @ the repository - Dale estimate is 250 tons for the repository. LM for Eric City - city supt rq. gravel @ the repository, ends of job - moving out of the drum plant and removal of the rock to the property line @ the borrow area. Drove through properties - checked on list of items to follow-up on - All ok - Developer new punch list for site completion. TDs starter arrives @ 11:00 - 4 total - (Hack requested 7) - began hauling clean soil to cover the repository. Dale will be leaving site tommorrow - Agreed to have a CDL driver come over from near Joplin for tommorrow to watch the

roads since Dale will not be here. A city employee asked if he could have the pallets - I said he could - saves us from having to dispose of them - emailed pollreps to Carol T. Met w/ Dale: discussed work for next few days - Dale plans on leaving tommorrow morning: returning Monday - I left site @ 12:30 to check site in Woodson County then to KC - did not locate here - will attempt later. Returned to Dodge @ 16:20. unloaded: cleaned vehicle for Burnett. Spoke w/ Dale @ 5:30 - the TDs are working till 6:00 - IT likely to 6:30 - All of trucks ran during the ~~day~~ afternoon - no problems - Hack moves to the SE corner of the borrow area for soil. Will need ≈ 3 loads of rock tommorrow to finish the gravel area. The new program dyr - Ian Grist stopped by the site @ ≈ 2:30. The TDs were told to be on-site between ~~7:~~ 7:30 tommorrow - 7 of them. Dale did not have a load count for rocks or soil.

JB.

5/3/02 - Fri - I was not on-site - No start on-site. Spoke w/ Terry - PSA. Dale left site in the AM - Terry came over from Joplin to run the H_2O truck - just for today - Mike - op - D-6 @ the repository - Smitty - op - D-6 @ the R-6 - Hack - op - track hoe @ the borrow area. No problems today - 7 emmet TDs shows up between 7:30 to 8:00 - will run to 5:30. The 4 TDs haulers 55 loads yesterday - will not complete the cover @ the repository today - Mike will utilize 3 trucks for part of tommorrow - ≈ 1/2 day and have the cover completed. Got the 3 loads of rock in and completed the gravel @ the repository. Emmet will bring their trailer over on Monday to move the 2 D-6's to the borrow area - they believe the restoration of the RG & the repository will be done then. IT hrs 7 - 5:30.

5/4/02 - Sat - Neither myself or START on site - IT present - Rusty - PBA, Mike - op FEM - D-6 @ Repository, Smitty - op - D-6 @ the RG. Hack - op - backhoe @ the borrow AREA - IT start @ 7:00 - 3 Emmet trucks @ c 8:00 - was only supposed to run for c 1/2 the day to complete the clean soil hauling - however not complete by 5:00 pm - Rusty said if work be close - may require Hack on Sunday - All equipment running fine - no other problems. Rusty ran H2O truck. TL-26 was brought out: uses

5/5/02 - Sun - Neither myself or START on-site. IT present. No Emmet. Rusty - PBA. Mike - op/FM. D6 @ Repository. Smitty - op - D-6 @ RG - Hack - op backhoe removing roads @ borrow AREA - decomm equipment. TL - 26 was also utilized - spread rock @ the intersection of Martin & Catherine.

5/6/02 - Mon - Neither START nor myself on-site - Dale returns to site - Rusty - PBA. FT crew - Mike, Hack, Smitty - The D-6's were moved to the borrow area - the restoration work @ the repository & the RG/Dee grounds was complete. Dale said both looked very good. The pallets & the plastic sheeting was been removed - so was the 2 Volvo tires - The wood fence posts belonging to the cushenberys was moved to the west side of the R.G. by the fence - the excess pipe & wire from the fence was removed from the RG. IT purchased 2 - 50# bags of fescue seed and was applying it by hand to the haul roads entrance to both the ~~RG~~ repository & the borrow areas. The straw bales that were being utilized at the secondary containment were placed over the seeds - the fuel tank has been removed. Eric w/ the city did stop by to discuss asphalt work - Dale said they have just given the city $ in the past to cover these types of repairs. I told Dale I wanted to identify the areas w/ the city. IT plans on being off site by Wed (5/8/02) afternoon.

5/7/02 - Tue - no START, not myself on site. IT - Dale, Rocky, Mike, Smitty, Huck - complete regrading @ Sorrow Area, decon equip & clean office. I did speak w/ ID yesterday - she had spoken w/ Mr. Plute re the details - he said they look good. Also will be sending plan to her - she will call Dan H for a copy of the map of the RG to assist w/ completing the report. Eric Ely w/ the city informs Dale that we did not need to replace the culvert @ the entrance to the National Zinc Site. Spoke w/ Dale - restoration @ the Sorrow Area is complete. Crew is now deconing equipment - rental equip - TLZ, H2O truck, D-6 to be demobbed tommorrow - Link Belt on Thur, IT D-6 on Thur & the last Volvo next week. Dale plans on having all gear taken tommorrow. Also hopes off-site early in the morning - he will get H2O meter back to city - or leave @ the trmt plant. Came up w/ a cost est. of placement of 6" of soil on repository - $64,000 - which is a low est - only IT cost.

5/8/02 - Wed - NO START. Visited site w/ Deanne Sigelley - IT gone from site - Majority of items out of office - H2O meter was still in office - Heavy rain moved through last night - site very wet - very little standing H2O on repository - some @ RG - but pretty good. equip. still @ Sorrow Area @ site. entrance to the Sorrow Area looks good - did not get straw put down @ the Sorrow Area. dis @ the entrance to the repository. Took photos of RG, repository & the Sorrow Area. met w/ Mr. Thompson - he has contacted city; Dale - concerned about some H2O going through his property - both Dale & Eric Ely w/ city looked @ property - saw no concerns/issues. I informed Mr. Thompson that I would not do anything now - but will leave a list of concerns and evaluate them on down the road for my purposes reports/work. Left site @ 11:30 Also hopes took. IT cleans office - copier picked up - crew demobbed from site.

DS.

5/9/02 - Thur - spoke w/ Dale - I asked when do we have the yards evaluated for seeding (until seeding @ bare spots where grass did not establish) - Dale says now is the time - He is trying to get ahold of Paulsek to set up a time to survey the areas, then apply seeds - he will let me know when he gets in contact w/ the sos.
Spoke w/ Becky Brown @ city - only complaint w/ Mr. Thompson - Asked her to inform Eric that the H_2O meter area hose is @ the filter plant - refer any complaints to me - She would like me to attend a city council meeting - (the 1st or 3rd Mon. of each month) I will do that once the report/maps & survey is complete. Also discussed asphalt repair - they will be doing the work in a few weeks - she will notify me once the details are clear. Attempt to call Rusty @ Wionna Post to discuss 1900's. Rick Weber calls - questions the 6" of cover material - explained that is what I told the PRP's - 6" to 12", that we spent on ERRS cost $70,000 for 6", ∴ 12" would be double - which would likely get us to the point of exceeding our allowance. Also, could not get a committment one way or another from KDHE if they would going to require the prp to place all the soil in one area or maintain 2 separate areas. Also explained that places ≈13,000 cy of clean soil on the repository. LM for Rusty to call me re: 1900's.

5/22/02 - Dale K calls - says Chris Brown has sprinkler sheet initiating overbuild, it is ~ 220k - I asked how - Dale did not know - does not believe we would be own - Chris will send me sprinkler sheet/info. Also asked Dale about reseeding - he is going to discuss w/ Pawlack and get back w/ me.

5/28/02 - Tue - went to site w/ Dan H. & Eddie M to do survey @ repository - to wet - more rain forecast - ∴ returned to lab. Site looks good. Some yards need overseeding - some erosion @ repository - 2 areas of standing H_2O @ the R.O.

6/11/02 - Eric Ely w/ city called yesterday - the meter on the H2O connection we utilize is not working - he wanted to know if we had any problems w/ it - I was not aware of any - but would check w/ IT & let him know - spoke w/ Dale K - we agreed to hold off any reseeding until August - residents would have to H2O lawns themselves at this point - ~~recommend~~ recommendation is to hold off - Dale has not yet reviewed the 1900's - he was not aware of any problems w/ the meter - he said it works fine when he was using it.

6/19/02 - Received 1900's - 4/19 & 4/30 - neither has been signed by IT - to have numerous comments on both - Rec'd in mail A draft 5/31 1960 from Chris - Does not have backup - reviewed and have comments - spoke w/ John Troy IT statement that overrun on paving order - JT w/ talk w/ Larry - then get together.

6/20/02 - Rec'd phone call from A Wayne Booth of Century United - #785-267-4555, he has not yet received payment for the copier - bill is $387.90 - I gave him Chris Brown's # and address to send the invoice to. CM for Thomas Davis re: the field sheets of the residential properties. John states the fees & charges are ok - John also says I am proceeding correctly re: the potential overrun - review 1900's and get detailed info from Shawn re: anticipated costs.

6/25/02 - call from Steve Nichols w/ Hertz - IT still owes them $50,000 - CM for Steve re: contract and that there is no payment bond.

6/26/02 - Spoke w/ Eric Ely @ city - informed him that Dale K states the meter was working back since he used it - I told Eric that I could say if we did or did not break it - I asked Eric if he had received any complaints - he has not. - Also spoke w/ Steve Nichols from Hertz - they will likely not place a lien against residential or the city property.

8/12/02 - Becky Brown w/ city of Chugiak called (720-336-2776) we discussed status of project - survey on 8/27-28 contractor issues - informed her I still plan on taking care of asphalt and will send a final report to her when completed. only complaint she has heard is from the Thompsons - who I have been talking to. I still plan on attending a city council meeting once all work is done. Becky asked if I could send her a letter re: the Rodeo Grounds - she has 2 groups interested in developing. I told her I would try to send letter along the 26 w/in the next week.

- Larry S. said NZN cuts added to the list of sites to extend the EPRS contract 90 days.

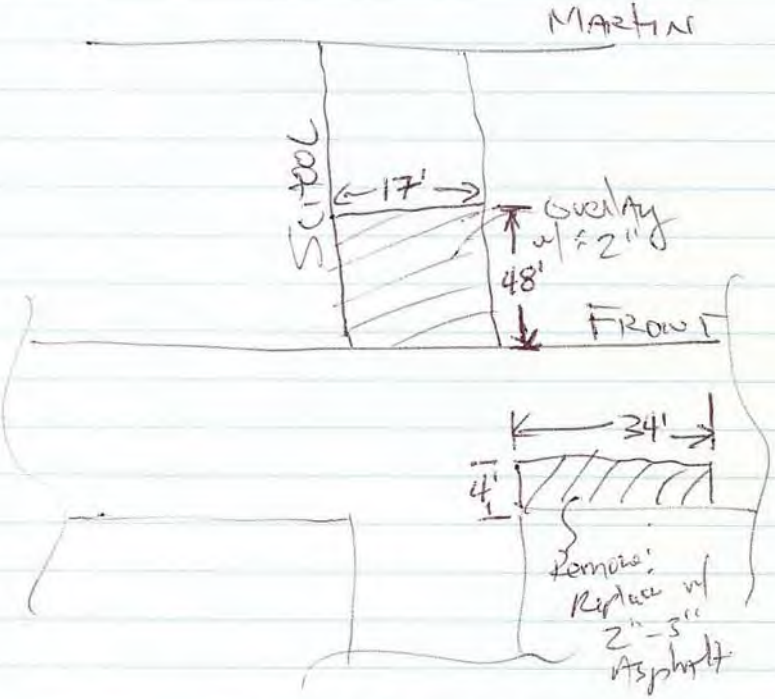
8/27/02 - Action memo Amendment #3 CAT Signs by mgmt. Discussed w/ A Singletary - will issue EPRS DO Amendment for $125K. - we can add more to the DO if needed w/in next 90 days. Went to site w/ Ed McGregor and Jon Harris to survey repository - repository has a good vegetative cover - no serious erosion problem noted - the Rodeo Grounds had some vegetative cover - no erosion problems - but did notice 2 location on west side that were low and holding H_2O. Left site @ 1830.

8/28/02 - Wed - Back @ repository to close out survey work from yesterday. Met w/ Becky Brown - city admin, - Discussed asphalt repair, city council meeting and a letter re: the Rodeo grounds. I asked if any complaints or concerns - she said the only ones who have said anything is the Thompsons. Went to Girdwood Acres to survey - GPS batteries went dead after 40 shots, ∴ did remainder of topo survey w/ the Trimble. Shot in tree line, gravel drive & 3 property

line stakes on the east side - and the topo. Completed survey work @ 12:45. Dan it will remain on-site for a couple more hours for GPS to continue to run. Eddy and I left Darrow and to met w/ Mr. Thompson - he is concerned about sno coming into his property from the south. He is now placing a new trailer on the property in a separate location. The old trailer has been moved - he will bring in dirt to cover the location of the former trailer. There is a low spot along the south fence - he is requesting a couple of loads of dirt be brought in. He will place the dirt so he can have it drain the way he wants it to. I told him I will see what I can do. But will be a month or two based upon my schedule. That was fine w/ him. Left Chuck's @ ≈1330 to go to the Arrows Dodge 1600

10/30/02 - met w/ Eric Ely w/ city - He had looked @ all the city streets and found only 2 areas that we damaged that need repair - basically a intersection of front & School St.

↑ N



34' x 4' x .25' = 34 ft³ = 1.26 cy
48' x 17' x .17' = 139 ft³ = 5.14 cy

Also Asks if Any complaints re, work.
Mr. Thompson Along Martin; A couple
concerns w/ Slowing Dust @ Rodeo grounds.
He said we could still utilize soil from
the Sorrow Area - A couple of locations
that Deal w/ seeds in the Mill Co.
Along the RR tracks: Sunflower seed. -
@ the east end of town. The
contractor who Dis the asphalt work
for the city last year was Sam
Goose from Coffeyville - # 251-1927 or (480)
SEK GRAINS: SUNFLOWER FARMS - the
2 businesses in town that may be able
to provide seeding @ the Rodeo Grounds.
SEK - 336 - 2111
SUNFLOWER FARMS - 336 - 2066
returns to KC

11/4/02
Spoke w/ SEK GRAIN - they do not
Apply the seed/fertilizer - only sell
it - price for K-31 fescue is
48¢/# ; A 15-30-15 fertilizer is
$200/ton. the spreader rents for
$8/hr - have to have a tractor w/
PTO to utilize. They states an
appropriate Application rate for the
Rodeo Grounds would be 100# of
each/Acre. Assume 30 Acres -
seed: 30 Acres x 100 #/Acre x .48¢/# $1,440
fertilizer: 30 Acres x 100 #/Acre x $\frac{1 \text{ ton}}{2000 \#}$ x $200/ton
= $300.00

LM for Mark @ Sunflower farms Reg
seeding @ RG - they do that type
of work. -

spoke w/ Mark on 11/6 - now is ok
to seed w/ fescue - they would be
interested in bidding on project.

11/12/02 - Spoke w/ Kent G from IT - he thinks it may be to late to get the Asphalt down - but will check. The sub. they are using in Aurora, MO. estimate. A cost of $800-900/Acre (w/o fertilizer) - which would be $25,600, Ans we only have ≈ 28,000 in Action memo. He will get a better & figure from the sub, he feels it is to late to go out w/ bids. ∴ he thought best to use ER when more time is Allowed - I will fax the map re the Asphalt to Dale K.

11/14/02 - Spoke w/ Kent Gus - he states the Asphalt plants are shut down - ∴ can't do repair - Also agrees to not process w/ seeding because cost would be close to exceeding DO, Ans their would be no reason to have the sub redo the work if it was not satisfactory. I Asked if we were going to fall Ahead the 1900 - he said Chris B should be getting ahold of me soon.

Conference call w/ Rusty Moore: Chris Bruns re: 1900 - went through my list of comments - They will be crediting for the majority of them - Issues remain - Dsw Rell - they indicates that they did not request a change - ∴ will credit the $97.47 - Ans will discuss w/ Sues why A Switch that results in higher rates - I informs them that I will not sign A 1900 until their is clarification on the phones.

2) Hertz - $85 fee is for each rental on model Demobe

3) H2O truck - still needs clarification on rental - will be steady for A complete month.

They will submit another 1900 w/ corrections - should not be any charges remaining - They agrees - the next 1900 should take care of it.

4/21/03 - met @ former smelter site in Chanyute w/ consultants for PRP - we walked & staked the perimeter boundaries of the repository - some erosion evident on west side - then went to borrow area to view. They are planning on a survey today at the repository - still working w/ KDHE on work plan - stopped by city Hall - met w/ city ADMIN - still the only complaint is from the Thompsons - everything else is fine - they do plan on letting the Bid w/in the next 4-6 weeks for Asphalt work - I will call in a 1 month to get update - left City Hall and returned to mercy site in Independence, Ks.

8/26/03 - Larry Staffords notifies me that ETI Shaw returned $14,000 to us for this D.O.

9/25/03 - Went to Chanyute to meet w/ city ADMIN. Becky Brown rep 2 issues - 1) Asphalt work @ Front & School Streets ; 2) Reseeding of the Roper Grounds property. Also went to meet w/ the Thompsons - Floyd & Marlen @ 629 Martin reg their concerns of drainage across their property. Met w/ Mrs Brown - drove by R.G. property - it was a good stand of vegetation that was taken hold - ∴ Agreed that no additional seeding work @ RG was necessary - Took 2 photos from SW corner of RG that shows vegetative stand in area. Met w/ homeowner who lives across street from RG - on the west side - she had some concerns reg: standing water - I explained that the property held H_2O before we excavated and it did not drain properly before we began. The city states they can backfill areas and/or

cut some drainage paths as needed. The homeowner is a city employee. We then went to intersection of Front & School St to view Asphalt. The work on School St. that was originally requested was paved over in August by the Asphalt Co from Oklahoma. The remaining concern was a narrow strip on the South side of Front. I discussed the issue w/ Eric Ely - Supt. of P.W. - he states that they can overlay that small area themselves - ∴ there is no asphalt work for us to take care of. I thanked Eric for his time and he stated that the asphalt is not a issue w/ the city. I met w/ Floyd Thompson @ his residence to discuss a low spot in his yard. At the ends of the project - he stated I told him we would bring in a couple of loads of dirt for him to use - and we only brought in one load - ! We had to bring in a couple loads of dirt to divert some drainage across his property. I explained that we

this not affect the drainage coming onto his property. that is why we did not excavate the perimeter ditches. His problem has been taken care of ∴ no further issues.

APPENDIX F

SCRIBE DATABASE FOR MARCH 2001 THROUGH MAY 2002 SAMPLING DATA (ELECTRONIC DELIVERABLE ONLY)