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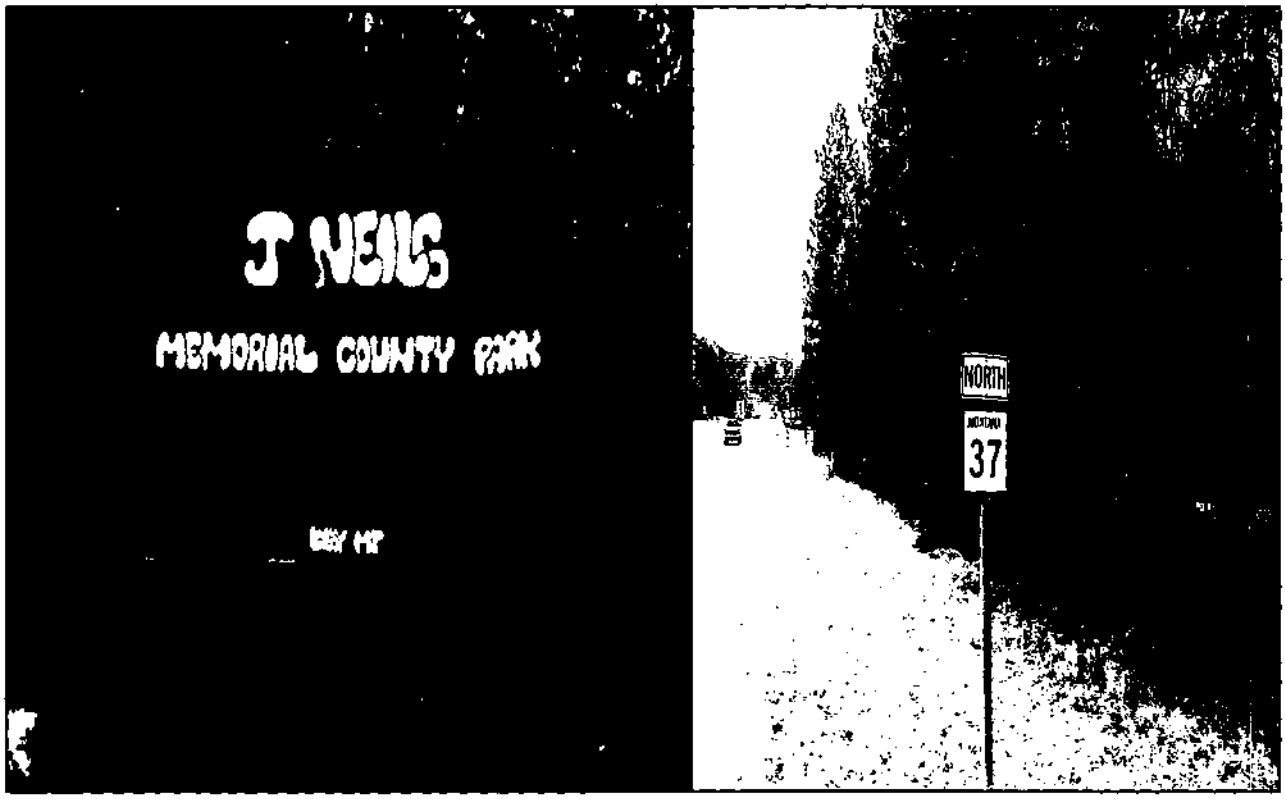
Contaminant Screening Study
Libby Asbestos Site, Operable Unit 4
Libby, Montana

Draft Summary Report for the J. Neils Park and Montana State Highway 37 Investigations

April 2005



Summary Report

Response Action Contract
for Remedial, Enforcement Oversight, and Non-Time
Critical Removal Activities at Sites of Release or
Threatened Release of Hazardous Substances
in EPA Region 8

U.S. EPA Contract No. 68-W5-0022

Draft Summary Report For the J. Neils Park and Montana State Highway 37 Investigations, Contaminant Screening Study, Libby Asbestos Site, Operable Unit 4

April 21, 2005

Work Assignment No.: 137-RIRI-08BC
Document Control No.: 3282.137.RT.OTHR.22718

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For J. Neils Park and Montana State Highway 37 Investigation, Contaminant Screening Study, Libby Asbestos Site, Operable Unit 4

Work Assignment No.: 137-RIRI-08BC

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Acronyms

bgs	below ground surface
CDM	CDM Federal Programs Corporation
CSF	close-support facility
CSS	contaminant screening study
EPA	U. S. Environmental Protection Agency
FSDS	Field Sample Data Sheet
Highway Site	Montana State Highway 37
IFF	Information Field Form
LA	Libby amphibole
Park Site	J. Neils Park Site
PLM	polarized light microscopy
QA/QC	quality assurance/quality control
QC	quality control
RI	remedial investigation
SAP	sampling and analysis plan
SRC	Syracuse Research Corporation
VE	visual area estimation
%	percent

Section 1
Introduction

The purpose of this report is to summarize contaminant screening study (CSS)/remedial investigation (RI) field activities conducted by CDM Federal Programs Corporation (CDM) at J. Neils Park (Park Site) and along Montana State Highway 37 (Highway Site) in Libby, Montana between August 2002 and March 2005. Figure 1-1 displays both site locations.

Consistent with other areas of Libby, Montana, vermiculite from Vermiculite Mountain may have been used as base and/or fill material throughout the J. Neils park paths, playground areas, sport fields, parking areas and concession areas. Visual inspections were performed and soil samples were collected, to determine if vermiculite and/or Libby amphibole (LA) is present in these areas of the park.

The selected sampling area along Montana State Highway 37 was used as a public thoroughfare, and as a route for transporting vermiculite ore from Vermiculite Mountain to the former export plant on the north side of the Kootenai River, and possibly into the town of Libby. A visual inspection was performed and soil samples were collected along the 5 ½ mile stretch to determine if vermiculite and/or LA is present along the highway.

All investigation activities were conducted in accordance with the Final Sampling and Analysis Plan (SAP), Remedial Investigation (CDM 2003a) and Final Sampling and Analysis Plan Addendum for J. Neils Park and State Highway 37 (SAP Addendum) (CDM 2003b).

This summary report presents verbal interview information, visual inspection results, and site-specific surface soil sampling data to be used in RI decision making for the Park Site, and the Highway Site.

Section 2
Field Activities

The Park Site investigation consisted of a verbal interview, visual inspection for vermiculite, and surface soil sampling. The Highway Site investigation consisted of visual inspection for vermiculite and surface soil sampling. Unless noted in Section 3.1, all field documentation and sample collection procedures provided or referenced in the SAP Addendum were followed. The following sections summarize field activities conducted at both sites.

2.1 J. Neils Park Site Investigation

2.1.1 Verbal Interview

An interview was conducted with Ms. Carol Ann Peltier of the Lincoln County Parks on August 6, 2002 to determine if there were any known locations of visible vermiculite on the park property. During the interview it was stated that the only insulated building on the property was the baseball field concession stand and it was not insulated with vermiculite. Ms. Peltier indicated that there were no other known areas of vermiculite on the Park Site property.

2.1.2 Visual Inspection

As part of the Park Site investigation the concession stand and other structures on the Park Site were inspected to determine if vermiculite-containing insulation or building materials were present. A visual inspection of the Park Site was also performed on August 6, 2002 to determine if any vermiculite was present on the site. A primary structure and property assessment information field form (IFF) was completed for the Park Site and is included in Appendix A.

A visual inspection of all structures on the Park Site was conducted by the CDM field team, and no vermiculite insulation was observed in any of the Park Site structures. A visual inspection of the Park Site was conducted and small amounts of vermiculite were observed on ballfields #3 and #4, between the site bathrooms and playground, and at the entrance to the horse arena (Figure 2-1).

In addition, visible vermiculite observed during soil sampling was noted, in the field logbook and Field Sample Data Sheets (FSDS). Logbook pages and FSDS for the Park Site investigation are included in Appendix B and C, respectively.

2.1.3 Soil Sampling

Soil sampling at the Park Site was conducted in two separate events: September 19-22, 2003, and March 8, 2005. Soil samples were collected, prepared, and analyzed in accordance with procedures presented or referenced in the SAP Addendum.

2.1.3.1 September 2003 Event

Locations of samples collected in September 2003 are shown on Figure 2-2. The site was divided into four subareas including the pathways (i.e., horse path, walking path, and access road), the previous airfield, the forested area, and the areas where visible vermiculite was identified during the initial visual inspection. All areas were sampled, except for those where visible vermiculite was observed, because it is assumed that these specific areas will be remediated (as noted in section 2.1.2).

Sample locations were selected for the pathways (horse path, walking path and entire access road) at 300-foot intervals. Each sample was a three point composite, with one subsample being collected along the path, and the other two subsamples collected from each side of the path or road. If one side of the road could not be sampled due to obstacles, etc., a second subsample was collected approximately 15 feet from the sample location on the side of the road that could be sampled.

The previous airfield was gridded into approximately 250-foot by 200-foot squares. A five-point composite sample was collected from each grid square.

For the forested area, two sampling locations were chosen that were accessible and cleared. Each sample was a composite of five subsamples, one from the center location and four from 75 feet away from the center in each direction (i.e., north, south, east, west). There was no evidence to indicate that the un-cleared forested area contained LA, therefore, only the cleared area was sampled, considering that this area would be the most likely place for LA to be spilled or dumped.

In total, 67 composite surface soil samples were collected during the September 2003 investigation (Figure 2-2) from a depth of 0-6 inches. Of these 67 samples; 28 were collected from the walking path, 9 from the horse path and 4 from the access road; 2 from the cleared areas of the forest; and 24 from the previous airfield (area sectioned into grids). No visible vermiculite was observed during the sampling event. Of the 67 samples collected, 3 field samples had trace concentrations of LA (<0.2 percent [%]). All other samples collected during this investigation were non-detect for LA and did not contain any visible vermiculite. All samples with detectable concentrations of LA are summarized in Table 2-1. Analytical results for the September event are in Appendix D.

Table 2-1 Summary of Soil Samples Collected at J. Neils Park, in September 2003 that Contain LA

Sample Index ID	Location	Depth (inches bgs)	LA (%)	Comments on Visible Vermiculite
CS-17306	Walking Path	0-6	< 0.2%	No visible vermiculite
CS-17344	Ball Field #1	0-6	< 0.2%	No visible vermiculite
CS-17355	Horse Path	0-6	< 0.2%	No visible vermiculite

bgs – below ground surface

2.1.3.2 March 2005 Event

Following the sampling event in September 2003, the City of Libby contacted the U.S. Environmental Protection Agency (EPA) regarding maintenance they wanted to perform on the ball fields before the spring season. EPA directed CDM to collect samples from each ball field to characterize the nature and extent of contamination . CDM was tasked to sample only the infield portion of each ball field. The four ball fields were sampled on March 18, 2005. Logbook pages and FSDS for this sampling event are in Appendices B and C, respectively.

Each infield of the ball field was split into 3 sections and a 5-point composite sample from 0-1 inches was collected from each section. Composite samples were collected from the right half of the field from home base to second base, the left half of the field from second base to home base, and the pitching mound.

Twelve samples were collected from the ball fields, of which one sample had trace (<0.2%) concentration of LA and one sample had a LA concentration of <1%. All other field samples were non-detect for LA. Although visible vermiculite was seen during the August 2002 visual inspection on ball fields #3 and #4, no visible vermiculite was seen during the March 2005 event. Table 2-2 lists the details for those samples where LA was detected. Sample locations and analytical results are presented on Figure 2-3. Analytical results for the March 2005 sampling event can be found in Appendix D.

Table 2-2 Summary of Soil Samples Collected at J. Neils Park in March 2005 that Contain LA

Sample Index ID	Location	Depth (inches bgs)	LA (%)	Comments on Visible Vermiculite
CS-20064	Ball Field #1	0-1	< 0.2%	No visible vermiculite
CS-20073	Ball Field #2	0-1	<1 % LA	No visible vermiculite

bgs – below ground surface

2.2 Montana State Highway 37 Investigation

2.2.1 Verbal Interview

A verbal interview was not conducted for the Highway Site because there was not an individual available to contact for an interview. Therefore an IFF was not completed for this site. However, CDM contacted the Montana Department of Transportation and obtained a temporary permit for sampling along the highway. The permit was issued on July 21, 2003, with an end date of December 30, 2003. A copy of the request letter from CDM and a copy of the signed permit can be found in Appendix E.

2.2.2 Visual Inspection

A visual inspection was not completed prior to the sampling event due to the length of the segment to be sampled and the dense vegetation along the road. Visual observations were noted, during the sampling activities, and are described in the following section. Logbook notes for this field event are in Appendix F.

2.2.3 Soil Sampling

Soil sampling along the Highway Site was performed September 18 through September 22, 2003. A 5 ½ mile long section of Montana State Highway 37 was sampled from the Burlington Northern Railroad track approximately 1/8 of a mile south of the Kootenai River to ½ mile south of the junction of the highway and Rainy Creek Road. The section extends in a southwest/northeast direction, see Figure 2-4.

The Highway Site was divided into ¼-mile segments along the road with an additional two samples collected near the Kootenai River (CS-17158 and CS-17159). One sample was collected on each side of the highway at each ¼ mile interval. Three subsamples were collected at each sample location at a depth of 0-6 inches. Each subsample was collected within 10 feet from the highway and no further than 20 feet from the highway (i.e, to stay within the highway right of way). Each subsample included one in the center and two other samples collected parallel to the highway and approximately 100 feet from the center subsample location.

A visual inspection of the highway was performed during the sampling event. Vermiculite was observed at points along the highway, see Figure 2-4. There were 51 samples collected along the Highway Site, of these samples 39 had trace (<0.2%) amounts of LA, and 4 had concentrations of LA at <1%. Table 2-3 lists the details for those samples where LA was detected. FSDS' for this event can be found in Appendix G, and analytical results in Appendix H.

Table 2-3 Summary of Soil Samples Collected Along Highway 37, in September 2003 that Contain LA

Sample Index ID	Depth (inches bgs)	LA (%)	Comments on Visible Vermiculite
CS-16875	0-6	<0.2%	No visible vermiculite
CS-16876	0-6	<0.2%	No visible vermiculite
CS-16878	0-6	<0.2%	No visible vermiculite
CS-16879	0-6	<0.2%	No visible vermiculite
CS-16880	0-6	<1	Moderate to high amounts of vermiculite observed, mainly near 100' east of center subsample location
CS-17121	0-6	<1	Moderate amounts of vermiculite observed, mainly near 100' east of center subsample location
CS-17122	0-6	<0.2%	A few flakes of vermiculite observed
CS-17124	0-6	<0.2%	No visible vermiculite
CS-17125	0-6	<0.2%	No visible vermiculite
CS-17126	0-6	<1	Moderate amounts of visible vermiculite at center subsample location and 100' east of center subsample location
CS-17127	0-6	<0.2%	No visible vermiculite
CS-17128	0-6	<0.2%	Vermiculite observed on west side of road
CS-17129	0-6	<0.2%	No visible vermiculite
CS-17130	0-6	<1	Moderate amounts of vermiculite observed at center and 100' east of center location, trace amounts observed at 100' west of center location
CS-17131	0-6	<0.2%	No visible vermiculite
CS-17132	0-6	<0.2%	No visible vermiculite
CS-17133	0-6	<0.2%	Moderate amounts of vermiculite observed at center and 100' east of center location, trace amounts observed at 100' west of center location
CS-17134	0-6	<0.2%	No visible vermiculite
CS-17135	0-6	<0.2%	Moderate amounts of vermiculite observed at all subsample locations

(Continued) Table 2-3 Summary of Soil Samples Collected Along Highway 37, in September 2003 that Contain LA

Sample Index ID	Depth (inches bgs)	LA (%)	Comments on Visible Vermiculite
CS-17136	0-6	<0.2%	Flake of vermiculite observed at 100' west of center subsample location
CS-17138	0-6	<0.2%	Trace amount of vermiculite observed at center subsample location, moderate amounts observed at 100' west and 100' east of center subsample location
CS-17139	0-6	<0.2%	No visible vermiculite
CS-17140	0-6	<0.2%	No visible vermiculite
CS-17141	0-6	<0.2%	No visible vermiculite
CS-17142	0-6	<0.2%	Trace amount of vermiculite observed at center subsample location and at 100' west of the center subsample location
CS-17143	0-6	<0.2%	No visible vermiculite
CS-17144	0-6	<0.2%	Moderate amount of vermiculite observed at 100' west of the center subsample location and trace amounts observed at 100' east of center subsample location
CS-17145	0-6	<0.2%	Moderate amount of vermiculite observed at center and 100' west of center subsample location, trace amount of vermiculite observed at 100' west of center subsample location
CS-17146	0-6	<1	Moderate amount of vermiculite observed at center and 100' west of center subsample location, trace amount of vermiculite observed at 100' west of center subsample location
CS-17147	0-6	<0.2%	Moderate amount of vermiculite observed at all subsample locations
CS-17148	0-6	<0.2%	Trace amount of vermiculite observed at all subsample locations
CS-17149	0-6	<0.2%	Moderate amount of vermiculite observed at center subsample location and at 100' west of subsample location, trace amount of vermiculite observed at 100' east of center subsample location
CS-17150	0-6	<1	Trace amount of vermiculite observed at all subsample locations
CS-17151	0-6	<0.2%	Moderate amount of vermiculite observed at center and 100' west of center subsample location
CS-17152	0-6	<0.2%	No visible vermiculite

Table 2-3 (continued) Summary of Soil Samples Collected Along Highway 37, in September 2003 that Contain LA

Sample Index ID	Depth (inches bgs)	LA (%)	Comments on Visible Vermiculite
CS-17153	0-6	<0.2%	Trace amount of vermiculite observed at all subsample locations
CS-17154	0-6	<0.2%	Trace amount of vermiculite observed at 100' west of center subsample location
CS-17155	0-6	<0.2%	Trace amount of vermiculite observed at center subsample location
CS-17156	0-6	<0.2%	No visible vermiculite
CS-17157	0-6	<0.2%	No visible vermiculite
CS-17158	0-6	<0.2%	No visible vermiculite
CS-17159	0-6	<0.2%	No visible vermiculite
CS-17160	0-6	<0.2%	No visible vermiculite

2.3 Soil Sample Processing and Analysis

As applicable to all soil samples collected under the Libby RI program, soil samples were processed at CDM's close support facility (CSF) in Denver in accordance with the CSF soil preparation plan (CDM 2003c) or CSF soil preparation plan revision 1 (CDM 2004), depending on date of processing. After processing, samples were sent to one of five analytical labs and analyzed for LA asbestos using two techniques:

Polarized light microscopy (PLM) visual area estimation (VE) and the PLM gravimetric method (Syracuse Research Corporation [SRC] 2003). EPA is in the process of evaluating the accuracy and replicatability of each of these methods. However, based on EPA's performance evaluation study to date, PLM-VE results are currently being used to make project remediation decisions. For the purposes of this report, only PLM-VE results are presented.

Section 3
Quality Assurance/Quality Control

CDM has established a formal quality assurance program to ensure consistently high quality project deliverables under its Response Action Contract with EPA. For work conducted by CDM in Libby, quality assurance/quality control (QA/QC) measures include the collection of quality control (QC) samples (such as soil duplicate samples and equipment blanks), implementation of a laboratory quality assurance program, review of project reports by a CDM-approved quality assurance staff member, and an auditing component to assess the effectiveness of the quality assurance program. The following sections describe deviations from the SAP Addendum and the implications of those deviations on project or data quality objectives.

3.1 Deviations from the Sampling and Analysis Plan Addendum

Two samples were collected from the cleared areas in the forested section of the Park Site, however three samples were selected in the SAP Addendum to be collected from the cleared areas. The third sample was inadvertently not collected.

Two samples were collected beyond Rainy Creek Road to further delineate the contamination south of Rainy Creek Road, however the SAP Addendum called for samples to only be collected up to the north of Rainy Creek Road. All other requirements in the SAP Addendum were met without exception.

3.2 Achievement of Data Quality Objectives

The data quality objectives of this investigation were met.

3.3 Data Validation and Reporting

None of the analytical data contained in this report was further validated beyond that performed by the laboratory as part of their QA/QC program. Therefore, it is assumed that the raw data are useable for their intended purpose, which is to determine the extent of LA asbestos contamination at the Park Site and Highway Site.

Section 4
References

CDM. 2003a. Final Sampling and Analysis Plan, Remedial Investigation, Libby Asbestos Site, Operable Unit 4. May.

_____. 2003b. Sampling and Analysis Plan Addendum for J. Neils Park and State Highway 37. July.

_____. 2003c. Close Support Facility, Soil Preparation Plan, Libby, Montana Asbestos Project, Sample Processing. April.

_____. 2004. Close Support Facility, Soil Preparation Plan (Revision No. 1), Libby, Montana Asbestos Project, Sample Processing. March.

SRC. 2003. Analysis of Asbestos Fibers in Soil by Polarized Light Microscopy. SRC-LIBBY-03 (Rev. 0). March 3, 2003.

Appendix A
Information Field Form for J. Neils Park Site

V AD- 000680 3/7/02

T. V. BD- 001365 VOID BD

☐ Soil samples collected (Date: _____)

LIBBY ASBESTOS PROJECT
Contaminant Screening Study
Primary Structure and Property Assessment Information Field Form

Field Logbook No.: 100096 Page No.: 98 Site Visit Date: 8-6-02

Address: J NEILS PARK HWY 37 N Structure Description: J NEILS PARK

Occupant: CAROL ANN PELTIER Phone Number: 293-7781 x 238

Owner (if different than occupant): LINCOLN COUNTY PARKS Phone Number: 293-7781 x 238

Sampling Team: GWEN POZEGA, TOM VANDERWEEL CDM

Field Form Check Completed by (100% of forms): Gwen D. Pozega CDM

Screening Field Check Completed by (2% of forms): _____

Data Item	Value	Notes
HOUSE ATTRIBUTES		
Property Description	Residential Industrial Commercial	COUNTY PARK
Surrounding Land Use	(Residential) Industrial (Commercial) School Mining Other: _____	
Year of Construction	1994-1995 Unknown	
Square Footage	100 ACRES — 72.5 ACRES, 22.5 ACRES OFF CHAMPION HAUL RD.	
Construction Material	(Wood frame) Masonry/Stone Other: METAL	BUILDINGS ON PARK LAND
Number of Floors Above Ground	1 2 3 Other: NA	
Number of Rooms Per Floor Above Ground	1:____ 2:____ 3:____ Other: NA	
Basement	Yes (No)	
Heating Source	Wood/Coal Electric Propane/Gas (Other) SUN	
Heat Distribution	Forced air (Radiant) Other: _____	

(ROBERT)
GROUNDSKEEPER

GP 8/9/02

CSS INFORMATION FIELD FORM (Continued)

A.D.# 000680

Address: HWY 37 N

BD#_____

Data Item	Value	Notes
OCCUPANT INFORMATION		
Number of Adults/Employees	0 1 2 3 4 5-15 16-20 21-30 >30	VARIES
Number of Children	0 1 2 3 4 Other:_____	VARIES
Years at Location	<1 1-5 5-10 10-15 >15	8 YRS.
Was the residence/building remodeled?	Yes No If yes, When (years): <2 2-5 >5 Where: Attic Living Areas Garage Basement Other:_____	
Has resident/business purchased any Libby vermiculite materials from W.R. Grace in the past?	Yes No	
Has the property at this location been used for a for-profit enterprise of distributing, treating, storing, or disposing of Libby vermiculite?	Yes No	
Are there any known areas of exposed vermiculite?	Yes No If yes, Where: Ceiling Walls Floors Attic Other:_____	

AD# 000680

CSS INFORMATION FIELD FORM ntinued)

Address: Hwy 37 N.

BD#

Data Item	Value	Notes
INDOOR ASSESSMENT		
Vermiculite Insulation Past or Present	Attic: Yes (No) NA Unknown Walls: Yes (No) NA Unknown Basement: Yes No (NA) Unknown Crawl Space: Yes No (NA) Unknown Other:	Visual confirmation of current presence or absence required for attic.
Evidence of Physical Damage?	Yes (No)	
Evidence of Water Damage?	Yes (No)	
OUTDOOR ASSESSMENT		
Libby Amphibole Sources Present	Garden: Yes No (NA) Yard: Yes (No) NA Stockpiles: Yes No (NA) (Other:) BALLFEILDS #3+#4	BETWEEN BATHROOMS + PLAYGROUND, ENTRANCE TO HORSE ARENA. TRACE VERMICULITE OBSERVED
Proximity to Other Properties with Potential Sources of Libby Amphiboles	Next door Within same block Other: (Unknown)	

AD # 000680

CSS INFORMATION FIELD FORM (Continued)

Address: Hwy. 37 N.

BD#_____

Data Item	Value		Notes
EXPOSURE ASSESSMENT			
Type and Frequency of Activity Near Vermiculite Material - Indoor	Frequency:	Once a day Once a week Once a month Once a year Not Applicable	Not Applicable applies when no vermiculite is present on the property.
	Duration of Contact:	<1 hour 1-2 hours 2-4 hours >4 hours Not Applicable	
	Extent of Contact:	Heavy Moderate Light Not Applicable	
Type and Frequency of Activity Near Vermiculite Material - Outdoor	Frequency: UNKNOWN	Once a day Once a week Once a month Once a year Not Applicable	Not Applicable applies when no vermiculite is present on the property. COUNTY PARK. MANY USERS -
	Duration of Contact: UNKNOWN	<1 hour 1-2 hours 2-4 hours >4 hours Not Applicable	
	Extent of Contact: UNKNOWN	Heavy Moderate Light Not Applicable	

CSS INFORMATION FIELD FORM ntinued)

AD # 000680

Address: Hwy 37 V.

BD#_____

Data Item	Value	Notes
CONTAMINANT SCREENING STUDY ASSESSMENT		
Occupant Information		
Is there any knowledge of former miners, close relative of miners, or any highly exposed persons living or visiting the property?	Yes No Unknown	
Is the resident, past or present, diagnosed with an asbestos related disease?	Yes No N/A Unknown	NO RESIDENTS
Indoor Information		
Does the interior have Zonolite attic insulation?	Yes No Unknown	
Did the interior ever have Zonolite attic insulation?	Yes No Unknown NA	NA applies if attic currently has ZAI.
Are there vermiculite additives in any of the building materials?	Yes No Unknown	NONE OBSERVED
Outdoor Information		
Is there any evidence of primary source materials at/or near the property?	Yes No Unknown	TRACE AMOUNTS
Could this have been tracked indoors or otherwise spread outdoors on the property?	Yes No Unknown	
Overall Assessment		
Are primary source materials present at the property?	Yes No	
Where are primary source materials located?	Inside Outside Both NA	

ADDITIONAL INFORMATION_____

CSS INFORMATION FIELD FORM (Continued)

HD # 000680

Address: Hwy 37 N

BD#

FIELD DIAGRAM OF PROPERTY

Identify important features (i.e. drainage, trees, gardens, structures, flowerbeds, utility poles, known underground utilities, suspected Libby amphibole source areas, sample locations, etc).

NOT TO SCALE

SEE ATTACHED MAP

CSS INFORMATION FIELD FORM (Continued)

AD# 000680

Address: Hwy. 37 N

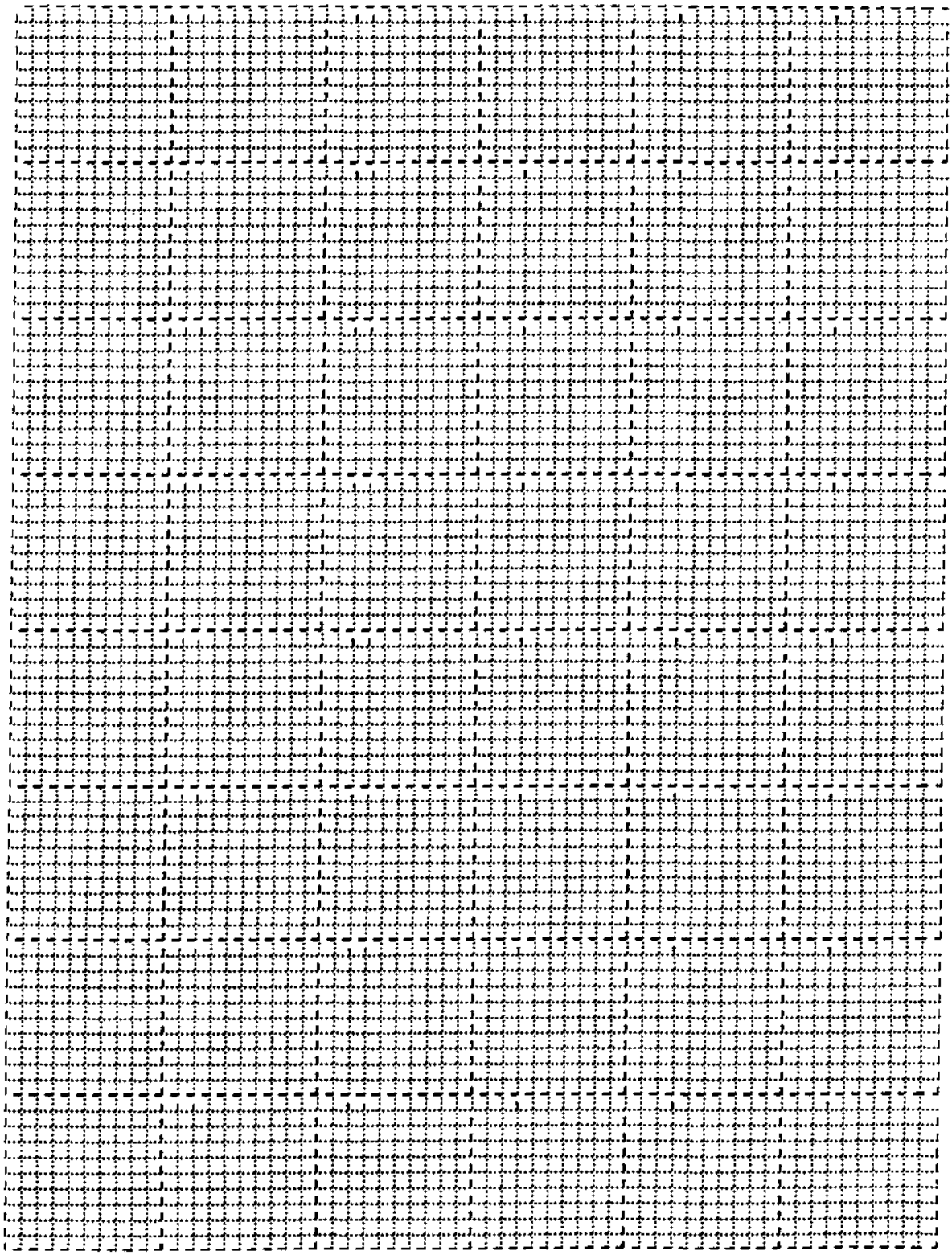
BD#_____

FIELD DIAGRAM OF PRIMARY STRUCTURE

Floor of House (circle): First Second Third Basement

Include approximate dimensions of rooms and floor covering type. Use more than one diagram if needed. Completed only if ZAI is present.

Scale: 1/10" = 1 foot



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Location J. Neils Park Hwy 37 N. Date 8/6/02

Project / Client VOLPE/EPA

LINCOLN COUNTY PARKS AND RECREATION BD001365
CAROL ANN PELTIER (DIRECTOR)

1300- Met WITH CAROL ANN PELTIER AT SITE. COMPLETE BD- 001365 CONSENT FORM AND INFORMATION FIELD FORM. ASSIGN FIELD FORM BD# 001365. BUILDINGS ON SITE ARE NOT INSULATED EXCEPT FOR BASEBALL FIELD CONCESSION STAND. BASEBALL FIELD CONCESSION STAND DOES NOT HAVE LVAI. WALKING PATH, HORSE TRAIL, skating rink, BALL FIELDS, HORSE ARENA, SOCCER FIELD, B/C FIELD, PARKING AREAS AND PLAYGROUND AREAS WERE WALKED AND CANVASED FOR VERMICULITE. VERMICULITE WAS OBSERVED IN TRACE AMOUNTS ON TWO BALLFIELDS AND A PLAYGROUND BY SERVICE AREAS AND AT SOUTH ENTRANCE TO HORSE ~~CORRAL~~ SOP 8/6/02 ARENA. PHOTO TAKEN AND ~~PICTURE~~ MAP OF PARK OBTAINED FROM LINCOLN COUNTY.

Mark D. Pogge
8/6/02

106

Location J NEILS PARK Hwy 37N Date 8/7/02.

Project / Client VOLPE/EPA

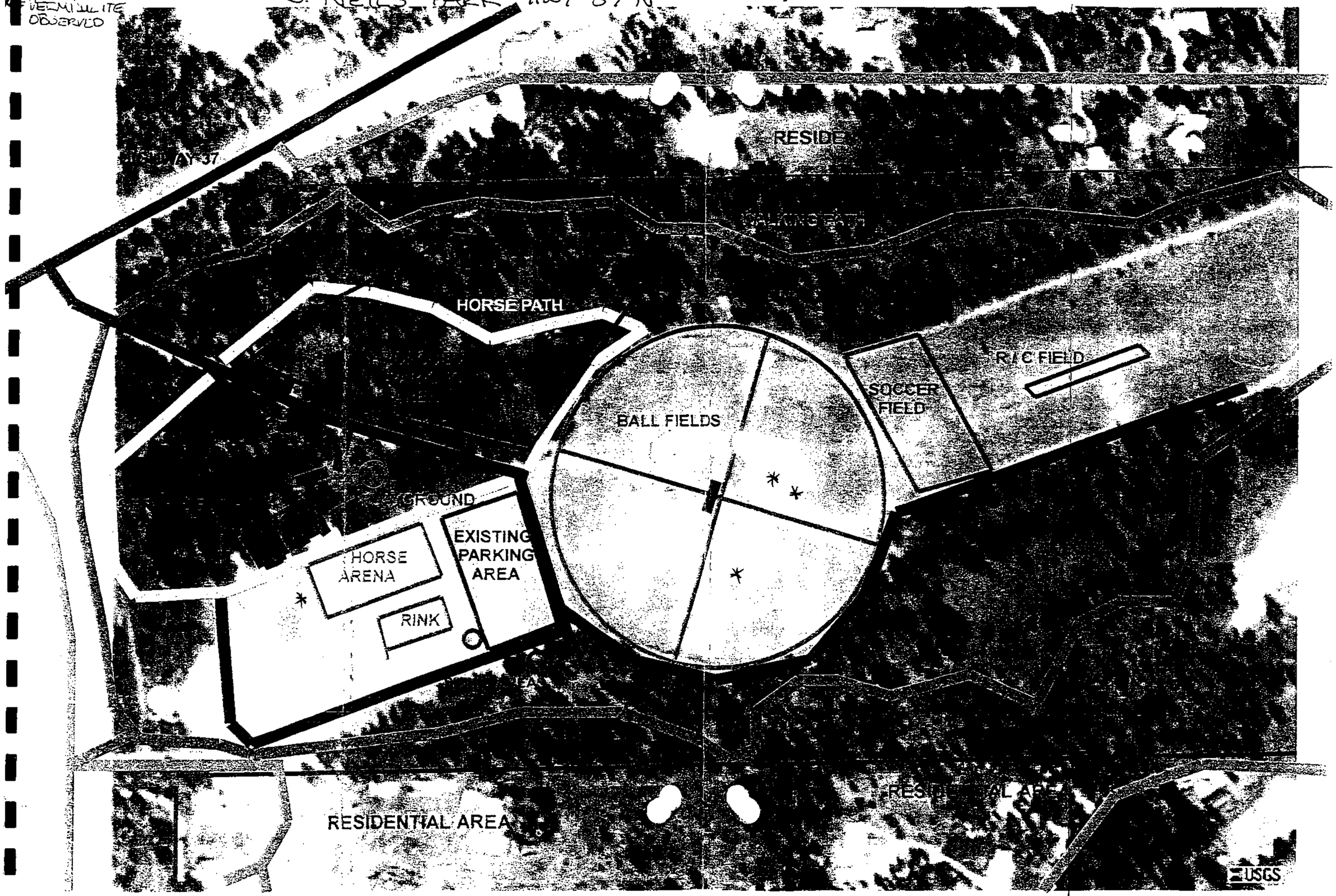
LATE ENTRY AD 000680

LATE ENTRY FOR PAGE #98 FIELD BOOK #100096. AD- 000680 BD #001365 VOIDED AND J NEILS PARK ASSIGNED AD # 000680. THIS IS DUE TO THE PARK BEING OWNED BY LINCOLN COUNTY. NO ACTUAL PHYSICAL ADDRESS FOR PARK. STRUCTURES ON SITE DO NOT CONTAIN LVAI.

Jason D. [illegible] 8/7/02

VERMIULITE OBSERVED

J. NEILS PARK HWY 5 / N



Appendix B
Logbook Pages for J. Neils Park Site Sampling Events

Location J NEILS PARK Hwy 37 N Date 9/19/03

Project / Client LIBBY ASBESTOS / U.S EPA REGION 8

Lincoln County, Parks — AD-000680

0930 Arrive @ J. Neils Park - Soccer — mark locations SG-7 + SG-14 - Sample grids on soccer fields. — M 9/19/03

0952

SG-7 CS- 17286 SP- 123669

FIELD DATA SHEET 005837 — 3PT

0957

SG-14 CS- 17287 SP- 123670

FIELD DATA SHEET - 005837 - 3PT

No L.V. observed @ sample location SG-7 or SG-14. M 9/19/03

GPS ID - T4A09193 - FOR SG-7, SG-14

1030 - START MARKING WALKING PATH LOCATIONS - not SAMPLING

1042

WP-21 CS- 17288 SP- 123671

FIELD DATA SHEET 005837

NO L.V. OBSERVED @ LOCATION WP-21

1051

WP-20 CS- 17289 SP- 123672

FIELD DATA SHEET - 005837-38

NO L.V. OBSERVED @ LOCATION WP-20

ROBERT HUNT 9/19/03

Location J. NEILS PARK / Hwy 37 Date 9/19/03
Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8
Lincoln County Parks AD-000680

(1104) WP-19 CS- 17290 SP- 123673
FIELD DATA SHEET -005838
NO L.V. OBSERVED @ LOCATION WP-19

(1117) WP-18 CS- 17291 SP- 123674
FIELD DATA SHEET -005838
NO L.V. OBSERVED @ LOCATION WP-18

(1119) WP 22 CS- 17292 SP- 123675
FIELD DATA SHEET -005839
NO L.V. OBSERVED @ LOCATION WP 22

(1137) WP-23 CS- 17293 SP- 123676
FIELD DATA SHEET 005839
NO L.V. OBSERVED @ LOCATION WP-23

(1141) WP-24 CS- 17294 SP- 123677
FIELD DATA SHEET -005839
NO L.V. OBSERVED @ LOCATION WP-24

(1322) WP25 CS- 17295 SP- 123678
FIELD DATA SHEET 005840
NO L.V. OBSERVED @ LOCATION WP 25
-ROBERT HUNT 9/19/03

Location J. NEILS PARK Hwy 37 Date 9/19/03
Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8
Lincoln County Parks AD-000680

(1324) WP26 CS- 17296 SP- 123679
FIELD DATA SHEET 005840
NO L.V. OBSERVED @ LOCATION WP26

(1329) WP26-Dup CS- 17297 SP- 123679
FIELD DATA SHEET 005840
NO L.V. OBSERVED @ LOCATION WP26-Dup

(1343) WP-1 CS- 17298 SP- 123680
FIELD DATA SHEET 005841
NO L.V. OBSERVED @ LOCATION WP 1

(1351) WP-2 CS- 17299 SP- 123881
FIELD DATA SHEET 005841
NO L.V. OBSERVED @ LOCATION WP-2

(1359) WP 3 CS- 17300 SP- 123882
FIELD DATA SHEET ~~005842~~ ~~005859~~ 005841
NO L.V. OBSERVED @ LOCATION WP-3

(1416) WP-4 CS- 17301 SP- 123883
FIELD DATA SHEET ~~005842~~ ~~005859~~ 005859
NO L.V. OBSERVED @ LOCATION WP-4
-ROBERT HUNT 9/19/03

90

Location J. Neils Park Hwy 37 Date 9/19/03

Project / Client Libby Asbestos / U.S EPA Region 8

Lincoln County Parks AD-000680

1419

WPs CS- 17302 SP- 123884

FIELD DATA SHEET 005859

NO LV. OBSERVED @ LOCATION

9/19/03

ROBCAT HUST 9/19

Location J NEILS PARK / HIGHWAY 37 Date 9/20/03

Project / Client LIBBY ASBESTOS / U.S. EPA RECON 6

LINCOLN COUNTY PARKS AD-000680

0905 - ARRIVE @ J. NEILS PARK - CONTINUE WITH SOIL SAMPLING ON WALKING PATH. MARK the EAST of the WALKING PATH LOCATIONS

0922
WP6 CS- 17304 SP- 123885
FIELD DATA SHEET 005860

0933
WP7 CS- 17305 SP- 123886
FIELD DATA SHEET 005860

0944
WP8 CS- 17306 SP- 123887
FIELD DATA SHEET 005860

* NO L.V. observed @ WP6, WP7, WP8.

WP9
0957 CS- 17307 SP- 123888
FIELD DATA SHEET 005862

WP10
1001 CS- 17308 SP- 123889
FIELD DATA SHEET 005862

WP10-Dup
1007 CS- 17309 SP- 123889
FIELD DATA SHEET 005862

NO L.V. OBSERVED @ WP9 + WP-10

- ROBERT HUNT - 9/20/03

94 [redacted]

Location J. NEILS PARK Date 9/20/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

LINCOLN COUNTY PARKS AD-000680

1019
WP-11 CS- 17310 SP- 123890
FIELD DATA SHEET 005863 — 3PT

1024
WP-12 CS- 17311 SP- 123891
FIELD DATA SHEET 005863 — 3PT

1032
WP-13 CS- 17312 SP- 123892
FIELD DATA SHEET 005863 — 3PT

* NO L.V. @ LOCATIONS WP-11 WP-12 WP-13

1052
WP14 CS- 17313 SP- 123893
FIELD DATA SHEET 005864 — 3PT

1104
BWP15 CS- 17314 SP- 123894
FIELD DATA SHEET 005864 — 3PT

1112
WP16 CS- 17315 SP- 123895
FIELD DATA SHEET 005864 - 3PT

1119
WP17 CS- 17316 SP- 123896
FIELD DATA SHEET 005865 - 3PT

NO L.V. @ LOCATION WP14, WP15, WP16, WP17

1125 - FINISHED SAMPLING WALKING BACK

- ROBERT HUNT - 9/20/03

Location J. NEILS PARK Date 9/20/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

LINCOLN COUNTY PARKS AD-000680

1130 - START MARKING (GPS ID T4A09203)

GRID LOCATIONS (MODEL AIRPLANE FIELD)

- LOCATE GRID LOCATIONS 8, 9, 10, 11, 12 + 13 WITH TRIMBLE GPS UNIT.

1302
GRID 8 CS- 17317 SP- 123897
FIELD DATA SHEET 005865

1309
GRID 9 CS- 17318 SP- 123898
FIELD DATA SHEET 005865

1314
GRID 10 CS- 17319 SP- 123899
FIELD DATA SHEET 005866

1317
GRID 11 CS- 17320 SP- 123900
FIELD DATA SHEET 005866

1329
GRID 12 CS- 17321 SP- 123901
FIELD DATA SHEET 005866

1334
GRID 13 CS- 17322 SP- 123902
FIELD DATA SHEET 005867

NO L.V. OBSERVED @ LOCATIONS GRID 8, 9, 10, 11, 12, + 13

- ROBERT HUNT - 9/20/03

Location J. NEILS PARK Date 9/20/03

Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8

LINCOLN COUNTY PARK AD-000680

1400 - MARK GRID LOCATIONS 2, 3, 18, 19, + 20 WITH TRIMBLE GPS UNIT. RM 9/20/03

1401
GRID 2 CS- 17323 SP- 123903
FIELD DATA SHEET 005867 — SPT

1417
GRID 3 CS- 17324 SP- 123904
FIELD DATA SHEET 005867 - SPT

1439
GRID 18 CS- 17325 SP- 123905
FIELD DATA SHEET ~~005867~~ 005868

1423
GRID 19 CS- 17326 SP- 123906
FIELD DATA SHEET 005868 — SPT

1419
GRID 20 CS- 17327 SP- 123907
FIELD DATA SHEET 005868 — SPT

* NO L.V. OBSERVED @ LOCATIONS G2, G3, G18, G19, + G20 RM 9/20/03

GPS ID. T4B09203 RM 9/20/03

1500 - MOBILIZE TO BALL FIELDS - MARK GRID LOCATIONS 21, 22, + 23. RM 9/20/03

ROBERT HUNT 9/20/03

Location J. NEILS PARK Date 9/20/03

Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8

LINCOLN COUNTY PARKS AD-000680

1515
GRID 21 CS- 17328 SP- 123908
FIELD DATA SHEET ~~005863~~ 005869

1519
GRID 22 CS- 17329 SP- 123909
FIELD DATA SHEET ~~005863~~ 005869

1524
GRID 23 CS- 17330 SP- 123910
FIELD DATA SHEET ~~005863~~ 005869

* NO L.V. OBSERVED @ LOCATIONS 21, 22, OR 23. RM 9/20/03

GPS ID T4C09203 RM 9/20/03

1545 - FINISHED @ J. NEILS PARK FOR THE DAY. RM 9/20/03

9/20/03

ROBERT HUNT - 9/20/03

Location CDM OFFICE Date 9/20/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

1550 - Arrive back @ CDM OFFICE. Begin ~~EO~~ END OF DAY ~~Activities~~ ACTIVITIES 9/20/03 checking paperwork, daily reports,

1555 - Collect equipment blank from Silica Sand Lot #229

CS- 17331 BD-002015

1710 - Relinquish samples on field data sheets 005860, 005862, 005863, 005864, 005865, 005866, 005867, 005868, 005869, + 005871 to secure sample storage room. 9/20/03

Robert Hunt

* Soil sampling ~~[illegible]~~ equipment was cleaned with Alconox * 9/20/03

1720 - Finished for the day

9/20/03

Robert Hunt 9/20/03

Location CDM OFFICE Date 9/20/03 22 9/22/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

NOTETAKER: Robert Hunt 9/22/03

Personnel: CDM-Bob Hunt + Danny Zambrano + Rich Eustice 9/20/03

Weather: partly cloudy + cold - (37°-0730) - forecast - high of 70°. partly cloudy. 9/20/03

PPE: Level D modified

Instruments: Trimble GPS unit

Calibration: NA 9/20/03

Activities: Soil sampling @ J. ~~Neil~~ Neil Park in accordance with document "Contaminant Screening Study, Libby Asbestos Site, Operable Unit 4, J. Neils / Hwy 37". 9/22/03

0730 - Arrive onsite @ CDM OFFICE

~~0800 AM 9/22/03~~ - Begin daily ~~Activities~~ ACTIVITIES 9/22/03

~~9/22/03~~ - gathering paperwork equipment, etc. 9/20/03

0800 - Morning RI meeting 9/22/03

~~0828~~ 0845 - Arrive @ J. Neils Park mark locations SG 17, SG 16, SG 15, SG 4, SG 5, SG 6, SG 1 - Trimble GPS unit - not working (PDOP high) - using scale on aerial photo page

- Robert Hunt 9/22/03

100

Location J. NEILS PARK Date 9/22/03

Project / Client LIBBY ASBESTOS/U.S. EPA Region 8

LINCOLN COUNTY PARKS AA-000680

OFF LOCATIONS. RH 9/22/03

0941
SG17 CS- 17341 SP- 123921
FIELD DATA SHEET 005872 — 5PT —

0943
SG4 CS- 17342 SP- 123922
FIELD DATA SHEET 005872 - 5PT —

0947
SG1 CS- 17343 SP- 123923
FIELD DATA SHEET 005872 — 5PT —

1013
SG5 CS- 17344 SP- 123924
FIELD DATA SHEET 005873 - 5PT

1033
SG6 CS- 17345 SP- 123925
FIELD DATA SHEET 005873 - 5PT

1031
SG16 CS- 17346 SP- 123926
FIELD DATA SHEET — 005873- 5PT

1054
SG15 CS- 17347 SP- 123927
FIELD DATA SHEET 005901 — 5PT —

* NO L.U. OBSERVED ON BALL FIELDS.
GPS ID - TYA09223 RH 9/22/03
— ROBERT HUNT - 9/22/03

101

Location J. NEILS PARK Date 9/22/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

Lincoln County Parks AA-000680

1102
SG15-Dup CS- 17348 SP- 123927
FIELD DATA SHEET 005901

1110 - HEAD BACK TO OFFICE TO PICK UP SUPPLIES - PAPER TOWELS, BAGS, + PIN FLAGS - NO PIN FLAGS @ OFFICE - HEAD TO ACE TO BUY PIN ~~FLAGS~~ 1116 - FLAGS.

1130 - BACK @ ~~OFFICE~~ 9/22/03 J. NEILS PARK - MARK HUNT PATH + ACCESS ROAD.

1305-1335 - LUNCH ~~RH 9/22/03~~

1357
HP4 CS- 17350 SP- 123929
FIELD DATA SHEET 005902 — 3PT —

1407
HP3 CS- 17351 SP- 123930
FIELD DATA SHEET 005902 - 3PT —

1404
HP2 CS- 17352 SP- 123931
FIELD DATA SHEET 005902 - 3PT —

1358
HP5 CS- 17349 SP- 123928
FIELD DATA SHEET 005901 - 3PT —

— ROBERT HUNT 9/22/03 —

J. NEWS PARK 7/22/03
LIBBY ASBESTOS / U.S. EPA Region 8
Lincoln County Park AD-000680

(1426) CS- 17353 SP- 123932
AP1
FIELD DATA SHEET 005903 — 3PT —

(1417) CS- 17354 SP- 123933
HP2-7
FIELD DATA SHEET 005903 — 3PT —

(1439) CS- 17355 SP- 123934
HP6
FIELD DATA SHEET 005903 — 3PT —

(1441) CS- 17356 SP- 123935
HP5
FIELD DATA SHEET 005903 — 3PT —

(1446) CS- 17357 SP- 123936
HP9
FIELD DATA SHEET 005904

* NO L.V. OBSERVED WHILE SAMPLING THE HORSE PATH — 7/22/03

(1451) CS- 17358 SP- 123937
RP1
FIELD DATA SHEET 005904 — 5PT —

(1501) CS- 17359 SP- 123938
AR4
FIELD DATA SHEET 005905 — 3PT —

ROBERT HUNT — 7/22/03

J. NEWS PARK 7/22/03
LIBBY ASBESTOS / U.S. EPA Region 8
Lincoln County Parks AD-000680

(1504) CS- 17360 SP- 123939
AR3
FIELD DATA SHEET 005905 — 3PT —

(1511) CS- 17361 SP- 123940
AR2
FIELD DATA SHEET 005905 — 3PT —

(1519) CS- 17362 SP- 123941
AR1
FIELD DATA SHEET 005906 — 3PT —

(1534) CS- 17363 SP- 123942
RP2
FIELD DATA SHEET 005906 — 5PT —

* NO L.V. OBSERVED @ LOCATIONS RP1, AR4, AR3, AR2, AR1 + RP1 — 9/24/03
GPS FILES FOR RP's, HP's, AR's
(TP1A07223) (T4B07223) — 9/22/03
1650 - FINISHED @ J. NEWS PARK
FINISHED COLLECTING SOIL SAMPLES

9/22/03

ROBERT HUNT — 9/22/03

112

Location J Neils Park Date 3-8-05

Project / Client Libby Asbestos US EPA Region 8

Lincoln County Parks AD-000680

1330: Arrive to collect soil samples from the 4 ball fields. B. Shomp (author) + T. Sesti onsite. All work IAW CSS SAP REVISION 1, 2003. North ball field samples on FSDS-000633 include:

CS-20062	CS-20063	CS-20064
SP-125759	SP-125760	SP-126253

East ball field sample on FSDS-000634 include:

CS-20065	CS-20066	CS-20067
SP-126254	SP-126255	SP-126256

South ball field samples on FSDS-000635 include:

CS-20068	CS-20069	CS-20070
SP-126257	SP-126258	SP-126259

West ball field samples on FSDS-000636 include:

CS-20071	CS-20072	CS-20073
SP-126260	SP-126550	SP-126551

No LV observed while sampling. Level D modified PPE. Weather is 52°F + overcast.

1530: Finished onsite. BS 3-8-05

1545: Relinquish samples to Patty Kari

GPS file T5A03085

BSHP

3-8-05

Appendix C
Field Sample Data Sheets for J. Neils Park Sampling Events

Sheet No.: CSS-S- 005837

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 87 Sampling Date: 9/19/03

Address: J. NEILS PARK ~~Hwy 37~~ DW091903 Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: DANNY ZAMBRANO / RICH EUSTICE ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17286	CS- 17287	CS- 17288
Location ID	SP- 123669	SP- 123670	SP- 123671
Sample Group	PARK (SG-7)	PARK (SG-14)	PARK (WP-21)
Location Description (circle)	Back yard Front yard Side yard Driveway Sample Grid Other SG 7	Back yard Front yard Side yard Driveway Other SAMPLE GRID 14	Back yard Front yard Side yard Driveway Other WALKING PATH - 21
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples 3
Sample Time	0952	0957	1042
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 CENTER - NO LIV 75' N - NO LIV 75' S - NO LIV 75' E - NO LIV 75' W - NO LIV	~~BD~~ AD-000680 CENTER - NO LIV 75' N - NO LIV 75' S - NO LIV 75' E - NO LIV 75' W - NO LIV	~~BD~~ AD-000680 CENTER - NO LIV 10' N - NO LIV 10' S - NO LIV
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by DZ

DW 091903

vs 052003

Sheet No.: CSS-S- 005838

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 10275 Page No: 87-88 Sampling Date: 9/19/03

Address: J. News Park Hwy 37 Owner/Tenant: Lincoln County Parks

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Danny Zambano / Rich Eustice Robert Hunt

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17289	CS- 17290	CS- 17291
Location ID	SP- 123672	SP- 123673	SP- 123674
Sample Group	PARK (WP 20)	PARK (WP-19)	PARK (WP-18)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Walking Path 20	Back yard Front yard Side yard Driveway Other Walking Path 19	Back yard Front yard Side yard Driveway Other Walking Path 18
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless otherwise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1051	1109	1117
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 Center - NO LIV 10' N - NO LIV 10' S - NO LIV.	~~BD~~ AD 000680 Center - NO LIV 10' N - NO LIV. 10' S - NO LIV.	~~BD~~ AD-000680 Center - NO LIV. 10' N NO LIV. 10' S - NO LIV
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RM	QC by D. Z

DW 091903

vs 052003

Sheet No.: CSS-S-005839

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: WO 275 Page No: 88 Sampling Date: 9/19/03

Address: J. NEILS PARK ~~Hwy 37~~ DW 091903 Owner/Tenant: LINCOLN County PARKS

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other ____ Names: Robert Hunt, Rich Eustice, Danny Zambrano

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17292	CS- 17293	CS- 17294
Location ID	SP- 123675	SP- 123676	SP- 123677
Sample Group	PARK (WP-22)	PARK (WP-23)	PARK (WP-24)
Location Description (circle)	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1119	1137	1141
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	9/19/03 ~~BD~~ AD-000680 Center ~~Center~~ 9/19/03 - NO L.V 10' E - NO L.V 10' W NO L.V	9/19/03 ~~BD~~ AD 000680 Center - NO L.V 10' E - NO L.V 10' W - NO L.V	9/19/03 ~~BD~~ AD-000680 Center NO L.V 10' E NO L.V 10' W NO L.V
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by AM	QC by D.Z

DW 091903

vs 052003

Sheet No.: CSS-S- 005840

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 89-90 Sampling Date: 9/19/03

Address: 1 JT NEILL PARK ~~Hwy 37~~ DW 091903 Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: DANNY ZAMBRANO / RICH EUSTACE ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17295 ✓	CS- 17296 ✓	CS- 17297 ✓
Location ID	SP- 123678	SP- 123679	SP- 123679
Sample Group	PARK (WP 25)	PARK (WP26)	PARK (WP26 Dup)
Location Description (circle)	Back yard Front yard Side yard Driveway Other WALKING PATH 25	Back yard Front yard Side yard Driveway Other WALKING PATH 26	Back yard Front yard Side yard Driveway Other Walking Path 26
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of CS-17296 9/22/03 p.s. Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1322	1324	1329
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 CENTER - NO LV 10' E - NO L.V 10' W NO L.V	~~BD~~ AD-000680 Center - NO LV 10' E - NO L.V 10' W NO L.V	~~BD~~ AD-000680 Center NO L.V 10' E - NO L.V 10' W - NO L.V
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RM	QC by D.Z

DW 091903

vs 052003

Sheet No.: CSS-S- 005841

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 90-91 Sampling Date: 9/18/03

Address: J NEILD PARK ~~Hwy 37 N~~ DW 091903 Owner/Tenant: LINCOLN COUNTY PARKS

Business Name:

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: RICH EUSTICE / DANNY ZUMBRUNO / ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17298 ✓	CS- 17299 ✓	CS- 17300 ✓
Location ID	SP- 123680	SP- 123881	SP- 123882
Sample Group	PARK (WP 1)	PARK (WP 2)	PARK (WP 3)
Location Description (circle)	Back yard Front yard Side yard Driveway Other WALKING PATH 1	Back yard Front yard Side yard Driveway Other WALKING PATH 2	Back yard Front yard Side yard Driveway Other WALKING PATH 3
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless otherwise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1343	1351	1359
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 CENTER - NO LIV 10' N - NO LIV 10' S - NO LIV	~~BD~~ AD-000680 CENTER - NO LIV 10' N NO LIV 10' S N LIV	~~BD~~ AD-000680 CENTER - NO LIV 10' N - NO LIV 10' S NO LIV
Entered (LFO) DS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RM	QC by D.Z

DW 091903

vs 052003

Sheet No.: CSS-S- 005859

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 89-90 Sampling Date: 9/19/03

Address: J NEILS PARK ~~Hwy 37~~ DW 091903 Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZIMBRO / RICH EUSTICE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS-17301 ~~CS-17301~~ 9/19/03	CS-17302	
Location ID	SP-123883	SP-123884	
Sample Group	PARK (WP 4)	PARK (WP 5)	
Location Description (circle)	Back yard Front yard Side yard Driveway Other Walking PATH 4	Back yard Front yard Side yard Driveway Other Walking Path 5	Back yard Front yard Side yard Driveway Other _____
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples ____
Sample Time	1416	1419	
Top Depth (in.)	0	0	
Bottom Depth (in.)	6	6	
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 CENTER - NO LIV 10' E - NO LIV 10' W NO LIV.	~~BD~~ AD-000680 CENTER - NO LIV 10' E - NO LIV. 10' W. NO LIV.	~~BD~~ AD-000680
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by D.Z

DW 9.19.03

vs 052003

Sheet No.: CSS-S- 005860

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL 9/20/03

Scenario No.: NA Field Logbook No: 100275 Page No: 93 Sampling Date: ~~9/19/03~~ 9/20/03

Address: J Neils Park ~~Hwy 37N~~ Owner/Tenant: Lincoln County Parks

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Robert Hunt / Danny Zambrano Rich Eustice

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17304	CS- 17305	CS- 17306
Location ID	SP- 123885	SP- 123886	SP- 123887
Sample Group	PARK (WP6)	PARK (WP7)	PARK (WP8)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area Walking Path 6	Back yard Front yard Side yard Driveway Other Walking Path 7	Back yard Front yard Side yard Driveway Other Walking Path 8
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab M 9/20 Comp. # subsamples 3	Grab M 9/20 Comp. # subsamples 3	Grab M 9/20 Comp. # subsamples 3
Sample Time	0922	0933	0944
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 Center - NO LIV 10' N NO LIV 10' S - NO LIV	~~BD~~ AD-000680 Center - NO LIV 10' N NO LIV 10' S - NO LIV	~~BD~~ AD-000680 Center - NO LIV 10' N - NO LIV 10' S NO LIV
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by RH	QC by [illegible]

DW 09.20.03

vs 052003

Sheet No.: CSS-S- 005362

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 93 Sampling Date: 9/20/03

Address: J NELS PARK Owner/Tenant: Lincoln County Parks

Business Name: —

Land Use: (circle) Residential School Commercial Mining Roadway (Other) PARK)

Sampling Team: (circle) (CDM) MACTEC Other _____ Names: ROBERT HUNT / DANNY ZAMBRANO RICH EUNICE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17307	CS- 17308	CS- 17309
Location ID	SP- 123888	SP- 123889	SP- 123889
Sample Group	PARK (WP9)	PARK (WP10)	PARK (WP10-DUP)
Location Description (circle)	Back yard Front yard Side yard Driveway (Other) WALKING PATH 9	Back yard Front yard Side yard Driveway (Other) WALKING PATH 10	Back yard Front yard Side yard Driveway (Other) WALKING PATH 10
Category (circle)	(FS) FD of _____ Field Blank (lot or equipment)	(FS) FD of _____ Field Blank (lot or equipment)	~~FS~~ 9/22/03 (FD) of CS-17308 Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	(Surface Soil) Other _____	(Surface Soil) Other _____	(Surface Soil) Other _____
Type (circle)	Grab (Comp. # subsamples 3)	Grab (Comp. # subsamples 3)	Grab (Comp. # subsamples 3)
Sample Time	0957	1001	1007
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled-area	~~BD~~ AO 000680 CENTER - NO LIV 10'N - NO LIV 10'S - NO LIV	~~BD~~ AO 000680 Center - NO LIV 10'N - NO LIV 10'S - NO LIV	~~BD~~ AO 000680 Center - NO LIV 10'N - NO LIV 10'S - NO LIV.
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by RE

DW 092003

vs 052003

Sheet No.: CSS-S- 005863

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 94 Sampling Date: 9/20/03

Address: J. NEILS PARK Owner/Tenant: LINCOLN COUNTY PARK

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZAMBRANO RICH EUSRCE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17310	CS- 17311	CS- 17312
Location ID	SP- 123890	SP- 123891	SP- 123892
Sample Group	PARK (WP 11)	PARK (WP 12)	PARK (WP 13)
Location Description (circle)	Back yard Front yard Side yard Driveway Other WALKING PATH 11	Back yard Front yard Side yard Driveway Other WALKING PATH 12	Back yard Front yard Side yard Driveway Other WALKING PATH 13
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1019	1024	1032
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD-~~ AD-000680 Center - NO LIV 10' E - NO LIV 10' W - NO LIV	~~BD-~~ AD-000680 Center - NO LIV 10' E - NO LIV 10' W - NO LIV	~~BD-~~ AD-000680 LIV Center - NO ~~LIV~~ 10' E - NO LIV 10' W NO LIV
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by RE

DW 092003

vs 052003

Sheet No.: CSS-S- 005864

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 94 Sampling Date: 9/20/03

Address: J NEILS PARK Owner/Tenant: LINCOLN COUNTY PARK

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Robert Hunt / Danny Zambrano Rich Eustice

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17313	CS- 17314	CS- 17315
Location ID	SP- 123893	SP- 123894	SP- 123895
Sample Group	Park (WP14)	Park (WP15)	Park (WP16)
Location Description (circle)	Back yard Front yard Side yard Driveway Other WALKING PATH 14	Back yard Front yard Side yard Driveway Other WALKING PATH 15	Back yard Front yard Side yard Driveway Other WALKING PATH 16
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1052	1104	1112
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 Center - NO LIV 10'E - NO LIV 10'W - NO LIV	~~BD~~ AD 000680 Center - NO LIV 10'N - NO LIV. 10'S - NO LIV.	~~BD~~ AD 000680 Center - NO LIV 10'N - NO LIV. 10'S - NO LIV.
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RM	QC by [illegible]

DW 092003

vs 052003

Sheet No.: CSS-S- 005865

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: ~~95~~ 100275 9/26 Page No: ~~95~~ 94-95 9/26 Sampling Date: 9/20/03

Address: J. NEILS PARK Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other ____ Names: DANNY ZIMBRANO / ROBERT HUNT RICH EUSTICE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17316	CS- 17317	CS- 17318
Location ID	SP- 123896	SP- 123897	SP- 123898
Sample Group	PARK (WP 17)	PARK (SG 8)	PARK ~~(SG)~~ 9/26 (SG 9)
Location Description (circle)	Back yard Front yard Side yard Driveway Other WALKING PATH 17	Back yard Front yard Side yard Driveway Other GRID 8	Back yard Front yard Side yard Driveway Other GRID 9
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5
Sample Time	1119	1302	1309
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	9/26 ~~BD~~ AD-000680 Center - NO LV 10'N NO LIV 10'S NO LIV	9/26 ~~BD~~ AD-000680 center - NO LV 75'N NO LIV 75'S NO LIV 75'E NO LIV 75'W NO LIV	9/26 ~~BD~~ AD-000680 center - NO LIV 75'N - NO LIV 75'S NO LIV 75'E NO LIV 75'W NO LIV
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by PM	QC by RE

DW 092003

vs 052003

Sheet No.: CSS-S- 005866

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 95 Sampling Date: 9/20/03

Address: J NEILS PARK Owner/Tenant: Lincoln County PARKS

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZAMBRANO RICH EUSTICE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17319	CS- 17320	CS-17321 ~~CS- 17321~~ RH 9/20/03
Location ID	SP- 123899	SP- 123900	SP- 123901
Sample Group	~~GRID~~ PARK (G10)	PARK (G11)	PARK (G12)
Location Description (circle)	Back yard Front yard Side yard Driveway Other GRID 10	Back yard Front yard Side yard Driveway Other GRID 11	Back yard Front yard Side yard Driveway Other GRID 12
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5
Sample Time	1314	1317	1329
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 CENTER - NO L.V. 75'N NO L.V. 75'S NO L.V. 75'E NO L.V. 75'W NO L.V.	~~BD~~ AD-000680 CENTER - NO L.V. 75'N NO L.V. 75'S NO L.V. 75'E NO L.V. 75'W NO L.V.	~~BD~~ AD-000680 CENTER NO L.V. 75'N NO L.V. 75'S NO L.V. 75'E NO L.V. 75'W NO L.V.
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by RE

DW 092003

vs 052003

Sheet No.: CSS-S- 005867

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 95-96 Sampling Date: 9/20/03

Address: J NEILS PARK Owner/Tenant: Lincoln County Parks

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZAMBRANO RICH EUSTICE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17322	CS- 17323	CS- 17324
Location ID	SP- 123902	SP- 123903	SP- 123904
Sample Group	PARK (G13)	PARK (G2)	PARK (G3)
Location Description (circle)	Back yard Front yard Side yard Driveway Other GRID 13	Back yard Front yard Side yard Driveway Other GRID 2	Back yard Front yard Side yard Driveway Other GRID 3
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5
Sample Time	1334	1401	1417
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD 000660 CENTER - NO LIV 75'N - NO LIV 75'S NO LIV 75'E - NO LIV 75'W - NO LIV	~~BD~~ AD 000660 CENTER - NO LIV 75'N - NO LIV 75'S - NO LIV 75'E - NO LIV 75'W - NO LIV	~~BD~~ AD 000660 CENTER - NO LIV 75'N - NO LIV 75'S - NO LIV 75'E - NO LIV 75'W NO LIV
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by RE

DW 09/20/03

vs 052003

Sheet No.: CSS-S- 0.05358

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 96 Sampling Date: 9/20/03

Address: J NEILS PARK Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other ____ Names: DANNY ZIMBRINO RICH EUSTICE ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17325	CS- 17326	CS- 17327
Location ID	SP- 123905	SP- 123906	SP- 123907
Sample Group	PARK (G18)	PARK (G19)	PARK (G20)
Location Description (circle)	Back yard Front yard Side yard Driveway Other GRID 18	Back yard Front yard Side yard Driveway Other GRID 19	Back yard Front yard Side yard Driveway Other GRID 20
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5
Sample Time	~~1417~~ 1439	1423	1419
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	9	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000GEO CENTER - NO LIV 75'N - NO LIV 75'S - NO LIV 75'E NO LIV 75'W NO LIV	~~BD~~ AD-000GEO CENTER - NO LIV 75'N - NO LIV 75'S - NO LIV 75'E - NO LIV 75'W NO LIV	~~BD~~ AD-000GEO CENTER - NO LIV 75'N - NO LIV 75'S - NO LIV 75'E - NO LIV 75'W - NO LIV
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by [illegible]

DW 09.20.03

vs 052003

Sheet No.: CSS-S- 005869

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 97 Sampling Date: 9/20/03

Address: J. Neils Park Owner/Tenant: Lincoln County Parks

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other ____ Names: Robert Hunt / Danny Zambrano Rich Eustice

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17328	CS- 17329	CS- 17330
Location ID	SP- 123908	SP- 123909	SP- 123910
Sample Group	PARK (G21)	PARK (G22)	PARK (G23)
Location Description (circle)	Back yard Front yard Side yard Driveway Other GRID 21	Back yard Front yard Side yard Driveway Other GRID 22	Back yard Front yard Side yard Driveway Other GRID 23
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5
Sample Time	1513	1519	1524
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 Center - no L.V. 75' N - no L.V. 75' S - no L.V. 75' E - no L.V. 75' W	~~BD~~ AD-000680 Center - no L.V. 75' N - no L.V. 75' S - no L.V. 75' E - no L.V. 75' W no L.V.	~~BD~~ AD-000680 Center - no L.V. 75' N - no L.V. 75' S - no L.V. 75' E no L.V. 75' W no L.V.
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by [illegible]

DW 092003

vs 052003

Sheet No.: CSS-S- 005872

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: [illegible]275 Page No: 100 Sampling Date: 9/22/03

Address: J Neils Park Owner/Tenant: Lincoln County Park

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Robert Hunt, Rich Eustice, Danny Zambrano

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17341	CS- 17342	CS- 17343
Location ID	SP- 123921	SP- 123922	SP- 123923
Sample Group	PARK (SG-17)	PARK (SG ~~14~~ 4)	PARK (SG 1)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area SG 7	Back yard Front yard Side yard Driveway Other Area ~~SG 4~~ SG 4	Back yard Front yard Side yard Driveway Other Area SG 1
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5
Sample Time	0941	0943	0947
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD [illegible] CENTER - NO LIV 75' ~~28~~ N - NO LIV 75'S - NO LIV 75'E NO LIV 75'W NO LIV	~~BD~~ AD [illegible] CENTER - NO LIV 75 N - NO LIV 75 S NO LIV 75 E NO LIV 75 W NO LIV	~~BD~~ AD [illegible] CENTER - NO LIV 20 N NO LIV 75'S NO LIV 75'E NO LIV 75'W NO LIV
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by GH	QC by NZ

DW 09-22-03

vs 052003

Sheet No.: CSS-S- 005873

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 100 ~~[illegible]~~ Sampling Date: 9/22/03

Address: J. Neils Park Owner/Tenant: Lincoln County Parks

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway (Other) PARK)

Sampling Team: (circle) (CDM) MACTEC Other _____ Names: Mike Eunice, Jerry Zimbovic, Robert Hunt

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17344	CS- 17345	CS- 17346
Location ID	SP- 123924	SP- 123925	SP- 123926
Sample Group	PARK (SG 5)	PARK (SG 6)	PARK (SG 16)
Location Description (circle)	Back yard Front yard Side yard Driveway (Other) Area SG 5	Back yard Front yard Side yard Driveway (Other) Area SG 6	Back yard Front yard Side yard Driveway (Other) Area SG 16
Category (circle)	(FS) FD of _____ Field Blank (lot or equipment)	(FS) FD of _____ Field Blank (lot or equipment)	(FS) FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	(Surface Soil) Other _____	(Surface Soil) Other _____	(Surface Soil) Other _____
Type (circle)	Grab (Comp. # subsamples 5)	Grab (Comp. # subsamples 5)	Grab (Comp. # subsamples 5)
Sample Time	1013	1033	1031
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD COUGED CENTER - NO L.V. 75'N - NO L.V. 75'S - NO L.V. 75'E - NO L.V. 75'W NO L.V.	~~BD~~ AD COUGED CENTER - NO L.V. 75'N - NO L.V. 75'S - NO L.V. 75'E - NO L.V. 75'W NO L.V.	~~BD~~ AD COUGED CENTER - NO L.V. 75'N - NO L.V. 75'S - NO L.V. 75'E - NO L.V. 75'W NO L.V.
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by RH	QC by AR

DW 09.22.03

vs 052003

Sheet No.: CSS-S- 005901

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No 100-101 Sampling Date: 9/22/03

Address: J. Neils Park Owner/Tenant: Lincoln County Parks

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Robert Hunt Danny Zambrano Rich Eustice

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17347	CS- 17348	CS- 17349
Location ID	SP- 123927	SP- 123927	SP- 123928
Sample Group	PARK SG15	~~PARK~~ PARK (SG15 dup)	PARK (HP8)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area SG15	Back yard Front yard Side yard Driveway Other Area ~~SG15~~ SG15	Back yard Front yard Side yard Driveway Other Area HP8
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	~~FS~~ FD of CS 17347 Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 5	Grab Comp. # subsamples 5	Grab Comp. # subsamples 3
Sample Time	~~1513~~ 1054	1102	1358
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 Center - No L.V 75 N - No L.V 75 S - No L.V 75 E - No L.V 75 W - No L.V	~~BD~~ AD-000680 Center - No L.V 75 N - No L.V 75 S - No L.V 75 E - No L.V 75 W - No L.V	~~BD~~ AD-000680 Center - No L.V 10 N - No L.V. 10 S - No L.V
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by [illegible]	QC by [illegible]

DW 09.22.03

vs 052003

Sheet No.: ~~CSS-S-~~ 005902

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No 101-102 Sampling Date: 9/22/03

Address: J. NEILS PARK Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT RICH EUSKE DANNY ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17350	CS- 17351	CS- 17352
Location ID	SP- 123929	SP- 123930	SP- 123931
Sample Group	Park (HP4)	Park (HP3)	Park (HP2)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area HP4	Back yard Front yard Side yard Driveway Other Area HP3	Back yard Front yard Side yard Driveway Other Area HP2
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless otherwise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1357	1407	1404
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ ~~AD-000680~~ AD-000680 Center - NO LIV. 10'N - NO LIV. 10'S - NO LIV.	~~BD~~ 9/22/03 AD-000680 Center - NO LIV. 10'N NO LIV. 10'S NO LIV	~~BD~~ 9/22/03 AD-000680 Center - NO LIV. 10'N - NO LIV. 10'S - NO LIV.
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by RE

DW 09.22.03

vs 052003

Sheet No.: CSS-S- 005903

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 101-102 Sampling Date: 9/22/03

Address: J. Nelis Park Owner/Tenant: Lincoln County Park

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Robert Hunt Danny Zambrano Rich Eupice

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17353	CS- 17354	CS- 17355
Location ID	SP- 123932	SP- 123933	SP- 123934
Sample Group	PARK (HP 1)	PARK (HP 7)	PARK (HP 6)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area HP 1	Back yard Front yard Side yard Driveway Other Area HP 7	Back yard Front yard Side yard Driveway Other Area HP 6
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1426	1419	1439
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 Center - NO LIV. 10' N - NO LIV. 10' S - NO LIV.	~~BD~~ AD-000680 Center - NO LIV. 10' E - NO LIV. 10' W - NO LIV.	~~BD~~ AD-000680 Center - NO LIV. 10' E - NO LIV. 10' W NO LIV.
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by [illegible]	QC by [illegible]

DW 09.22.03

vs 052003

Sheet No.: CSS-S- 005904

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 102 Sampling Date: 9/22/03

Address: J Nelis Park Owner/Tenant: Lincoln County Parks

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other ____ Names: Danny Zambrano Robert Hunt Rich Eustice

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17356	CS- 17357	CS- 17358
Location ID	SP- 123935	SP- 123936	SP- 123937
Sample Group	PARK (HP5)	PARK (HP9)	PARK (RP1)
Location Description (circle)	Back yard Front yard Side yard Driveway Other AREA HP5	Back yard Front yard Side yard Driveway Other AREA HP9	Back yard Front yard Side yard Driveway Other AREA RP1
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 5
Sample Time	1441	1446	1451
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ 9/22/03 AD-000680 CENTER - NO LIV. 10' E - NO LIV. 10' W - NO LIV.	~~BD~~ AD-000680 CENTER - NO LIV 10' N - NO LIV. 10' S - NO LIV.	~~BD~~ 9/22/03 CENTER - NO LIV. 75' N - NO LIV. 75' S - NO LIV. 75' E - NO LIV 75' W NO LIV.
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by [illegible]	QC by [illegible]

DW 09.22.03

vs 052003

Sheet No.: CSS-S 005905

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 102-103 Sampling Date: 9/22/03

Address: 5 NEILS PARK Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: RICH EUSTICE DANNY ZAMBA ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17359	CS- 17360	CS-17361 ~~CS-17361~~ 9/22/03
Location ID	SP- 123938	SP- 123939	SP- 123940
Sample Group	PARK (AR4)	PARK (AR3)	PARK (AR2)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area AR4	Back yard Front yard Side yard Driveway Other Area AR3	Back yard Front yard Side yard Driveway Other Area AR2
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1501	1504	1511
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ 9/26 AD-000680 Center - NO L.V 10' E - NO L.V. 10' W - NO L.V.	~~BD~~ 9/26 AD-000680 Center - NO L.V. 10' E - NO L.V. 10' W - NO L.V.	~~BD~~ 9/26 AD-000680 Center - NO L.V 10' E - NO L.V 10' W - NO L.V
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by [illegible]	QC by [illegible]

DW 09.22.03

vs 052003

Sheet No.: CSS-S- 005966

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 103 Sampling Date: 9/22/03

Address: J Neils Park Owner/Tenant: Lincoln County Parks

Business Name: —

Land Use: (circle) Residential School Commercial Mining Roadway Other PARK

Sampling Team: (circle) CDM MACTEC Other _____ Names: Robert Hunt Rich Eustice Danny Zambano

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17362	CS- 17363	
Location ID	SP- 123941	SP- 123942	
Sample Group	PARK (AR1)	PARK (AR RP2)	
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area AR1	Back yard Front yard Side yard Driveway Other Area (RP2)	Back yard Front yard Side yard Driveway Other _____
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 5	Grab Comp. # subsamples ____
Sample Time	1514	1534	
Top Depth (in.)	0	0	
Bottom Depth (in.)	6	6	
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 Center - NO L.V. 10'E - NO L.V. 10'W - NO L.V.	~~BD~~ AD-000680 CENTER - NO L.V. 75'N - NO L.V. 75'S - NO L.V. 75'E - NO L.V. 75'W - NO L.V.	BD _____
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by RE

DW 09.22.03

vs 052003

Sheet No S- 000633

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100319 Page No: 112 Sampling Date: 3-8-05

Address: J Neils Park Owner/Tenant: Lincoln County Parks

Business Name: ——

Land Use: Residential School Commercial Mining Roadway Other (Park)

Sampling Team: MACTEC CDM Other _____ Names: B. Shoup, T. Sesti

Data Item	Sample 1	Sample 2	Sample 3
Index ID	BS 3-8-05 CS- 20062	CS- 20063	CS- 20064
Location ID	BS 3-8-05 SP- 125759	SP- 125760	SP- 126253
Sample Group	Park →		
Location Description (circle)	Back yard Front yard Side yard Driveway Other N ball field	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp # subsamples 5	Grab Comp # subsamples 5	Grab Comp # subsamples 5
Sample Time	1340	1345	BS 3/8/05 ~~1347~~ 1347
Top Depth (in.)	0	0	0
Bottom Depth (in.)	1	1	1
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 Home plate to 2nd base	~~BD~~ 2nd base to home plate	~~BD~~ → pitching mound + infield
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by BS	QC by TJ

vs 101503

Sheet No.: S- 00063

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 160319 Page No: 112 Sampling Date: 3-8-05

.ddress: J Neils Park Owner/Tenant: Lincoln County Parks

Business Name: —

Land Use: Residential School Commercial Mining Roadway Other(Park)

Sampling Team: MACTEC CDM Other _____ Names: B. Shoup, T. Sesti

Data Item	Sample 1	Sample 2	Sample 3
Index ID	3-8-05 CS- 20065	CS- 20066	CS- 20067
Location ID	3-8-05 SP- 126254	SP- 126255	SP- 126256
Sample Group	Park →		
Location Description (circle)	Back yard Front yard Side yard Driveway Other E ball field	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp # subsamples 5	Grab Comp # subsamples 5	Grab Comp # subsamples 5
Sample Time	1355	1400	1411
Top Depth (in.)	0	0	0
Bottom Depth (in.)	1	1	1
Field Comments Note if vermiculite is visible in sampled area	~~BD-~~ AD-000680 Home plate to 2nd base	~~BD~~ 2nd base to Home plate	~~BD~~ pitching mound + infield
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by	QC by

vs 101503

Sheet No.: S- 000633

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 150319 Page No: 112 Sampling Date: 3-8-05

Address: J Neils Park Owner/Tenant: Lincoln County Parks

Business Name: —

Land Use: Residential School Commercial Mining Roadway Other (Park)

Sampling Team: MACTEC CDM Other _____ Names: R. Shoup, T. Sesti

Data Item	Sample 1	Sample 2	Sample 3
Index ID	as 3-8-05 CS- 20068	CS- 20069	CS- 20070
Location ID	as 3-8-05 SP- 126257	SP- 126258	SP- 126259
Sample Group	Park →		
Location Description (circle)	Back yard Front yard Side yard Driveway Other S ball field	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 5	Grab Comp # subsamples 5	Grab Comp # subsamples 5
Sample Time	1418	1423	1432
Top Depth (in.)	0	0	0
Bottom Depth (in.)	1	1	1
Field Comments Note if vermiculite is visible in sampled area	BD AD -006630 Home plate to 2nd base	BD 2nd base to home plate	BD pitching mound + infield
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by BS	QC by TS

vs 101503

Sheet No.: S- 000633

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100319 Page No: 112 Sampling Date: 3-8-05

Address: J Neils Park Owner/Tenant: Lincoln County Parks

Business Name: ——

Land Use: Residential School Commercial Mining Roadway Other (Park)

Sampling Team: MACTEC CDM Other _____ Names: B Shoup, T. Sesti

Data Item	Sample 1	Sample 2	Sample 3
Index ID	BS 3-8-05 CS- 20071	CS- 20072	CS- 20073
Location ID	BS 3-8-05 SP- 126260	SP- 126550	SP- 126551
Sample Group	Park →		
Location Description (circle)	Back yard Front yard Side yard Driveway Other W ball field	Back yard Front yard Side yard Driveway ~~Other~~	Back yard Front yard Side yard Driveway ~~Other~~
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp # subsamples 5	Grab Comp # subsamples 5	Grab Comp # subsamples 5
Sample Time	1440	1446	1459
Top Depth (in.)	0	0	0
Bottom Depth (in.)	1	1	1
Field Comments Note if vermiculite is visible in sampled area	~~BD~~ AD-000680 Home plate to 2nd base	~~BD~~ 2nd base to home plate	BD- pitching mound + infield
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by BS	QC by TB

vs 101503

Appendix D
Analytical Results for September 2003 and March 2005 J. Neils Park Sampling Events

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	PLM		
										Method	LA Bin	LA (%)
CS-17286-FG		N/A	J Neils Park DW 091903	Park	Sample grid SG7	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17287-FG		N/A	J Neils Park	Park	Sample grid 14	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17288-FG		N/A	J Neils Park	Park	Walking path 21	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17289-FG		N/A	J Neils Park	Park	Walking path 20	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17290-FG		N/A	J. Neils Park	Park	Walking path 19	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17291-FG		N/A	J Neils Park	Park	Walking path 18	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17292-FG		N/A	J Neils Park	Park	WP 22	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17293-FG		N/A	J. Neils Park	Park	WP 23	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17294-FG		N/A	J Neils Park	Park	WP 24	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17295-FG		N/A	J Neils Park	Park	Walking path 25	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17296-FG		N/A	J Neils Park	Park	Walking path 26	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17297-FG	cs-17296	N/A	J Neils Park	Park	Walking path 26	Soil-Like	Surface soil	Field Duplicate	9/19/2003	PLM-VE	A	ND
CS-17298-FG		N/A	J. Neils Park	Park	Walking path1	Soil-Like	Surface soil	Field Sample	9/18/2003	PLM-VE	A	ND
CS-17299-FG		N/A	J Neils Park	Park	Walking path2	Soil-Like	Surface soil	Field Sample	9/18/2003	PLM-VE	A	ND
CS-17300-FG		N/A	J Neils Park DW 091903	Park	Walking path3	Soil-Like	Surface soil	Field Sample	9/18/2003	PLM-VE	A	ND
CS-17301-FG		N/A	J Neils Park	Park	Walking path4	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17302-FG		N/A	J Neils Park	Park	Walking path5	Soil-Like	Surface soil	Field Sample	9/19/2003	PLM-VE	A	ND
CS-17304-FG		N/A	J Neils Park	Park	Area walking path 6	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17305-FG		N/A	J Neils Park	Park	Walking path 7	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17306-FG		N/A	J Neils Park	Park	Walking path 8	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	B1	TR
CS-17307-FG		N/A	J Neils Park	Park	Walking path 9	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17308-FG		N/A	J. Neils Park	Park	Walking path 10	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17309-FG	CS-17308	N/A	J Neils Park	Park	Walking path 10	Soil-Like	Surface soil	Field Duplicate	9/20/2003	PLM-VE	A	ND
CS-17310-FG		N/A	J Neils Park	Park	Walking path 11	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17311-FG		N/A	J. Neils Park	Park	Walking path 12	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17312-FG		N/A	J Neils Park	Park	Walking path 13	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17313-FG		N/A	J. Neils Park	Park	Walking path 14	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17314-FG		N/A	J. Neils Park	Park	Walking path 15	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17315-FG		N/A	J. Neils Park	Park	Walking path 16	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17316-FG		N/A	J. Neils Park	Park	Walking path 17	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17317-FG		N/A	J Neils Park	Park	Grid 8	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17318-FG		N/A	J. Neils Park	Park	Grid 9	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17319-FG		N/A	J. Neils Park	Park	Grid 10	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17320-FG		N/A	J. Neils Park	Park	Grid 11	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17321-FG		N/A	J Neils Park	Park	Grid 12	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17322-FG		N/A	J. Neils Park	Park	Grid 13	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17323-FG		N/A	J. Neils Park	Park	Grid 2	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17324-FG		N/A	J. Neils Park	Park	Grid 3	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17325-FG		N/A	J. Neils Park	Park	Grid 18	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17326-FG		N/A	J. Neils Park	Park	Grid 19	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17327-FG		N/A	J. Neils Park	Park	Grid 20	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17328-FG		N/A	J. Neils Park	Park	Grid 21	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17329-FG		N/A	J. Neils Park	Park	Grid 22	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17330-FG		N/A	J. Neils Park	Park	Grid 23	Soil-Like	Surface soil	Field Sample	9/20/2003	PLM-VE	A	ND
CS-17341-FG		N/A	J. Neils Park	Park	Area SG 7	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	PLM		
										Method	LA Bin	LA (%)
CS-17342-FG		N/A	J. Neils Park	Park	Area SG4	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17343-FG		N/A	J. Neils Park	Park	Area SG1	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17344-FG		N/A	J. Neils Park	Park	Area SG5	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	B1	TR
CS-17345-FG		N/A	J. Neils Park	Park	Area SG6	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17346-FG		N/A	J. Neils Park	Park	Area SG16	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17347-FG		N/A	J. Neils Park	Park	Area SG15	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17348-FG1	CS-17347	N/A	J. Neils Park	Park	Area SG15	Soil-Like	Surface soil	Field Duplicate	9/22/2003	PLM-VE	A	ND
CS-17349-FG1		N/A	J. Neils Park	Park	Area HP8	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17350-FG1		N/A	J. Neils Park	Park	Area HP4	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17351-FG1		N/A	J. Neils Park	Park	Area HP3	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17352-FG1		N/A	J. Neils Park	Park	Area HP2	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17353-FG1		N/A	J. Neils Park	Park	Area HP1	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17354-FG1		N/A	J. Neils Park	Park	Area HP7	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17355-FG1		N/A	J. Neils Park	Park	Area HP6	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	B1	TR
CS-17356-FG1		N/A	J. Neils Park	Park	Area HP5	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17357-FG1		N/A	J. Neils Park	Park	Area HP9	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17358-FG1		N/A	J. Neils Park	Park	Area RP1	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17359-FG		N/A	J. Neils Park	Park	Area AR4	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17360-FG1		N/A	J. Neils Park	Park	Area AR3	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17361-FG1		N/A	J. Neils Park	Park	Area AR2	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17362-FG1		N/A	J. Neils Park	Park	Area AR1	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND
CS-17363-FG		N/A	J. Neils Park	Park	Area (RP2)	Soil-Like	Surface soil	Field Sample	9/22/2003	PLM-VE	A	ND

FILE NAME RESI_114045_PLM_VE.xls

Version 2

PLM VISUAL ESTIMATION DATA RECORDING SHEET

Laboratory Name: RESI
Job Number: 114045
Date Received: 3/14/2005
SOP Name/Revision: SRC-Libby-03-Rev0
Spreadsheet version: 2

Data Entry by: G. Vettramo
Checked by: S. Gardaten

EPA Index ID	Index Suffix Char	Index Suffix No.	QA Type (see list)	Lab Sample ID	Date Analyzed	Analyst Name	Sample Appearance	Ref Material (B or T)	Libby Amphibole (LA)			Other Amphibole (OA)			Chrysotile (Ch)		Deviation?	Comments
									Qual	LA-MF (%)	Bin	Qual	OA-AF (%)	OA Type (see list)	Qual	Ch-AF (%)		
CS-19789	FG	1	Not QA	952447	3/15/2005	RSW	Gray powder, fine	ISTM	ND		A	ND			ND			
CS-19790	FG	1	Not QA	952448	3/15/2005	RSW	Gray powder, fine	ISTM	ND		A	ND			ND			
CS-19791	FG	1	Not QA	952449	3/15/2005	RSW	Tan soil, fine	ISTM	<	1	B2	ND			ND			
CS-20062	FG	1	Not QA	952450	3/15/2005	RSW	Tan soil, fine	ISTM	ND		A	ND			ND			
CS-20063	FG	1	Not QA	952451	3/15/2005	RSW	Tan soil, fine	ISTM	ND		A	ND			ND			
CS-20064	FG	1	Not QA	952452	3/15/2005	RSW	Tan soil, fine	ISTM	TR		B1	ND			ND			
CS-20065	FG	1	Not QA	952453	3/15/2005	RSW	Tan soil, fine	ISTM	ND		A	ND			ND			
CS-20066	FG	1	Not QA	952454	3/15/2005	RSW	Tan soil, fine	ISTM	ND		A	ND			ND			
CS-20067	FG	1	Not QA	952455	3/15/2005	RSW	Tan soil, fine	ISTM	ND		A	ND			ND			
CS-20068	FG	1	Not QA	952456	3/15/2005	RSW	Tan soil, fine	ISTM	ND		A	ND			ND			
CS-20069	FG	1	Not QA	952457	3/15/2005	RSW	Tan soil, fine	ISTM	ND		A	ND			ND			
CS-20070	FG	1	Not QA	952458	3/15/2005	RSW	Tan soil, fine	ISTM	ND		A	ND			ND			
CS-20071	FG	1	Not QA	952459	3/15/2005	RSW	Tan soil, fine	ISTM	ND		A	ND			ND			
CS-20072	FG	1	Not QA	952460	3/15/2005	RSW	Tan soil, fine	ISTM	ND		A	ND			ND			
CS-20073	FG	1	Not QA	952461	3/15/2005	RSW	Tan soil, fine	ISTM	<	1	B2	ND			ND			
CS-19790	FG	1	LD	952448	3/15/2005	LW	Gray powder	ISTM	ND		A	ND			ND			
CS-20067	FG	1	LD	952455	3/15/2005	LW	Tan soil	ISTM	ND		A	ND			ND			

Appendix E
Request Letter and Permit for Sampling Along Montana State Highway 37

Montana Department of Transportation

Encroachment Application And Permit

Printed on: July 21, 2003

Permit number	Permit type	Maintenance Division
455	TEMPORARY	KALISPELL

APPLICANT INFORMATION:

Name: ~~JEFF MANTERA~~ Dee Warren **Address:** 318 LOUISIANA AVENUE

City: LIBBY **State:** MT

Phone: 1-303-295-1237 **Zip:** 59923

Corporation Name: CDM FEDERAL PROGRAMS CORPORATION

Nature of Permit Desired:

COLLECTING OF SOIL SAMPLES ALONG THE RIGHT OF WAY OF MDT. THERE WILL BE APPROXIMATELY 20-30 QUART SAMPLES TAKEN.

ENCROACHMENT LOCATION INFORMATION:

Sign Route	Beginning Reference Point:	Ending Reference Point:
MT 37	000+0.800	006+0.000

County:	Township:	Range:	Section:	Qrtr. Sec:	Qrtr. Qrtr. Sec:
LINCOLN	T30N	R31W	3		

Comments:

1. THE AREA OF SAMPLING WILL BE ON MT 37 FROM KOOTENAI RIVER TO THE RAINY CREEK ROAD.
2. PERMITTEE IS REQUIRED TO LOCATE ALL UTILITIES AND ENCROACHMENTS CURRENTLY BURIED ON MDT RIGHT OF WAY IF NECESSARY.
3. APPROXIMATELY 20-30 QUART SIZE SAMPLES ARE BEING TAKEN.
4. ALL SAMPLED AREAS WILL BE FILLED OR SMOOTHED OUT.
5. CONTACT THE AREA SUPERVISOR, VAN SWEARINGEN AT 293-7921 TWENTY-FOUR HOURS IN ADVANCE OF WORK AND VAN OR ONE OF HIS DESIGNEE WILL BE ON SITE FOR INSPECTION.
6. THIS ENCROACHMENT IF FROM STATION 41+19 TO 413 +90.
7. PERMITTEE IS REQUIRED TO PROVIDE TRAFFIC CONTROL AND OR SIGNING AS NEEDED(SEE ATTACHMENT).

ENCROACHMENT PERMIT INFORMATION:

Application Date	Permit Issue Date	Permit End Date	Permit Class
21-JUL-03	21-JUL-03	30-DEC-03	D

Approved by: STEPHEN L. HERZOG

(Approval Signature)

Dee Warren

(Applicant Signature)

Montana Department of Transportation

Encroachment Application And Permit

Printed on: July 21, 2003

1 TERM. This permit shall be in full force and effect from the date hereof until revoked as herein provided.

2 REVOCATION. This permit may be revoked by State upon giving 45 days notice to Permittee by ordinary mail, directed to the address shown in the application hereto attached, but the State reserves the right to revoke this permit without giving said notice in the event Permittee breaks any of the conditions or terms set forth herein.

3 COMMENCMENT OF WORK. No work shall be commenced until Permittee notifies Field Maintenance Chief shown in application when he proposes to commence work.

4 CHANGES IN HIGHWAY. If State changes highway necessitating changes in structures or installations installed under this permit, Permittee shall make necessary changes without expense to State.

5 STATE SAVED HARMLESS FROM CLAIMS. In accepting this permit the Permittee, its/his successors or assigns, agree to protect the State and save it harmless from all claims, actions or damage of every kind and description which may accrue to, or be suffered by, any person or persons, corporations or property by reason of the performance of any such work, character of materials used, or manner of installations, maintenance and operation or by the improper occupancy of said highway right of way, and in case any suit or action is brought against the State and arising out of, or by reason of any of the above causes, the Permittee, its/his successors or assigns, will, upon notice to it/him of the commencement of such action, defend the same at its/his sole cost and expense and satisfy any judgment which may be rendered against the State in any suit or action.

6 PROTECTION OF TRAFFIC. Insofar as the interests of the State and the traveling public are concerned, all work performed under this permit shall be done under the supervision of the Field Maintenance Chief of the Montana Department of Transportation and his authorized representatives, and he/they shall indicate the traffic control devices, the lighting thereof at night, placing of flagmen and watchmen, the acceptable manner in which traffic is to be handled, and shall specify to Permittee how road surface is to be replaced if it is disturbed during operations, but said supervision shall in no way operate to relieve or discharge Permittee from any of the obligations assumed by acceptance of this permit, and especially those set forth under Section 5 hereof.

7 HIGHWAY DAMAGE. If the work done under this permit interfers in any way with the drainage of the State highway affected, Permittee shall, at its/his own expense, make such provisions as the State may direct to take care of said drainage.

8 RUBBISH AND DEBRIS. Upon completion of work contemplated under this permit, all rubbish and debris shall be immediately removed and the roadway and roadside left in a neat and presentable condition satisfactory to the State.

9 WORK TO BE SUPERVISED BY THE STATE. All work contemplated under this permit shall be done under the supervision of an to the satisfaction of the authorized representative of the State, and the State hereby reserves the right to order the change of location or removal of any structure or installation authorized by this permit at any time, said changes or removal to be made at the sole expense of the Permittee.

10 STATES RIGHT NOT TO BE INTERFERED WITH. All such changes, reconstruction or relocation shall be done by Permittee in such a manner as will cause the least interference with any of the State's work, and the State shall in no wise be liable for any damage to the Permittee by reason of any such work by the State, its agents, contractors or representatives, or by the exercise of any right by the State upon the highways by the installations or structures placed under the permit.

11 REMOVAL OF INSTALLATIONS OR STRUCTURES. Unless waived by the State, upon termination of this permit, the Permittee shall remove the installations or structures contemplated by this permit and restore the premises to the condition existing at the time of entering upon the same under this permit, reasonable and ordinary wear and tear and damage by the elements, or by circumstances over which the Permittee has no control, excepted.

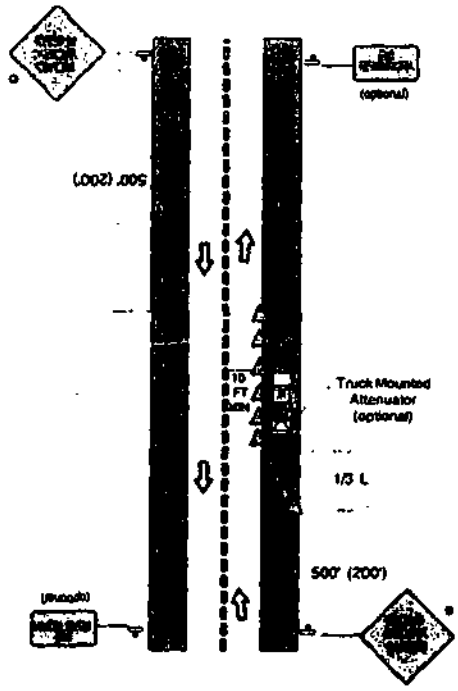
12 MAINTENANCE AT EXPENSE OF PERMITTEE. Permittee shall maintain, at its/his sole expense the installations and structures which this permit is granted, in a condition satisfactory to the State.

13 STATE NOT LIABLE FOR DAMAGE TO INSTALLATIONS. In accepting this permit the Permittee agrees that any damage or injur done to said installations or structures by a contractor working for the State, or by any State employee engaged in construction, alteration, repair, maintenance or improvement of the State highway, shall be at the sole expense of the Permittee.

14 STATE TO BE REIMBURSED FOR REPAIRING ROADWAY. Upon being billed therefore Permittee agrees to reimburse State for any expense incurred in repairing surface of roadway due to settlement at installation, or for any other damage to roadway as a result of the work performed under this permit.

o

Shoulder Work With Minor Encroachment



NOTES:

1. The treatment shown may be used on a minor road having low speeds. For higher speed traffic conditions, a lane closure should be considered.
2. The procedure shown should be adequate to carry bi-directional traffic at reduced speed through the activity area, provided the lanes are at least ten feet wide.
3. Where the opposite shoulder is suitable for carrying traffic and of adequate width, traffic lanes may be shifted by use of closely spaced channelizing devices, provided ten-foot wide lanes are maintained.
4. Additional advance warning may be appropriate, such as a ROAD NARROWS sign.
5. Portable concrete barriers may be used along the work space.
6. The protection vehicle is optional if taper and channelizing devices are used. For short-duration work, the taper and channelizing devices are optional if the protection vehicle with an activated flashing yellow light is used.

***For Utility Operations Use: "UTILITY WORK AHEAD"**

CDM

1331 17th Street, Suite 1050
Denver, Colorado 80202
tel: 303 295-1237
fax: 303 295-1895

July, 2003

Mr. Steve Herzog
Kalispell Maintenance
P.O. Box 7308
Kalispell, Montana 59904
(406) 751-2000

Subject: Request for Encroachment Permit

Dear Mr. Herzog:

The intent of this letter is to request from you an encroachment permit for the activities described below.

CDM Federal Programs Corporation (CDM) is currently under contract with the United States Environmental Protection Agency (EPA) to perform Remedial Investigation (RI) activities in and around Libby, Montana. As part of these activities, CDM has planned to collect surface soil samples along the right of way of Montana State Highway 37 between T30N R31W Section 3 and T31N R30W Section 32. This sampling will consist of collecting surficial (i.e., 0-6 inches below ground surface) soil from the right of way areas using hand trowels. No large equipment will be used during these activities that may interfere with traffic. These activities are projected to take approximately five days and are scheduled to occur sometime between July 8, 2003 and December 31, 2003.

If you need addition information please contact me at 303-295-1237 or monterajg@cdm.com

Thank You,

Jeff Montera
Project Manager
CDM Federal Programs Corporation

cc: Document Control Files

Appendix F
Logbook Pages for Highway 37 Sampling Event

Location HIGHWAY 37 Date 9/16/03 67

Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8
MONTANA - DOT.

0945 - At Rice Ranch through it location along HIGHWAY 37. Set up Road signs. (SHOULDER WORK AHEAD) @ 500' + Prepared to stop @ 200'. Mark location 24 - North + South of HIGHWAY 37.

1022 - COLLECT SAMPLE 24 N
3 POINT COMPOSITE — 9/16/03

CS- 16872 9/16/03 SP- 123621 9/16/03

1026 - COLLECT Sample 24S 3 pt

CS- 16873 9/16/03 SP- 123622 9/16/03

FIELD DATA SHEET 005716 (CS-16872, CS-16873)

NO LIV. OBSERVED IN location 24.

~~IRS ID T4A09163~~ — 9/16/03

1105 SETTING UP @ LOCATION 23S + 23N HALFWAY BETWEEN RAILY CREEK RD + RICE RUN RD ~~THROUGH IT~~ 9/16/03 Raily Creek Rd is 0.4 mi FROM Rice Ran Rd ~~through it~~ 9/16/03 LOCATION 23S 23N is @ the 0.2 mi MARK BETWEEN the two ROADS. — 9/16/03

9/16/03

ROBERT HUNT 9/16/03

3 -

Location HIGHWAY 37 Date 9/16/03

Project / Client LIBBY ASBESTOS/U.S. EPA Region 8

MONTANA DOT

1115 · MARK sample locations - NORTH + SOUTH OF highway 37.

~~1022~~ (1127) - COLLECT ~~[illegible]~~ 23N sample - 3PT

CS- 16874 SP- 123623

~~M 9/16/03~~ FIELD DATA SHEET 005761

(1129) ~~24S~~ 23S CS- 16875 SP- 123624

FIELD DATA SHEET 005762

NO L.V. OBSERVED @ LOCATION 23

1300 - SETTING UP ON LOCATION 22 → LOCATION DOES NOT agree WITH GPS - HEAD BACK TO OFFICE TO check WITH IAN FAIRWEATHER. After looking over coordinates, IAN F. believes that the coordinates are referenced to points in Denver. The sampling team will begin with point 22 ~~and~~ M 9/16/03 @ Rainy Creek Rd + move ~~[illegible]~~ South along RT 37 in 1/4 mile intervals. M 9/16/03

1415 · BACK @ LOCATION 23 · SET UP CONES + ROAD SIGNS, ~~M 9/16/03~~

[signature] - ROBERT HUNT - 9/16/03

Location HIGHWAY 37 Date 9/16/03

Project / Client LIBBY ASBESTOS/U.S. EPA Region 8

MONTANA DOT

(1429) 22N CS- 16876 SP- 123625

FIELD DATA SHEET ~~005761~~ 005762

(1436) 22S CS- 16877 SP- 123626

FIELD DATA SHEET - ~~005761~~ 005762

NO L.V. OBSERVED @ LOCATION 22

GPS ID T4A09163 for LOCATION 22

1515 - SETTING UP ON LOCATION 22 - PARK @ pull OFF + WALK THE REST OF THE WAY. ~~M 9/16/03~~

GPS ID T4A09253 - 21N, 21S

(1547) 21N CS- 16878 SP- 123627

FIELD DATA SHEET 005818

(1549) 21S CS- 16879 SP- 123628

FIELD DATA SHEET ~~005818~~ 005819

NO L.V. OBSERVED @ LOCATION ~~22~~ 21

1615 · SETTING UP ON LOCATION 20S + 20N. RH 9/16/03

1632 ~~1639~~ 20N CS- 16880 SP- 123629

FIELD DATA SHEET 005815

* MODERATE - TO HIGH AMOUNTS OF L.V.

[signature] - ROBERT HUNT - 9/16/03

70 Location HIGHWAY 37 Date 9/16/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8
MONTANA DOT

(1639) CS- 17121 SP- 123629
20N-D0
FIELD DATA SHEET 005819

* MODERATE TO HIGH AMOUNTS OF L.V.

(1642) CS- 17122 SP- 123630
20S
FIELD DATA SHEET ~~005814~~ 005819

* FEW FLAKES OF L.V. OBSERVED

1705 - DEPART LOCATION 20N & 20S

9/16/03

9/16/03 ROBERT HUNT

71 Location CDM OFFICE Date 9/16/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8
MONTANA DOT

1715 - ARRIVE BACK @ CDM OFFICE
BEGIN END OF DAY ACTIVITIES - CHECKING PAPERWORK, DAILY REPORTS, ETC -

(1730)
EQUIPMENT BLANK CS- 17123 (BD-002015)
FIELD DATA SHEET 005820
EQUIPMENT BLANK COLLECTED FROM LOT # 1229 - SILICA SAND

1735 - RELINQUISH SOIL SAMPLES ON FIELD DATA SHEETS 005762, 005818, 005819 & 005815 TO SECURE SAMPLE STORAGE ROOM.

ROBERT HUNT

1800 - FINISHED FOR THE DAY

9/16/03

ROBERT HUNT 9/16/03

72 Location CDM OFFICE Date 9/17/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

NOTETAKER: ROBERT HUNT RH 9/17/03

PERSONNEL: CDM - ROBERT HUNT + DANNY ZAMBRANO

WEATHER: cloudy - cold (40°) - forecast AM. RAIN - cloudy. high of 56°

PPE: Level C / Level D modified

INSTRUMENTS: TRIMBLE GPS UNIT

CALIBRATION: NA

ACTIVITIES: SOIL sampling along Hwy 37 in accordance with document "Containment Screening study Libby Asbestos site, Operable Unit 4, Libby, MT"

0730 - Arrive onsite @ CDM OFFICE

BEGIN DAILY ACTIVITIES - gathering paperwork + field equipment. RH 9/17/03

0815 - MORNING RI MEETING. RH 9/17/03

- MORNING HEALTH & SAFETY MEETING ON RABIES. RH 9/17/03

0905 - Arrive @ HIGHWAY 37. IN VICINITY OF LOCATION 19.

9/17/03

ROBERT HUNT - 9/17/03

Location HIGHWAY 37 Date 9/17/03 73

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

MONTANA DOT

0905 Arrive @ location Highway 37 - location 19 - will collect a sample: north & south of road

0959 - COLLECT SAMPLE, 19 N

CS- 17124 SP- 123631

FIELD DATA SHEET 005821

1001 CS- 17125 SP- 123632

245 (20N)

195 FIELD DATA SHEET 005821

* NO L.V. OBSERVED @ location 19

GPS ID T4A09173 - FOR 19N, 19S *

245 RH 9/17/03

1045 - AT LOCATION 18S + 18N

1109 CS- 17126 SP- 123633

18N

FIELD DATA SHEET 005821

1112 CS- 17127 SP- 123634

18S

FIELD DATA SHEET 005822

GPS - T4B09173

@ 18N location center subsample + 100' W subsample - moderate L.V. NO L.V. OBSERVED @ 18S location

ROBERT HUNT - 9/17/03

Location HIGHWAY 37 Date 9/17/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

MONTANA DOT

1140 MARK LOCATION 17N + 17S.

1250 SETTING UP ON LOCATION 17N + 17S. RH 9/17/03

1310 17N CS- 17123 SP- 123635

FIELD DATA SHEET 005822

L.V. observed @ low sub sample (MODERATE)

1313 17S CS- 17129 SP- 123636

FIELD DATA SHEET 005822

NO L.V. OBSERVED @ location 17S

GPS ID T4C09173 - for location 17

1355 SETTING UP ON LOCATION 16N + 16S.

1417 16N CS- 17130 SP- 123637

FIELD DATA SHEET 005823

* MODERATE AMOUNTS OF L.V. OBSERVED IN CENTER + LOW'E SUBSAMPLE. TRACE IN LOW'W.

1422 16S CS- 17131 SP- 123638

FIELD DATA SHEET 005823

1426 LOW DUP CS- 17132 SP- 123638

FIELD DATA SHEET 005823

ROBERT HUNT 9/17/03

Location HIGHWAY 37 Date 9/17/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

MONTANA DOT

NO L.V. OBSERVED @ location 16S

GPS ID T4D09173 - FOR location 16

1505 SETTING UP ON LOCATION 15

GPS ID T4E09173

1524 15N CS- 17133 SP- 123639

FIELD DATA SHEET 005824

MODERATE L.V. @ CENTER + LOW'E - TRACE @ W

1527 15S CS- 17134 SP- 123640

FIELD DATA SHEET 005824

NO L.V. OBSERVED @ 15S. RH 9/17/03

1600 + SETTING UP ON LOCATION 14N + 14S.

1621 14N CS- 17135 SP- 123641

FIELD DATA SHEET 005824

MODERATE L.V. @ all SUBSAMPLES (14N)

1623 14S CS- 17136 SP- 123642

FIELD DATA SHEET 005824

FLAKE OF L.V. @ LOW'W SUBSAMPLE

GPS ID T4F09173 - FOR 14N + 14S

GPS ID T4G09173 FOR 24N, 23S, 23N, 20N, 20S. RH 9/17/03

ROBERT HUNT 9/17/03

78 Location HIGHWAY 37 Date 9/18/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

MONTANA D.O.T

0830 - Arrive @ location 13N-13S - mark sampling locations - set up signs + traffic cones

0857 13N CS- 17138 SP- 123643

FIELD DATA SHEET - 005827

MOBERTS L.V. @ 100'E + 100'W - TRACE LV @ Center

0903 13S CS- 17139 SP- 123644

FIELD DATA SHEET 005827

NO L.V. @ LOCATION 13 S.

0930 - SETTING UP @ LOCATION 12N-12S

0943 12N CS- 17140 SP- 123645

FIELD DATA SHEET - 005827

NO L.V. OBSERVED @ 12N

0949 12S CS- 17141 SP- 123646

FIELD ~~DAT~~ MARKER DATA SHEET 005828

NO L.V. OBSERVED @ 12S

1005 - SETTING UP ON LOCATION 11N + 11S. - PUT-UP - ROAD SIGNS + TRAFFIC CONES.

- ROBERT HUNT 9/18/03

Location HIGHWAY 37 Date 9/18/03

Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8

MONTANA D.O.T

1010
11N CS- 17142 SP- 123647
FIELD DATA SHEET 005828
TRACE L.V. @ Center + 100' W SUBSAMPLE

1017
11S CS- 17143 SP- 123648
FIELD DATA SHEET 005828
TRACE L.V. IN 100' E SUBSAMPLE
GPS ID T4A09183 FOR 11N, 11S, 10S, 10N
1040 - SETTING UP ON LOCATION 10S + 10N

1043
10N CS- 17144 SP- 123649
FIELD DATA SHEET 005829
TRACE L.V. @ 100' E. MODERATE L.V. @ 100' W

1046
10S CS- 17145 SP- 123650
FIELD DATA SHEET 005829

1049
10S-Dup CS- 17146 SP- 123650
FIELD DATA SHEET 005829
TRACE L.V. @ 100' E - MODERATE
L.V. @ CENTER + 100' W
GPS ID T4A09183 - FOR 10S FLOP

ROBERT HUNT 9/18/03

80

Location HIGHWAY 37 Date 9/16/03

Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8

MONTANA D.O.T

1108 - SETTING UP ON LOCATION 9S 19N -
SET UP ROAD SIGNS & TRAFFIC CONES

1119
9N CS- 17147 SP- 123651

FIELD DATA SHEET 005830 — 3 pt

MODERATE L.V. IN ALL 3 SUB SAMPLES

1124
9S CS- 17148 SP- 123652

FIELD DATA SHEET 005830 — 3 pt

TRACE L.V. IN ALL SUBSAMPLES

GPS ID T4809183 — 9/16/03

1315 - ~~FINISHED~~ SETTING UP @
LOCATION 8S & 8N - SET UP ROAD
SIGNS & TRAFFIC CONES. — 9/16/03

1331
8N CS- 17149 SP- 123653

FIELD DATA SHEET 005830

TRACE L.V. @ 100 - MODERATE L.V. @ 100 W+C

1333
8S CS- 17150 SP- 123654

FIELD ~~DATA~~ SHEET 005830 — 9/16/03

TRACE L.V. @ all three subsample locations

GPS ID T4C09183 — 9/16/03

ROBERT HUNT - 9/16/03

Location HIGHWAY 37 Date 9/10/03 81

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

MONTANA DOT

1350 - SETTING UP @ LOCATION 7S+7N

SET UP TRAFFIC CONES & ROAD SIGNS.

(1359) CS- 17151 SP- 123655

7N

FIELD DATA SHEET 005831

MODERATE L.V. @ CENTER + 100'W - NO L.V. @ E

(1402) CS- 17152 SP- 123656

7S

FIELD DATA SHEET 005831

NO L.V. OBSERVED IN ANY SUBSAMPLES

GPS ID - T4C09183

430 - SETTING UP ON LOCATION 6S+6N

(1437) CS- 17153 SP- 123657

6N

FIELD DATA SHEET 005832

TRACE L.V. @ all 3 SUBSAMPLES

(1441) CS- 17154 SP- 123658

6S

FIELD DATA SHEET 005832

TRACE L.V. @ 100' W. NO L.V @ CENTER + E

GPS ID T4D09183 - 6S + 6N

1500 - SETTING UP @ LOCATION 5S+5N.

9/10/03 ROBERT HUNT

ROBERT HUNT 9/10/03

82

Location HIGHWAY 37 Date 9/18/03

Project / Client LIBBY ASBESTOS / U.S. EPA Reg.

MONTANA DOT

1507 CS- 17155 SP- 123659

5N

FIELD DATA SHEET - 005832

TRACE L.V. @ CENTER SUB SAMPLE - NO @ NORTH EDGE

1509 CS- 17156 SP- 123660

5S

FIELD DATA SHEET - 005833

NO L.V. OBSERVED IN ANY SUB SAMPLES

GPS ID T4009183 — FOR 5N + 5S

1530 - SETTING UP @ LOCATION 4N, 4S, 3N, 3S, → LOCATION 3N, 3S IS @ RIVERSEDGE

LOCATION 3 IS PLACED 1/2 WAY BETWEEN RIVER AND WEST MARK OF LOCATION 4 - SUB SAMPLES OF LOCATION 3 ARE COLLECTED 25' E OF N OF CENTER LOCATION. — 9/18/03

1538 CS- 17157 SP- 123661

4N

FIELD DATA SHEET 005833

NO L.V. OBSERVED @ 4N LOCATION

1541 CS- 17158 SP- 123662

4S

FIELD DATA SHEET 005833

NO L.V. ~~OBSERVED~~ OBSERVED @ LOCATION 4S

GPS ID ~~T4E09183~~ T4E09193

ROBERT HUNT - 9/18/03

Location HIGHWAY 37 Date 9/18/03 83

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

MONTANA D.O.T

1554 CS- 17159 9/18/03 SP- 123663

3N

FIELD DATA SHEET 005834

NO L.V. OBSERVED @ LOCATION 3N

1559 CS- 17160 9/18/03 SP- 123664

3S

FIELD DATA SHEET 005834

NO L.V. OBSERVED @ LOCATION 3S

GPS ID T4E09183 9/18/03

1605 SETTING UP ON LOCATION 9/18/03

1S 1W

1614 CS-17281

1N ~~CS- 17281~~ 9/18/03 SP- 123665

FIELD DATA SHEET 005834

~~FHR 9/18~~ NO L.V. OBSERVED @ LOCATION 1N

1619

1S CS- 17282 9/18/03 SP- 123666

FIELD DATA SHEET 005836

NO L.V. OBSERVED @ LOCATION 1S 1S

GPS ID T4F09183 FOR 1S 1W

1640- SETTING UP ON LOCATION 2S 2N

9/18/03

ROBERT HUNT - 9/18/03

84 Location HIGHWAY 37 Date 9/18/03

Project Client LIBBY ASBESTOS/U.S. EPA Reg.

MONTANA D.O.T.

(1644)

2N CS- 17283 SP- 123667

FIELD DATA SHEET 005836 — 3P1 —

NO L.V. OBSERVED IN ANY SUBSAMPLES

(1646)

2S CS- 17284 SP- 123668

FIELD DATA SHEET 005836 — 3P1 —

NO L.V. OBSERVED IN ANY SUBSAMPLES

GPS ID T4F09183

1700- FINISHED @ LOCATION 2S + 2N

WITH HIGHWAY 37 SAMPLING

9/18/03

ROBERT HUNT-9/18

Appendix G
Field Sample Data Sheets for Highway 37 Sampling Event

Sheet No.: CSS-S- 005761

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 67-68 Sampling Date: 9/16/03

Address: HIGHWAY 37 Owner/Tenant: D.O.T of Montana

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other —— Names: BOB HUNT DANNY ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16872	CS- 16873	CS- 16874
Location ID	SP- 123621 DZ 9/16/03	SP- 123622 DZ 9/16/03	SP- 123623 DZ 9/16/03
Sample Group	ROAD (24N)	Road (24S)	Road (23 N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area 24N	Back yard Front yard Side yard Driveway Other Area 24S	Back yard Front yard Side yard Driveway Other Area (23 N) DZ 9/16/03
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1022	1026	1127
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- center line 10' from RD ~~100' E - 100' W~~ NO LIV OBSERVED	BD- center line 10' from RD ~~100' E~~, 100' W NO LIV OBSERVED	BD- center line - 10' from ~~RD - 100' E~~ 100' W NO LIV OBSERVED
Entered (LFO) 25	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by DZ	QC by RH

DW 091603

vs 052003

Sheet No.: CSS-S- 005762

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 68/69 Sampling Date: 9/16/03

Address: Highway 37 Owner/Tenant: DOT of Montana

Business Name:

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other — Names: BOB HUNT, Danny Zambrano

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16875 9/16/03	CS- 16876 9/16/03	CS- 16877 9/16/03
Location ID	SP- 123624 9/16/03	SP- 123625 9/16/03	SP- 123626 9/16/03
Sample Group	Road (23 S)	Road (22 N)	Road (22 S)
Location Description (circle)	Back yard Front yard Side yard Driveway Other AREA (23 S)	Back yard Front yard Side yard Driveway Other AREA (22 N)	Back yard Front yard Side yard Driveway Other AREA 22 S
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1129	1429	1436
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments: Note if vermiculite is visible in sampled area	BD- CENTER LINE - 10' from Road 100' E - 100' W NO L.V. OBSERVED	BD- center line - 10' from RS - 100' E, 100' W NO L.V OBSERVED	BD- CENTER line 10' From RS - 100' E - 100' W NO L.V. OBSERVED
Entered (LFO) DS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by D. Z	QC by RM

DW 091603

vs 052003

Sheet No.: CSS-S- 005818

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 69 Sampling Date: 9/16/03

Address: Highway 37 Owner/Tenant: D.O.T of Montana

Business Name: —

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other — Names: BOB HUNT DANNY ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16878 9/16/03	CS- 16879 9/16/03	CS- 16880 9/16/03
Location ID	SP- 123627 DZ	SP- 123628 DZ	SP- 123629 DZ
Sample Group	Road (21 N)	Road (# 21 S)	Road # 20 N
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area 21N	Back yard Front yard Side yard Driveway Other Area (21 S)	Back yard Front yard Side yard Driveway Other Area (20 N)
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1547	1549	1632
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD-_____ NO LIV OBSERVED Center line - 10' from RD 100' E + 100' W	BD-_____ NO LIV OBSERVED Center line - 10' from RD 100' E + 100' W	BD-_____ Center line 10' from road - 100' E + 100' W for other sub samples Moderate - to high amounts of LV - mainly @ 100' E
Entered (LFO) JS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by DZ	QC by AM

vs 052003

DW 091603

Sheet No.: CSS-S- 005819

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 69/70 Sampling Date: 9/16/03

Address: HIGHWAY 37 Owner/Tenant: D.O.T of MONTANA

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other — Names: BOB HUNT DANNY ZAMBRA

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17121	CS- 17122	
Location ID	SP- 123629	SP- 123630	
Sample Group	Road # 20 N Dr	Road (20S)	
Locatidn Description (circle)	Back yard Front yard Side yard Driveway Other Area 20	Back yard Front yard Side yard Driveway Other Area 20	Back yard Front yard Side yard Driveway Other
Category (circle) RM 9/16/03	FS FD of CS-16880 Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples
Sample Time	1639	1642	
Top Depth (in.)	0	0	
Bottom Depth (in.)	6	6	
Field Comments Note if vermiculite is visible in sampled area	BD- Center - 10' from road 100' E, 100' W moderate amounts of L.V. observed mainly @ 100' E sub-samp	BD- Center - 100' - E ~~S' from RD~~ 100' - W Few flakes of L.V. observed	BD-
Entered (LFO) PS	Volpe: Entered ___ Validated ___	Volpe: Entered ___ Validated ___	Volpe: Entered ___ Validated ___

For Field Team Completion (Provide Initials)	Completed by D.Z	QC by RM

DW 091603

vs 052003

Sheet No.: CSS-S- 005821

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 73 Sampling Date: 9/17/03

Address: Highway 37 Owner/Tenant: D.O.T of Montana

Business Name: ____

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other ____ Names: BOB HUNT DANNY ZAMBITANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17124	CS- 17125	CS- 17126
Location ID	SP- 123631 DZ 9/17/03	SP- 123632 DZ 9/17/03	SP- 123633 DZ 9/17/03
Sample Group	ROAD (19 N)	ROAD (19 S)	ROAD (18 N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area (19N)	Back yard Front yard Side yard Driveway Other Area (19 S)	Back yard Front yard Side yard Driveway Other Area (18 N)
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	0959	1001	1109
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area.	BD- ____ Center line 10' from road, 100' E, 100' W NO L.V. observed	BD- ____ Center line 10' from RD 100' E, 100' W - NO L.V. observed	BD- Sample 10' from RD Center moderate L.V 100' E moderate L.V 100' W - NO L.V.
Entered (LFO) ps	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by DZ	QC by RH

DW 091703

vs 052003

Sheet No.: CSS-S- 005822

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 74 Sampling Date: 9/17/03

Address: Highway 37 Owner/Tenant: D.O.T of Montana

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other — Names: ROB HUNT DANNY ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17127 9/17/03	CS- 17128 9/17/03	CS- 17129 9/17/03
Location ID	SP- 123634 9/17 DZ	SP- 123635 9/17 DZ	SP- 123636 9/17 DZ
Sample Group	ROAD (18 S)	ROAD (17 N)	Road (17 S)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area (18 S)	Back yard Front yard Side yard Driveway Other Area (17 N)	Back yard Front yard Side yard Driveway Other Area (17 S)
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1112	1310	1313
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- sample 5' from RD CENTER - NO LV 100' E - NO LV 100' W - NO LV	BD- sample 10' from RD CENTER - NO LV 100' E NO LV 100' W also W side of RD	BD- sample 10' from RD CENTER - NO LV 100' E NO LV 100' W NO LV
Entered (LFO) PS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by D.Z	QC by PM

DW 091703

vs 052003

Sheet No.: CSS-S- 005823

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 74 Sampling Date: 9/17/03

Address: Highway 37 Owner/Tenant: D.O.T of Montana

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other —— Names: ROB HUNT DANNY ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17130	CS- 17131	CS- 17132
Location ID	SP- 123637 DZ 9/17/03	SP- 123638 DZ 9/17/03	SP- 123638 DZ 9/17/03
Sample Group	ROAD (16 N)	ROAD (16 S)	ROAD (16 S) DUP
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area (16 N)	Back yard Front yard Side yard Driveway Other Area (16 S)	Back yard Front yard Side yard Driveway Other AREA (16 S)
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS 9/17/03 FD of CS-17131 Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	~~13~~ 9/17/03 1417	1422	1426
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- ~~CM~~ sample 10' FROM RD CENTER - MODERATE L.V. 100' E - MODERATE L.V. 100' W - TRACE L.V.	BD- Sample 10' FROM RD, CENTER - NO L.V. 100' E - NO L.V. 100' W - NO L.V.	BD- SAMPLE 10' FROM RD. CENTER - NO L.V. 100' E ~~10~~ NO L.V. 100' W NO L.V.
Entered (LFO) PS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by D.Z	QC by AH

DW 091703

vs 052003

Sheet No.: CSS-S- 005824

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 75 Sampling Date: 9/17/03

Address: HIGHWAY 37 Owner/Tenant: MONTANA DOT

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other _____ Names: DANNY ZAMBRANO
ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17133 ✓	CS- 17134 ✓	CS- 17135 ✓
Location ID	SP- 123639	SP- 123640	SP- 123641
Sample Group	Road (~~17~~ 15N)	Road (15S)	~~Road~~ Road ~~(14S)~~ (14N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area 15N	Back yard Front yard Side yard Driveway Other Area 15S	Back yard Front yard Side yard Driveway Other Area 14N
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1524	1527	1621
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- Sample 10' FROM RD CENTER - MODERATE L.V. 100' E - MODERATE L.V. 100' W - TRACE L.V.	BD- Sample 10' FROM RD CENTER - NO L.V 100' E - NO L.V 100' W - NO L.V	BD- Sample - 10' FROM RD CENTER - MODERATE L.V. 100' E - MODERATE L.V. 100' W - MODERATE L.V.
Entered (LFO) PS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RM	QC by RM

DW 091703

vs 052003

Sheet No.: CSS-S- 005825

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 75 Sampling Date: 9/17/03

Address: Highway 37 Owner/Tenant: Montana D.O.T

Business Name: ____

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other ____ Names: Robert Hunt, Danny Zambrano

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17136 9/17/03 DZ		
Location ID	SP- 123642 9/17/03 DZ		
Sample Group	Road (145)		
Location Description (circle)	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples ____	Grab Comp. # subsamples ____
Sample Time	1623		
Top Depth (in.)	0		
Bottom Depth (in.)	6		
Field Comments Note if vermidulite is visible in sampled area	BD- SAMPLE 10' FROM RD CENTER. NO. L.V. 100' W - 1 FLAKE OF LV 100' E - NO L.V.	BD- ____	BD- ____
Entered (LFO) PS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by D.Z	QC by RY

DZ 091703

vs 052003

Sheet No.: CSS-S- 005827

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 170275 Page No: 78 Sampling Date: 9/11/03

Address: Highway 37 Owner/Tenant: Montana D.O.T

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other _____ Names: BOB HUNT/DANNY ZARBIANC

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17138 9/12/03	CS- 17139 9/12/03	CS- 17140 9/11/03
Location ID	SP- 123643 DN	SP- 123644 DN	SP- 123645 DZ
Sample Group	ROAD (13 N)	ROAD (13 S)	ROAD (12 N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area (13 N)	Back yard Front yard Side yard Driveway Other Area (13 S)	Back yard Front yard Side yard Driveway Other Area (12 N)
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	0957	0903	0943
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- SAMPLE 10' FROM RD center trace L.V. 10' E - MODERATE L.V. 10' W MODERATE L.V.	BD- Sample 10' FROM RD center NO L.V. 10' E - NO L.V. 10' W NO L.V.	BD- SAMPLE 10' FROM RD Center - NO L.V. 100' E - NO L.V. 100' W NO L.V.
Entered (LFO) DS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by EH	QC by D.Z

DJ 091803

vs.052003

Sheet No.: CSS-S- 005928

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 16275 Page No: 78-79 Sampling Date: 9/18/03

Address: HIGHWAY 37 Owner/Tenant: MONTANA D.O.T

Business Name: —

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other — Names: DANNY ZAMBANO
ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17141	CS- 17142	CS- 17143
Location ID	SP- 123646 DZ 9/18/03	SP- 123647 DZ 9/18/03	SP- 123648
Sample Group	ROAD (12 S)	ROAD (11 N)	ROAD (11 S)
Location Description (circle)	Back yard Front yard Side yard Driveway Other AREA (12 S)	Back yard Front yard Side yard Driveway Other AREA (11 N)	Back yard Front yard Side yard Driveway Other AREA (11 S)
Category (circle)	FS DZ 9/18/03 FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab DZ 9/18/03 Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab 9/18/03 Comp. # subsamples 3
Sample Time	0949	1010	1017
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area –	BD- Sample 10' from RD Center - NO LIV. 100' E NO LIV. 100 W NO LIV	BD- SAMPLE 10' FROM RD CENTER - LIV. (TRACE) 100' E - NO LIV. 100 W - TRACE LIV.	BD- Sample 10' FROM RD CENTER - NO LIV. 100' E ~~NO LIV~~ TRACE LIV. 100' W 10 LIV 9/18/03
Entered (LFO) PS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by D.Z

DW 091803

vs 052003

Sheet No.: CSS-S- 005829

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 79 Sampling Date: 9/18/03

Address: HIGHWAY 37 Owner/Tenant: MONTANA DOT

Business Name:

Land Use: (circle) Residential School Commercial Mining (Roadway) Other ( )

Sampling Team: (circle) (CDM) MACTEC Other _____ Names: DANNY ZAMORANO, ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17144	CS- 17145	CS- 17146
Location ID	SP- 123649	SP- 123650	SP- 123650
Sample Group	ROAD (10N)	ROAD (10S)	ROAD (10S-Dup)
Location Description (circle)	Back yard Front yard Side yard Driveway (Other) AREA 10N	Back yard Front yard Side yard Driveway (Other) AREA 10S	Back yard Front yard Side yard Driveway (Other) AREA 10S
Category (circle)	(FS) FD of _____ Field Blank (lot or equipment)	(FS) FD of _____ Field Blank (lot or equipment)	~~FS~~ 9/19/03 (FD) of CS-17145 Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	(Surface Soil) Other _____	(Surface Soil) Other _____	(Surface Soil) Other _____
Type (circle)	Grab (Comp. # subsamples 3)	Grab (Comp. # subsamples 3)	Grab (Comp. # subsamples 3)
Sample Time	1043	1046	1051
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- SAMPLE 10' FROM RD CENTER - NO LIV. 100' E - TRACE LIV. 100' W - MODERATE LIV.	BD- Sample 10' FROM RD Center - MODERATE LIV 100' E TRACE LIV. 100' W - MODERATE LIV	BD- Sample 10' FROM RD CENTER MODERATE LIV. 100' E - TRACE LIV 100' W - MODERATE LIV
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by DZ

DW 091803

vs 052003

Sheet No.: CSS-S- 005830

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 80 Sampling Date: 9/18/03

Address: HIGHWAY 37 Owner/Tenant: MONTANA D.O.T

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT, DANNY ZUMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17147	CS- 17148	CS- 17149
Location ID	SP- 123651	SP- 123652	SP- 123653
Sample Group	Road (9N)	Road (9S)	Road (8N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area 9N	Back yard Front yard Side yard Driveway Other Area 9S	Back yard Front yard Side yard Driveway Other Area 8N
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1119	1124	1331
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- Sample 10' from RD Center - Moderate L.V. 100' E Moderate L.V. 100' W Moderate L.V.	BD- Sample 10' from RS Center TRACE L.V. 100' E TRACE L.V. 100' W ~~TRACE~~ TRACE L.V.	BD- Sample 10' from RD center MODERATE L.V. 100' E - TRACE L.V. 100' W - MODERATE L.V.
Entered (LFO) PS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by D.Z.

DW 091803

vs 052003

Sheet No.: CSS-S- 005831

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 60-81 Sampling Date: 9/18/03

Address: HIGHWAY 37 Owner/Tenant: MONTANA DOT

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT, DANNY ZUMBERWO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17150	CS- 17151	CS- 17152
Location ID	SP- 123654	SP- 123655	SP- 123656
Sample Group	Road (8S)	Road (7N)	Road (7S)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area 8S	Back yard Front yard Side yard Driveway Other Area 7N	Back yard Front yard Side yard Driveway Other Area 7S
Category (circle)	ES FD of _____ Field Blank (lot or equipment)	ES FD of _____ Field Blank (lot or equipment)	ES FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1333	1359	1402
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- Sample 10' from RD Center - trace L.V. 100' E trace L.V 100' W trace L.V.	BD- SAMPLE 10' FROM RD CENTER - MODERATE L.V 100' E - NO L.V 100' W MODERATE L.V.	BD- Sample 10' FROM RD Center - NO L.V. 100' E - NO L.V 100' W - NO L.V.
Entered (LFO) DS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by D.Z

DW 091803

vs 052003

Sheet No.: CSS-S- 005832

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 81-82 Sampling Date: 9/18/03

Address: HIGHWAY 37 Owner/Tenant: MONTANA DOT

Business Name: ~~[illegible]~~

Land Use: (circle) ~~Residential~~ School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT DANNY ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17153	CS- 17154	CS- 17155
Location ID	SP- 123657	SP- 123658	SP- 123659
Sample Group	Road ~~(6N)~~ (6N)	Road (6S)	Road (5N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other AREA 6N	Back yard Front yard Side yard Driveway Other AREA 6S	Back yard Front yard Side yard Driveway Other AREA 5N
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1437	1441	1507
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- SAMPLE 10' FROM RD Center - TRACE L.V 100' E TRACE L.V 100' W TRACE L.V	BD- Sample 10' FROM RD CENTER - NO L.V. 100' E NO L.V. 100' W TRACE L.V	BD- SAMPLE 10' FROM RD CENTER - TRACE L.V 100' E - NO LV 100' W - NO LV
Entered (LFO) RS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by AM	QC by D.Z

DW 09/18/03

vs 052003

Sheet No.: CSS-S- 005833

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 82 Sampling Date: 9/18/03

Address: HIGHWAY 37 Owner/Tenant: MONTANA DOT

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other — Names: ROBERT HUNT, DANNY ZANGRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17156	CS- 17157	CS- 17158
Location ID	SP- 123660	SP- 123661	SP- 123662
Sample Group	Road (5S)	Road (4N)	Road (4S)
Location Description (circle)	Back yard Front yard Side yard Driveway Other AREA 5S	Back yard Front yard Side yard Driveway Other AREA 4N	Back yard Front yard Side yard Driveway Other AREA 4S
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1509	1538	1541
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- Sample 10' FROM RD Center - No LV 100' E No LV 100' W No LV	BD- Sample 10' FROM RD Center - NO LIV. 100 E NO LIV. 100 W NO LIV.	BD- Sample 10' FROM RD Center - NO LIV. 100 E NO LIV. 100' W NO LIV.
Entered (LFO) JS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RH	QC by D.Z

DW 091803

vs 052003

Sheet No.: CSS-S- 005834

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100257 Page No: 83 Sampling Date: 9/18/03

Address: HIGHWAY 37 Owner/Tenant: MONTANA D.O.T

Business Name: ——

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other —— Names: ROBERT HUNT DANNY ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17159 ✓	CS- 17160 ✓	CS-17281 ✓ ~~CS- 17281~~
Location ID	SP- 123663	SP- 123664	SP- 123665
Sample Group	Road ~~3 Ct~~ (3N)	Road (3S)	Road (1N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area 3N	Back yard Front yard Side yard Driveway Other Area 3S	Back yard Front yard Side yard Driveway Other Area 1N
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1554	1559	1614
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD SAMPLE 10' FROM RD CENTER — NO L.V. 25' E NO L.V. 25' W NO L.V.	BD- Sample 10' FROM RD CENTER NO L.V. 25' E NO L.V. 25' W NO L.V.	BD- SAMPLE 10' FROM ROAD CENTER - NO L.V 100' E - NO L.V. 100' W - NO L.V.
Entered (LFQ) JS	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RM	QC by D.Z

DW 091803

vs 052003

Sheet No.: CSS-S- 005836

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION

FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 83-84 Sampling Date: 9/18/03

Address: HIGHWAY 37 Owner/Tenant: MONTANA DOT

Business Name: —

Land Use: (circle) Residential School Commercial Mining Roadway Other ( )

Sampling Team: (circle) CDM MACTEC Other ____ Names: ROBERT HUNT, DANNY ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17282	CS- 17283	CS- 17284
Location ID	SP- 123666	SP- 123667	SP- 123668
Sample Group	ROAD (1S)	ROAD (2N)	ROAD (2S)
Location Description (circle)	Back yard Front yard Side yard Driveway Other AREA 1S	Back yard Front yard Side yard Driveway Other AREA 2N	Back yard Front yard Side yard Driveway Other AREA 2S
Category (circle)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)	FS FD of ____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other ____	Surface Soil Other ____	Surface Soil Other ____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	1616	1644	1646
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- SAMPLE 10' FROM RD CENTER - NO L.V. 100' E - NO L.V. 100' W - NO L.V.	BD- SAMPLE 20' FROM RD CENTER - NO L.V. 100' E - NO L.V. 100' W - NO L.V. 9/19/03	BD- SAMPLE CENTER - NO L.V. 100' E - NO L.V. 100' W - NO L.V. 9/19/03
Entered (LFO) ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____	Volpe: Entered ____ Validated ____

For Field Team Completion (Provide Initials)	Completed by RM	QC by DZ

DW 091803

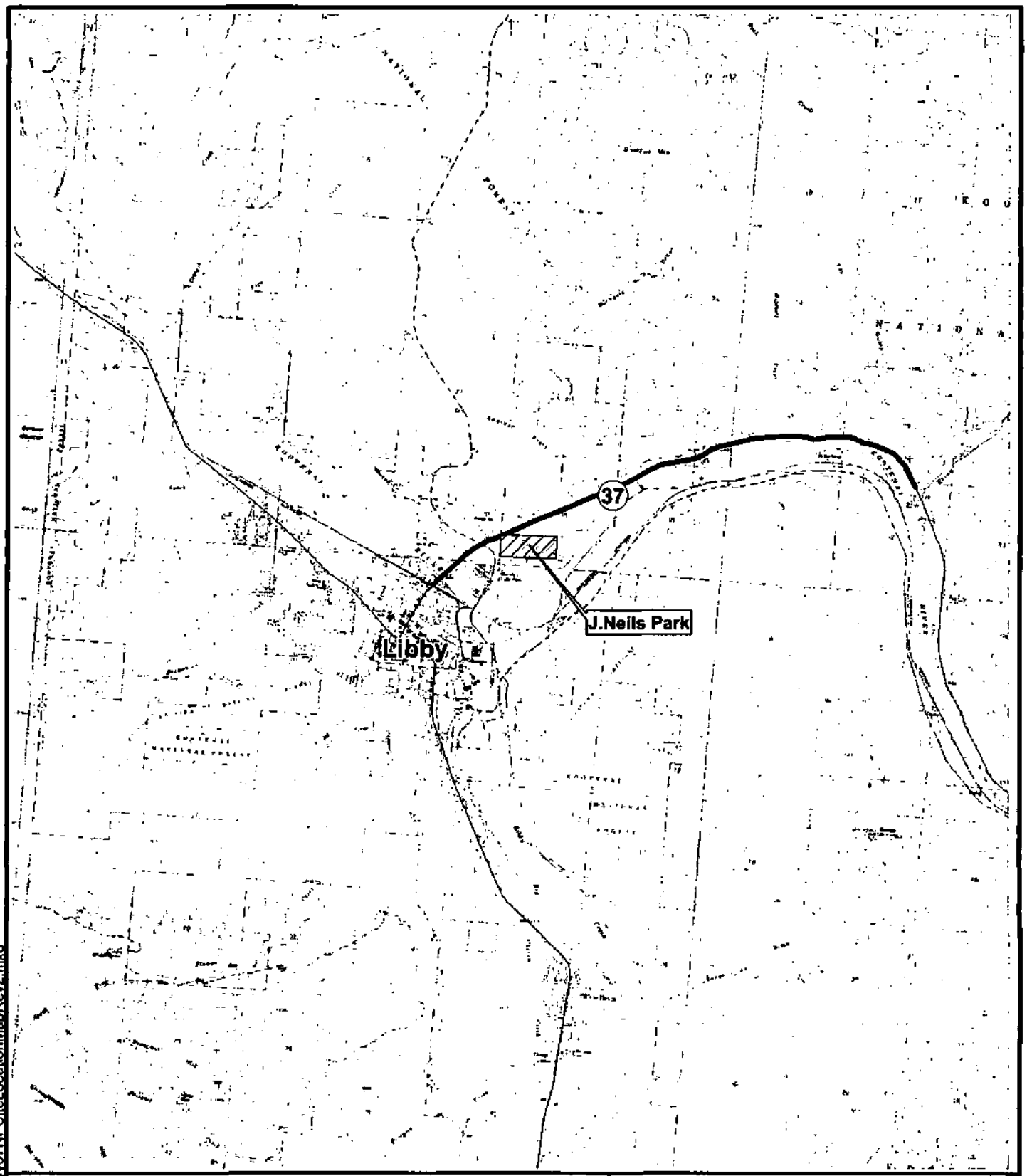
vs 052003

Appendix H
Analytical Results September 2003
Highway 37 Sampling Event

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Pre Post Clear	Sample Date	PLM			
											Method	LA Bin	LA (%)	C (%)
CS-16872-FG		N/A	Highway 37 N - Right of Way	Road	Area 24N	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	A	ND	ND
CS-16873-FG		N/A	Highway 37 N - Right of Way	Road	Area 24S	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	A	ND	ND
CS-16874-FG		N/A	Highway 37 N - Right of Way	Road	Area 23N	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	A	ND	ND
CS-16875-FG		N/A	Highway 37 N - Right of Way	Road	Area 23S	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	B1	TR	ND
CS-16876-FG		N/A	Highway 37 N - Right of Way	Road	Area 22N	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	B1	TR	ND
CS-16877-FG		N/A	Highway 37 N - Right of Way	Road	Area 22S	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	A	ND	ND
CS-16878-FG		N/A	Highway 37 N - Right of Way	Road	Area 21N	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	B1	TR	ND
CS-16879-FG		N/A	Highway 37 N - Right of Way	Road	Area 21S	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	B1	TR	ND
CS-16880-FG		N/A	Highway 37 N - Right of Way	Road	Area 20N	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	B2	< 1	ND
CS-16880-FG		N/A	Highway 37 N - Right of Way	Road	Area 20N	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	B1	TR	ND
CS-17121-FG	CS-16880	N/A	Highway 37 N - Right of Way	Road	Area 20	Soil-Like	Surface soil	Field Duplicate	N/A	9/16/2003	PLM-VE	B2	< 1	ND
CS-17122-FG		N/A	Highway 37 N - Right of Way	Road	Area 20	Soil-Like	Surface soil	Field Sample	N/A	9/16/2003	PLM-VE	B1	TR	ND
CS-17123-FG1		N/A	NA	Blank	NA	Soil-Like	Soil	Equipment Blank	N/A	9/16/2003	PLM-VE	A	ND	ND
CS-17124-FG		N/A	Highway 37 N - Right of Way	Road	Area 19N	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17125-FG		N/A	Highway 37 N - Right of Way	Road	Area 19S	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17126-FG		N/A	Highway 37 N - Right of Way	Road	Area 18N	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B2	< 1	ND
CS-17127-FG		N/A	Highway 37 N - Right of Way	Road	Area 18S	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17128-FG		N/A	Highway 37 N - Right of Way	Road	Area 17N	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17129-FG		N/A	Highway 37 N - Right of Way	Road	Area 17S	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17130-FG		N/A	Highway 37 N - Right of Way	Road	Area 16N	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B2	< 1	ND
CS-17131-FG		N/A	Highway 37 N - Right of Way	Road	Area 16S	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17132-FG	CS-17131	N/A	Highway 37 N - Right of Way	Road	Area 16S	Soil-Like	Surface soil	Field Duplicate	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17133-FG		N/A	Highway 37 N - Right of Way	Road	Area 15N	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17134-FG		N/A	Highway 37 N - Right of Way	Road	Area 15S	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17135-FG		N/A	Highway 37 N - Right of Way	Road	Area 14N	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17136-FG		N/A	Highway 37 N - Right of Way	Road	Road (14S)	Soil-Like	Surface soil	Field Sample	N/A	9/17/2003	PLM-VE	B1	TR	ND
CS-17137-FG		N/A	NA	Blank	NA	Soil-Like	Soil	Equipment Blank	N/A	9/17/2003	PLM-VE	A	ND	ND
CS-17138-FG		N/A	Highway 37 N - Right of Way	Road	Area 13N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17138-FG		N/A	Highway 37 N - Right of Way	Road	Area 13N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17139-FG		N/A	Highway 37 N - Right of Way	Road	Area 13S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17140-FG		N/A	Highway 37 N - Right of Way	Road	Area 12N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17140-FG		N/A	Highway 37 N - Right of Way	Road	Area 12N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17141-FG		N/A	Highway 37 N - Right of Way	Road	Area 12S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17142-FG		N/A	Highway 37 N - Right of Way	Road	Area 11N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17143-FG		N/A	Highway 37 N - Right of Way	Road	Area 11S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17144-FG		N/A	Highway 37 N - Right of Way	Road	Area 10N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17145-FG		N/A	Highway 37 N - Right of Way	Road	Area 10S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17146-FG	CS-17145	N/A	Highway 37 N - Right of Way	Road	Area 10S	Soil-Like	Surface soil	Field Duplicate	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17147-FG		N/A	Highway 37 N - Right of Way	Road	Area 9N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17148-FG		Co	Highway 37 N - Right of Way	Road	Area 9S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17149-FG		N/A	Highway 37 N - Right of Way	Road	Area 8N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17150-FG		N/A	Highway 37 N - Right of Way	Road	Area 8S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17151-FG		N/A	Highway 37 N - Right of Way	Road	Area 7N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17152-FG		N/A	Highway 37 N - Right of Way	Road	Area 7S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Pre Post Clear	Sample Date	PLM			
											Method	LA Bin	LA (%)	C (%)
CS-17153-FG		N/A	Highway 37 N - Right of Way	Road	Area 6N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17154-FG		N/A	Highway 37 N - Right of Way	Road	Area 6S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17155-FG		N/A	Highway 37 N - Right of Way	Road	Area 5N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17156-FG		N/A	Highway 37 N - Right of Way	Road	Area 5S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17157-FG		N/A	Highway 37 N - Right of Way	Road	Area 4N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17158-FG		N/A	Highway 37 N - Right of Way	Road	Area 4S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17159-FG		N/A	Highway 37 N - Right of Way	Road	Area 3N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17160-FG		N/A	Highway 37 N - Right of Way	Road	Area 3S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17160-FG		N/A	Highway 37 N - Right of Way	Road	Area 3S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	B1	TR	ND
CS-17281-FG		N/A	Highway 37 N - Right of Way	Road	Area 1N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	A	ND	ND
CS-17282-FG		N/A	Highway 37 N - Right of Way	Road	Area 1S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	A	ND	ND
CS-17283-FG		N/A	Highway 37 N - Right of Way	Road	Area 2N	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	A	ND	ND
CS-17284-FG		N/A	Highway 37 N - Right of Way	Road	Area 2S	Soil-Like	Surface soil	Field Sample	N/A	9/18/2003	PLM-VE	A	ND	ND
CS-17331-FG		N/A	NA	Blank	NA	Soil-Like	Soil	Equipment Blank	N/A	9/20/2003	PLM-VE	A	ND	ND
CS-17332-FG		N/A	NA	Blank	NA	Soil-Like	Soil	Equipment Blank	N/A	9/22/2003	PLM-VE	A	ND	ND

Figures



N
W E
S

Miles
1 0.5 0 1

Figure 1-1

Site Location Map
J. Neils Park and Highway 37
Libby, Montana

CDM

Map Filename: figure1-1Hwy37NPSiteLocationMapRev2.mxd

Color Map(s)

The following pages contain color that does not appear in the scanned images.

To view the actual images, please contact the Superfund Records Center at (303) 312-6473.

Legend

- Grid
- Site Boundary
- Horse Path
- Walking Path
- Access Roads
- Buildings
- Existing Parking Area
- Horse Arena
- Remote Control Area
- Ice Rink
- Soccer Field

N
W E
S

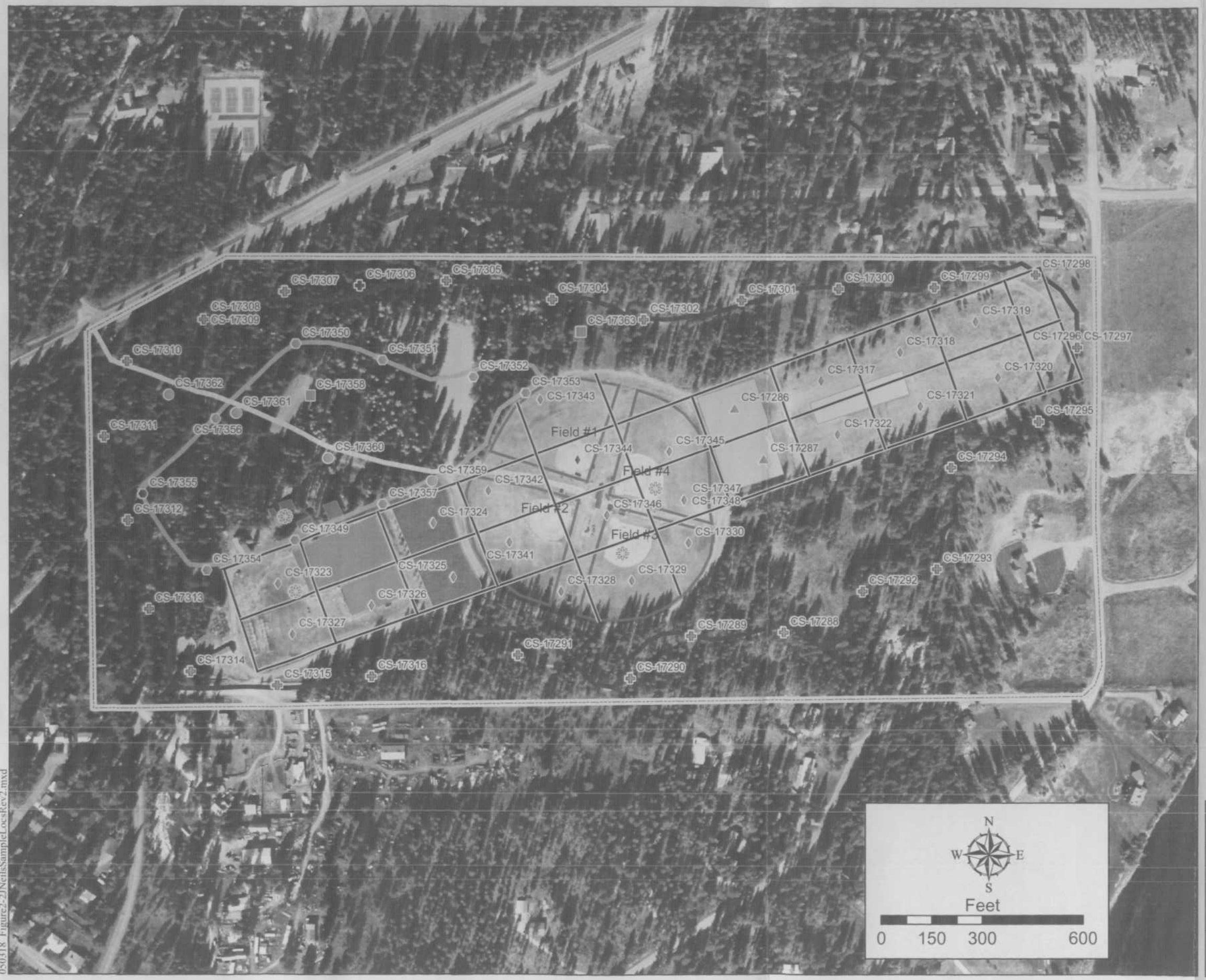
Feet
0 150 300 600

Figure 2-1

Site Feature Map
J. Neils Park
Libby, Montana

CDM

050318_Figure2-1JNeilsSiteFeature.mxd KS 3/18/05



Legend

- Site Boundary
- Horse Path
- Walking Path
- Access Roads
- Sampling Grid
- Baseball Infield/Outfield Outline
- Building
- Existing Parking Area
- Horse Arena
- Ice Rink
- Remote Control Area
- Soccer Field
- Visible Vermiculite (Observed in August 2002)

Results by Area

- ND, Access Road
- ND, Air field
- ND, Forested Area
- ND, Horse Path
- ND, Previous Air Field
- ND, Walking Path
- TR, Horse Path
- TR, Previous Air Field
- TR, Walking Path

ND = Non Detect
TR = Trace (<0.2% LA)

Figure 2-2

Soil Sample Locations and Results Map
September 2003 Sampling Event
J. Neils Park
Libby, Montana

CDM

050318_Figure2-2JNeilsSampleLocsRev2.mxd

Legend

- Horse Path
- Walking Path
- Access Roads
- Ball Field Outline
- Building
- Existing Parking Area
- Soccer Field
- Visible Vermiculite (Observed in August 2002)

March 2005 Soil Sample Results

- Non Detect
- Trace (<0.2% LA)
- < 1% LA

N
W E
S

Feet

0 75 150 300

Figure 2-3

Sample Location and Result Map for
March 2005 Sampling Event
J. Neils Park
Libby, Montana

CDM

050318_Figure2-3JNeilsSampleLocMarch05.mxd KS 3/25/05

Legend

Surface Soil Sample Results (0-6")

- Non Detect
- Trace LA (<0.2%)
- < 1% LA
- J. Neils Park Boundary

Level Vermiculite Observed

- Trace
- Moderate
- Flake
- High

N
W E
S

Feet
0 750 1,500 3,000

Figure 2-4

Soil Sample Locations and Results Map
September 2003 Sampling Event
Montana State Highway 37
Libby, Montana

CDM

050318_Figure2-4highway37Samp.mxd KS 3/25/05