

07GE
Site: Ace Services
ID #: BVSPC 46129
Break: 7.0
Other: BU2
SPC 9.5.03

**Remedial Action Report
Demolition Summary**

Final

**Ace Services Site
Colby, Kansas**

Prepared for
USEPA Region VII

September 5, 2003

Prepared by
Black & Veatch Special Projects Corp.

EPA Contract Number 68-W5-0004
EPA Work Assignment Number 061-RARA-07GE
BVSPC Project Number 46129

40222971



SUPERFUND RECORDS

**ACE SERVICES
DEMOLITION SUMMARY REPORT
2003**

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1.0 Introduction and Background

The U.S. Environmental Protection Agency (USEPA) has completed remedial Action efforts for the buildings at the ACE Services Site in Thomas County, Colby, Kansas. This Remedial Action Report documents the activities undertaken by Black & Veatch Special Projects Corp. (BVSPC) under contract with the USEPA to facilitate the construction of a groundwater treatment plant (GWTP) for the purpose of removing hexavalent chrome (Cr+6) from the groundwater. The groundwater remedial action is divided into two phases, Demolition and construction. This report documents the demolition effort.

This remedial action report has been prepared under USEPA RAC Contract No. 68-W5-0004, work Assignment No. 061-RARA-07GE.

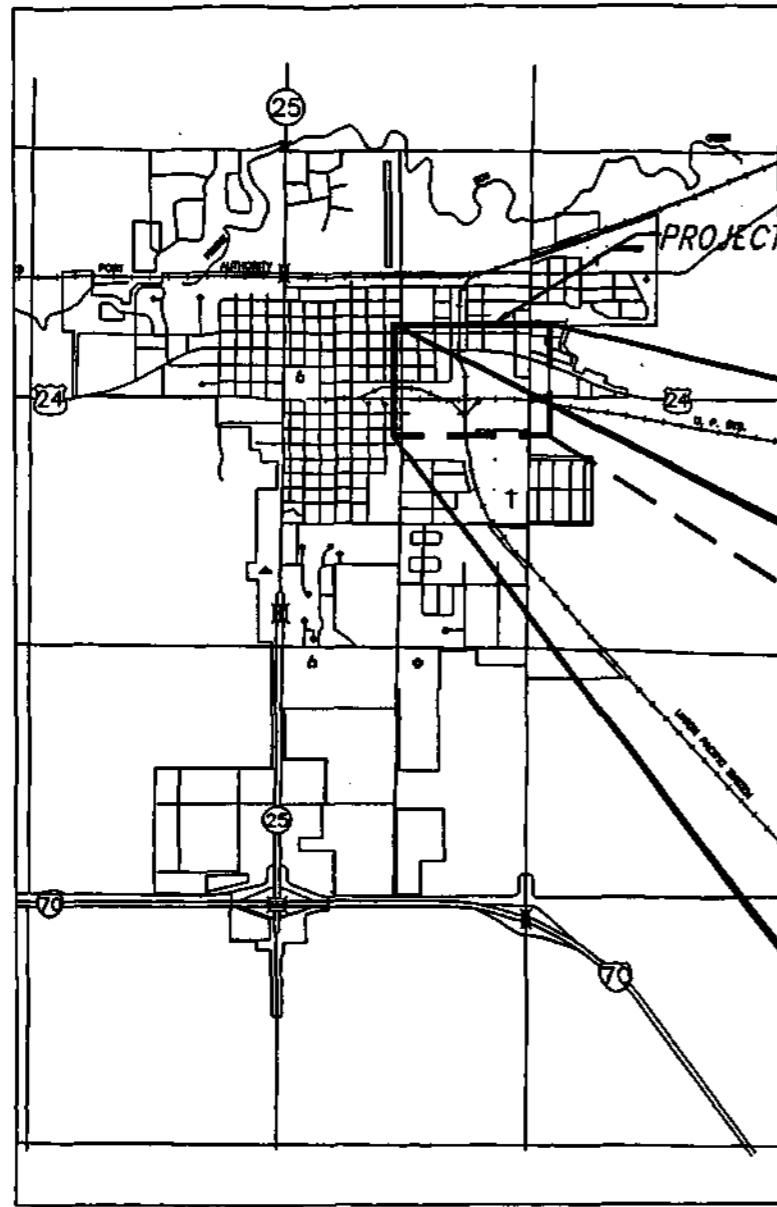
1.1 Site Description and Location

The ACE Services site is located near the edge of Colby, Kansas at 345 Convesse Street in Thomas County. The geographic coordinates for the site are approximately 100°02'10" West Longitude and 39°23'47" North Latitude. The site lies in the southwest quarter of Section 31, Township 7 South, Range 33 West. Figure 1-1 shows the site location. The facility is next to a small church and a hardware store. The Thomas County courthouse is approximately 2-1/2 blocks west of the site. The surrounding area is primarily light industrial and commercial, although there are a few residences within two blocks. Figure 1-2 shows the site layout.

1.2 Site History

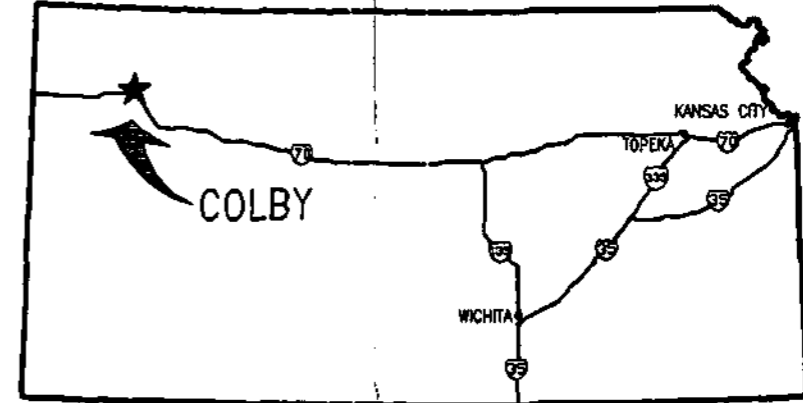
Northwest Manufacturing Company operated a plating facility at the site from 1954 to 1969. ACE Services was formed in 1969 and operated a chrome electroplating operation at the site through 1989. The site included two buildings, the plating shop building and an office/machine shop building. The plating building featured three concrete/cinder block troughs (troughs A, B, and C, see figure 1-3) where vats of plating solution were located during operations. The Kansas Department of Health and Environment (KDHE) first began an investigation into improper plating waste management practices by ACE Services in 1971. In 1975 a wastewater treatment facility (WWT) was erected on the east side of the plating building. Plating waste was subsequently treated in the WWT and discharged to an unlined evaporation lagoon to the east of the plating building.

In 1980 elevated chrome levels were detected in Colby Public Water Supply well PSW-8 located about ¼ mile east of the ACE site and in other nearby private wells. PSW-8 was removed from service. During a follow up investigation KDHE again observed improper waste handling practices. Additionally, lead and chromium contamination was found in the lagoon soil. KDHE and the City of Colby contracted the excavation of 500 to 1000 cubic yards of contaminated soil from the lagoon area.



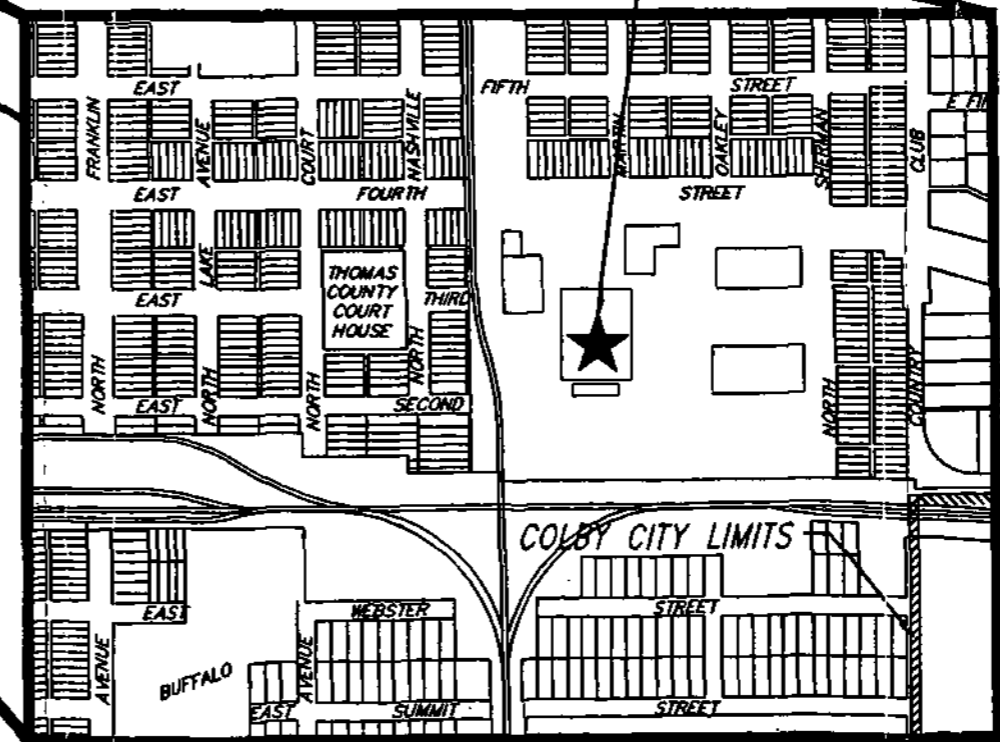
COLBY, KANSAS

PROJECT LOCATION



STATE OF KANSAS

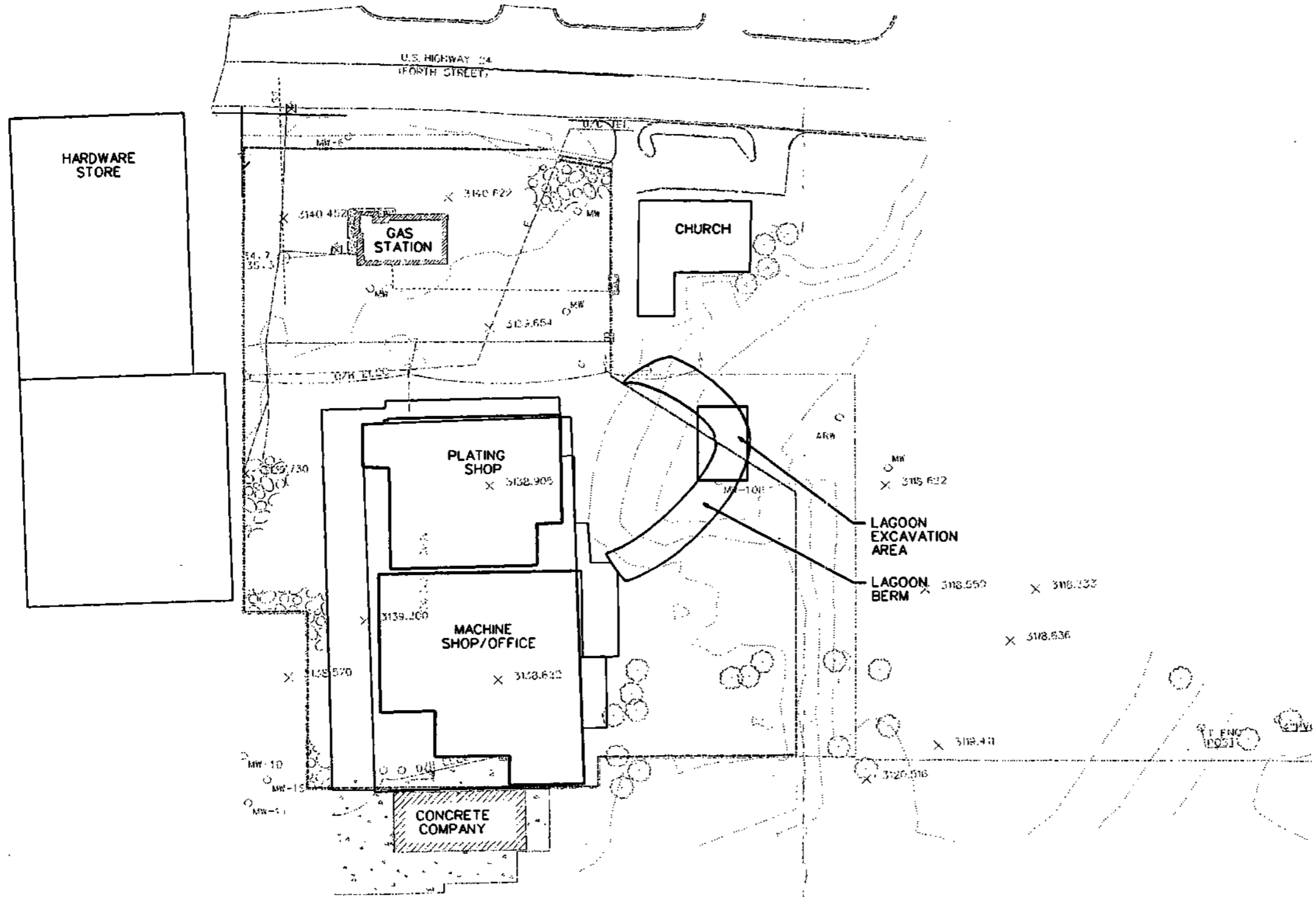
FUTURE GWTP TREATMENT FACILITY



PROJECT LOCATION

COLBY CITY LIMITS

FIGURE 1-1
SITE LOCATION
ACE SERVICES
DEMO SUMMARY



Z:\46118\DCN\C00SP013MTV.DGN

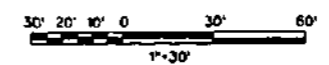
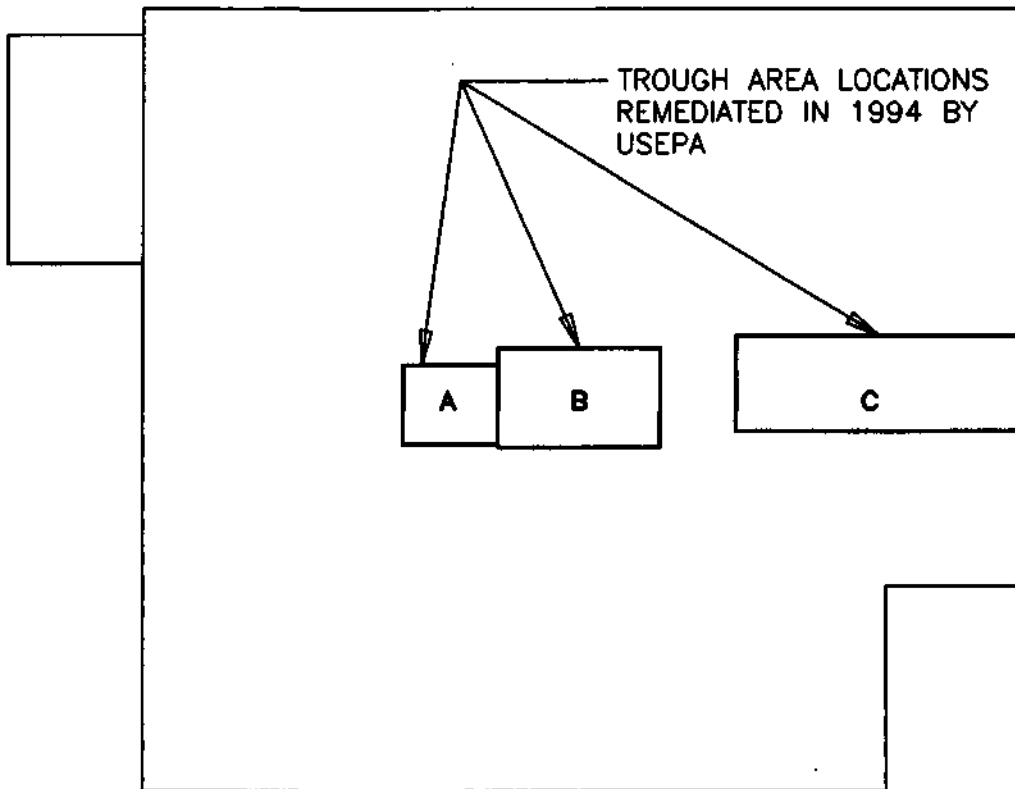


FIGURE 1-2
SITE LAYOUT
ACE SERVICES
DEMO SUMMARY



PLATING SHOP

Plotter: HP
 Scale: 1=1
 Original dwg size: 17 x 11
 Reviewed: 12/17/01 13:14:47 PCP Plot 48118
 D:\MISC: G:\PVA\48128\01007A32.DWG Acad 14.01 pro03289 Jan 08, 2002, 9:52am ATTACHED XREF:

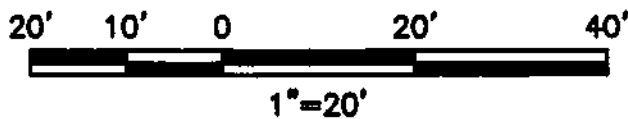


FIGURE 1-3
 PLATING SHOP
 ACE SERVICES
 DEMO SUMMARY

In 1988 KDHE issued an Administrative Order requiring ACE Services to clean up the site. ACE did not comply with that order. ACE terminated operations at the site in 1989 after losing corporate status due to failure to pay taxes and fees.

In 1992 KDHE coordinated the removal of plating wastes from the plating shop building. Investigations undertaken as part of this removal determined that the floors and walls of the troughs were contaminated with lead and chromium. It was further determined that the contamination may have migrated into the underlying soils. This assessment also found that elevated levels of lead and chromium were still present in the Lagoon soils east of the WWT.

In 1994 the USEPA conducted a remediation effort to clean up the contaminated soils, concrete and structures at the site. This action established clean up goals for soils of 1500 mg/kg total chrome and 500 mg/kg total lead. The WWT was demolished and removed in this action. The walls and floors of the three plating troughs were removed and the underlying soils were excavated. The troughs themselves were about 5 feet deep. According to the REPORT OF REMOVAL ACTIVITIES, USEPA, August 1994 prepared by Ecology and Environment Inc. (E&E) (see appendix A for excerpts). Troughs A and B were excavated to about 12 feet and trough C was excavated to 14 to 20 feet. The report states that at the termination of excavation, the bottom and sides of the resulting trench were less than 1200 mg/kg chrome and 400 mg/kg lead based on field XRF readings. A small portion of contaminated soil (approximately 25 cubic yards according to the 1994 report) was left in place between troughs A/B and trough C and around building foundation piers at the edge of the troughs. This was done to avoid compromising the building structure. Samples of the soils left in these location indicated chrome concentrations of 2400 to 2900 mg/kg. The bottom of the trough excavations were covered with sodium sulfate to hopefully reduce the residual Cr+6 to less toxic Cr+3 (trivalent chrome). The trough excavations were then backfilled with clean soil and topped with concrete even with the remaining floor slab in the building.

As part of the 1994 remediation an attempt was made to reduce the Cr+6 in the surface layer of the concrete floor slab to less toxic Cr+3 by applying a sulfuric acid solution followed by sodium metabisulfite. The 1994 E&E report indicates that following this treatment, a portion of the slab surface south of trough C was still contaminated at 4400 mg/kg. The 1994 clean up also included an assessment of the lagoon area, which determined that there were soils contaminated in excess of the clean up goals. Approximately 500 tons of soil were excavated from the lagoon and disposed of. Verification samples indicated that all soils above the action levels had been removed.

The ACE Site was added to the National Priority List (NPL) in September 1995. Sampling conducted in 1996 and 1999 indicated that areas of the plating shop floor slab surface were still contaminated. These areas were scarified (progressively ground down) removing approximately 1" from the top of the concrete surface. Testing following scarifying indicated that the newly exposed concrete surface was below action levels.

The Ogallala Aquifer underlies the area in and around Colby. A portion of this aquifer has been contaminated with hexavalent chrome from releases at the ACE site. Extensive groundwater sampling was performed from 1980 through 2000 with much of the sampling being done between 1996 and 2000. The sampling efforts indicated that the chromium plume is approximately a mile long, ¼ mile wide and 130 feet thick with the western edge of the plume beginning in the proximity of the ACE site. Concentrations of Cr+6 in the plume range upwards of 4,000 ug/l (see figure 1-4). The Record of Decision (ROD) requires remediation of the groundwater chrome plume to the maximum contaminant level (40 CFR 141.62) of 100 ug/l total chromium. The prescribed method of remediation is a pump and treat system utilizing ion exchange to remove chrome from the extracted groundwater to below 17 ug/l hexavalent and 100 ug/l trivalent chrome.

1.3 Scope of Demolition Work

The design of the treatment system for remediating the groundwater chrome plume includes a new treatment building of approximately 10,000 square feet attended by two 250,000 gallon water storage tanks and access/parking for 18 wheel tractor trailer trucks for resin exchange service. The ACE site was selected as the most beneficial location for the new treatment facility. Utilizing this site required demolition of the plating building, the machine shop building and the abandon gas station. A demolition subcontract package was prepared as part of the overall groundwater remedial design and bid as a separate contract under Work Assignment No. 039-RDRD-07GE. Prior to bidding of this subcontract the trustee for the ACE site removed the structures of the plating and machine shop buildings for scrap salvage. Also, KDHE performed the removal of the under ground fuel storage tanks at the abandon gas station. The primary elements of the Scope of Work for the demolition subcontract included the following:

1. Removal of a small amount of asbestos containing caulk around the doors and windows of the old gas station.
2. Demolition of the old gas station.
3. Removal of the pavement surrounding the gas station, plating shop and machine shop.
4. Removal of the concrete rubble and trees on the eastern down-slope side of the site.
5. Tear-out and removal of the plating shop and machine shop concrete floor slabs and foundations.
6. Hauling and disposal of all the debris, asphalt and concrete from scope items 2 through 5 above.
7. Excavation, transportation and disposal of approximately 27 cubic yards (30 tons) of soil contaminated with hexavalent chrome from around the former troughs and foundation piers in the plating shop.
8. Backfill of excavated areas with clean soil compacted to minimum 90% proctor.

The intent of the demolition subcontract scope was to clear and prepare the site for construction and remove the last bit of contaminated soil from the site. Execution of the demolition work during completion of the construction design and bidding of the construction subcontract would allow for completion of the construction phase several months earlier than if the demolition and construction had been bid together. Development of the demolition scope described above was based on the conclusions of the 1994 building remediation efforts described in section 1.2 of this report. As noted in Section 1.2 the plating and machine shop slabs were reported have been remediated so that no contamination was present above the action levels. Additionally Scope item 7 was based on the 1994 E&E remediation report stating that only about 25 cubic yards of contaminated soil had been left in place beneath the plating shop.

Prior to beginning removal of the plating and machine shop slabs, visible greenish discoloration of the plating shop slab was noted indicating that the concrete was significantly contaminated with hexavalent chrome. Ultimately the demolition subcontract was expanded to include disposal of almost the entire plating shop slab as a characteristic waste and to include excavation and disposal of approximately 1020 cubic yards of contaminated soil and concrete from the site.

1.4 Demolition Subcontract

Eight companies (all small businesses) were invited to bid on the demolition subcontract. The lowest responsive bidder was Woofter Construction & Irrigation Inc. (Woofter) of Colby, KS. The subcontract was structured as a lump sum subcontract with unit prices given for any necessary quantity adjustments for contaminated material removal, transportation and disposal as well as for quantity changes in asbestos removal. Notice of award was given to Woofter on January 8, 2002.

Plotter: HP
 GRAFICS: G:\PRA\48129\0007430.DWG
 Scale: 1=1
 Original dwg also 17 x 11
 Reviewed: 12/17/01 13:14:47
 POP File: 48118
 AutoCAD: 14.01
 Produced: Jun 05, 2002, 2:47pm
 ATTACHED REF: Site

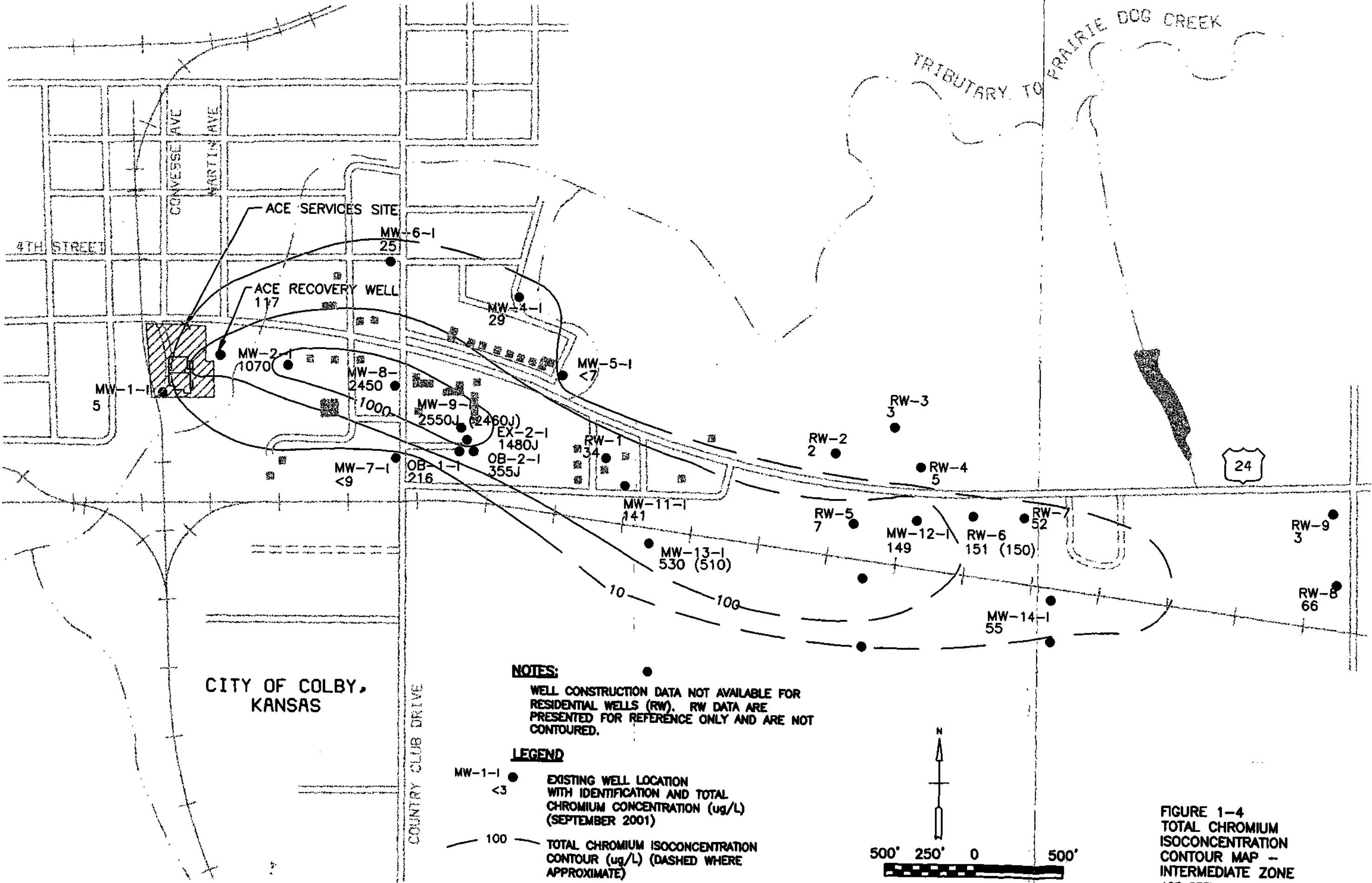


FIGURE 1-4
 TOTAL CHROMIUM
 ISOCONCENTRATION
 CONTOUR MAP --
 INTERMEDIATE ZONE
 ACE SERVICES SITE

2.0 Gas Station Demolition

The abandon gas station at the north end of the site (see figure 1-2) was being used as a storage facility for a local home remodeling contractor. The underground fuel storage tanks associated with the gas station were removed by KDHE prior to the beginning of any demolition activities. BVSPC conducted an asbestos and lead-based paint assessment of the property in May of 2001. The assessment reports have been included in Appendix B of this demolition summary report.

2.1 Asbestos Testing

The asbestos survey was conducted by personnel certified as asbestos inspectors in accordance with state and federal guidelines. Copies of the certifications are included in the assessment report in Appendix B. The United States Environmental Protection Agency (USEPA) outlines appropriate sampling schemes in their Asbestos Hazard Emergency Response Act (AHERA) regulations. Samples were collected in accordance with the AHERA regulations and submitted for sample analysis to TRACE Analytical Laboratories, Inc. in Muskegon, Michigan. All samples were subjected to quantitative polarized light microscopy (PLM) in accordance with the USEPA Interim Method for the Determination of Asbestos in Bulk Samples, 40 CFR 763, Appendix A to subpart F. All analysis results appear in the assessment report contained in Appendix B.

Materials that were identified as being asbestos containing materials included caulking used around the window and doors of the gas station structure. The caulking was severely weathered and was interpreted to be a friable asbestos material. The roofing materials could not be accessed, but were assumed to be asbestos containing materials due to the age of the structure. Asphalt roofing systems are addressed by the USEPA in the National Emission Standard for Asbestos (NESHAPS); Asbestos 40 CFR Subpart M and are categorized as Category I nonfriable asbestos materials. These nonfriable items can be left in place during building demolition.

2.2 Lead-Based Paint Testing

Painted surfaces were tested for lead content during the assessment. Samples were collected in accordance with the American Standard for Testing and Materials (ASTM) standard E1729-99 procedures. These samples were submitted to TRACE Analytical Laboratories, Inc. and analyzed using EPA Method 6010. All analysis results appear in the assessment report contained in Appendix B of this demolition summary report. All painted surfaces of the gas station structure contained some detectable level of lead. Building components tested consisted of painted concrete masonry unit exterior and interior walls, painted drywall construction, and painted door and window trim. This data was to be used to make worker protection decisions during building demolition.

The building demolition waste was characterized prior to disposal using the United States Army Environmental Hygiene Agency's (USAEHA) Sampling Protocol for Building Demolition Debris and Buildings Painted with Lead-Based Paint. The objective of the sampling is to obtain one composite sample from each material within the structure. The amount of subsamples to be composited is dependent upon the quantity of

each building material present. This sample is then subjected to a TCLP analysis to determine the amount of leachable lead within the building waste stream. The maximum amount of leachable lead allowed in building debris is 5 mg/L. The composite sample analysis (0.0017 mg/L) indicated that the building could be disposed in the local landfill with no concern for leaching lead. Sampling locations and quantities are indicated on the lead paint sampling rationale sheets that are contained in Appendix B of this report. TCLP sample analysis results are also contained in Appendix B.

2.3 Asbestos Removal

The asbestos caulking was removed from the perimeter of the gas station windows and doors prior to building demolition by Thompson Environmental Consultants from Liberal, Kansas. One bag of asbestos containing material was removed and deposited in the Thomas County Landfill. The associated waste shipment record appears in Appendix B of this report.

2.4 Building Demolition

Woofter Construction, Inc. brought in equipment, demolished the gas station structure, floor slabs, and associated foundations. All demolition debris was hauled to the Thomas County Landfill. No problems were encountered during the demolition that would have an impact on the construction efforts involving the new groundwater treatment plant.

3.0 General Tree/Debris Removal

The plating shop and machine shop structures at the site had been removed prior to the demolition subcontract being bid. Only the building slabs and foundations remained at the time of the award of the demolition subcontract. Demolition debris was present at the east edge of the site along with concrete rubble that had been previously placed there. There was also a stand of small trees down the slope east of the structures. A ten feet high berm was also east of the site which was the remainder of the settling lagoon once associated with the plating shop waste treatment system (see figure 1-2).

The trees and building debris were loaded and hauled to the Thomas County Landfill by Cahoj Earthmoving who was subcontracted by Woofter Construction. The concrete rubble was transported to another site in Colby. This material was recycled by crushing it for use as an aggregate base course in the construction of a parking lot.

4.0 Removal of Building Slabs

The demolition scope included removal of the plating and machine shop reinforced concrete slabs and foundations. The machine shop slab was randomly sampled on the surface, considered to be not contaminated, and was removed accordingly. The plating shop slab was tested on the surface and categorized as described below.

4.1 Slab Sampling Procedure

A 15' x 15' grid was established on the plating shop slab that started in the NE corner and progressed to the south. The sampling grid was established on the slab as shown in the following diagram. Each cell was sampled on the surface of the slab using an XRF spectrum analyzer. The established action levels were 1500 ppm for total Chrome and 500 ppm for total Lead. Cell numbers, which appear bold in the diagram, indicate cells that were tested and found to be above the action levels. For XRF readings see Table 4-1.

These test results lead to the decision to remove Cells 1 through 23 as hazardous material. Visible contamination (green/yellow discoloration) was noted on the bottom surface of the slab in cells 1 through 23. The visible slab contamination was present on the underside of cells that tested below the action levels on the upper surface. Apparently the plating solutions had penetrated through cracks or joints in the slab and spread out between the soil and underside of the slab. A few inches of soil directly below the contaminated slab areas were removed along with the concrete.

Concrete slab surfaces in cells 24 through 30 had no visible contamination on upper or lower surfaces and tested below the action levels on the surfaces. This concrete rubble was removed and taken to another site to be crushed and reused as subcourse in the construction of a parking lot.

← North

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

Table 4-1
Building Slab XRF Sample Readings
 Niton XRF Series 700 Serial No: U776NR3329
 3/11/02 & 3/12/02

Cell No.	Lead (PB) ppm	Chrome (CR) ppm
1	3710 ± 90	24400 ± 1600
2	< 74.0	< 650
3	< 86.0	4340 ± 800
4	1200 ± 100	3170 ± 620
5	174 ± 58	< 810
6	< 72.0	5290 ± 160
7	80.8	< 720
8	< 73.0	1170 ± 479
9	8910 ± 350	21000 ± 1500
10	99.1 ± 55	< 800
11	585 ± 82	8630 ± 1000
12	< 100	< 980
13	2890 ± 190	20400 ± 1700
14	270.0 ± 66	1260 ± 550
15	103.0 ± 60	< 800
16	808 ± 92	16400 ± 1400
17	44000 ± 2300	61800 ± 5100
18	206 ± 64	1170 ± 560
19	< 85.0	< 680
20	240.0 ± 78	2130 ± 1200
21	308 ± 67.0	2220 ± 580
22	< 77.0	964 ± 610
23	< 100	1410 ± 730
24	111 ± 57	< 770
25	< 74.0	< 590
26	92.3 ± 54	< 660
27	88.3 ± 55	< 630
28	< 72	< 570
29	< 79.0	< 710
30	< 77.0	978 ± 510

4.2 Removal and Disposal of Uncontaminated Concrete

Cahoj Earthmoving removed the uncontaminated concrete rubble and hauled the material to another site for recycling. This material consisted of the south machine shop building slab and Cells 24 through 30 of the north plating shop slab.

4.3 Removal and Disposal of Contaminated Concrete

Woofter Construction was responsible for the removal and disposal of the contaminated concrete and associated soils. Two workers employed by Woofter Construction, HAZWOPER trained in accordance with 29 CFR 1926.65 and medically monitored, operated all excavation and demolition equipment involved with the removal of the contaminated concrete slab areas and contaminated soils. Training and medical certifications are contained in Appendix C of this summary report along with Woofter Construction's Work Plan.

The first hazardous material removal effort started at the northeast corner of the plating shop slab. As the slab was turned, chrome contamination was discovered beneath the slab. Chrome contamination evident by a characteristic green/yellow discoloration was found to have penetrated into the top few inches and the bottom few inches of the slab. See Appendix E, Figures 1 and 2, of this summary report, for photos of visible contamination. Demarcated slab cells 1 through 23 were removed, stockpiled, and disposed as hazardous waste. Approximately 3" to 6" of soil directly underneath the slab was removed during the slab demolition. All contaminated concrete was removed and shipped to the Deer Trail disposal facility at 10855 East Highway 36, Deer Trail, Colorado. Uniform Hazardous Waste Manifest numbers 3-21-02-01 through 4-05-02-37 accompanied the shipments for the contaminated concrete. Copies of the manifests are contained in appendix F of this summary report.

5.0 Contaminated Soil Removal

Soil removal and testing at the site was initially focused upon areas that would be impacted by construction of the new water treatment plant. Excavation for footings for the new facility will be approximately six feet deep along the perimeter of the structure. The central sump footing will extend to ten feet below the new treatment plant slab. Construction workers shall not be exposed to contamination during excavation activities.

5.1 Treatment Plant Site Excavation

A sampling scheme was formulated in an attempt to determine the depth of the contamination. 10' x 10' cells with a grid of 42 cells was established starting at the northeast corner of the site. This cell size excavated to a depth of six feet would be approximately the volume of one truck. Five borings were to be taken within each cell and samples were collected at 6", 3' and 6' depths. The samples were composited from each of the five locations and depths and submitted for TCLP analysis to Southwest Laboratories in Oklahoma. Six cells were sampled with sampled using this method. The analysis results are summarized in Table 5-3.

Auguring and compositing samples was discontinued after the first six cells. By that point it had become apparent that contamination above the action levels was present down to only about two feet deep in most areas. The original intent of the composite samples for each cell was to make a determination for disposal. If a cell composite sample was above the action levels, the entire cell was to be excavated for disposal as a characteristic waste. Since most cells were uncontaminated below two feet, this would have resulted in excavation and disposal of a significant amount of clean soil. The compositing procedure was also masking the extent of contamination in the upper region of the cells by diluting it with clean soil from deeper in the cell.

One to two feet was removed for disposal from underneath slab grid cells 1 through 23. A new soil sample grid of twenty 15'x15' cells (see cell grid figure on following page) was then set up on the newly exposed soil surface. This grid matched the size and locations of the slab grid, starting at the northeast corner of the site. Differing from the slab grid, this new layout consisted of only four cell rows to the south and 5 cell rows to the west. The strategy was then revised to utilize the XRF unit to characterize the surface of each cell and excavate as needed. As excavation in any cell proceeded, a combination of visual indication of contamination and XRF readings was used to determine the necessary extent. Initial XRF readings for the cell surfaces are shown in Table 5-1.

Visible contamination was noted at the surface in Cells 2, 6 & 7. The surface contamination in cell 2 was only a few inches deep and was scraped off. Another three feet of soil was removed in Cell 6 and XRF readings were taken which indicated that additional excavation was necessary. These readings appear in Table 5-2. See Figure 6 in Appendix E for photographs of the surface contamination. As excavation activities continued in cells 6 and 7, a 4" PVC pipe encased in concrete was discovered in Cell 7 at 6 feet depth. This piping section was 4 feet in length and was not connected at either end. Surrounding soils were visibly contaminated below this piping section. The pipe removal activities extended southwest into Cell 11. For photographs of the piping section see Figure 7 in Appendix E.

Excavation below the encased piping section unearthed a layer of sodium sulfite which had been installed in the 1994 USEPA remediation of the plating troughs in this area. Black plastic sheeting had been installed over the stabilization layer. Soils directly below this layer were visibly contaminated (for photographs see Figures 8 & 12 in Appendix E).

As digging proceeded it was discovered that the contamination beneath the black plastic sheeting extended both down and outward into neighboring cells. Soil removal continued in the areas of cells 6, 7, 10 and 11 in an effort to remove all the contaminated soil at the site. Excavation was discontinued at approximately 12 feet deep (15 feet below original ground surface). At that point the trackhoe was at the maximum extent of it's reach and there was no space left to the east to adequately slope the excavation. Neither the horizontal nor vertical limits of the contamination had been found nor was there any evidence that the contamination was decreasing with depth. The USEPA Work Assignment Manager (WAM) was at the site observing the excavation. The WAM made the decision to not pursue further excavation at the site other than what was necessary to ensure that contaminated soils would not be encountered during GWTS construction activities. The total amount of contaminated soil remaining is unknown. Construction of the new GWTP building and accompanying pavement will effectively cap the entire site with concrete slabs and asphalt and thereby prevent migration of, or human exposure to, this soil contamination. For contamination excavation limit details see Figure 5-1.

The sump area in the new GWTP is the only foundation element that will extend deep enough to reach the contaminated layer. The GWTP sump area was located (in cell 5) and excavated to 11 feet. No visible contamination was encountered. XRF readings were taken at the bottom and on the sidewalls of the sump excavation which confirmed that the soil was clean (see Table 5-2).

Once excavation was terminated the visible vein of contamination below the black plastic sheeting was tested with the XRF and another sample was collected and sent for TCLP analysis. A sidewall was tested at 12 feet depth with the XRF and was found to contain over 7000 ppm chrome. See Table 5-2 for exact XRF readings. A sample was collected from the bottom of the excavation and submitted for TCLP analysis. The analysis found the soil to contain chrome at only 1320 mg/kg however the TCLP analysis showed 52.1 mg/L chrome in the leachate (see Appendix G).

← North

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

Table 5-1
XRF Sample Readings After Initial Excavation
 Niton XRF Series 700 Serial No: U776NR3329
 4/01/02 & 4/03/02

Cell No.	Depth	Lead (PB) ppm	Chrome (CR) ppm
1	2'	< 71.0	1130 ± 520
2	2'	79.6 ± 48.0	926.0 ± 520
3	1'	< 75.0	< 720
4	1'	ND	870.0 ± 570
5	4'	< 78.0	< 800
6	3'	< 94.0	7100 ± 1100
7	2'	< 80.0	2390 ± 690
8	1'	< 72.0	871.0 ± 520
9	3'	66.5 ± 41.0	< 620
10	1'	< 61.0	< 650
11	1'	< 71.0	790.0 ± 480
12	1'	< 72.0	1060 ± 540
13	2'	< 77.0	< 720
14	1'	< 81.0	1530 ± 610
15	1'	< 84.0	1100 ± 620
16	6"	< 80.0	905.0 ± 520
17	6"	< 73.0	759.0 ± 490
18	6"	ND	< 960
19	6"	< 85.0	838.0 ± 540
20	6"	< 53.0	< 500

Table 5-2
XRF Sample Readings During Excavation

Niton XRF Series 700 Serial No: U776NR3329
4/03/02 to 4/10/02

Cell No.	Location	Lead (PB) ppm	Chrome (CR) ppm
6	Bottom of excavation at 5' depth	< 78.0	1650 ± 640
6	Center of West sidewall at 3.5' depth	< 68.0	< 720
6	NE corner of Cell 6 at north sidewall at 4' depth	ND	< 720
6	East edge of Cell 6 at east sidewall at 3' depth	< 67.0	< 660
6	Center of South sidewall at 3' depth	< 77.0	808.0 ± 520
11	NE corner of bottom of Cell 11 at 8' depth	166.0 ± 60.0	1390 ± 590
11	NE corner at contamination at west sidewall - 7'	< 73.0	6880 ± 920
11	NE corner on south sidewall at 6' depth	< 69.0	3150 ± 630
11	Center of east edge at base of 10' depth	< 70.0	1320 ± 570
7	East sidewall at 10' depth at west edge of Cell	< 72.0	1370 ± 590
10	SE corner of Cell at 6' depth on north sidewall	< 69.0	2920 ± 650
10	East sidewall at 12' depth	< 80.0	7000 ± 940
6	West edge of Cell at 3' depth on west sidewall	ND	1800 ± 580
Lagoon	North area	348.0 ± 82.0	1150 ± 640
Lagoon	Central area	354.0 ± 70.0	1680 ± 630
Lagoon	South area	< 92.0	2110 ± 1000
Lagoon	Center of area at 3' depth	494.0 ± 74.0	3890 ± 710
Lagoon	3' boring cuttings 10' east of lagoon	528.0 ± 73.0	836.0 ± 500
Lagoon	3' boring cuttings 22' east of lagoon	228.0 ± 53.0	722.0 ± 440
Lagoon	3 boring cuttings 34' east of lagoon	281.0 ± 58.0	1030 ± 480
New Plant	Sump Pit location at bottom of 11' depth	< 87.0	< 860
New Plant	Sump Pit location north sidewall at 10' depth	< 61.0	< 630
New Plant	Sump Pit location east sidewall at 9' depth	< 76.0	< 680
New Plant	Sump Pit location south sidewall at 8' depth	< 60.0	< 620

Table 5-3
Laboratory TCLP Analysis Results
Southwest Laboratory, Broken Arrow, Oklahoma

Cell No.	Location	Lead (PB) mg/L	Chrome (CR) mg/L
1	5 point composite at 6", 3' & 6' depths	0.0257	2.76
2	5 point composite at 6", 3' & 6' depths	0.0108	4.26
3	5 point composite at 6", 3' & 6' depths	0.0031	0.912
4	5 point composite at 6", 3' & 6' depths	0.0209	0.773
4	Cell 4 duplicate sample	0.0167	1.05
5	5 point composite at 6", 3' & 6' depths	0.0492	1.35
6	5 point composite at 6", 3' & 6' depths	0.0488	0.528
Lagoon	North area composite down to 6' depth	ND	2.55
Lagoon	Center area composite down to 6' depth	ND	1.4
Lagoon	South area composite down to 6' depth	ND	0.915
6	At base of 12' excavation from visible material	0.0042	52.1
6	At base of 12' excavation from visible material	-----	1320 mg/kg total

5.2 Lagoon Area Excavation

A large earth berm once associated with the plating shop lagoon was located down the slope to the east of the plating shop (see Figure 1-2). Initial evaluations in the lagoon area indicated that the soil at the base of the berm was contaminated above the action level for chrome. The upper, uncontaminated portion of the berm was bladed off using a front loader and the spoil used as fill to stabilize the steep slope to east of the machine shop. Once this was done visible contamination was evident at the surrounding grade. This visibly contaminated area was sampled in three locations with the XRF and found to be above the action level for chrome. For XRF readings see Table 5-2.

The decision was made to remediate this potential source. Excavation in this area unearthed a visible contamination layer one foot below grade that was approximately one foot in thickness. Once the excavation was deeper than two feet the total chrome concentration dropped below the action level. Three borings were made in this area down to a six feet depth and submitted for TCLP analysis. A composite sample was collected from the 6", 3' and 6' depths for each boring location. Sample analysis results appear in Table 5-3. Results indicate levels below the action level for TCLP chrome and lead analysis.

Three additional borings were made east of the excavated area to see if the contamination had spread eastward. These borings were three feet in depth and 10, 22, and 34 feet east of the eastern edge of the excavation. Cuttings from these borings were analyzed using the XRF in the field and were found to be below the action level for chrome, but the boring 10' east had a level of lead above the action level. These XRF readings are summarized in Table 5-2.

Excavation efforts were stopped in this lagoon area to allocate more excavation and disposal funds to the new treatment plant site. At USEPA's discretion, further remediation work could be undertaken in the former lagoon area in the future. This area will not be impacted by construction activities for the new GWTS. Photographs of the lagoon area contamination are shown in Figures 9 & 10 in Appendix E of this summary report. The approximate location of the lagoon excavation area can be seen on Figure 1-2 of this report. A 20' x 40' area was excavated to a depth of 3' resulting in an approximate total disposal of 89 cubic yards of soil. Backfill for this area was obtained from the berm soil that was relocated to the eastern slope of the machine shop area. No compaction testing was required for backfill in the lagoon area.

5.3 Soil Disposal

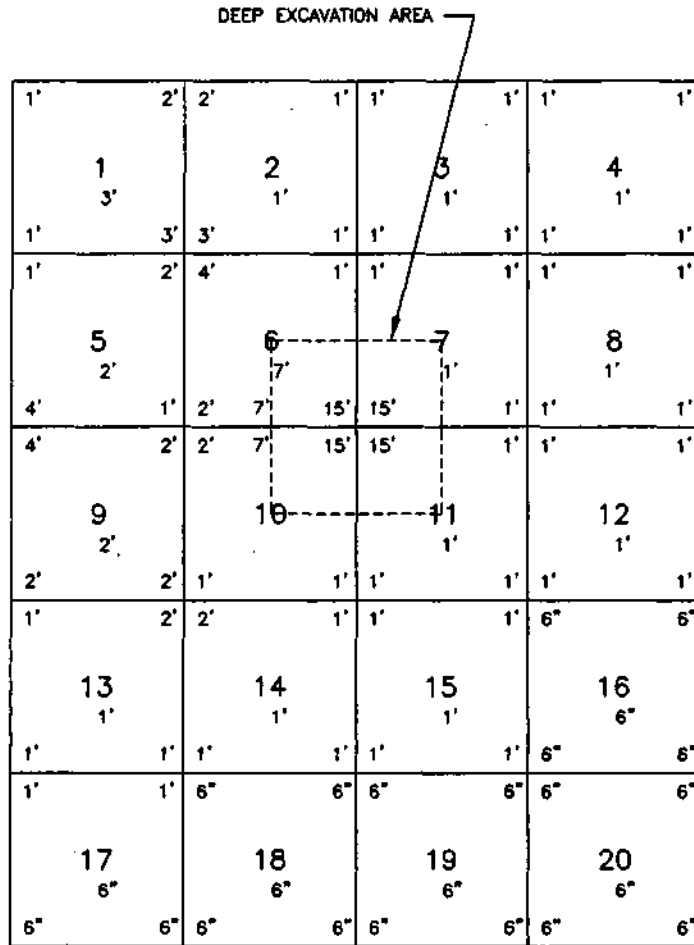
All contaminated soil was removed and shipped to the Deer Trail disposal facility at 10855 East Highway 36, Deer Trail, Colorado. Uniform Hazardous Waste Manifest numbers 4-10-02-38 through 4-12-02-51 accompanied the shipments for the contaminated soil. Copies of the manifests are contained in appendix F of this summary report.

5.4 Backfilling

Six hundred cubic yards of backfill material was brought in and stockpiled at the south end of the treatment plant site to fill the large excavation in cells 6, 7, 10, and 11. Although this was considerably less volume than what was removed from the site, it was adequate to fill the deep excavation to re-level the site at approximately two feet lower

than original grade. Backfill soil samples were sent to Penco Engineering in Plansville, Kansas for analysis to develop compaction curves. Moisture was added in order to meet the specification requirements for proper compaction density. Backfill soil was placed and compacted in maximum 8-inch lifts. Compaction was done using a vibratory sheep's foot roller. Penco Engineering conducted compaction density testing for each lift. The Penco testing reports are included in Appendix H.

PLOTTER: VP8850 PEN TABLE: HALF PLOT SCALE: 1=1 Original dwg size 17 x 11 Revised By: new02908 ON Sep 04, 2003 2:01pm
 Drawing: Z:\46129\Test Report\CO007764.dwg ACAD 15.05 Plot By: new02908 Sep 04, 2003, 02:01pm Attached Xref:



PLATING SHOP FINAL CONTAMINATED SOIL EXCAVATION DEPTHS

GRIDS ARE 15'x15'
 DEPTHS INDICATE EXTENT OF SOIL REMOVED WITH SLAB AND RUBBLE.

XX - GRID ID NUMBERS

FIGURE 5-1
 EXCAVATION LIMITS
 ACE SERVICES SITE

6.0 Summary and Conclusions

Upon completion of this demolition and excavation/disposal project, all trees debris and rubble had been removed from the site. In addition, all excavations had been backfilled with clean soil and site was left reasonably level and ready for grading by the future GWTP construction subcontractor. The construction subcontractor will be responsible for obtaining fill materials to bring the final grade up to specification. For photographs of the final site condition, see Figure 14 in Appendix E of this summary report. During the demolition effort, all areas that will be disturbed by placement of foundations for the new GWTP were either investigated via auger or excavated to ensure that soils contaminated above the actions levels will not be encountered by the GWTP construction subcontractor. Approximately 1500 ft² of asphalt was left in place at the northwest corner of the site. This will allow for additional parking for the hardware store west of the site. This material shall be replaced at some time during the construction of the new treatment plant.

Previous work at the site conducted in 1994 had attempted to remediate the plating shop concrete slab contamination and remove all contaminated soils from the site. The report summarizing this previous effort concluded that only about 27 cubic yards of contaminated soil remained (see Appendix A). During the course of conducting the specified demolition tasks, it was discovered that the plating shop slab and underlying soils were substantially contaminated. The majority of the plating shop slab had to be disposed of as hazardous material as well as a considerable amount of soil. In total, 1020 cubic yards (981 tons) of contaminated concrete and soil was disposed of. The material was hauled in 51 semi-truck loads to Safety Klean's facility in Deer Trail Colorado for treatment, encapsulation and placement in the permitted landfill.

The unanticipated extent of contamination encountered required several modifications of the demolition subcontract and extensive revision of the work plan. All of these changes were made as work proceeded so that progress was not impeded. Considerable attention was given to minimizing cost growth. Whenever possible clean soils and concrete were segregated from contaminated material to minimize the quantity hauled and disposed as hazardous material. The form of the original demolition subcontract included competitively obtained fixed unit prices for removal, hauling and disposal of contaminated material in anticipation of increased quantities. Although the actual quantity increase was well beyond any reasonable expectation, the unit prices were held for the entire job providing an excellent value for the USEPA. The additional work was managed such that there were no delay or increased overhead or extended performance cost claims made by the demolition subcontractor.

All of the original objectives of the demolition effort were met. The site was completely cleared and made ready for the follow on construction subcontract. All the demolition work including the additional soil and concrete removal was completed before the construction subcontract was executed so there were no delays in progress. Although the demolition subcontract was not originally scoped as a remediation type effort, removal of all remaining soil contaminated above action levels became an additional objective. This last objective could not be met. As detailed in Section 5.0 of this report, the soil contamination discovered at the site was found to run too deep to be accessible by

the methods available through the demolition subcontractor (Woofter Construction). The USEPA was consulted in this regard and the decision was made to leave the deeper contamination in place based on the fact that the new GWTP building and attending paved areas will effectively cap the site.

APPENDIX A

Site History Documents

**Excerpts from
Report of Removal Activities
At the ACE Services, Inc. Site
Colby, Kansas
August 1994**

**Prepared by:
The Ecology and Environment, Inc.
EPA Region VII Technical Assistance Team**

File H
46105

Site:	Ace Services
ID #	KSD046746-31
Break:	2.4
Other:	
	8-1-94

REPORT OF REMOVAL ACTIVITIES
AT THE
ACE SERVICES, INC., SITE
COLBY, KANSAS

AUGUST 1994

PREPARED BY:

THE ECOLOGY AND ENVIRONMENT, INC.
EPA REGION VII TECHNICAL ASSISTANCE TEAM

CERCLIS: KSD04676731
TDD: T07-9404-035
PAN: EKS0184FAA



ecology and environment, inc.

CLOVERLEAF BUILDING 3, 6405 METCALF, OVERLAND PARK, KANSAS 66202, TEL. 913/432-9961

International Specialists in the Environment

MEMORANDUM

TO: Roy Crossland, EPA/DPO

FROM: Lynn Parman, E & E/TATM *LP*

THRU: Joe Chandler, E & E/TATL *JCC*

DATE: August 29, 1994

SUBJECT: Removal Funded Action: Ace Services, Inc.
Colby, Kansas
TDD: T07-9404-035
PAN: EKS0184FAA
SSID: GE
EPA OSC: Wood Ramsey

INTRODUCTION

The Ecology and Environment, Inc. (E & E), Technical Assistance Team (TAT) was tasked by the U.S. Environmental Protection Agency (EPA) Emergency Planning and Response (EP&R) Branch to assist with removal activities at the Ace Services, Inc., site in Colby, Kansas. Specifically, TAT was requested to perform on-site screening of soils for lead (Pb) and chromium (Cr) with a field-portable X-ray fluorescence (XRF) spectrometer during excavation of contaminated areas, conduct monitoring and sampling of ambient air during soil-moving activities, collect soil samples for laboratory analysis to verify that cleanup levels were achieved, and provide general technical assistance as needed. Lynn Parman was assigned as the TAT project manager. Parman would coordinate a rotational schedule with TAT member (TATM) Randy Schademann to ensure that a TATM who was familiar with the site was present during all phases of the removal.

SITE DESCRIPTION

Ace Services, Inc., (Ace) is a defunct manufacturing/electroplating operation located at 345 Convesse Avenue in Colby, Kansas (Attachment A). The site is near the southeast edge of Colby and is located in a light industrial/commercial area. An unnamed tributary of Prairie Dog Creek is located approximately 175 feet east of the facility. The site is underlain by the Ogallala Formation, which serves as a regional aquifer. Depth to ground water in the vicinity of the site is approximately 100 feet. Information concerning the site's geologic setting

were obtained from a Quality Assurance Project Plan (QAPjP) prepared by EPA/EP&R.

Structures on the site consisted of an 8,000-square-foot metal-framed plating shop with a concrete floor (Attachment B). The building contained three concrete/cinder block troughs (labeled A, B, and C in Attachment B), where vats of plating solutions were located during former business operations (Attachment C). A 1,000-square-foot building that was attached to the east side of the plating shop housed a wastewater treatment (WWT) facility, which was utilized by Ace. The WWT annex was composed of two levels, with the lower level consisting of four concrete basins that contained fluids during the wastewater treatment process (Attachment D). The upper level, which was constructed of a plywood floor, wooden roof, and cinder block walls, was used primarily for storage of various equipment and supplies. A 200-square-foot cinder block building that contained an acetylene generator used by Ace for welding operations was located directly south of the WWT building. A large office building (determined to be uncontaminated by visual inspection and knowledge of previous use) was immediately south of the plating shop. A surveyed map of the site was previously prepared by EPA/TAT under Technical Direction Document (TDD) T07-9306-016.

BACKGROUND

The Kansas Department of Health and Environment (KDHE) began investigating waste management practices at Ace in 1971, when effluent from the facility was found to contain 21 milligrams per liter (mg/L) of Cr. In 1975, a WWT facility was erected at the site to address the problem. Subsequently, elevated Cr concentrations were detected in a City of Colby public water supply well (PWS#8) located 1/4 mile east of the Ace facility. During a followup assessment of the site, KDHE observed improper management of plating solutions containing hazardous substances at the facility. In addition, Pb and Cr contamination was identified in soils collected from where a lagoon had been located east of the WWT building that had previously received wastes generated from plating line operations. KDHE and the City of Colby subsequently arranged for a local contractor to excavate 500 to 1,000 cubic yards of the lagoon sludge/soil mixture, which was mixed with lime and disposed of in a burial trench at the Thomas County Sanitary Landfill (TCSL), located 2 miles east of the site.

In 1988, KDHE issued an Administrative Order that required Ace to remediate the site. Ace did not comply with the order, resulting in a decision by KDHE to initiate cleanup to remove any immediate threats to human health or the environment presented by the abandoned plating solutions. Ace ceased to operate at the facility in 1989, when it lost corporate status with the State of Kansas. In 1991, KDHE contracted Riedel Environmental Services, Inc., to conduct the removal and disposal of plating wastes from inside the facility. That activity was completed in 1992. The preceding background information was obtained from an EPA-prepared QAPjP.

Site inspections conducted by EPA/EP&R personnel during the KDHE-led removal activities yielded concerns that structural materials (i.e., walls and floors of troughs and basins that held plating solutions or contained vats for the solutions) were contaminated with metals, particularly Pb and Cr. The potential for those contaminants to have migrated beyond the walls and floors into underlying soil was also determined to be a significant threat. As a result, EPA tasked TAT to conduct a removal assessment under TDD T07-9306-016 to address the extent of contamination in structural materials, soils near the Ace facility, and soils in the TCSL burial trench.

Sample results obtained during the removal assessment indicated that widespread Cr and Pb contamination existed in the concrete walls and floors of the troughs and basins, as well as in the underlying soil. Elevated levels of Pb and Cr were also found in lagoon soils (approximated volume = 350 cubic yards) east of the Ace facility (Attachment E).

Followup sampling at the landfill trench to adequately characterize the buried waste was completed under TDD T07-9403-010A, resulting in the conclusion that an insignificant amount of material was present that met "hazardous waste" criteria under guidelines established in the Resource Conservation and Recovery Act (RCRA). A treatability study to address the contaminated media at the site was also coordinated by TAT under that TDD. For the study, samples of soil and concrete rubble were submitted to American Nukem Corporation in Houston, Texas, where they were mixed with reagents (portland cement and a fly ash/lime mixture) and subjected to Toxicity Characteristic Leaching Procedure (TCLP) analysis. In general, it was determined that Pb and Cr could be stabilized in the lagoon soil by adding the fly ash/lime reagent, while neither portland cement nor fly ash/lime were able to stabilize the metals in the sample of trough soil/concrete rubble.

An EPA Action Memorandum was formalized April 22, 1994, to address the cleanup of contaminated soil and structural materials at the Ace Services, Inc., site. No removal activities were determined to be necessary at the previously described TCSL burial trench.

SITE ACTIVITIES

TAT, EPA, and the Emergency Response and Cleanup Services (ERCS) contractor (Riedel Environmental Services, Inc.) mobilized to the site on May 9, 1994, to begin removal activities. Those activities have been segregated into the following categories (non-chronological) for reporting purposes:

- A) General Cleanup of Ace Services Plating Shop and Associated Debris
- B) Cleanup of Wastewater Treatment Building and Associated Debris
- C) Stabilization and Cleanup of Trough Area in Plating Shop
- D) Cleanup of Lagoon Area Soils

A. General Cleanup of Ace Services Plating Shop and Associated Debris

May 9-24, 1994: Contaminated (i.e., visually stained) scrap metal debris was pressure washed and placed in several metal vats, which would be stored in the plating shop following the removal activities. Contaminated washwater was contained in trough A, which had been lined with plastic sheeting. Other debris that was determined (visually) to be uncontaminated was pressure washed and placed in roll-off boxes for disposal at the TCSL as solid waste. One flatbed-trailer load of scrap metal (lead and copper items) was purchased by Bob Barnett, an employee of P & F Iron & Metals in Norton, Kansas. Those items were transported directly to a smelter for reclamation of the metal constituents. Approximately 250 lengths of scrap 2-inch by 4-inch lumber (a majority of which were stained yellow) from the plating shop were compiled into five groups and placed on wooden pallets. An electric drill was used to collect cuttings of the lumber, and the samples were submitted to the EPA Region VII Laboratory in Kansas City, Kansas, (hereafter referred to as "the EPA Lab"), for analysis of TCLP metals. A composite of cuttings from two of the groups composed sample BN2GEO01, while a composite from the remaining groups composed sample BN2GEO02. Both samples exceeded the TCLP regulatory limit of 5.0 mg/L for Cr (BN2GEO01: 54.8 mg/L, BN2GEO02: 229 mg/L). Note: Sample field sheets and laboratory-provided analytical results for all samples collected during this removal activity are included as Attachment F. The lumber was subsequently cut into 3-foot lengths and placed in roll-off boxes (which also contained contaminated soil and concrete from the plating troughs, along with used personal protective equipment) for disposal as hazardous waste at the Highway 36 Land Development Company (Highway 36) landfill, located near Deer Trail, Colorado.

Three large motors that were used to generate/amplify current for electroplating purposes were relocated within the plating shop to allow easier access to the troughs by heavy equipment during subsequent stabilization and excavation activities in those areas. Two metal cyclones, which had been incorporated into the ventilation system to entrap particulates and prevent their release to the atmosphere, were relocated from the corridor between the plating shop and the wastewater treatment building to the plating shop area. Overhead ductwork was removed from the plating shop, and pipe and plastic sheeting were removed from a wall north of the troughs. That debris was pressure washed and disposed of at the TCSL as solid waste. ERCS also conducted sand-blasting of plating vats and of metal sheeting on the wall east of trough C to remove the initial layer of contamination.

Following the removal of all general debris and subsequent sand-blasting activities, the entire interior of the plating shop was pressure washed. Contaminated washwater was directed into trough A, where it was combined with the water that was derived from cleaning miscellaneous metal debris. TAT collected a composite sample (BN4GEO01) of residual washwater remaining on the floor of the plating shop and performed on-site screening for hexavalent Cr and total Cr, using a Hach DR/3000 spectrophotometer. The sample was also submitted to the EPA Lab

for analysis of total metals. Those screening and laboratory results for the metals of concern were as follows (units = mg/L):

	<u>HEXAVALENT CR</u>	<u>TOTAL CR</u>	<u>TOTAL PB</u>
On-Site Screening	40	40	NA
EPA Lab Result (BN4GEO01)	NA	47.9	5.14

NA = Not Analyzed

Because the concentration of total Cr was above maximum allowable Cr levels established for electroplating process wastewater discharged by common metals facilities (7.0 mg/L for a single-day discharge or 4.0 mg/L for discharge over 4 consecutive days, as described in 40 CFR part 413.14), the contaminated washwater was pumped from trough A into a 2,500-gallon plastic tank, where it was treated for metals as described in Section B ("Cleanup of Wastewater Treatment Building and Associated Debris") and discharged to the sanitary sewer system. Those effluent limitations (40 CFR part 413.14) were subsequently used as guidelines for treatment and/or disposal of additional washwater, basin liquid, and accumulated rainwater, which are described in the following sections of this report.

TAT and OSC Ramsey compiled an inventory of chemical products that had been abandoned at the facility. That inventory is included as Attachment G. Material Safety Data Sheets (MSDSs) were obtained for several of the inventoried items to assist with determining methods of disposal.

June 14-July 12, 1994: Chemical materials that were inventoried were disposed of appropriately (or left at the site), according to information obtained from the MSDSs, field screening, and/or other criteria. The fate of each inventoried item is included in Attachment G.

TAT collected 13 samples (FLOOR001-012, including 003D [split of 003]) of concrete (0- to 1-inch depth) from the floor of the plating shop near the troughs, utilizing a rotary impact hammer to pulverize the sampled material. Those samples were submitted to Continental Analytical Services, Inc., (CAS) for analysis of total Pb and Cr, and the results are summarized in Attachment H. Concentrations of Pb ranged from 53 to 770 milligrams per kilogram (mg/kg), while Cr ranged from 1,400 to 16,000 mg/kg. No action levels for lead or chromium in concrete were established for the site.

In an effort to reduce hexavalent Cr to less-toxic trivalent Cr in the surface layer of the concrete, ERCS applied a solution containing sulfuric acid to the plating shop floor, followed by the addition of sodium metabisulfite, which was scrubbed onto the floor throughout the building. The area south of the troughs was cleaned twice. Excess washwater was vacuumed into a 55-gallon drum, screened by TAT for hexa-

valent Cr and total Cr with the spectrophotometer, and discharged to the sanitary sewer system when no Cr of either type was detected in the sample.

Following treatment of the floors, TAT collected samples of the concrete from three locations at 0- to 1-inch depths and screened them for hexavalent Cr with the spectrophotometer. Those screening results, compared to pre-treatment laboratory results for total Cr at the same locations, were as follows (no post-treatment samples for laboratory analysis were collected):

<u>LOCATION</u>	<u>PRE-TREATMENT TOTAL CR (ug/kg)/SAMPLE #</u>	<u>POST-TREATMENT HEXAVALENT CR (mg/kg)</u> *
4 feet north of trough C	1,400/FLOOR002	58
3 feet south of trough B	5,400/FLOOR010	920
6 feet south of trough C	16,000/FLOOR004	4,400

* = Distilled water extraction of sample performed; with extract analyzed for hexavalent Cr. No action level for hexavalent Cr in concrete was established for the site.

A 1-day high-volume air sampling event was conducted (July 12, 1994) inside the plating shop to assess post-cleanup concentrations of Pb and Cr in airborne particulate matter. A gas-powered leaf blower was periodically operated inside the building during sampling to simulate a worst-case scenario of dust suspension. The air filter samples were screened for Pb with the XRF and subsequently submitted to the EPA Lab for analysis of Pb and Cr. Screening data and laboratory results for those air samples follows (units = micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]):

<u>SAMPLE #</u>	<u>LOCATION/ID</u>	<u>PB ($\mu\text{g}/\text{m}^3$)</u>		<u>CR ($\mu\text{g}/\text{m}^3$)</u>
		<u>XRF</u>	<u>LAB</u>	<u>LAB</u>
BN7GE001	Plating Shop*	8.3	5.18	28.1
001D	Plating Shop	11.6	6.74	37.4
002F	Filter Blank	NA	1.76	0.176

NA = Not Analyzed

* = Collocated with BN7GE001. Relative percent differences

(RPDs):

Pb = 26.2%, Cr = 28.4%.

Because the air-sample results were below action levels established in the EPA Action Memorandum (Pb = 30 $\mu\text{g}/\text{m}^3$, Cr = 100 $\mu\text{g}/\text{m}^3$), the OSC concluded that no additional cleanup of the plating shop would be necessary.

B. Cleanup of Wastewater Treatment Building and Associated Debris

May 16-25, 1994: TAT assisted OSC Ramsey with performing a bench-scale treatability study to address approximately 2,600 gallons of fluid in basin #1 that contained 411 mg/L of total Cr (analysis coordinated under TDD T07-9306-016) and 230 mg/L of hexavalent Cr (on-site screening by TAT with the spectrophotometer). The study entailed the reduction of hexavalent Cr to trivalent Cr, followed by precipitation of the trivalent Cr. TAT utilized the spectrophotometer to provide on-site screening of the fluid for hexavalent Cr and total Cr at various stages of the treatability study to determine the effectiveness of the procedure. Two batches of the basin fluid were pumped into a 2,500-gallon plastic tank and treated with the following chemical materials (amounts are given for 2,000 gallons of waste liquid and are listed in the order that they were added to the liquid):

- 1) 2.5 gallons of concentrated sulfuric acid (to provide pH of about 3).
- 2) 50 pounds of sodium metabisulfite.
- 3) 25 pounds of hydrated lime (mixed with 25 gallons of water).
- 4) 2.8 volumetric ounces of anionic flocculant (mixed with 3.5 gallons of water).

The final pH of the treated fluid was approximately 7.3. Samples of the treated fluid were screened on site for hexavalent Cr and total Cr (using the spectrophotometer), and a sample (BN3GE001) was collected from the first batch for laboratory verification analysis (performed at the EPA Lab) of total Cr, along with the analysis of 23 other metals. The analytical results for Cr were as follows (units = mg/L):

BATCH #	HEXAVALENT CR (ON-SITE)	TOTAL CR (ON-SITE)	TOTAL CR (LAB)
1	0.02	2.1	1.9
2	0.04	3.7	NA

NA = Not Analyzed

The treated fluid was discharged to the sanitary sewer system through a surface inlet on the north side of the plating shop. Precipitated sediment in the tank was then transferred to trough A, where approximately 1 ton of fly ash/lime was added to the material to assist

with reducing the leachability of the metals. Residual sludge in basin #1 was placed in five 55-gallon drums and subsequently transferred to a roll-off box for transportation to the Highway 36 facility for subsequent treatment and disposal.

May 26-June 4, 1994: Cleanup of the WWT building structure entailed an initial removal of the roof, which was dismantled and placed in a roll-off box for disposal at the TCSL as uncontaminated solid waste. The cinder block walls and wooden flooring material were then removed, with the cinder block debris being placed on the south slope of the lagoon area (where concrete rubble from an airport runway had previously been placed) and the flooring material being placed in a roll-off box for disposal at the TCSL as uncontaminated waste. A sample of the cinder block debris (CINDRO01) was collected by TAT and submitted to CAS for analysis of total Pb and Cr and TCLP Pb and Cr. No elevated levels (i.e., above action limits) of the metal constituents were detected (Pb = 29 mg/kg, Cr = 57 mg/kg). The concrete basins were demolished with a trackhoe, and the concrete rubble and underlying soil were stockpiled at the northwest corner of the lagoon pit for subsequent transportation off site and disposal as hazardous waste. Following demolition of the WWT building, the adjacent cinder block building (housing the acetylene generator) was also dismantled because of its questionable stability. The cinder block debris was also placed on the south slope of the lagoon.

June 8-21, 1994: TAT conducted XRF screening of soils beneath the former WWT building during the excavation to ensure that cleanup goals were achieved throughout the area. A portion of the concrete footing for the building could not be removed and was sampled to determine its Pb and Cr concentrations. A 3-aliquot composite sample (FOOTING001) was analyzed by CAS and found to contain low concentrations of those metals. As a result, OSC Ramsey decided that the footing would remain in place.

TAT collected two cleanup verification samples of soil from where the WWT building was previously located. The 25-foot grid that had been established in the lagoon area during the removal assessment was extended toward the west to designate where those samples (A3, A4) would be collected. Analytical results for those samples are included in a table in a following section ("Cleanup of Lagoon Area Soils") that also summarizes cleanup verification sample results for the lagoon area.

The stockpiled debris was loaded into end-dump trucks and roll-off boxes and transported to the Highway 36 landfill for treatment and disposal as hazardous waste (because it exhibited the characteristic of toxicity for Cr [EPA hazardous waste number: D007]). Approximately 460 tons of debris from the WWT building were taken to the Highway 36 facility for disposal.

Air monitoring/sampling was conducted around the site perimeter on the first day that the soil/concrete was loaded into trucks for off-site disposal (June 8, 1994). High-volume air sampling stations were

established at three locations around the lagoon in a triangular pattern (Attachment I). A collocated sampler was positioned at one location to assess the reproducibility of sample results. XRF screening values and lab results for those samples, which were all well below action levels established in the EPA Action Memorandum, were as follows:

SAMPLE #	LOCATION/ID	PB ($\mu\text{g}/\text{m}^3$)		CR ($\mu\text{g}/\text{m}^3$)
		XRF	LAB	LAB
BN6GE001	Upwind-Center	<2.5	0.105	0.0771
001D	Upwind-Center*	<2.5	0.110	0.0675
002	Upwind-Right	<2.5	<0.0732	0.0967
003	Downwind-Center	<2.5	0.124	0.129
004F	Blank Filter	<2.5	<0.0732	<0.0414
Action Level		30		100

* = Collocated with BN6GE001. RPDs: Pb = 4.7%, Cr = 13.3%.

-----Miniram model PDM-3 aerosol monitors were operated upwind and downwind of the site at high-volume air sampling stations to provide real-time information concerning total airborne particulate levels. The time-weighted average of the downwind Miniram was not higher than the upwind Miniram, indicating that no discernible particulates were being suspended and carried downwind of the site as a result of the soil-moving activities.

June 27-July 12, 1994: The area where the WWT building had been located was backfilled with clean soil that was hauled to the site by Hutfles Sand & Excavating Company, which is based in Colby. Backfill soil that was used at the site had been previously sampled (FILL001, 002) by TAT and ERCS personnel and analyzed at CAS for Pb and Cr. The soil, which was obtained from two locations near Colby, contained less than 20 mg/kg of either metal. The soil was graded to produce an eastward sloping surface that slanted away from the plating shop building. The backfilled area was seeded with fescue, covered with straw, and watered to complete the restoration process.

C. Stabilization and Cleanup of Trough Area in Plating Shop

May 11, 1994: TAT and EPA collected samples of concrete and cinder block from plating troughs A and C and from the corridor east of trough C, along with samples of the underlying sand/soil (BN1GE001-012) to further assess the extent of Pb and Cr contamination in those materials. Results of those samples (analyzed at the EPA Lab) are summarized in Attachment J, which also includes the analytical data for trough samples previously collected during the removal assessment.

May 23-June 4, 1994: Prior to the start of the removal, Region VII EPA's BA architectural engineering contractor (TapanAm, Inc.) prepared a formal plan for stabilizing the plating shop structure during cleanup activities in the troughs. In accordance with that plan, two concrete piers with attached metal braces were installed in the north portion of trough B to support an existing floor-to-ceiling column located on the north edge of the trough. Two additional concrete piers were installed in the west end of trough C. Each supported a metal column and had attached metal braces, which were connected to original floor-to-ceiling columns (see attached Photographic Record). The braces were required to support the building while excavation was being conducted in the troughs.

June 6-20, 1994: ERCS used a backhoe with a hydraulic chisel attachment to dismantle the concrete walls and floors of troughs A, B, and C. The concrete wall separating troughs A and B was removed to allow easier access for cleanup of the troughs during excavation activities. A section of metal sheeting was also removed from the east wall of the plating shop to allow contaminated debris from trough C to be taken out of the building through the opening and stockpiled east of the plating shop. The concrete rubble and underlying soil from the troughs were excavated with a backhoe and trackhoe, and the material was loaded into roll-off boxes and end dump trucks for transportation to the Highway 36 landfill to be treated and disposed of as hazardous waste (exhibited characteristic of toxicity for Cr). A sample of contaminated soil/concrete from the troughs had previously been sent to the Highway 36 facility for waste profile analysis.

TAT conducted XRF screening of the trough soil during excavation activities to determine when cleanup goals had been achieved (i.e., readings below 1,200 mg/kg Cr and below 400 mg/kg Pb to incorporate a potential screening error of 20% in relation to the action levels for the site [Cr = 1,500 mg/kg, Pb = 500 mg/kg]). Approximately 340 tons of trough debris were removed during the cleanup activities. Trough A-B was excavated to a depth of about 12 feet and trough C to a depth of 14 feet, with an isolated area of trough C being excavated to a 20-foot depth. Prior to removal activities, the troughs were 5 feet deep.

Approximately 25 cubic yards of soil between trough A-B and trough C was left unexcavated, although XRF readings of soils from that area (along with the result of a lab-submitted soil sample [TROUGHCO08]) were above the action level for Cr. Similar areas of elevated Cr also remained near the concrete piers in both troughs (TROUGHCO01). XRF readings and corresponding lab results for the samples collected from those areas were as follows:

SAMPLE #	LOCATION	XRF	CHROMIUM*	
			LAB (TOTAL/TCLP)	
TROUGHCO01 008	Base of piers in trough C	2,430		2,100/74.9
	West wall of trough C	2,880		2,600/ NA

* - Units: XRF results in mg/kg
 Lab results for total Cr in mg/kg
 Lab results for TCLP Cr in mg/L

NA = Not Analyzed

OSC Ramsey conferred with KDHE and Region VII EPA personnel, who concurred that a removal of the contaminated material in those remaining areas could result in a significant weakening of the plating shop structure and that thus the material should be left in place. Following cleanup of the site, a deed restriction would be placed on the property by EPA to prohibit the unauthorized removal of the concrete floor in the plating shop. Such a removal could potentially expose the previously-described Cr-contaminated soil that had been encapsulated in the former trough area.

TAT collected cleanup verification samples of the trough walls and floors (TROUGHAB001-008, TROUGHCO03-009) for laboratory analysis (at CAS) of Pb and Cr. Those results, along with corresponding XRF screening values, are included as Attachment K.

Following excavation of soil from the troughs (particularly in trough C), portions of soil that were left exposed to the air would frequently change from a light brown color to bright yellow over a short period of time (1 to 2 hours). In those areas, XRF readings of the freshly-excavated light brown surface were below the action level for Cr, while subsequent readings at the same locations would yield elevated Cr values after the color change to bright yellow had occurred. TAT collected a sample (TROUGHCO10) of the thin (about 1/8-inch-thick) yellow layer in trough C, along with a sample (TROUGHCO11) of the underlying brown soil. The samples were screened for hexavalent Cr with the spectrophotometer and submitted to CAS for analysis of hexavalent Cr and total Cr. The results were as follows:

SAMPLE #	DESCRIPTION	HEXAVALENT CR (mg/kg)*		TOTAL CR (mg/kg)
		ON-SITE	LAB	LAB
TROUGHCO10	Yellow Soil	19,200	21,400	27,000
TROUGHCO11	Brown Soil	122	491	990

* - On-site screening entailed a distilled water extraction of a collocated sample, with the extract being analyzed for hexavalent Cr.

Although the exact process causing the color change was unknown, TAT speculated that Cr was being deposited as soil moisture migrated outward and evaporated, leaving a thin, Cr-rich layer at the surface.

June 21-30, 1994: Rainwater that had collected in the bottom of trough C was screened by TAT for hexavalent Cr and total Cr with the spectrophotometer, yielding concentrations of 3.6 mg/L and 6.0 mg/L, respectively. The water was pumped into a plastic tank where sulfuric acid and sodium metabisulfite were added to reduce the hexavalent Cr to trivalent Cr. Screening of the treated water revealed no hexavalent Cr and 5.8 mg/L of total Cr. The water was subsequently discharged to the sanitary sewer system.

About 1,200 pounds of sodium sulfite (inventory #AS-15, see Attachment G) were spread over the floors of troughs A-B and C to assist with reducing any residual hexavalent Cr to trivalent Cr. The troughs were then filled with clean soil provided by Hutfles Sand & Excavating Company and covered with a concrete slab to integrate the former trough area with the surrounding floor.

D. Cleanup of Lagoon Area Soils

May 9-19, 1994: TAT used a slambar to collect a 0- to 2-foot subsurface sample from the lagoon area at a location 4 feet east of the waste water treatment building. The sample was screened with the XRF at 4-inch increments to assess the depth of Pb and Cr contamination. Those results were as follows:

<u>DEPTH</u>	<u>PB (mg/kg)</u>	<u>CR (mg/kg)</u>
0"-4"	620	1,623
4"-8"	988	1,353
8"-12"	1,147	805
12"-16"	<100	<400
16"-20"	<100	<400

TAT also used a shovel to expose subsurface soil in a vegetated area of the lagoon where in situ XRF readings of surface soils revealed Pb and Cr concentrations below the action levels. An XRF screening of soil collected from a 10-inch depth in that area resulted in a Pb value of 523 mg/kg. As a result, it was determined that clean sediment had washed in to cover the contaminated soil, and the area would be excavated along with the other contaminated lagoon soil. TAT placed banner guard around the lagoon area to designate where Pb and Cr concentrations (based on XRF results and lab data) exceeded cleanup action levels for the site (i.e., where excavation would be required - see Attachment E).

XRF screening was also conducted in an isolated area near a surface drainage outlet north of the lagoon area (northeast of the plating shop), where a Pb concentration of 540 mg/kg was detected in a soil sample (RNXGE032) collected during the removal assessment. No XRF read-

ings exceeding the Pb or Cr action levels were observed in the drainage area. The OSC requested that the area be resampled for laboratory analysis to resolve the discrepancy. TAT collected one 5-aliquot composite sample (BN1GEO14) and one grab sample (BN1GEO13) from the drainage area for analysis of total Pb and Cr. Results were as follows:

<u>SAMPLE #</u>	<u>TYPE</u>	<u>PB (mg/kg)</u>	<u>CR (mg/kg)</u>
BN1GEO13	Grab	271	690
014	Composite	199	649

Because Pb and Cr concentrations were below the action levels in both samples, EPA determined that no soil removal in that area would be necessary.

May 24-June 21, 1994: Two KDHE-installed monitoring wells in the lagoon area were decommissioned and plugged with bentonite clay prior to excavation of the lagoon soils. Based on results from the soil treatability study for the site, it was determined that fly ash/lime would be mixed with contaminated soil from the lagoon area to stabilize the Pb and Cr. The lagoon soil was segregated into three individual batches, each of which was treated/stabilized by the following procedure:

- 1) Lagoon soil was excavated and compiled into a horseshoe-shaped configuration (to allow for easier mixing with the fly ash/lime reagent) and covered with plastic sheeting that was held down at the edges with sand bags.
- 2) A fly ash/lime mixture obtained from the Sunflower Electric Power Corporation in Holcomb, Kansas, was pumped under the plastic cover (to prevent airborne dispersion of the material) to provide an approximate 10 to 1 ratio of soil to fly ash/lime.
- 3) Additional lime (calcium oxide) was added to the batch to yield a reagent composition of about 95 percent fly ash and 5 percent lime (to match the composition effectively used in the treatability study).
- 4) The soil/reagent mixture was homogenized using a trackhoe bucket and allowed to cure for 3 to 5 days.

TAT conducted in situ XRF screening of lagoon soils for Pb and Cr (using a site-specific calibration model) during excavation activities to ensure that all contaminated soil was compiled for treatment. A gray, putty-like sludge was encountered during excavation in the lagoon that was sampled (LAGOON001) and analyzed at CAS for total Pb and Cr and TCLP Pb and Cr. No elevated levels were detected, so the putty-like material was left in place.

Following each curing period, three composite samples of the treated soil were collected and submitted to CAS for laboratory analysis of pH and TCLP metals. All samples of the treated soil yielded concentrations of TCLP metals that were below regulatory limits. TCLP metals that were reported above detectable levels in those samples (barium [Ba] and Cr), along with pH values, were as follows:

<u>SAMPLE #</u>	<u>LOCATION</u>	<u>BA</u>	<u>CR</u>	<u>PH</u>
UNIT1001	West 1/3 of batch #1	1.9	0.02	10.5
UNIT1002	Middle 1/3 of batch #1	1.7	0.02	10.4
UNIT1003	East 1/3 of batch #1	1.6	0.02	10.2
UNIT2001	Middle 1/3 of batch #2	1.2	0.03	9.8
UNIT2002	East 1/3 of batch #2	1.4	0.01	9.9
UNIT2003	West 1/3 of batch #2	1.4	<0.01	9.9
<u>SAMPLE #</u>	<u>LOCATION</u>	<u>BA</u>	<u>CR</u>	<u>PH</u>
UNIT3001	East 1/3 of batch #3	1.4	0.54	10.3
UNIT3002	Middle 1/3 of batch #3	1.0	0.22	10.5
UNIT3003	West 1/3 of batch #3	1.4	0.03	10.5
Regulatory Limit = 100.0			5.0	----

On two occasions (June 9 and June 21, 1994), rainwater that had collected in the lagoon area was screened by TAT for hexavalent Cr and total Cr using the spectrophotometer. All rainwater was pumped to the sanitary sewer system, with the exception of one small pool where 47 mg/L of hexavalent Cr was detected on June 9. That water was allowed to evaporate and soak into the soil, which would be excavated at a later date. All other samples contained < 4 mg/L of hexavalent Cr and total Cr.

High-volume air sampling was conducted during excavation of the first batch of lagoon soil (May 24, 1994; samples BN5GE001-005F) and also during mixing of the soil with fly ash/lime (May 25, 1994; samples BN5GE006-009F) to determine whether airborne particulates containing Pb and/or Cr were migrating away from the work area. ERCS routinely sprayed water onto lagoon soils to reduce airborne dust levels during soil-moving activities. The air filter samples were screened for Pb with the XRF and were subsequently submitted to the EPA Lab for analysis of Pb and Cr. Screening values and lab results for those samples were as follows:

SAMPLE #	DATE COLLECTED	LOCATION/ID	PB ($\mu\text{g}/\text{m}^3$)		CR ($\mu\text{g}/\text{m}^3$)
			XRF	LAB	LAB
BN5GE001 ¹	05/24/94	Upwind-Right ₂	<1.0	0.034	0.043
002	"	Upwind-Right ₂	<1.0	0.064	0.092
003	"	Upwind-Left	<1.0	0.075	0.129
004 ¹	"	Downwind-Center	<1.0	0.204	0.306
005F	"	Blank Filter	<1.0	<0.030	<0.017
006	05/25/94	Upwind-Right	<1.0	<0.035	<0.020
007	"	Upwind-Left	<1.0	<0.029	0.038
008 ¹	"	Downwind-Center	<1.0	0.056	0.074
009F	"	Blank Filter	<1.0	<0.030	<0.017
Action Level			30		100

1 = Results reported by the lab were incorrect due to erroneous air sample volume reported on the field sheet. The concentration listed has been adjusted to correct for the error.

2 = Collocated with BN5GE001. RPDs: Pb = 61.2%, Cr = 72.6%.

Miniram aerosol monitors were operated upwind and downwind of the site at high-volume air sampling stations to provide real-time information concerning total airborne particulate levels. For both sampling periods, the time-weighted average of the downwind Miniram was not higher than the upwind Miniram, indicating that no discernible particulates were being suspended and carried downwind of the site as a result of the soil-moving activities.

Because all high-volume air sample results were below action levels for ambient air established in the EPA Action Memorandum, the OSC concluded that additional air monitoring and sampling during future handling of the lagoon soil would not be necessary.

June 22-July 13, 1994: Rainwater that had collected in the lagoon area was sampled by TAT on June 23, 1994, and screened for total Cr. Because a low concentration (1.4 mg/L) was detected, the water was pumped to the sanitary sewer system. Hydrochloric and sulfuric acids (about 15 gallons of each) that remained unused (from on-site treatment of waste water and concrete floors) were neutralized with lime and also discharged to the sanitary sewer system. Remaining lime was spread throughout the lagoon area.

Following removal of the contaminated soil, TAT collected cleanup verification samples from 11 locations in the former lagoon area (plus two locations where the WWT building once stood) for laboratory analysis (at CAS) of total Pb and Cr. Those samples were collected from the same location where elevated levels of Pb and/or Cr were identified during the removal assessment. Pre- and post-excavation analytical results for those samples are included in a table as Attachment L.

Treated lagoon soil was stockpiled north of the plating shop until disposal arrangements were finalized. Approximately 500 tons of the

treated soil were subsequently transported to the Highway 36 landfill for disposal as hazardous waste (assigned an EPA hazardous waste number of F006 because of its origination as wastewater treatment sludge from an electroplating operation [40 CFR part 261.31]). A sample of the treated soil had previously been sent to the Highway 36 facility for waste profile analysis. A composite soil sample (BN7GE003) was collected from the area north of the plating shop where the treated soil had been stockpiled to ensure that all of the contaminated material had been removed. The sample, which was analyzed at the EPA Lab, contained 275 mg/kg of Pb and 194 mg/kg of Cr (XRF screening results: Pb = 300 mg/kg, Cr = 550 mg/kg).

The excavated portion of the lagoon area was backfilled with soil, seeded, and covered with straw to complete the restoration of the area.

QUALITY CONTROL CRITERIA

XRF Data

Quality control (QC) criteria for XRF-screening results were assessed to evaluate the detection and quantitation limits (DL and QL, respectively), precision, and accuracy of the XRF data, along with their comparability to laboratory confirmation results. All QC criteria were compared to guidelines described in Region VII EPA Standard Operating Procedure #2230.4A, entitled "Use of an Outokumpu X-MET 880 X-Ray Fluorescence Spectrometer for Field Screening of Heavy Metals".

The DLs were calculated by routinely measuring a low-level standard (approximately 250 mg/kg for Pb and 650 mg/kg for Cr) throughout the screening activities and multiplying the standard deviations of those sets of measurements by three. This resulted in DLs of approximately 100 mg/kg for Pb and 400 mg/kg for Cr. The QLs were calculated by multiplying the standard deviations by 10, which resulted in QLs of approximately 330 mg/kg for Pb and 1,350 mg/kg for Cr. Measurements below the DLs are considered non-detect, while measurements between the DLs and QLs should be considered qualitative to semi-quantitative, and measurements above the QLs are considered quantitative.

Precision was evaluated for two concentration levels by calculating the percent relative standard deviations (%RSDs) for the previously referenced sets of low-level standard measurements (approximately 250 mg/kg for Pb and 650 mg/kg for Cr), as well as for sets of mid-calibration range standard measurements (approximately 2,500 mg/kg for both Pb and Cr) that were also routinely obtained during the screening event. The following precision data (%RSDs) were derived:

	<u>PB</u>	<u>CR</u>
Low-level	13.3%	25.0%
Mid-level	10.9%	7.5%

APPENDIX B

**Asbestos/Lead Based Paint
Assessment Report**

**Ace Services
Colby, Kansas
Asbestos/Lead-Based Paint
Assessment Report**

August 2001

Prepared for:
U.S. Environmental Protection Agency

Prepared by:
BLACK & VEATCH SPECIAL PROJECTS CORP.
Overland Park, Kansas
46118.131

**Ace Services – Colby, Kansas
Asbestos/Lead-Based Paint Assessment Report
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1.0 INTRODUCTION

In May and August 2001, Black & Veatch Special Projects Corp. (BVSPC) conducted an asbestos and lead-based paint assessment for the United States Environmental Protection Agency (USEPA) for the Ace Services Site in Colby, Kansas. This survey includes an abandoned gas station, a plating shop/warehouse, and office structure that have been slated for demolition at the site. The survey is to support the generation of abatement and demolition documents for buildings on the site, prior to the construction of site remediation facilities. This assessment identifies asbestos and lead-based paint, and also quantifies and determines the condition of asbestos materials present in the building. Supporting data includes bulk asbestos analyses, lead-based paint analyses, field data sheets, and asbestos/lead-based paint sample summaries.

Asbestos identifies a group of mineral substances that share common physical characteristics rather than a common chemical composition. Asbestos is a key component of several building and construction products including thermal insulation, surfacing materials, acoustical plasters, and miscellaneous items such as gaskets, roofing felt, flex duct connections, etc. It has been used in these products because of its unique properties that include heat and chemical resistance, indestructibility by common agents, resistance to friction, and fire resistance.

This widespread use of asbestos has resulted in workplace exposure that has led to significant health problems. Asbestosis, lung cancer, mesothelioma, and other respiratory diseases have been linked directly to asbestos exposure. When disturbed, asbestos separates into smaller and smaller bundles of intricate fibers. These microscopic fibers become airborne and remain in the air for long periods of time. After these fibers are inhaled, they remain in the lungs because the body cannot rid itself of the indestructible material. Due to the lack of sufficient medical knowledge, there currently is no identified absolutely safe level of asbestos exposure. Therefore, airborne asbestos should be treated as being a health hazard.

Friable asbestos containing materials (ACM) are of greatest concern due to the potential for airborne fiber release. The USEPA National Standards for Hazardous Air Pollutants (NESHAPS) asbestos regulations (40 CFR 61, Subpart M) define friable ACM as "any material containing more than 1 percent asbestos by weight that hand pressure can crumble,

pulverize or reduce to powder when dry".

Lead was historically added to paints to increase resistance to mold, thereby increasing the protective life of the paint. It was only later discovered that these lead-based paints represent a health hazard when they age or are removed. During the natural aging process, or during removal activities, lead dust is created. This lead containing dust can enter the bloodstream through inhalation. Greatly elevated blood lead concentrations result in toxic effects, including attention deficit, memory loss, and dementia.

When any amount of lead is present within the paint, airborne lead monitoring under the OSHA Lead standard (29 CFR 1926.62) is required during abatement and renovation activities. A worker exposure determination must be made and documented for any activities involving the disturbance of lead containing paints. When lead concentrations reach specified action levels, worker protection measures must be instituted, as required by OSHA.

2.0 SAMPLING METHODOLOGY AND ANALYSIS DISCUSSION

Materials that were suspected of containing asbestos were located, inventoried, and sampled. All colors of paint found throughout the facility were sampled for lead content. Due to the uniformity of the construction materials used throughout the building, samples collected from one area were often representative of materials present in other areas. When material variations were encountered, additional samples were taken to verify the absence of asbestos. The information gathered for all confirmed asbestos containing materials was transferred to a computerized asbestos survey summary (Table 2-1) that appears at the end of this section of the report.

As each asbestos or lead-based paint sample was collected, pertinent information regarding the sampling activity was entered onto a sample data sheet by the inspector. These field-completed sheets are contained in Appendices A & B of this report. For ease of reference, the sample information has been transferred to computerized sample results summaries (Tables 2-2 & 2-3) which appear at the end of this section of the report.

The sample numbering system consists of indicators for the type of sample, the building where collected, and the unique number of the sample. The first letter A indicates this is for the Ace Services site. The next letter designation indicates the building in which the sample was collected. O = Old building or north plating shop/warehouse, N = New building or south office/storage building, and G = Abandoned gas station. These building references are then followed by a unique sample identification number. The last letter in the sample numbering scheme refers to what type of sample was collected. A = Asbestos and L = Lead-based paint.

Asbestos samples were submitted for classification and percentage analysis. The samples were delivered to TRACE Analytical Laboratories in Muskegon, Michigan. Samples were analyzed in accordance with the USEPA Interim Method of the Determination of Asbestos in Bulk Insulation Samples, Forty (40) CFR Chapter 1 Part 763 Appendix A to Subpart F. Analyses data is contained with the handwritten data sheets in Appendix A of this report.

Paint samples were also submitted to TRACE Analytical Laboratories in Michigan. All paint samples were analyzed utilizing the USEPA Method 6010. Analyses data is contained

with the handwritten data sheets in Appendix B of this report.

All samples were collected by BVSPC personnel accredited in accordance with guidelines of the USEPA. Copies of the asbestos inspector and lead inspector certificates are contained in Appendix C.

Following are discussions of the various building materials that contain asbestos. For details concerning the appearance of these materials see the handwritten data sheets in Appendix A.

Sheet Flooring – New Office Area – South Building

The sheet roll flooring in this office area has a woven paper backing which contains a high percentage of asbestos. This material must be considered friable and removed in the appropriate manner. Some of this sheet flooring is covered with carpeting. The carpet is adhered to the flooring and shall be removed and disposed as asbestos containing material.

Window Caulking – Gas Station

The material utilized to caulk around the exterior side of the aluminum frame windows in the entry area contains asbestos. This thin bead of caulk is very brittle and shall be considered a friable asbestos-containing material for removal purposes.

Door Caulking – Gas Station

The material utilized to caulk around the overhead garage doors on the north side of the building contains asbestos. This bead of caulk is brittle and shall be considered a friable asbestos-containing material for removal purposes.

Roofing Materials – Gas Station

The roof was not accessible at the time of this survey. Due to the age of the facility, the roofing materials shall be assumed to contain asbestos. This type of asphalt roofing system is addressed by the USEPA in the National Emission Standards for Hazardous Air Pollutants (NESHAPS); Asbestos 40 CFR Part 61 Subpart M-National Emission Standard for Asbestos. Section 61.141 defines this asphalt roofing as a Category I nonfriable asbestos-containing material.

Lead-Based Paint

All samples collected in the gas station and plating shop contain some detectable level of lead. Some of the samples in the warehouse building contain some detectable level of lead.

See the lead-based paint sample summary at the end of this section of the report for details concerning the colors of the paints and lead content.

**Table 2-1
Ace Services
Colby, Kansas
ASBESTOS SURVEY SUMMARY**

<u>AREA DESCRIPTION</u>	<u>TYPE OF MATERIAL*</u>	<u>DESCRIPTION OF SUSPECT MATERIAL</u>	<u>QUANTITY</u>	<u>PERCENT ASBESTOS</u>	<u>BVSPC SAMPLE NUMBER</u>
Warehouse - Offices	7	Sheet Flooring	2250 sq ft	45	A-N-05-A
Gas Station - Exterior Windows	7	Window Caulk	45 ft	5	A-G-13-A
Gas Station - Exterior Doors	7	Door Caulk	50 ft	5	A-G-14-A
Gas Station - Roofing	7	Category I Roofing Materials	1880 sq ft	Assumed	NA

* TYPE OF MATERIAL: 1. Pipe Insulation, a-Linear, b-Fitting or Joint; 2. Floor Tile; 3. Ceiling Tile; 4. Bulk (Tank or Boiler Covering); 5. Bulk (Spray Applied); 6. Gasket; 7. Other (Describe).

N/A - Not Applicable ND - None Detected TR - Trace (less than one percent) sq ft-Square Feet In ft - Linear Feet ?-Material not quantified due to system complexity

Table 2-2
Ace Services - Colby, Kansas
Asbestos Sample Summary

BVSPC Sample	Percent Asbestos*	Area	Material Sampled	Precise Sample Location
A-O-01-A	ND	Plating Shop-NW Office	Ceiling Tile	Ceiling along north wall of northwest office area.
A-N-02-A	ND	Warehouse	Drywall	Northwest corner of warehouse area.
A-N-03-A	ND	Warehouse	Drywall & Joint Compound	Same location as sample A-N-02-A.
A-N-04-A	ND	Warehouse	Drywall	Same location as sample A-N-02-A.
A-N-05-A	45	Warehouse-Offices	Sheet Flooring	Doorway to office area from main warehouses.
A-N-06-A	ND	Warehouse-Offices	Ceiling Tile	Tile on floor in office area immediately north of entry hallway.
A-O-07-A	ND	Plating Shop-West Offices	Sheet Flooring	Southwest office near center of room.
A-O-08-A	ND	Plating Shop - Offices	Drywall	East wall of northwest office.
A-O-09-A	ND	Plating Shop - Offices	Ceiling Tile	Collected from damaged tile in southwest corner of central east office.
A-O-10-A	ND	Plating Shop - Restroom	Drywall & Joint Compound	South wall of restroom.
A-O-11-A	ND	Plating Shop-Exterior	Roofing Shingles	Exterior south edge of offices.
A-O-12-A	ND	Plating Shop-Exterior	Exterior Wallboard	Exterior south wall of offices.
A-G-13-A	5	Gas Station-Exterior	Window Caulk	Along bottom of aluminum frame windows on north entry.
A-G-14-A	5	Gas Station-Exterior	Door Caulk	North overhead doors, east door, from west frame.
A-G-15-A	ND	Gas Station-Entry Area	Drywall & Joint Compound	At damaged seam location above shelving on south wall.
A-G-16-A	ND	Gas Station-Entry Area	Ceiling Insulation	Above sample A-G-15-A.
A-G-17-A	ND	Gas Station-West Garage	Drywall & Joint Compound	Southwest corner of bay at damaged area above door to storage room.
A-G-18-A	ND	Gas Station-Garage	Drywall & Joint Compound	At wall between garage bays, west side, center, at base of wall.

*ND - Denotes no asbestos detected in sample.

**Table 2-3
Ace Services - Colby, Kansas
Lead-Based Paint Sample Summary**

BVSPC Sample	Percent Lead	Area	Material Sampled	Precise Sample Location
A-N-01-L	U	Warehouse-NW Office	Medium Blue Wall Paint	West wall of northwest office.
A-N-02-L	U	Warehouse-NW Office	White Ceiling Paint	Ceiling along west wall of northwest office.
A-N-03-L	U	Warehouse-NE Office	Dark Red Wall Paint	North wall of northeast office.
A-N-04-L	0.081	Warehouse	White Wall Paint	West wall near northwest corner of warehouse.
A-N-05-L	0.09	Warehouse	Dark Red Primer	Collected from beams along center of main warehouse area.
A-O-06-L	0.066	Plating Shop-Offices	Blue-Gray Floor Paint	Center of floor in southeast office.
A-O-07-L	0.075	Plating Shop-Restroom	Yellow Wall Paint	North wall of plating shop restroom.
A-O-08-L	0.51	Plating Shop-East Room	Off-White Beam Paint	Interior beams near east wall.
A-O-09-L	0.18	Plating Shop - Exterior	Tan Exterior Wall Paint	South exterior office wall.
A-G-10-L	0.91	Exterior	White Wall Paint	North side of building, just east of entry door.
A-G-11-L	1.4	Exterior	Tan Door Frame Paint	East door frame of north entry door to glass entry area.
A-G-12-L	0.41	Entry Area	Light Gray Wall Paint	South wall of entry area from peeling surfaces.
A-G-13-L	0.34	Entry Area	Gray Door Trim Paint	South frame of east entry door to garage and at window frame.
A-G-14-L	0.74	West Garage	Gray Wall Paint	South wall of west garage bay under electrical panel.
A-G-15-L	0.75	Exterior	Light Gray Wall Paint	South side of building at peeling surfaces towards west edge.

U = No lead found above the laboratory reporting limit of 0.0025 % by weight.

3.0 RECOMMENDATIONS

The sheet flooring material used in the Warehouse Office area shall be removed prior to building demolition. The asbestos-containing paper backing on this flooring is friable and shall be handled accordingly.

Asbestos containing materials exist on the exterior of the gas station structure. These friable caulking materials can be wetted and removed by certified workers in accordance with applicable regulations. The roofing materials need not be removed prior to building demolition in accordance with NESHAPS 40 CFR 61.145 (c) (1) and are not considered a regulated asbestos containing material for disposal purposes.

All paints used throughout the gas station and plating shop contain some detectable level of lead. The lead-based paint sample summary should be consulted for lead content data.

There is no threshold level of lead at which employers are required to protect workers from exposure to lead. If lead-containing materials, such as paints, are being disturbed, employers are required to quantify the potential worker exposure and protect workers from exposure above the permissible exposure limit (PEL). The level of potential exposure to workers is a function of the lead content of the material and the type of activity causing the disturbance. Prior to the start of the activity, the employer is required to provide a negative exposure assessment that includes air-sampling data collected during similar work practices and conditions. If no such assessment is available, worker protection and work practices must be employed to prevent worker exposure until air-sampling data has shown worker exposure below the PEL. Even if a negative exposure assessment or initial air sampling data shows worker exposure to be below the PEL, periodic sampling should be conducted to assure that worker exposure remains below that level.

Lead-based paint (LBP) debris disposal is currently governed by the USEPA Resource Conservation and Recovery Act (RCRA) hazardous waste regulations and involves sampling each type of waste stream with Toxicity Characteristic Leaching Procedure (TCLP) testing. USEPA is proposing, as of the date of this report, to suspend the hazardous waste management requirements for disposal of lead-based paint and replace the RCRA standards. The new standards would be governed under the Toxic Substances Control Act

(TSCA) , and would no longer require the testing of lead-based painted debris. TSCA will allow for this disposal in construction and demolition (C&D) waste landfills. USEPA believes that the disposal of LBP debris in C&D landfills is protective of human health and the environment.

APPENDIX A

**Asbestos Handwritten Field Sheets
and Laboratory Analysis**

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wk3

July 03, 1997

SAMPLE No. : A-0-01-A

Associated Sample Nos. : _____

Inspector's Signature : [Signature]

BVSPC Project : Ace Services

Sample Collection Date : 5/2/01

BVSPC Project No. : 411118-108

SAMPLE LOCATION :

Building : Plating Shop

Precise Sample Location : Ceiling along north wall of northwest office area.

Room / Area : nw office

BVSPC Drawing : _____

Material Sampled : ceiling tile

Building System : finishing materials

SAMPLE COLLECTION METHOD :

Hand breaking or tearing of material :

Hand collection of loose debris : _____

Coring device : _____

Razor knife : _____

Spatula : _____

Other : _____

SAMPLE TYPE :

Core

Bulk

SAMPLE DESCRIPTION :

Friable :

Color(s) : smooth off-white

Non-Friable : _____

Texture : smooth - no texturing

Comments : wood fiber 1'x1' tile with paper surface. Painted creamy off white, originally pale off white. some water damage

Material:

Asphaltic _____

Brittle

Cloth _____

Fibrous

Gritty _____

Hard _____

Loose debris _____

Paper _____

Pliable _____

Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.w-1

July 03, 1997

SAMPLE No. : A-1-00-A

Associated Sample Nos. : 0304

Inspector's Signature : [Signature]

BVSPC Project : Res Services

Sample Collection Date : 5/2/01

BVSPC Project No. : 41018.68

SAMPLE LOCATION :

Building : Warehouse

Precise Sample Location : Northwest

Room / Area : Warehouse

corner of warehouse
area

BVSPC Drawing : _____

Material Sampled : Sheetrock

Building System : Finishing Materials

SAMPLE COLLECTION METHOD :

Hand breaking or tearing of material : _____

Hand collection of loose debris :

Coring device : _____

Razor knife : _____

Spatula : _____

Other : _____

SAMPLE TYPE :

_____ Core

Bulk

SAMPLE DESCRIPTION :

Friable :

Color(s) : white / gray

Non-Friable : _____

Texture : chalky plaster / paper

Comments : Extensive water damage
loose debris on floor

Material :

- Asphaltic _____
- Brittle
- Cloth _____
- Fibrous _____
- Gritty _____
- Hard _____
- Loose debris
- Paper
- Pliable _____
- Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wk3
July 03, 1997

SAMPLE No. : A-W-03A Associated Sample Nos. : 09, 01
Inspector's Signature : [Signature] BVSPC Project : All Services
Sample Collection Date : 5/2/01 BVSPC Project No. : 416118.128

SAMPLE LOCATION :
Building : Warehouse Precise Sample Location :
Room / Area : Warehouse Same location as
BVSPC Drawing : A-W-03A
Material Sampled : Suetrock
Building System : Finishing Materials

SAMPLE COLLECTION METHOD :
Hand breaking or tearing of material : _____
Hand collection of loose debris : _____
Coring device : _____
Razor knife : _____
Spatula : _____
Other : _____

SAMPLE TYPE :
_____ Core
 Bulk

SAMPLE DESCRIPTION :
Friable : _____ Color(s) : White / brown
Non-Friable : _____ Texture : Chalky plaster / paper

Comments : Extensive damage

Material :
Asphaltic _____
Brittle _____
Cloth _____
Fibrous _____
Gritty _____
Hard _____
Loose debris _____
Paper _____
Pliable _____
Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wk3

July 03, 1997

SAMPLE No. : A-N-01-A Associated Sample Nos. : 02, 03
Inspector's Signature : [Signature] BVSPC Project : Accessories
Sample Collection Date : 5/2/01 BVSPC Project No. : 41018.128

SAMPLE LOCATION:
Building : Warehouse Precise Sample Location : Same
Room / Area : Warehouse location as
BVSPC Drawing : A-N-01-A
Material Sampled : Sheetrock
Building System : Finishing Materials

SAMPLE COLLECTION METHOD: Hand breaking or tearing of material : _____
Hand collection of loose debris : Core
Coring device : _____ Bulk
Razor knife : _____
Spatula : _____
Other : _____

SAMPLE DESCRIPTION :
Friable : Color(s) : white / brown
Non-Friable : _____ Texture : chalky / paper

Comments : _____

- Material:
- Asphaltic _____
 - Brittle
 - Cloth _____
 - Fibrous
 - Gritty _____
 - Hard _____
 - Loose debris
 - Paper
 - Pliable _____
 - Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wk3

July 03, 1997

SAMPLE No. : A-N-05-A

Associated Sample Nos. : _____

Inspector's Signature : [Signature]

BVSPC Project : Acc Services

Sample Collection Date : 5/2/01

BVSPC Project No. : 41018.108

SAMPLE LOCATION :

Building : Warehouse

Precise Sample Location : Doorway

Room / Area : Offices

to office area from

BVSPC Drawing : _____

main warehouses.

Material Sampled : Roller Flooring

Building System : Finishing Materials

SAMPLE COLLECTION METHOD :

Hand breaking or tearing of material :

SAMPLE TYPE :

Core

Hand collection of loose debris : _____

Bulk

Coring device : _____

Razor knife : _____

Spatula : _____

Other : _____

SAMPLE DESCRIPTION :

Friable : _____

Color(s) : yellow

Non-Friable :

Texture : smooth

Comments : Roller flooring in

hallway & restrooms.

Has been covered with

carpet in main room to

the south

Material :

Asphaltic _____

Brittle _____

Cloth _____

Fibrous _____

Gritty _____

Hard _____

Loose debris _____

Paper _____

Pliable

Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wk3
July 03, 1997

SAMPLE No. : A-N-D6-A Associated Sample Nos. : _____
Inspector's Signature : [Signature] BVSPC Project : All Services
Sample Collection Date : 5/2/01 BVSPC Project No. : 4/20/18.128

SAMPLE LOCATION :
Building : Warehouse Precise Sample Location : Tile on floor
Room / Area : Offices in office area
BVSPC Drawing : _____ immediately north
Material Sampled : Ceiling tile of entry hallway.
Building System : Finishing Materials

SAMPLE COLLECTION METHOD : SAMPLE TYPE :
Hand breaking or tearing of material : Core
Hand collection of loose debris : _____ Bulk
Coring device : _____
Razor knife : _____
Spatula : _____
Other : _____

SAMPLE DESCRIPTION :
Friable : Color(s) : white grey
Non-Friable : _____ Texture : fibrous

Comments : 2x4 ceiling tile - white
exterior, grey fibrous interior
good condition

- Material :
Asphaltic _____
Brittle
Cloth _____
Fibrous
Gritty _____
Hard _____
Loose debris
Paper _____
Pliable _____
Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wk3

July 03, 1997

SAMPLE No. : A-0-07A

Associated Sample Nos. : _____

Inspector's Signature : [Signature]

BVSPC Project : All Services

Sample Collection Date : 5/20

BVSPC Project No. : 41018.138

SAMPLE LOCATION
Building : Plating Shop
Room / Area : West Offices
BVSPC Drawing : _____
Material Sampled : Roller Flooring
Building System : Finishing Materials

Precise Sample Location : Southwest Office (of the 4 office rooms) near center of room.

SAMPLE COLLECTION METHOD :
Hand breaking or tearing of material :
Hand collection of loose debris : _____
Coring device : _____
Razor knife : _____
Spatula : _____
Other : _____

SAMPLE TYPE :
Core _____
 Bulk

SAMPLE DESCRIPTION :
Friable : _____
Non-Friable :
Color(s) : off-white
Texture : pliable vinyl

Comments : looks like thin roller flooring that has been covered over, layers of blue green felt (carpet?) covers one side. Brown papery fiber backing. significantly damaged

Material:
Asphaltic _____
Brittle _____
Cloth _____
Fibrous
Gritty _____
Hard _____
Loose debris _____
Paper _____
Pliable
Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wk2

July 03, 1997

SAMPLE No. : A-80-08-A Associated Sample Nos. : _____
Inspector's Signature : [Signature] BVSPC Project : All Services
Sample Collection Date : 5/2/01 BVSPC Project No. : 411018.158

SAMPLE LOCATION :
Building : Plating Shop Precise Sample Location : East wall
Room / Area : Offices Southwest office
BVSPC Drawing : _____
Material Sampled : Wallboard
Building System : finishing materials

SAMPLE COLLECTION METHOD :
Hand breaking or tearing of material :
Hand collection of loose debris : _____
Coring device : _____
Razor knife : _____
Spatula : _____
Other : _____

SAMPLE TYPE :
Core _____
Bulk

SAMPLE DESCRIPTION :
Friable : _____ Color(s) : white brown
Non-Friable : Texture : chalky plaster, brown fiber

Comments : white sheetrock with
brown paper backing.
good condition

- Material:
- Asphaltic _____
 - Brittle
 - Cloth _____
 - Fibrous
 - Gritty _____
 - Hard
 - Loose debris _____
 - Paper
 - Pliable _____
 - Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wk3
July 03, 1997

SAMPLE No. : A-0-09-A Associated Sample Nos. : _____
Inspector's Signature : [Signature] BVSPC Project : All Services
Sample Collection Date : 5/2/01 BVSPC Project No. : 46018.128

SAMPLE LOCATION :
Building : Plating Shop Precise Sample Location : Damaged
Room / Area : Office tile in southwest
BVSPC Drawing : _____ corner of central east
Material Sampled : Ceiling tile office (on floor)
Building System : Finishing Materials

SAMPLE COLLECTION METHOD : SAMPLE TYPE :
Hand breaking or tearing of material : _____ Core
Hand collection of loose debris : Bulk
Coring device : _____
Razor knife : _____
Spatula : _____
Other : _____

SAMPLE DESCRIPTION :
Friable : Color(s) : off white / brown
Non-Friable : _____ Texture : smooth / fibrous

Comments : Wood fiber tile with
off white exterior - circular
stencil pattern
fair condition

Material :
Asphaltic _____
Brittle
Cloth _____
Fibrous
Gritty _____
Hard _____
Loose debris _____
Paper _____
Pliable _____
Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wk3

July 03, 1997

SAMPLE No. : A-D-10-A

Associated Sample Nos. : _____

Inspector's Signature : [Signature]

BVSPC Project : all services

Sample Collection Date : 5/2/01

BVSPC Project No. : 41018.128

SAMPLE LOCATION :

Building : Plating Shop

Precise Sample Location : South

Room / Area : Rest Room

wall of restroom

BVSPC Drawing : _____

Material Sampled : Wall system

Building System : Finishing Materials

SAMPLE COLLECTION METHOD :

SAMPLE TYPE :

Hand breaking or tearing of material : _____

Core

Hand collection of loose debris : _____

Bulk

Coring device : _____

Razor knife : _____

Spatula : _____

Other : pliers

SAMPLE DESCRIPTION :

Friable : _____

Color(s) : white / tan

Non-Friable :

Texture : plaster / paper

Comments : Sheetrock covered with a plaster texturing material.

Slight damage

Material :

- Asphaltic _____
- Brittle
- Cloth _____
- Fibrous
- Gritty _____
- Hard
- Loose debris _____
- Paper
- Pliable _____
- Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wk3
July 03, 1997

SAMPLE No. : A-D-11-A Associated Sample Nos. : _____
Inspector's Signature : [Signature] BVSPC Project : Ac Services
Sample Collection Date : 5/2/01 BVSPC Project No. : 46/18-158

SAMPLE LOCATION
Building : Plating Shop Precise Sample Location : Exterior
Room / Area : Exterior South edge of office
BVSPC Drawing : _____
Material Sampled : Shingles
Building System : Roofing

SAMPLE COLLECTION METHOD : SAMPLE TYPE :
Hand breaking or tearing of material : Core
Hand collection of loose debris : _____ Bulk
Coring device : _____
Razor knife : _____
Spatula : _____
Other : _____

SAMPLE DESCRIPTION :
Friable : _____ Color(s) : grey / black
Non-Friable : Texture : layered paper / asphalt

Comments : worn shingles
good condition

Material :
Asphaltic
Brittle _____
Cloth _____
Fibrous _____
Gritty
Hard _____
Loose debris _____
Paper
Pliable
Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

sample.wt3
July 03, 1997

SAMPLE No. : A-D-12-A Associated Sample Nos. : _____
Inspector's Signature : [Signature] BVSPC Project : All Services
Sample Collection Date : 5/2/01 BVSPC Project No. : 41018. 628

SAMPLE LOCATION :
Building : Plating Shop Precise Sample Location : Exterior
Room / Area : Exterior South wall of offices
BVSPC Drawing : _____
Material Sampled : Exterior Wall
Building System : Exterior

SAMPLE COLLECTION METHOD :
Hand breaking or tearing of material :
Hand collection of loose debris : _____
Coring device : _____
Razor knife : _____
Spatula : _____
Other : _____

SAMPLE TYPE :
Core _____
 Bulk

SAMPLE DESCRIPTION :
Friable : _____ Color(s) : Brown
Non-Friable : Texture : wood fiber

Comments : Fiber board used for
exterior walls & floors of
office area
poor condition

Material :
Asphaltic _____
Brittle _____
Cloth _____
Fibrous
Gritty _____
Hard
Loose debris _____
Paper _____
Pliable _____
Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

esb-sample.xls

February 23, 2001

SAMPLE No. : A-G-13-A

Associated Sample Nos. : _____

Inspector's Signature : A.R. McElroy

BVSPC Project : Ace Services

Sample Collection Date : 8-20-01

BVSPC Project No. : 046118.0131

SAMPLE LOCATION :

Building : Gas Station

Precise Sample Location : Along bottom

Room / Area : Exterior

of aluminum frame

BVSPC Dwg : —

windows on north

Material : Window Caulk

entry.

System : Aluminum Frames

SAMPLE COLLECTION METHOD :

SAMPLE TYPE :

Hand breaking or tearing of material : _____

_____ Core

Hand collection of loose debris : X

X Bulk

Coring device : _____

Razor knife : _____

Spatula : _____

Other : _____

SAMPLE DESCRIPTION :

Friable : X

Color(s) : Brown / Light gray

Non-Friable : _____

Texture : _____

Comments : Hard caulking which is
light gray in color but
has discolored to brown
in some areas.

Material
Asphaltic _____
Brittle X
Cloth _____
Fibrous _____
Gritty _____
Hard X
Loose debris _____
Paper _____
Pliable _____
Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

asb-sample.xls

February 23, 2001

SAMPLE No. : A-G-14-A

Associated Sample Nos. : _____

Inspector's Signature : A.R. McElroy

BVSPC Project : ACE Services

Sample Collection Date : 8-20-01

BVSPC Project No. : 046118.0131

SAMPLE LOCATION :

Building : Gas Station

Precise Sample Location : North

Room / Area : Exterior

overhead doors, east

BVSPC Dwg : -

door, from west jamb

Material : Door Caulk

System : Garage Doors

SAMPLE COLLECTION METHOD :

Hand breaking or tearing of material : _____

Hand collection of loose debris : X

Coring device : _____

Razor knife : _____

Spatula : _____

Other : _____

SAMPLE TYPE :

_____ Core

X Bulk

SAMPLE DESCRIPTION :

Friable : X

Color(s) : Light gray / tan / brown

Non-Friable : _____

Texture : _____

Comments : Tan caulking discolored
to brown on back side
with light gray / white paint
on top.

Material

Asphaltic _____

Brittle X

Cloth _____

Fibrous _____

Gritty _____

Hard X

Loose debris _____

Paper _____

Pliable _____

Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

asb-sample.xls

February 23, 2001

SAMPLE No. : A-G-15-A

Associated Sample Nos. : _____

Inspector's Signature : C. R. McEly

BVSPC Project : ACE SERVICES

Sample Collection Date : 8-20-01

BVSPC Project No. : 046118.0131

SAMPLE LOCATION :

Building : Gas station

Precise Sample Location : At damaged

Room / Area : Entry Area

seam location above

BVSPC Dwg : —

shelving on south

Material : Drywall & joint Comp.

wall.

System : Ceiling

SAMPLE COLLECTION METHOD :

Hand breaking or tearing of material : _____

Hand collection of loose debris : _____

Coring device : _____

Razor knife : X

Spatula : _____

Other : _____

SAMPLE TYPE :

X Core

_____ Bulk

SAMPLE DESCRIPTION :

Friable : X

Color(s) : light gray / tan / white

Non-Friable : _____

Texture : _____

Comments : Light gray paint over a
thin layer of finish plaster
over tan paper on white
dry wall.

- Material**
- Asphaltic _____
 - Brittle X
 - Cloth _____
 - Fibrous _____
 - Gritty _____
 - Hard X
 - Loose debris _____
 - Paper X
 - Pliable _____
 - Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

asb-sample.xls

February 23, 2001

SAMPLE No. : A-G-16-A

Associated Sample Nos. : _____

Inspector's Signature : Ch R. McLy

BVSPC Project : Ace Services

Sample Collection Date : 8-20-01

BVSPC Project No. : 046118.0131

SAMPLE LOCATION :

Building : Gas Station

Precise Sample Location : Above

Room / Area : Entry Area

sample A-G-15-A.

BVSPC Dwg : —

Material : Ceiling Insulation

System : —

SAMPLE COLLECTION METHOD :

Hand breaking or tearing of material : X

Hand collection of loose debris : _____

Coring device : _____

Razor knife : _____

Spatula : _____

Other : _____

SAMPLE TYPE :

_____ Core

X Bulk

SAMPLE DESCRIPTION :

Friable : X

Color(s) : Tan / brown / black

Non-Friable : _____

Texture : _____

Comments : Appears as tan fibrous
glass insulation with brown &
black tar paper on bottom.

Labeled as "Celotex Rock
wool Blanket"

Material

- Asphaltic X
- Brittle _____
- Cloth _____
- Fibrous X
- Gritty _____
- Hard _____
- Loose debris _____
- Paper X
- Pliable _____
- Soft X

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

esb-sample.xls

February 23, 2001

SAMPLE No. : A-4-17-A
Inspector's Signature : C.R. Maly
Sample Collection Date : 8-20-01

Associated Sample Nos. : _____
BVSPC Project : ACE Services
BVSPC Project No. : 046118.0131

SAMPLE LOCATION :

Building : Gas station
Room / Area : west Garage
BVSPC Dwg : -
Material : Drywall & Joint Comp.
System : Ceiling

Precise Sample Location : Southwest
corner of west garage
bay at damaged area
on ceiling above door
to store room.

SAMPLE COLLECTION METHOD :

Hand breaking or tearing of material : X
Hand collection of loose debris : _____
Coring device : _____
Razor knife : _____
Spatula : _____

SAMPLE TYPE :

X Core
_____ Bulk

Other : _____

SAMPLE DESCRIPTION :

Friable : X Color(s) : light gray / white / brown
Non-Friable : _____ Texture : _____

Comments : light gray paint over a
thin layer of joint compound
over white paper seam tape
over white drywall with
brown paper covering.

- Material**
- Asphaltic _____
 - Brittle X
 - Cloth _____
 - Fibrous X
 - Gritty _____
 - Hard X
 - Loose debris _____
 - Paper X
 - Pliable _____
 - Soft _____

BLACK & VEATCH SPECIAL PROJECTS CORP.
ASBESTOS BULK SAMPLE DATA SHEET

asb-sample.xls

February 23, 2001

SAMPLE No. : A-G-18-A

Associated Sample Nos. : _____

Inspector's Signature : C. R. McEly

BVSPC Project : ACE SERVICES

Sample Collection Date : 8-20-01

BVSPC Project No. : 046118.0131

SAMPLE LOCATION :

Building : Gas station

Precise Sample Location : At wall

Room / Area : Garage

between garage bays,

BVSPC Dwg : -

west side, center, at

Material : Drywall & joint comp.

base of drywall construction

System : -

SAMPLE COLLECTION METHOD :

Hand breaking or tearing of material : _____

Hand collection of loose debris : _____

Coring device : _____

Razor knife : X

Spatula : _____

Other : _____

SAMPLE TYPE :

X Core

_____ Bulk

SAMPLE DESCRIPTION :

Friable : X

Color(s) : White / brown / gray

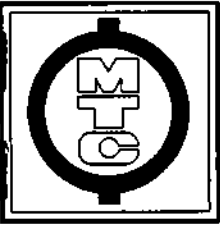
Non-Friable : _____

Texture : _____

Comments : Thin layer of white joint
compound over gray seam
tape over drywall covered
with brown paper. Red
paint over-spray on top.

Material

- Asphaltic _____
- Brittle X
- Cloth _____
- Fibrous _____
- Gritty _____
- Hard X
- Loose debris _____
- Paper X
- Pliable _____
- Soft _____



**Materials
Testing
Consultants, INC.**

CORPORATE OFFICE: 693 PLYMOUTH, N.E. GRAND RAPIDS, MI 49505
(616) 456-5469 / FAX (616) 456-5784

NORTHERN MICHIGAN OFFICE: P.O. BOX 3425 TRAVERSE CITY, MI 49685-3425
(231) 922-7111

May 9, 2001

Project No.: 011104

PLM ANALYSIS

Client: Ms. Ann Preston
Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, Michigan 49444-2673

Project: Bulk Analysis of Suspect Asbestos Containing Material
Trace Project No.: BE059

Date Received: 05/8/01

Analysis Date: 05/8/01

Lab Number	Sample Number	Sample Description	% and Type of Asbestos	% and Type of Non-asbestos	Type of Non-Fibrous Material
56329	BE059-01	Brown, Fiber and Filler Mixture	None Detected	Cellulose Fiber 80%	Binder/Filler
56330	BE059-02	Gray, Fiber and Mineral Mixture	None Detected	Cellulose Fiber 5%	Binder/Filler
-----	-----	Tan, Fibers Compressed into Sheets	None Detected	Cellulose Fiber 75%	Binder/Filler
56331	BE059-03	Gray, Fiber and Mineral Mixture	None Detected	Cellulose Fiber 5%	Binder/Filler
56332	BE059-04	Gray, Fiber and Mineral Mixture	None Detected	Cellulose Fiber 10%	Binder/Filler
-----	-----	Tan, Fibers Compressed into Sheets	None Detected	Cellulose Fiber 75%	Binder/Filler
56333	BE059-05	Gray, Fiber and Filler Mixture	Chrysotile 45%	None Detected	Binder/Filler
-----	-----	Yellow, Mastic	None Detected	None Detected	Binder/Filler
56334	BE059-06	Gray, Fiber and Filler Mixture	None Detected	Mineral Wool 45% Cellulose Fiber 35%	Binder/Filler

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Insulation Samples"; EPA/600/R-93/116; July, 1993.

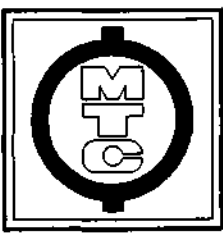
Percentages are visual estimates based on volume.

Limit of Detection: < 1%

Not Detected (ND) indicated that no fibers in category were observed.

Allan G. Howland per
Analyst: Jeanine L. Samuelson

[Signature]
Reviewed By: Christopher J. Kestner



**Materials
Testing
Consultants, INC.**

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(616) 456-5469 / FAX (616) 456-5784
NORTHERN MICHIGAN OFFICE: P.O. BOX 3425 TRAVERSE CITY, MI 49685-3425
(231) 922-7111

May 9, 2001

Project No.: 011104

PLM ANALYSIS

Client: Ms. Ann Preston
Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, Michigan 49444-2673

Project: Bulk Analysis of Suspect Asbestos Containing Material
Trace Project No.: BE059

Date Received: 05/8/01

Analysis Date: 05/8/01

Lab Number	Sample Number	Sample Description	% and Type of Asbestos	% and Type of Non-asbestos	Type of Non-Fibrous Material
56335	BE059-07	Green, Fibers Compressed into Sheets	None Detected	Cellulose Fiber 75%	Binder/Filler
----	----	Yellow, Mastic	None Detected	Cellulose Fiber 5%	Binder/Filler
----	----	White, Mastic	None Detected	None Detected	Binder/Filler
56336	BE059-08	Gray, Fiber and Mineral Mixture	None Detected	Cellulose Fiber 5%	Binder/Filler
----	----	Tan, Fibers Compressed into Sheets	None Detected	Cellulose Fiber 75%	Binder/Filler
56337	BE059-09	Brown, Fiber and Filler Mixture	None Detected	Cellulose Fiber 80%	Binder/Filler
56338	BE059-10	Gray, Fiber and Mineral Mixture	None Detected	Cellulose Fiber 10%	Binder/Filler
----	----	Tan, Fibers Compressed into Sheets	None Detected	Cellulose Fiber 75%	Binder/Filler
56339	BE059-11	Black, Fiber and Tar Mixture	None Detected	Cellulose Fiber 40%	Binder/Filler
56340	BE059-12	Brown, Fiber and Filler Mixture	None Detected	Cellulose Fiber 75%	Binder/Filler

Analytical Method: US EPA; "Method for the Determination of Asbestos in Bulk Insulation Samples"; EPA/600/R-93/116; July, 1993.

Percentages are visual estimates based on volume.

Limit of Detection: < 1%

Not Detected (ND) indicated that no fibers in category were observed.

Jeanine L. Samuelson
Analyst: Jeanine L. Samuelson

Christopher J. Kestner
Reviewed By: Christopher J. Kestner



Analytical Laboratories, Inc.

2241 Black Creek Road • Muskegon, MI 49444-2673 • Phone 231-773-5998 • Fax 231-773-6537 • E-Mail: TraceAnalytical@mad.scientist.com

Mr. Curt McCoy
Black & Veatch
Special Projects
6601 College Blvd.
Overland Park, KS 66211

TRACE ID: BH223-01
REPORT DATE: 08/29/01
ANALYSIS DATE: 08/28/01
ANALYST: MTC

CLIENT ID: Project # 46118.131
ACE Services

SAMPLE DATE: 08/20/01
SAMPLE RECEIVED: 08/23/01
SAMPLE TYPE: Solid
SAMPLER: cm

SAMPLE ID: A-G-13-A

SAMPLE DESCRIPTION	% AND TYPE OF ASBESTOS	% AND TYPE OF NON-ASBESTOS FIBER	TYPE OF NON-FIBROUS MATERIAL
Gray, Caulk	Chrysotile-5%	None Detected	Binder/filler

Analytical Method: US EPA; "Interim Method for the Determination of Asbestos in Bulk Insulation Samples"; EPA-600/R-93-116; July, 1993.

Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.



TRACE

Analytical Laboratories, Inc.

2241 Black Creek Road • Muskegon, MI 49444-2673 • Phone 231-773-5998 • Fax 231-773-6537 • E-Mail: TraceAnalytical@mad.sciencist.com

Mr. Curt McCoy
Black & Veatch
Special Projects
6601 College Blvd.
Overland Park, KS 66211

TRACE ID: BH223-02
REPORT DATE: 08/29/01
ANALYSIS DATE: 08/28/01
ANALYST: MTC

CLIENT ID: Project # 46118.131
ACE Services

SAMPLE DATE: 08/20/01
SAMPLE RECEIVED: 08/23/01
SAMPLE TYPE: Solid
SAMPLER: cm

SAMPLE ID: A-G-14-A

SAMPLE DESCRIPTION	% AND TYPE OF ASBESTOS	% AND TYPE OF NON-ASBESTOS FIBER	TYPE OF NON-FIBROUS MATERIAL
Gray, Caulk	Chrysotile-5%	None Detected	Binder/filler

Analytical Method: US EPA; "Interim Method for the Determination of Asbestos in Bulk Insulation Samples"; EPA-600/R-93-116; July, 1993.

Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

U = Undetected at reporting limits



TRACE

Analytical Laboratories, Inc.

2241 Black Creek Road • Muskegon, MI 49444-2673 • Phone 231-773-5998 • Fax 231-773-6537 • E-Mail: TraceAnalytical@mad.sciencist.com

Mr. Curt McCoy
Black & Veatch
Special Projects
6601 College Blvd.
Overland Park, KS 66211

TRACE ID: BH223-03
REPORT DATE: 08/29/01
ANALYSIS DATE: 08/28/01
ANALYST: MTC

CLIENT ID: Project # 46118.131
ACE Services

SAMPLE DATE: 08/20/01
SAMPLE RECEIVED: 08/23/01
SAMPLE TYPE: Solid
SAMPLER: cm

SAMPLE ID: A-G-15-A

SAMPLE DESCRIPTION	% AND TYPE OF ASBESTOS	% AND TYPE OF NON-ASBESTOS FIBER	TYPE OF NON-FIBROUS MATERIAL
Gray, Fiber and Mineral Mixture	None Detected	10% Cellulose Fiber	Binder/filler

Analytical Method: US EPA; "Interim Method for the Determination of Asbestos in Bulk Insulation Samples"; EPA-600/R-93-116; July, 1993.

Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.



TRACE

Analytical Laboratories, Inc.

2241 Black Creek Road • Muskegon, MI 49444-2673 • Phone 231-773-5998 • Fax 231-773-6537 • E-Mail: TraceAnalytical@mad.sciencist.com

Mr. Curt McCoy
Black & Veatch
Special Projects
6601 College Blvd.
Overland Park, KS 66211

TRACE ID: BH223-04
REPORT DATE: 08/29/01
ANALYSIS DATE: 08/28/01
ANALYST: MTC

CLIENT ID: Project # 46118.131
ACE Services

SAMPLE DATE: 08/20/01
SAMPLE RECEIVED: 08/23/01
SAMPLE TYPE: Solid
SAMPLER: cm

SAMPLE ID: A-G-16-A

SAMPLE DESCRIPTION	% AND TYPE OF ASBESTOS	% AND TYPE OF NON-ASBESTOS FIBER	TYPE OF NON-FIBROUS MATERIAL
Yellow, Fiber and Filler Mixture	None Detected	80% Fibrous Glass	Binder/filler

Analytical Method: US EPA; "Interim Method for the Determination of Asbestos in Bulk Insulation Samples"; EPA-600/R-93-116; July, 1993.

Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.



TRACE

Analytical Laboratories, Inc.

2241 Black Creek Road • Muskegon, MI 49444-2673 • Phone 231-773-5998 • Fax 231-773-6537 • E-Mail: TraceAnalytical@mad.scientist.com

Mr. Curt McCoy
Black & Veatch
Special Projects
6601 College Blvd.
Overland Park, KS 66211

TRACE ID: BH223-05
REPORT DATE: 08/29/01
ANALYSIS DATE: 08/28/01
ANALYST: MTC

CLIENT ID: Project # 46118.131
ACE Services

SAMPLE DATE: 08/20/01
SAMPLE RECEIVED: 08/23/01
SAMPLE TYPE: Solid
SAMPLER: cm

SAMPLE ID: A-G-17-A

SAMPLE DESCRIPTION	% AND TYPE OF ASBESTOS	% AND TYPE OF NON-ASBESTOS FIBER	TYPE OF NON-FIBROUS MATERIAL
Gray, Fiber and Mineral Mixture	None Detected	10% Cellulose Fiber	Binder/filler

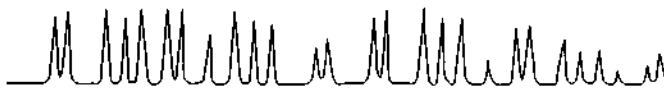
Analytical Method: US EPA; "Interim Method for the Determination of Asbestos in Bulk Insulation Samples"; EPA-600/R-93-116; July, 1993.

Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

U = Undetected at reporting limits



TRACE

Analytical Laboratories, Inc.

2241 Black Creek Road • Muskegon, MI 49444-2673 • Phone 231-773-5998 • Fax 231-773-6537 • E-Mail: TraceAnalytical@mad.scientist.com

Mr. Curt McCoy
Black & Veatch
Special Projects
6601 College Blvd.
Overland Park, KS 66211

TRACE ID: BH223-06
REPORT DATE: 08/29/01
ANALYSIS DATE: 08/28/01
ANALYST: MTC

CLIENT ID: Project # 46118.131
ACE Services

SAMPLE DATE: 08/20/01
SAMPLE RECEIVED: 08/23/01
SAMPLE TYPE: Solid
SAMPLER: cm

SAMPLE ID: A-G-18-A

SAMPLE DESCRIPTION	% AND TYPE OF ASBESTOS	% AND TYPE OF NON-ASBESTOS FIBER	TYPE OF NON-FIBROUS MATERIAL
Gray, Fiber and Mineral Mixture	None Detected	5% Fibrous Glass 5% Cellulose Fiber	Binder/filler

Analytical Method: US EPA; "Interim Method for the Determination of Asbestos in Bulk Insulation Samples"; EPA-600/R-93-116; July, 1993.

Percentages are visual estimates based on volume.

Limit of Detection: <1%

Not Detected (ND) indicated that no fibers in category were observed.

8/28/01

6601 College Blvd.
Overland Park, KS 66211
Attn: Curt McCoy *CW*

CHAIN OF CUSTODY RECORD

P.10

616 773 6537

TRACE

08-29-2001 04:07PM

TOTAL P.10

PROJ. NO. 40118.131		PROJECT NAME ACE Services				NO. OF CONTAINERS	PLM-Asbestos		% Lead by weight		REMARKS BH223
SAMPLES: (signature) <i>C.R. McCoy</i>											
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						
01	8/28/01	-		X	A-G-13-A	1	X			3 day turn around	
02	8/28/01	-		X	A-G-14-A	1	X			↑	
03	8/28/01	-		X	A-G-15-A	1	X			↑	
04	8/28/01	-		X	A-G-16-A	1	X			↑	
05	8/28/01	-		X	A-G-17-A	1	X				
06	8/28/01	-		X	A-G-18-A	1	X				
07	8/28/01	-		X	A-G-10-L	1		X			
08	8/28/01	-		X	A-G-11-L	1		X			
09	8/28/01	-		X	A-G-12-L	1		X			
10	8/28/01	-		X	A-G-13-L	1		X			
11	8/28/01	-		X	A-G-14-L	1		X		↓	
12	8/28/01	-		X	A-G-15-L	1		X		3 day turn around	
<i>C.R. McCoy</i>											
Relinquished by: (Signature) <i>C.R. McCoy</i>			Date/Time 8/29/00 10:00		Received by: (Signature) <i>Fed Ex C.R. McCoy</i>			Relinquished by: (Signature)		Date/Time 8-23-01 11:45	
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)		Date/Time / Received by: (Signature)	
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks Phone: (913) 458-6520 FAX: (913) 458-6633	

APPENDIX B

**Lead-Based Paint Handwritten Field Sheets
and Laboratory Analysis**

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pbem.wk
January 28, 19

SAMPLE No. : AW-181-2

Associated Sample Nos. : _____

Inspector's Signature : [Signature]

BVSPC project : Acc Services

Sample Collection Date : 5/2/01

BVSPC Project No. : 410118.108

LABORATORY RESULTS :

ND % Lead (Pb)

LABORATORY : Trace

Date lab results transferred : 5/23/01

Initials : [Signature]

SAMPLE LOCATION :

Precise Sample Location :

Building : Warehouse

West wall of

Room / Area : Northwest office

Northwest office

BVSPC Drawing : _____

Material Sampled : Wall paint

Bldg. Component : Drywall

SAMPLE COLLECTION METHOD :

PAINT SAMPLE TYPE :

Hand collection of loose debris : _____

Paint Chip

Razor knife :

_____ 1.25" Square Matrix Sample

Scraper : _____

_____ 4" Square Wipe Sample

Spatula : _____

Wipe : _____

Other : _____

SAMPLE DESCRIPTION :

Comments :

Color(s) : Medium Blue

Good condition

Texture : Matte finish

Layers : White

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pb287m.wa
January 20

SAMPLE No. : A-D-001-L
Inspector's Signature : [Signature]
Sample Collection Date : 5/2/01

Associated Sample Nos. : _____
BVSPC project : Acc Services
BVSPC Project No. : 41018 JAR

LABORATORY RESULTS :

ND % Lead (Pb)

LABORATORY : Ince

Date lab results transferred : 5/23/01

Initials : PLK

SAMPLE LOCATION :

Building : Warehouse
Room / Area : Northwest office
BVSPC Drawing : _____
Material Sampled : Ceiling paint
Bldg. Component : Ceiling

Precise Sample Location :

Ceiling along west wall of northwest office

SAMPLE COLLECTION METHOD :

Hand collection of loose debris : _____
Razor knife : _____
Scraper : _____
Spatula : _____
Wipe : _____
Other : _____

PAINT SAMPLE TYPE :

Paint Chip
_____ 1.25" Square Matrix Sample
_____ 4" Square Wipe Sample

SAMPLE DESCRIPTION :

Color(s) : White
Texture : Matte
Layers : none

Comments :

good condition

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pbam.wk.
January 28, 19

SAMPLE No. : A-W-03-k
Inspector's Signature : [Signature]
Sample Collection Date : 5/2/01

Associated Sample Nos. : _____
BVSPC project : All Services
BVSPC Project No. : 41018.128

LABORATORY RESULTS :

ND % Lead (Pb)

LABORATORY : Trace
Date lab results transferred : 5/23/01
Initials : [Signature]

SAMPLE LOCATION :

Building : Warehouse
Room / Area : Northeast office
BVSPC Drawing : _____
Material Sampled : Paint
Bldg. Component : Wall

Precise Sample Location :

North wall of
Northeast office

SAMPLE COLLECTION METHOD :

Hand collection of loose debris : _____
Razor knife : _____
Scraper : _____
Spatula : _____
Wipe : _____
Other : _____

PAINT SAMPLE TYPE :

Paint Chip

1.25" Square Matrix Sample

4" Square Wipe Sample

SAMPLE DESCRIPTION :

Color(s) : Dark Red
Texture : Matte
Layers : White

Comments :

Some peeling

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pb28m.wk
January 26

SAMPLE No. : A-104-L
Inspector's Signature : [Signature]
Sample Collection Date : 5/20/01

Associated Sample Nos. : _____
BVSPC project : Acc Services
BVSPC Project No. : 4/018.108

LABORATORY RESULTS :

0.081 % Lead (Pb)

LABORATORY : Unice

Date lab results transferred : 5/23/01

Initials : [Signature]

SAMPLE LOCATION :

Precise Sample Location :

Building : Warehouse
Room / Area : Main Warehouse
BVSPC Drawing : _____
Material Sampled : Paint
Bldg. Component : Sheetrock

West wall near northwest corner of Warehouse

SAMPLE COLLECTION METHOD :

PAINT SAMPLE TYPE :

Hand collection of loose debris : _____
Razor knife : _____
Scraper : _____
Spatula : _____
Wipe : _____
Other : _____

Paint Chip
_____ 1.25" Square Matrix Sample
_____ 4" Square Wipe Sample

SAMPLE DESCRIPTION :

Comments :

Color(s) : White
Texture : Semi-gloss
Layers : off-white

Peeling/damaged

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pbsem.wa.2
January 28, 19

SAMPLE No. : ANJ-052

Associated Sample Nos. : _____

Inspector's Signature : [Signature]

BVSPC project : Acc Services

Sample Collection Date : 3/2/01

BVSPC Project No. : 4/0118.128

LABORATORY RESULTS :

0.090 % Lead (Pb)

LABORATORY : Trace

Date lab results transferred : 5/23/01

Initials : [Signature]

SAMPLE LOCATION :

Precise Sample Location :

Building : Warehouse

Room / Area : Main warehouse

BVSPC Drawing : _____

Material Sampled : Primer

Bldg. Component : Structural

Collected from beams
along center of
main warehouse
area

SAMPLE COLLECTION METHOD :

PAINT SAMPLE TYPE :

Hand collection of loose debris : _____

Razor knife : _____

Scraper : _____

Spatula : _____

Wipe : _____

Other : _____

Paint Chip

_____ 1.25" Square Matrix Sample

_____ 4" Square Wipe Sample

SAMPLE DESCRIPTION :

Comments :

Color(s) : Dark red

Texture : Flat

Layers : none

Slightly worn

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

0325m-w-3
January 28,

SAMPLE No. : AD-010-L
Inspector's Signature : [Signature]
Sample Collection Date : 5/2/01

Associated Sample Nos. : _____
BVSPC project : All Services
BVSPC Project No. : 411018.678

LABORATORY RESULTS :

0.010 % Lead (Pb)

LABORATORY : Turaco
Date lab results transferred : 5/23/01
Initials : [Signature]

SAMPLE LOCATION :

Building : Plating shop
Room / Area : Office
BVSPC Drawing : _____
Material Sampled : floor paint
Bldg. Component : concrete floor

Precise Sample Location :

center of floor in
southeast office

SAMPLE COLLECTION METHOD :

Hand collection of loose debris : _____
Razor knife : _____
Scraper : _____
Spatula : _____
Wipe : _____
Other : _____

PAINT SAMPLE TYPE :

Paint Chip
_____ 1.25" Square Matrix Sample
_____ 4" Square Wipe Sample

SAMPLE DESCRIPTION :

Color(s) : Blue-grey
Texture : Glossy
Layers : Battleship Grey

Comments :

Peeling
some damage

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

p63am.wk3

January 28, 1988

SAMPLE No. : A.D-07-L
Inspector's Signature : [Signature]
Sample Collection Date : 5/2/01

Associated Sample Nos. : _____
BVSPC project : See Services
BVSPC Project No. : 4618.128

LABORATORY RESULTS :

0.075 % Lead (Pb)

LABORATORY : Tuace
Date lab results transferred : 5/23/01
Initials : ELK

SAMPLE LOCATION :

Building : Plating Shop
Room / Area : Restroom
BVSPC Drawing : _____
Material Sampled : Wall paint
Bldg. Component : Sheetrock

Precise Sample Location :

North wall of
plating shop restroom

SAMPLE COLLECTION METHOD :

Hand collection of loose debris : _____
Razor knife : _____
Scraper : _____
Spatula : _____
Wipe : _____
Other : _____

PAINT SAMPLE TYPE :

Paint Chip

1.25" Square Matrix Sample

4" Square Wipe Sample

SAMPLE DESCRIPTION :

Color(s) : Greenish yellow
Texture : Semi-gloss
Layers : one

Comments :

peeling/damaged

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pb3am.wf
January 2001

SAMPLE No. : AO-08-L
Inspector's Signature : [Signature]
Sample Collection Date : 5/26/01

Associated Sample Nos. : _____
BVSPC project : All Services
BVSPC Project No. : 41018.128

LABORATORY RESULTS :

0.51 % Lead (Pb)

LABORATORY : Trace

Date lab results transferred : 5/23/01

Initials : ELK

SAMPLE LOCATION :

Building : Plating Shop
Room / Area : East Room
BVSPC Drawing : _____
Material Sampled : Paint
Bldg. Component : Structural

Precise Sample Location :

Interior beams
also near east wall

SAMPLE COLLECTION METHOD :

Hand collection of loose debris : _____
Razor knife : _____
Scraper : _____
Spatula : _____
Wipe : _____
Other : _____

PAINT SAMPLE TYPE :

Paint Chip
_____ 1.25" Square Matrix Sample
_____ 4" Square Wipe Sample

SAMPLE DESCRIPTION :

Color(s) : Greenish off white
Texture : ?
Layers : one

Comments :

Very damaged

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pbam.wk
January 28, 19

SAMPLE No. : A-D-09-6
Inspector's Signature : [Signature]
Sample Collection Date : 5/2/01

Associated Sample Nos. : _____
BVSPC project : All Services
BVSPC Project No. : 4/10/18.128

LABORATORY RESULTS :

0.18 % Lead (Pb)

LABORATORY : Turple

Date lab results transferred : 5/23/01

Initials : [Signature]

SAMPLE LOCATION :

Building : Plating Shop
Room / Area : Exterior
BVSPC Drawing : _____
Material Sampled : Paint
Bldg. Component : Siding

Precise Sample Location :

South exterior
office wall

SAMPLE COLLECTION METHOD :

Hand collection of loose debris : _____
Razor knife : _____
Scraper : _____
Spatula : _____
Wipe : _____
Other : _____

PAINT SAMPLE TYPE :

Paint Chip
_____ 1.25" Square Matrix Sample
_____ 4" Square Wipe Sample

SAMPLE DESCRIPTION :

Color(s) : Tan
Texture : _____
Layers : none

Comments :

very weathered
peeling

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pbsam.xls

July 27, 2001

SAMPLE No. : A-4-10-L Associated Sample Nos. : _____
Inspector's Signature : C.R. McLy BVSPC Project : Acc Services
Sample Collection Date : 8-20-01 BVSPC Project No. : 046118.0131

LABORATORY RESULTS :

0.91 % Lead (Pb) LABORATORY : Trace Analytical
Date lab results transferred : 8-28-01
Initials : C.R. McLy

SAMPLE LOCATION :

Precise Sample Location :

Building : Gas Station North side of
Room / Area : Exterior building, just east
Drawing No : - of entry door.
Color Sampled : White
Component : CMU walls

SAMPLE COLLECTION METHOD :

PAINT SAMPLE TYPE :

Hand collection of loose debris : _____ X Paint Chip
Razor knife : _____ 1.25" Square Matrix Sam
Scraper : X _____ 4" Square Wipe Sample
Spatula : _____
Wipe : _____
Other : _____

SAMPLE DESCRIPTION :

Comments :

Color(s) : White / Tan / Brown Concrete Masonry
Texture : _____ Unit (CMU)
Layers : 3 Substrate

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pbsam.xls

July 27, 2001

SAMPLE No. : A-G-11-L Associated Sample Nos. : _____
Inspector's Signature : C.R. McEly BVSPC Project : ACE Services
Sample Collection Date : 8-20-01 BVSPC Project No. : 046118.0131

LABORATORY RESULTS :

1.4 % Lead (Pb)

LABORATORY : Trace Analytical

Date lab results transferred : 8-28-01

Initials : C.R. McEly

SAMPLE LOCATION :

Precise Sample Location :

Building : Gas station
Room / Area : Exterior
Drawing No : —
Color Sampled : Tan
Component : Door Jamb

East door frame of
north entry door
to glass area.

SAMPLE COLLECTION METHOD :

PAINT SAMPLE TYPE :

Hand collection of loose debris : X

X Paint Chip

Razor knife : _____

_____ 1.25" Square Matrix Sam

Scraper : _____

_____ 4" Square Wipe Sample

Spatula : _____

Wipe : _____

Other : _____

SAMPLE DESCRIPTION :

Comments :

Color(s) : Tan / Brown / White

wood substrate

Texture : _____

Layers : 3

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pbsam.xls

July 27, 2001

SAMPLE No. : A-6-12-L Associated Sample Nos. : _____
Inspector's Signature : CWR McLy BVSPC Project : ACE SERVICES
Sample Collection Date : 8-20-01 BVSPC Project No. : 046118.0131

LABORATORY RESULTS :

0.41 % Lead (Pb) LABORATORY : Trace Analytical
Date lab results transferred : 8-28-01
Initials : CWR McLy

SAMPLE LOCATION :

Precise Sample Location :

Building : Gas Station South wall of entry
Room / Area : Entry Area area from peeling
Drawing No : - surfaces.
Color Sampled : Light gray
Component : CMU wall

SAMPLE COLLECTION METHOD :

PAINT SAMPLE TYPE :

Hand collection of loose debris : _____ X Paint Chip
Razor knife : _____ _____ 1.25" Square Matrix Sam
Scraper : X _____ 4" Square Wipe Sample
Spatula : _____
Wipe : _____
Other : _____

SAMPLE DESCRIPTION :

Comments :

Color(s) : Light gray/Turquoise CMU substrate
Texture : _____
Layers : 2

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pbsam.xls

July 27, 2001

SAMPLE No. : A-G-13-L Associated Sample Nos. : _____

Inspector's Signature : C.R. McFly BVSPC Project : ACE Services

Sample Collection Date : 8-20-01 BVSPC Project No. : 046118.0131

LABORATORY RESULTS :

0.34 % Lead (Pb)

LABORATORY : Trace Analytical

Date lab results transferred : 8-28-01

Initials : C.R. McFly

SAMPLE LOCATION :

Precise Sample Location :

Building : Gas Station

South frame of east

Room / Area : Entry Area

entry door to

Drawing No. : -

garage and at

Color Sampled : Gray

window frame.

Component : Door & windows

SAMPLE COLLECTION METHOD :

PAINT SAMPLE TYPE :

Hand collection of loose debris : _____

X Paint Chip

Razor knife : _____

_____ 1.25" Square Matrix Sam

Scraper : X

_____ 4" Square Wipe Sample

Spatula : _____

Wipe : _____

Other : _____

SAMPLE DESCRIPTION :

Comments :

Color(s) : Gray/green/light gray

Wood Substrate

Texture : -

Yellow paint also

Layers : 3

on window frame

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLE DATA SHEET

pbsam.xls

July 27, 2001

SAMPLE No. : A-G-14-L Associated Sample Nos. : _____
Inspector's Signature : C.R. McBy BVSPC Project : Ace Services
Sample Collection Date : 8-20-01 BVSPC Project No. : 046118.0131

LABORATORY RESULTS :

0.74 % Lead (Pb)

LABORATORY : Trace Analytical

Date lab results transferred : 8-28-01

Initials : C.R. McBy

SAMPLE LOCATION :

Precise Sample Location :

Building : Gas Station
Room / Area : West Garage
Drawing No : —
Color Sampled : Gray
Component : CMU Wall

South wall of west
garage bay under
electrical panel.

SAMPLE COLLECTION METHOD :

PAINT SAMPLE TYPE :

Hand collection of loose debris : _____

X Paint Chip

Razor knife : _____

_____ 1.25" Square Matrix Sam

Scraper : X

_____ 4" Square Wipe Sample

Spatula : _____

Wipe : _____

Other : _____

SAMPLE DESCRIPTION :

Comments :

Color(s) : Gray/Yellow/Green/Turq.

CMU Substrate

Texture : _____

Layers : 4

LEAD PAINT SAMPLE DATA SHEET

SAMPLE No. : A-G-15-L Associated Sample Nos. : _____

Inspector's Signature : C.R. Mcely BVSPC Project : ACE Services

Sample Collection Date : 8-20-01 BVSPC Project No. : 046118.0131

LABORATORY RESULTS :

0.75 % Lead (Pb)

LABORATORY : Trace Analytical

Date lab results transferred : 8-28-01

Initials : C.R. Mcely

SAMPLE LOCATION :

Precise Sample Location :

Building : Gas station

South side of building

Room / Area : Exterior

at peeling surfaces

Drawing No. : -

towards west edge.

Color Sampled : Light Gray

Component : CMU wall

SAMPLE COLLECTION METHOD :

PAINT SAMPLE TYPE :

Hand collection of loose debris : X

X Paint Chip

Razor knife : _____

_____ 1.25" Square Matrix Sam

Scraper : _____

_____ 4" Square Wipe Sample

Spatula : _____

Wipe : _____

Other : _____

SAMPLE DESCRIPTION :

Comments :

Color(s) : Light gray / Tan

CMU substrate

Texture : _____

mortar in

Layers : 2

sample



TRACE

Analytical Laboratories, Inc.

2241 Black Creek Road • Muskegon, MI 49444-2673 • Phone 231-773-5998 • Fax 231-773-6537 • E-Mail: TraceAnalytical@mad.sciencist.com

Ms. Ellen Kimmel
Black & Veatch
6601 College Blvd.
Overland Park, KS 66211

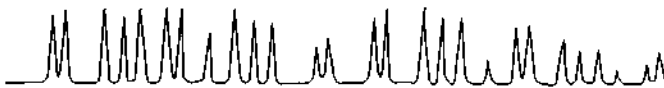
TRACE ID: BE059
REPORT DATE: 05/22/01
ANALYSIS DATE: 05/17/01
ANALYST: eh

CLIENT ID: Project #46118.128
Ace Services

SAMPLE DATE: 05/02/01
SAMPLE RECEIVED: 05/07/01
SAMPLE TYPE: Pain Chips
SAMPLER: NA

TRACE SAMPLE NO.	SAMPLE ID	TOTAL LEAD %	REPORTING LIMIT %	METHOD
13	A-N-01-L	U	0.0025	EPA 6010
14	A-N-02-L	U	0.0025	EPA 6010
15	A-N-03-L	U	0.0025	EPA 6010
16	A-N-04-L	0.081	0.0025	EPA 6010
17	A-N-05-L	0.090	0.0025	EPA 6010
18	A-O-06-L	0.066	0.0025	EPA 6010
19	A-O-07-L	0.075	0.0025	EPA 6010
20	A-O-08-L	0.51	0.0025	EPA 6010
21	A-O-09-L	0.18	0.0025	EPA 6010
SB051502	Method Blank	U	0.0025	EPA 6010

U = Undetected at reporting limits



TRACE

Analytical Laboratories, Inc.

2241 Black Creek Road • Muskegon, MI 49444-2673 • Phone 231-773-5998 • Fax 231-773-6537 • E-Mail: TraceAnalytical@mad.scientist.com

Mr. Curt McCoy
Black & Veatch
Special Projects
6601 College Blvd.
Overland Park, KS 66211

TRACE ID: BH223
REPORT DATE: 08/29/01
ANALYSIS DATE: 08/28/01
ANALYST: ms

CLIENT ID: Project # 46118.131
ACE Services

SAMPLE DATE: 08/20/01
SAMPLE RECEIVED: 08/23/01
SAMPLE TYPE: Paint Chips
SAMPLER: cm

TRACE SAMPLE NO.	SAMPLE ID	TOTAL LEAD	REPORTING LIMIT	METHOD NUMBER
07	A-G-10-L	* 0.91%	0.0025%	EPA 6010
08	A-G-11-L	1.4%	0.0025%	EPA 6010
09	A-G-12-L	0.41%	0.0025%	EPA 6010
10	A-G-13-L	0.34%	0.0025%	EPA 6010
11	A-G-14-L	0.74%	0.0025%	EPA 6010
12	A-G-15-L	0.75%	0.0025%	EPA 6010

* The RPD between the sample and sample duplicate was greater than 20%.
The result must be considered estimated.

U = Undetected at reporting limits

Laboratory Control Spike Recovery and RPD Summary Report

Trace LCS ID: SS/SSD082402
 QC Batch ID: MIC082402S
 Digestion Date: 08/24/01

QC Limits

Analyte	Method Blank Result mg/kg	Spk. Added mg/kg	LCS Results mg/kg	LCSD Results mg/kg	LCS %Rec	LCSD %Rec	RPD	RPD	%Rec	Method
Lead	U	40	39.5	41.3	99	103	4	20	80 - 120	6010

Sample/Sample Duplicate Report			
Analyte	Sample Result*	Duplicate Result	RPD
	%	%	
Lead	0.91	0.67	30*

*Sample ID: BH223-07

Lead *The RPD between the sample and sample duplicate was greater than 20%. The sample result should be considered estimated.

2241 Black Creek Road • Muskegon, MI 49444-2073 • Phone 231-773-5994 • Fax 231-773-6337 • E-Mail: TraceAnalytical@mad.scientific.com
 Analytical Laboratories, Inc.

TRACE

BE 059

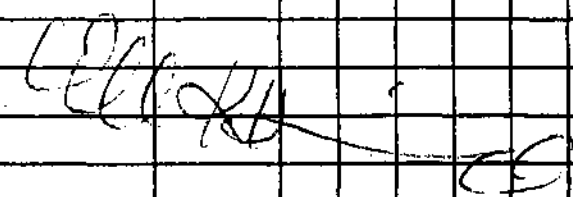
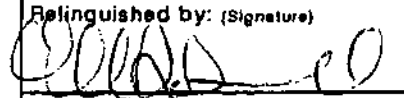
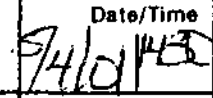
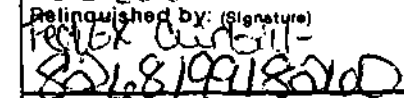
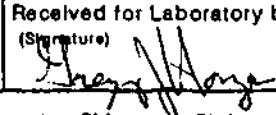
95 ✓
1010

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	REMARKS					
4/01/18.128		Ace Services					<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> FINISHED SW-110-1010 </div>					
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							
01	5/10/18	07:00		X	A-001-A	1	X					Place send results to
02					A-N-02-A							
03					A-N-03-A							Ellen Kimmel
04					A-N-04-A							1010 College Blvd
05					A-N-05-A							Overland Park, KS
06					A-N-06-A							1010
07					A-U-07-A							(913) 458-1077
08					A-D-08-A							(913) 458-9392 - fax
09					A-D-09-A							
10					A-D-10-A							
11					A-D-11-A							
12					A-D-12-A							
13					A-N-01-L		X					Paint Chips
14					A-N-02-L							
15					A-N-03-L							
Relinquished by: (Signature)		Date/Time		Received by: (Signature)			Relinquished by: (Signature)		Date/Time		Received by: (Signature)	
[Signature]		5/10/18		[Signature]								
Relinquished by: (Signature)		Date/Time		Received by: (Signature)			Relinquished by: (Signature)		Date/Time		Received by: (Signature)	
[Signature]												
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks			
FedEx		05/07/18 10:00		[Signature]			05/07/18 10:00 AM		Normal Turn			

CHAIN OF CUSTODY RECORD

954 BE059
2012

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	REMARKS				
SAMPLERS: (Signature)											
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						
16	7/26			X	A-N-D4-L	X					Asbestos @ 50 Lead @ 12
17					A-N-D5-L						
18					A-D-D6-L						
19					A-D-D7-L						
20					A-D-D8-L						
21	X				A-D-D9-L						
											
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Date/Time		Received by: (Signature)	
			7/4/12								
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Date/Time		Received by: (Signature)	
											
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks	
FedEx			05/07/12 10:00					05/10/12 10:00 A.M.			

6601 College Blvd.
Overland Park, KS 66211
Attn: Curt McCoy

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	ANALYSIS TYPE				REMARKS
40118.131		ACE SERVICES					PLM-Asbestos	% Lead by weight			
SAMPLERS: (Signature)											
Curt McCoy											
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						
-	8/20/01	-		X	A-G-13-A	1	X				3 day turn around
-	8/20/01	-		X	A-G-14-A	1	X				▲ ▲ ▲
-	8/20/01	-		X	A-G-15-A	1	X				
-	8/20/01	-		X	A-G-16-A	1	X				
-	8/20/01	-		X	A-G-17-A	1	X				
-	8/20/01	-		X	A-G-18-A	1	X				
-	8/20/01	-		X	A-G-10-L	1		X			
-	8/20/01	-		X	A-G-11-L	1		X			
-	8/20/01	-		X	A-G-12-L	1		X			
-	8/20/01	-		X	A-G-13-L	1		X			
-	8/20/01	-		X	A-G-14-L	1		X			
-	8/20/01	-		X	A-G-15-L	1		X			3 day turn around
Curt McCoy											
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Date/Time		Received by: (Signature)	
Curt McCoy			8/22/00 10:00		Fed Ex Curt McCoy						
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Date/Time		Received by: (Signature)	
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks	
										Phone: (713) 456-6520 FAX: (713) 458-6633	

APPENDIX C

Asbestos and Lead Certifications

THIS CERTIFIES THAT

Curt McCoy

SS # 488-80-1563

has successfully completed the course and examination for
ASBESTOS INSPECTOR REFRESHER TRAINING
as specified by the E.P.A.
AHERA Regulations – NESHAP and TSCA Title II and
the State of Missouri MO-00-07-020

OCCU-TEC, Inc.

6700 Corporate Drive, Suite 130
Kansas City, Missouri 64120
(816) 231-5580

December 7, 2000

Course Date

Dana Buchanan

Program Coordinator

7OT-00619R

Certificate Number

December 7, 2001

Expiration Date



NATIONAL ASBESTOS TRAINING CENTER

The University of Kansas

CURTIS R. MCCOY

has completed a course and passed an examination in

Inspection for Asbestos Control-(AHERA)

Date: SEPTEMBER 11 - 13, 1989

Exam Date: SEPTEMBER 13, 1989

Number: VIIKU05100-03

Expires: NOVEMBER 1, 1990

Social Security#: 488-80-1563



THE UNIVERSITY OF KANSAS

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

Mid-States Regional Lead Training Center

Curtis R. McCoy

has completed a course and passed an examination with a score of at least 70 % in

LEAD INSPECTOR TRAINING

Course Date: April 27-29, 1993

Social Security#: 488-80-1563

Number: KUVII33390—23

Exam Date: April 15, 1993



Karen S. Wilson



M·E·T·A

Mayhew Environmental Training Associates

I N C O R P O R A T E D

Certificate # 7ME04047302IR009

This is to certify that

Ellen K. Kimmel

has on 04/04/01, in LAWRENCE, KS

completed the requirements for asbestos accreditation under Section 206 of TSCA, Title II, 15 U.S.C. 2646

AHERA Asbestos Inspector Refresher Training

as approved by the U.S.E.P.A. under 40 C.F.R. 763 (AHERA)

on 04/04/01 - 04/04/01 and passed the associated examination on 04/04/01

with a score of 70% or better

CM = 0.5 PTS.



Robert J. Bae

Instructor

R. Bruce M. J.

President

Soc. Sec #: 509-76-4615
Accreditation Expires: 04/04/02

META - P.O. Box 786 - Lawrence KS 66044 - 800-444-6382

NATIONAL ASBESTOS TRAINING CENTER

The University of Kansas

Ellen Kimmel

has completed a course and passed an examination in

Inspection for Asbestos Control—(AHERA)

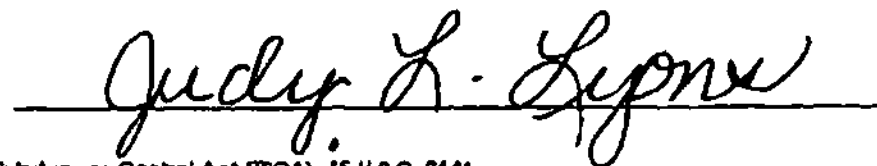
Date: March 22-24, 1993

Social Security#: 509-76-4615

Number: VIKU37210-12

Expires: March 24, 1994

Exam Date: March 24, 1993



THE UNIVERSITY OF KANSAS

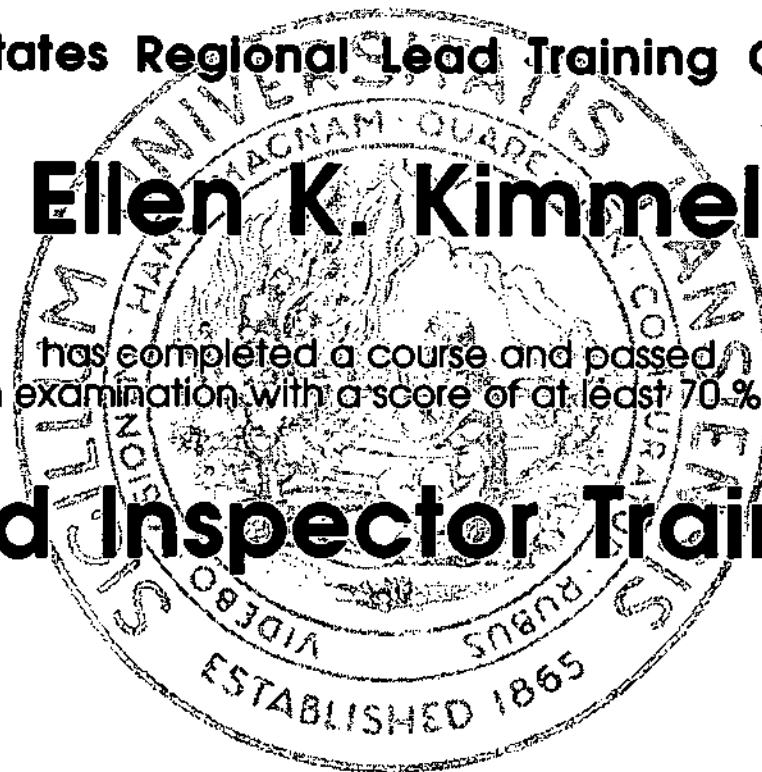
CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

Mid-States Regional Lead Training Center

Ellen K. Kimmel

has completed a course and passed
an examination with a score of at least 70% in

Lead Inspector Training



Course Date: March 15-17, 1995

Social Security#: 509-76-4615

Number: KUVII53530-12

Exam Date: March 17, 1995

Karen R. Wilson

The University of Kansas • Center for Environmental Education & Training • Mid-States Regional Lead Training Center
12600 Sulvira Road • Overland Park, Kansas 66213-2402 • Phone: (913) 897-8530 Fax: (913) 897-8540

BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLING RATIONALE

Date 2-4-02
Inspector C. McCoy

Project Acc Services

Proj. No. 46128.143

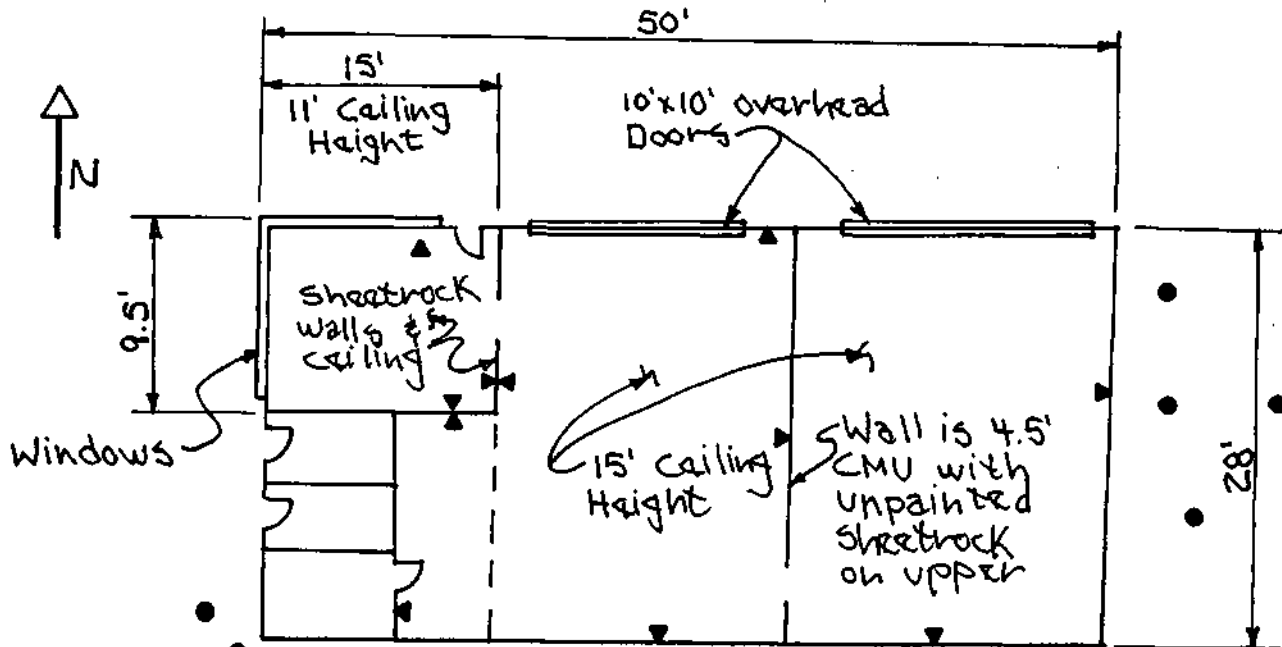
Location Colby, Kansas

Building Description Abandoned Gas Station

Building Name & Number _____

Total Area (ft²) Floor Area = 1,400 ft²

**MATERIALS OR BUILDING COMPONENTS PRESENT
AND RELATIVE PROPORTIONS**



LEGEND

- Composite soil sampling locations
- ▲ Composite building component sampling locations

**BLACK & VEATCH SPECIAL PROJECTS CORP.
LEAD PAINT SAMPLING RATIONALE**

Date 2-4-02
Inspector C. McCoy

Project Ace Services

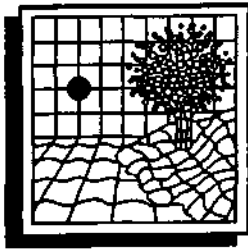
Proj. No. 46128.143

Location Colby, Kansas

SAMPLING PLAN

Total No. of Subsamples 11

Building Material/Component	Location of Subsamples	No. of Subsamples
Note: Wood roof deck and bare concrete floor slab excluded because they are not painted.		
CMU Walls (1885 ft ²)	Throughout structure	9
Drywall construction (266 ft ²)	Entry Area	2



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

February 7, 2002

Curt McCoy
BLACK & VEATCH SPECIAL PROJECTS
6601 College Blvd.
Overland Park, KS 66211

PROJECT: ACE SERVICES
SDG: 48690
SWLO ID: 48690.01 ~ 48690.02

Dear Mr. McCoy:

Enclosed please find the Level III forms package and B & V electronic deliverable for your samples received February 5, 2002 for the above-referenced project.

These results were faxed to you on February 7, 2002.

Thank you for choosing Southwest Labs. If you should have any questions or require additional information, please do not hesitate to call.

Sincerely,


Randy Staggs
Project Officer

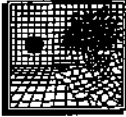
RS/jt

Enclosures

"We certify that the following report meets all required NELAC reporting standards as specified in NELAC 5.13, July 1, 1999. Any deviation or variance is noted in the case narrative(s). Estimated uncertainties regarding these analyses are presented in the Quality Control Section of this report."

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	REMARKS							
46128		ACC SERVICES												
SAMPLERS: (Signature) C.R. McCoy														
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION									
-	1/24/02	-	X		Building TCLP	1	X							
-	1/24/02	-	X		Background Soil TCLP	1	X							
C.R. McCoy														
Relinquished by: (Signature) C.R. McCoy			Date/Time 2/4/02 10:30		Received by: (Signature) Federal Express			Relinquished by: (Signature)			Date/Time		Received by: (Signature)	
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)			Date/Time		Received by: (Signature)	
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time 2-5-02 8:30		Remarks - Need sample results in 3-5 days. 17.5°C				



COOLER RECEIPT / SAMPLE LOG-IN SHEET

COOLER RECEIPT / SAMPLE LOG-IN SHEET (115-ATT2.WB1) / SWL-GA-115 REV 5.0 / GA-115-CRLOGIN-F

LAB NAME: SOUTHWEST LABORATORY OF OKLAHOMA

PAGE 1 OF 1

RECEIVED BY (PRINT NAME): JASON SPRIGGS

REC'D DATE 02/05/02

RECEIVED BY (SIGNATURE): *[Signature]*

TIME REC'D 08:30

LOGGED IN BY (SIGNATURE): *[Signature]*

LOG-IN DATE 2002-02-05 09:41

PROJECT: ACE SERVICES	Client Sample #	Sample Fraction @	Assigned LAB#	Cooler I.D.	pH Check	ACID/ BASE LOT#	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
EPISODE: 48690							
SAMPLE DELIVERY GROUP: 48690							
Remarks	BUILDING TCLP	M	48690.01	02/05/02-1	N		17.5c
1. CUSTODY SEAL(S): Present/Absent Intact/ Broken	BACKGROUND SOIL	↓	48690.02	02/05/02-1	N		17.5c
2. CUSTODY SEALS NOS.: N/A							
3. CHAIN-OF CUSTODY. Present/Absent Sealed In Plastic? Yes/ No Taped To Lid? Yes/ No Property Filled Out (Ink, Signed, ETC.)? Yes/ No							
4. AIRBILL AirBill/ Sticker Present/Absent							
5. AIRBILL NO: 428871564253							
6. COOLER CONDITIONS Enough Ice? Yes/ No Type of Ice? None Type of Packing? None							
7. SAMPLE TAGS Present/Absent							
8. SAMPLE CONDITION: Intact/ Broken*/ Bottles Sealed In Leaking Separate Plastic Bags? Yes/ No Correct Containers Used For Tests Indicated? Yes/ No Correct Preservative? Yes/ No Sufficient Sample? Yes/ No Labels Complete (I.D., Date, Time, Signature, Preservative)? Yes/ No VOA Samples Without Bubbles? Yes/No							
9. Does information on Custody Records, Labels, Tags Agree? Yes/No*							
10. RAD SCREEN WITH GIEGER COUNTER? Yes/ No							
11. P.O. Called? Yes/ No							

* Contact PO and attach record of resolution

@ Sample Fractions: B=SV GC/MS, V= VOA GC/MS or GC, P=Pesticide, H=Herbicide, D=Dioxin, A=Air, I=Inorganics, C=Cyanide, M=Metals, R=Radiochemistry

- Note samples with bubbles under remarks section.

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany / Broken Arrow, OK 74012 / Office (918) 251-2858 / Fax (918) 251-2599

CASE NARRATIVE

CONTRACT: B&VSP-KC

DATE: February 7, 2002

Case No.: 48690

PROJECT NAME: ACE SERVICES

SDG #: 48690

EPISODE #: 48690

INORGANIC METAL FRACTION:

Two soil samples plus were submitted for TCLP extraction followed by ICP analysis. No major problems occurred during the digestion or analysis of these samples. Please see the *Cooler Receipt/Sample Log-In Sheet* for sample conditions and cooler temperatures at receipt. The sample's analyses were completed according to the following:

SWL SOP #

SWL-IN-205

SWL-IN-700

Method SOP is based

SW 846 3010A and 6010B ICP Digestion & Analysis

SW 1311 TCLP Non-Volatile Extraction

The cover page of the Inorganic Analyses Data Package cross-references client and laboratory sample ID's. Manual integration was not used for the data presented in this Inorganic Analyses Data Package.

Initial and Continuing Calibration Checks: No problems.

Initial and Continuing Calibration Blanks: All elements had values less than the lower reporting limit.

Linearity near the CRDL (CRA & CRI): All elements were within control limits.

Preparation Blank: All elements had values less than lower reporting.

Lab Control Spikes: All laboratory control samples were within QC limits.

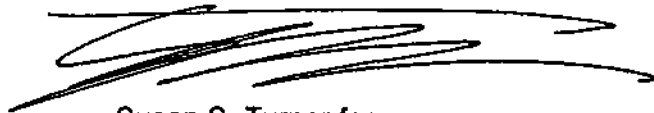
Matrix Spikes: There were no matrix spikes submitted with this episode. Analytical batch 020206TI1 contained an MS/MSD from SWLO episode 47825.

Duplicates: All duplicate results were within the precision control limits of 20%.

Serial Dilution: A serial dilution was analyzed from SWLO episode 47825.

"I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and its electronic data deliverable submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Sincerely,



Susan S. Turner for ...
Steve L. Markham
Inorganic Program Manager

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
Lab Code: SWOK Case No.: 48690 SAS No.: SDG No.: 48690
SOW No.: SW846

Table with 2 columns: EPA Sample No. and Lab Sample ID. Rows include BKGND_SOIL (48690.02) and BUILD_TCLP (48690.01).

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes - were raw data generated before application of background corrections? Yes/No NO

Comments:
ICP = BATCH ID 020206TI1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [Signature] Name: Steve L. Markham
Date: 02/07/02 Title: Inorganics Program Manager

1
 INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

BKGND SOIL

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 48690 SAS No.:
 Matrix (soil/water): WATER
 Level (low/med): LOW
 Solids: 0.0

SDG No.: 48690
 Lab Sample ID: 48690.02
 Date Received: 02/05/02

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1.7	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 BACKGROUND SOIL
 TCLP EXTRACT

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

BUILD TCLP

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 48690 SAS No.: SDG No.: 48690
 Matrix (soil/water): WATER Lab Sample ID: 48690.01
 Level (low/med): LOW Date Received: 02/05/02
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1.7	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 BUILDING TCLP _____
 TCLP_EXTRACT _____

2A
 INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: SOUTHWEST LABORATORIES____ Contract: B&VSP-KC____

Lab Code: SWOK____ Case No.: 48690 SAS No.: _____ SDG No.: 48690__

Initial Calibration Source: EPA-LV_____

Continuing Calibration Source: IN.VEN._____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Lead	250.0	250.72	100.3	500.0	508.12	101.6	513.75	102.7	P

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: SOUTHWEST LABORATORIES_____ Contract: B&VSP-KC____
Lab Code: SWOK_____ Case No.: 48690 SAS No.: _____ SDG No.: 48690____
Initial Calibration Source: EPA-LV_____
Continuing Calibration Source: IN.VEN._____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Lead				500.0	502.56	100.5			P

FORM II (PART 1) - IN

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
Lab Code: SWOK _____ Case No.: 48690 SAS No.: _____ SDG No.: 48690 _____
AA CRDL Standard Source: PLASMACHEM _____
ICP CRDL Standard Source: IN.VEN. _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Lead _____				10.0	10.07	100.7		

3
BLANKS

Lab Name: SOUTHWEST LABORATORIES_____ Contract: B&VSP-KC_____

Lab Code: SWOK_____ Case No.: 48690 SAS No.: _____ SDG No.: 48690_____

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Lead	1.7	U	1.7	U	1.7	U	1.7	U	1.70	U	P

3
BLANKS

Lab Name: SOUTHWEST LABORATORIES _____

Contract: B&VSP-KC _____

Lab Code: SWOK _____

Case No.: 48690

SAS No.: _____

SDG No.: 48690

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Lead								1.70	U	P	

11A
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
 Lab Code: SWOK _____ Case No.: 48690 SAS No.: _____ SDG No.: 48690 _____
 ICP ID Number: TJA ET2 _____ Date: 12/21/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	BA_
Lead _____	220.35 _____	0.0003030 _____	0.0000000 _____	0.0001210 _____	0.0000000 _____	0.0000000 _____

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
 Lab Code: SWOK _____ Case No.: 48690 SAS No.: _____ SDG No.: 48690 _____
 CP ID Number: TJA ET2 _____ Date: 12/21/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CO_	CR_	CU_	MN_	NI_
Lead	220.35	-0.0009050	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES ___ Contract: B&VSP-KC ___

Lab Code: SWOK ___ Case No.: 48690 SAS No.: ___ SDG No.: 48690 ___

ICP ID Number: TJA ET2 ___ Date: 12/21/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		SC_	SN_	TI_	V_	___
Lead	220.35	0.0000000	0.0000000	-0.0007290	-0.0002830	

Comments:

12
ICP Linear Ranges (Quarterly)

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
Lab Code: SWOK _____ Case No.: 48690 SAS No.: _____ SDG No.: 48690 _____
ICP ID Number: TJA ET2 _____ Date: 12/17/01

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Lead	15.00	60000.0	P

Comments:

13
PREPARATION LOG

Lab Name: SOUTHWEST LABORATORIES__

Contract: B&VSP-KC__

Lab Code: SWOK__ Case No.: 48690__

SAS No.: _____ SDG No.: 48690__

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
BKGND SOIL	02/06/02		50
BUILD TCLP	02/06/02		50
LCSW	02/06/02		50
LCSWD	02/06/02		50
PBW	02/06/02		50
PBWT	02/06/02		50

FORM XIII - IN

ILM02.1

14
ANALYSIS RUN LOG

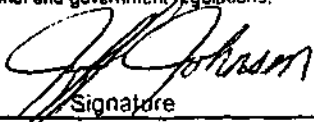

Lab Name: SOUTHWEST LABORATORIES___
 Lab Code: SWOK___ Case No.: 48690___
 Instrument ID Number: TJA ET2___
 Start Date: 02/06/02

Contract: B&VSP-KC___
 SAS No.: _____ SDG No.: 48690___
 Method: P___
 End Date: 02/06/02

Client Sample No.	D/F	Time	% R	Analytes																							
				P	B																						
SO	1	1639		X																							
S	1	1644		X																							
S	1	1649		X																							
ICV	1	1654		X																							
ICB	1	1659		X																							
CRI	1	1704		X																							
ICSA	1	1709		X																							
ICSAB	1	1714		X																							
CCV	1	1718		X																							
CCB	1	1723		X																							
PBW	1	1728		X																							
LCSW	1	1733		X																							
LCSWD	1	1738		X																							
BUILD TCLP	1	1743		X																							
BKGND SOIL	1	1748		X																							
ZZZZZZ	1	1752																									
ZZZZZZ	1	1757																									
ZZZZZZ	1	1802																									
ZZZZZZ	1	1807																									
ZZZZZZ	1	1825																									
CCV	1	1830		X																							
CCB	1	1835		X																							
ZZZZZZ	1	1840																									
PBWT	1	1845		X																							
ZZZZZZ	1	1858																									
CCV	1	1903		X																							
CCB	1	1908		X																							

THOMPSON ENVIRONMENTAL CONSULTANTS
 7 Village Plaza, Liberal, Kansas 67901
 (316)626-5204 FAX: (316)626-5235

WASTE SHIPMENT RECORD

Generator	Mike Wooller Wooller Construction Colby, KS 67701 <small>Work Site Name and Mailing Address</small>	Mike Wooller <small>Owner's Name</small>	(786) 462-8653 <small>Owner's Phone Number</small>
	Thompson Environmental Consultants 7 Village Plaza Liberal, KS 67901 <small>Operator's Name and Address</small>	(620) 626-5204 <small>Operator's Phone Number</small>	
	Thomas County Landfill 300 N Court Colby, KS 67701 <small>Waste Disposal Site (Name, Mailing Address, Physical Location, and Phone Number)</small>		
	<small>Name and Address of Responsible Agency:</small> Kansas Dept. Of Health and Environment Forbes Field, Topeka, KS 66620		
	<small>Description of Materials</small> Asbestos Containing Caulk Non-Friable Asbestos	<small>Containers</small> 6mil Poly Bag No: 1 Type: Bag	<small>Total Quantity</small> yd .5 cubic yds.
	<small>Special Handling Instructions and Additional Information</small> Waste Disposal Authorization: # 02-0151		
	<small>Operator's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects proper condition for transport highway according to applicable international and government regulations.</small>		
	Jeff Johnson <small>Printed/Typed Name & Title</small>	 <small>Signature</small>	2/22/02 <small>Mo. Day Yr.</small>
Transporter	<small>Transporter 1 (Acknowledgment of Receipt of Materials)</small>		
	Jeff Johnson Inspector/Supervisor <small>Printed/Typed Name & Title</small>	 <small>Signature</small>	2/22/02 <small>Mo. Day Yr.</small>
	<small>Transporter 2 (Acknowledgment of Receipt of Materials)</small>		
	<small>Printed/Typed Name & Title</small>	<small>Signature</small>	<small>Mo. Day Yr.</small>
Disposal	<small>Waste Disposal Site Owner or Operator</small>		
	Travis Willig <small>Printed/Typed Name & Title</small>	<small>Signature</small>	<small>Mo. Day Yr.</small>

APPENDIX C

**Demolition Subcontractor
Work Plan/Training Certificates/Medical Approval**

**Ace Services Demolition
Work Plan**

Prepared By:

Woofter Construction

February, 2002

Site Demolition

This section addresses specific activities to be completed at the site as part of the site demolition, including building demolition, floor slab and foundation removal, site preparation, and contaminated soil and concrete removal.

Scope of Work

This scope of work includes the demolition and disposal of the superstructure of the former gas station; the plating facility floor slabs and foundations; concrete debris and rubble removal; and contaminated soil removal from the former Ace Service Facilities site.

Pre-Demolition Activities

Arrangement of disconnecting electrical and gas service to the building shall be made with utilities personnel. Disconnection of the water and sewer service shall be coordinated with the appropriate City of Colby personnel.

Responsibility

Prior to work start, the competent person shall review safety issues, identify location of buried utilities, and insure all utilities have been disconnected. The meeting will serve as a tool box safety opportunity to orientate workers of potential safety concerns of the work to be accomplished.

Procedure for Demolition

Rubble will be processed and loaded by excavator onto end dump trucks. Truck drivers will exit the truck cab during loading operations. Truck drivers will inspect the load, before leaving the site, for proper load and balance. Laborers equipped with torch cutting tools, safety equipment and fire extinguishers mounted to the equipment cart, shall cut free the steel reinforcing as required to allow the concrete to separate into manageable sized pieces for loading. Laborers shall not climb the rubble pile to perform work.

Burning

Burning will not be permitted.

Disposition of Construction Debris

The building debris will be transported to the Thomas County Landfill. All construction debris, including bricks, concrete, wood, roofing glass, miscellaneous debris, and metals not suitable for recycling or salvage will be disposed at the Thomas County Landfill. The material will be prepared, sized, and handled to the degree required for transport and acceptance by the disposal facility. Landfill approval of all waste materials will be obtained prior to transport to the facility.

General Notes

Stockpiled materials will be segregated based on final disposition requirements.

Concrete will be separated from trash or other equipment.

Demolition Schedule: Demolition will start at 8:00 A.M. or shortly thereafter, on February 7, 2002 and completed on May 8, 2002.

Labor Force: One Competent Person/Director/Trackhoe Operator, and Two Truck Drivers

Equipment: 1 John Deer Excavator.

1 John Deer Wheel loader.

Torch Cutting equipment and other small tools.

Site Preparation

The initial portion of the site demolition involves preparing the removal area for construction activities. These preparation activities will be implemented before any consolidation, excavation, or material handling activities begin. Site preparation will consist of the following specific activities presented in approximate chronological order.

- ** Contacting city officials and nearby residents.
- ** Locate and mark existing utilities. Utilities that may be affected by excavation will be protected or diverted and replaced.
- ** Provide site security and dust control as required to secure work area.
- ** Establish site run-on/run-off control.
- ** Delineate the exclusion zones, contamination reduction zones, and support zones, as required.
- ** Mobilize and inspect equipment to be used on site.

These preparatory actions are discussed in the subsections that follow.

Existing Utilities

Existing utilities that may be affected during excavation or other removal action activities will be field-located and flagged before work begins. Drawing DC-1 of the contract documents shows preliminary utility information obtained by Black and Veatch. This information will be verified before the demolition begins. In addition, provisions will be made with the City of Colby to remove and replace the overhead electrical lines located on north portion of the site.

Field Office

Due to the anticipated short duration of the demolition a field office will not be established at the site. Site safety and progress meeting will be held at Woofter Construction Office located at 1110 Plains Avenue Colby, KS. Copies of all remedial design planning documents, construction specifications, and safety and health documents will be maintained at the Woofter Office Building. Sample management will also be performed at the main office.

Air Emissions Monitoring

Due to the nature of the contaminate, a general air monitoring program will not be established. Before beginning removal of concrete and contaminated soil the concrete and soil will be wetted as necessary to prevent the generation of dust.

Work Zones

Exclusion zones, contamination deduction zones, and support zones will be field-located at the site. The exclusion zones will include the areas where excavation and materials handling equipment will operate. The exclusion zones within the removal area will be defined at the time removal begins at a specific excavation location. The contamination reduction zone will include the truck loading areas and the portions of the site that loaded trucks must traverse before they are decontaminated. The contamination reduction zone will also include the equipment and debris decontamination area and the personnel decontamination area.

Initial Inspection of Equipment

All equipment and materials will be visually inspected the first time they are brought on site or when they are returned to the site after having been used on a different job site. Before being permitted on site, any equipment or materials that do not appear to be clean will be cleaned or replaced.

Additional Sampling

Additional sampling by Black and Veatch personnel, in areas below and adjacent to the removed concrete floor slab, will be conducted using XRF technology before the soil removal begins to provide information needed to material characterization and to delineate the extent of surface soil removal.

Removal Action

During the course of removal action, contaminated soil will be removed and transported off site for disposal at an appropriate treatment facility.

Contaminated Source and Soil Removal

After the site preparation activities have been completed, the removal of contaminated soil in and around the area and of the former machine shop will begin. Removal of these materials will be implemented in accordance with the cleanup criteria. The need for reduced or additional Excavation will be accessed on the basis of XRF sampling conducted by Black and Veatch personnel and conformation soil sampling results. The anticipated area of soil removal is shown on Drawing DC-1 of the contract documents.

Contaminated material will be consolidated and tested, as necessary. Uncontaminated overburden may be stockpiled and used as backfill. The open area of excavation will be kept as small as possible to minimize water management.

As required, contaminated material may be stockpiled temporarily (after any in-place testing) on site within the delineated contamination zone. The actual location of any stockpiles will be field-determined as excavation. Stockpiles will be covered to minimize runoff.

Loading and Offsite Transportation

The section discusses the loading and offsite transportation of contaminated material and construction debris. Material transportation will comply with the Department of Transportation regulations, including the requirements for shipping papers, marking, labeling, placarding, and qualifications of the transporters.

Contaminated materials will be transported offsite in covered trucks. A backhoe, loader, or track excavator will be used to load the material. Care will be taken to prevent contamination of the exterior of the truck or the ground surface underlying the loading area.

Bills of lading or waste manifests will be provided to the transporter with each material load transported from the site. Land disposal restriction (LDR) forms and hazardous waste manifests will be completed for any RCRA hazardous wastes shipped off site. The LDR forms will be signed by the material receiving facility and a signed copy will be returned for the project file.

Equipment Decontamination

Before equipment leaves the site, it will be decontaminated on the temporary decontamination pad. The following decontamination procedure will be used:

- **Manually remove as much material as possible using shovels, scrapers, and brushes.**
- **Wash with high-pressure sprayer using industrial detergent and portable water.**
- **Rinse with high-pressure stream of portable water.**

Decontamination fluids will be collected and pumped to a temporary storage tank. The water will be subsequently discharged to the POTW or transported off site for disposal.

Equipment requiring decontamination includes, at a minimum, the following items:

- **Excavation equipment**
- **Sampling equipment**
- **Trucks that come in contact with contaminated material.**

Certificate of Completion

This document attests that

Curt McCoy

has completed the course requirements for

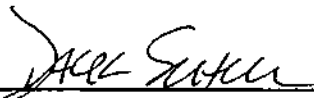
8-Hour Hazardous Waste Operations

Health and Safety Refresher

in accordance with 29 CFR 1910.120(e)

Jack T. Schill

Instructor


Director of Health and Safety
Jack Schill, CIH, CSP

March 13, 2001
Overland Park, KS
Employee No. 01278



Black & Veatch
Special Projects Corp.

0.8 Continuing Education Units



3850 Holcomb Bridge Road, Suite 300
Norcross, GA 30092
770-209-9088
770-209-9634 Fax

EXAMINEE MEDICAL CLEARANCE SUMMARY

ATTN: Curtis McCoy
Black & Veatch Special
Projects Corp.
1550 NE Hardage Circle,
Lee's Summit, MO 64086

Mar 12, 2001

RE: Employee : Curtis McCoy Exam No : 10055737
SSN : 488-80-1563 Exam Date : 3-2-2001

Curtis McCoy has completed a(n) PERIODIC examination for BVW 559 with the following results and clearances :

<u>STATUS</u>	<u>VALID THRU</u>	<u>CLEARANCE</u>
Cleared	Mar 02, 2002	To work with Lead in accordance with 29 CFR 1910.1025.
Cleared	Mar 02, 2002	To work with ASBESTOS in accordance with 29 CFR 1926.1101.
Cleared	Mar 02, 2002	To work with HAZARDOUS MATERIALS in accordance with 29 CFR 1910.120.
Cleared	Mar 02, 2002	To use RESPIRATORY PROTECTIVE EQUIPMENT in accordance with 29 CFR 1910.134.

Work-related limitations and additional recommendations :

BIOTOX MONITORING:

The data from the BioTox studies 6014 have been reviewed. There is no indication that an exposure resulting in a significant absorption has occurred.

Elayne F. Theriault, M.D.

Elayne F. Theriault, M.D.
Medical Director

CERTIFICATE OF ACHIEVEMENT

This certifies that

CARL MILLER

has successfully completed

An OSHA 40 Hour Hazardous Waste Site Worker Course

Date of Course(s): **January 15 - 18, 2002**
Certificate Number: **881-MC**
Social Security Number: **511-58-0241**
Expiration Date: **January 18, 2003**

Course Location: **Great Bend, Kansas**
Examination Date: **January 18, 2002**
Date of Certificate: **January 18, 2002**
Restrictions: **NONE**

Instructor:

Michael E. Crist
Michael E. Crist

Training for this program was developed and delivered by:

CMS, Inc.

208 Southwest Seventh Street, Stuart, Iowa 50250
(800) 511-4625/(515) 523-1354

COLBY MEDICAL & SURGICAL CENTER

175 SOUTH RANGE
COLBY, KANSAS 67701



Family Practice/OB

Victor H. Hildyard, II, M.D.

LaDonna M. Regier, M.D.

Pediatrics

Raymond B. Ketting, M.D.

General Surgeon

Mohammed E. Fercha, M.D.

March 20, 2002

RE: CARL MILLER

To Whom It May Concern:

Mr. Miller has undergone a physical exam in which he was found to be adequate health. In regards to his respiratory status his pulmonary function study showed normal lung function and consequently I feel that Mr. Miller would be able to perform and task requiring any respiratory assistance equipment that he might need to undertake with regards to current employment.

If you have any further questions regarding Mr. Miller and his ability to perform please feel free to contact me.

Sincerely,



Victor H. Hildyard II, M.D.

VHH/kei

CERTIFICATE OF ACHIEVEMENT

This certifies that

JIM VAP

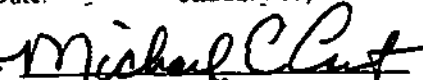
has successfully completed

An OSHA 40 Hour Hazardous Waste Site Worker Course

Date of Course(s): January 15 - 18, 2002
Certificate Number: 882-MC
Social Security Number: 515-72-2491
Expiration Date: January 18, 2003

Course Location: Great Bend, Kansas
Examination Date: January 18, 2002
Date of Certificate: January 18, 2002
Restrictions: NONE

Instructor:


Michael E. Crst

Training for this program was developed and delivered by:

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175 SOUTH RANGE
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Pediatrics

Raymond B. Ketting, M.D.

General Surgeon

Mohammed E. Fercha, M.D.

March 20, 2002

To Whom It May Concern:

Mr. Vap has undergone a complete physical exam and has been found to be in good condition with normal blood pressure, heart, HEENT and abdomen exam are unremarkable. With regards to his respiratory status he was found to have a completely normal pulmonary function test. Because of Jim's excellent conditioning and adequate respiratory status I feel that he would be able to perform adequately in a situation that required the use of respiratory equipment needed to fulfill his job.

If you have any further questions concerning the state of health of Mr. Vap please feel free to contact me.

Sincerely,



Victor H. Hildyard II, M.D.

VHH/kel

APPENDIX D

BVSPC Daily Site Reports

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-11-02

Weather: Clear, Strong Wind from east, 45° F in the afternoon.

Contractors on Site: 3 employees - Cahoj Earthmoving subcontracted to Woofter Construction.

Contractor Activities: Upon arriving at the site in the afternoon, I instruct Cahoj to start removing the south building slab starting at the SE corner. By evening approximately 1/3 of the south slab has been removed and stockpiled.

Traces of visible hex-chrome contamination were present on a few pieces of concrete rubble, but contamination was only on the upper surface of the slab. Bob Stewart (USEPA), Dave Munie (BVSPC) and I discuss the progress of the excavation at the site. Munie samples soil with an XRF unit at the SE corner in the area where the concrete rubble was found, and verified that no soil contamination was present.

Dave starts XRF sampling the north plating shop slab. The 15' grid outlined in the BV field sampling plan has been spray painted on the north slab in preparation for XRF waste categorization.

Construction Superintendent : _____

Curtis R. McCoy

Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-12-02

Weather: Clear, Strong Wind from southwest, 20° F in the morning with mid 50's in the afternoon.

Contractors on Site: 3 employees - Cahoj Earthmoving subcontracted to Woofter Construction.

Contractor Activities: The morning was started by turning over the NE corner of the north plating shop slab. Bob Stewart (USEPA), Dave Munie (BVSPC) and I discover visible contamination underneath the slab. Later in the day we also discover visible contamination in the previously remediated lagoon area to the east of the north slab area. XRF sampling of both of the visibly contaminated areas confirms excessive levels of lead and chrome. For details see the BV sampling field book for Ace Services (Book 1).

Cahoj Earthmoving finishes removal of the south slab today with no further visible contamination in the rubble. Later this evening I inspect the stockpile, south of the Colby Comfort Inn south of I-70 and find no visibly contaminated rubble.

Construction Superintendent : 

Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-13-02

Weather: Clear, Strong Wind from southeast, 20° F in the morning with mid 50's in the afternoon.

Contractors on Site: 3 employees - Cahoj Earthmoving subcontracted to Woofter Construction.

Contractor Activities: The center slab between the north plating shop slab and the south slab has been removed today with no visible contamination. The west end of the north plating shop slab was removed until XRF sampling quadrants 17 & 22 were encountered. Visible contamination stopped concrete removal in these areas and will be continued by HAZWOPPER trained personnel. Ken Wyatt (BVSPC) arrives at the site around the noon hour. Bob Stewart (USEPA) and Wyatt decide to continue hazardous excavation efforts in the east lagoon area. The existing berm to the east of the plant in the lagoon area shall be smoothed out to support the concrete wash settling pond dam to the south.

Wyatt, Mike Woofter and I discuss the project and site soil compaction requirements. The 95% compaction requirements are outlined clearly in the BVSPC demolition specifications. The new plant will require adequate compaction underneath the process skid areas and the building foundation areas.

The extraction well header piping which shall enter the plant at the south shall be shifted to the north. This will avoid further excavation of the concrete settling pond on the property to the south.

Construction Superintendent : _____



Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-14-02

Weather: Overcast, drizzle, Strong Wind from North, 32° F all day.

Contractors on Site: 3 employees - Cahoj Earthmoving subcontracted to Woofter Construction.

Woofter Construction – 1 HAZWOPPER trained excavator (Carl Miller)

Contractor Activities: Cahoj is smoothing the south slab area and hauling clean rubble. The remaining footing concrete which was present at the eastern edge of the south slab has been removed. All of the former south slab area has been compacted.

Concrete from XRF verified contaminated quadrants 1-4, 7-9, & 21 concrete has been removed and stockpiled by the end of the day. Rubble shall be stockpiled on the compacted former south slab area. Soil underneath this rubble area shall be removed to a depth of 6" after the concrete has been hauled away.

Construction Superintendent : _____



Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-15-02

Weather: Overcast, light wind from North, 25° F morning.

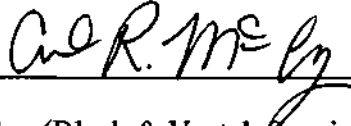
Contractors on Site: 3 employees - Cahoj Earthmoving subcontracted to Woofter Construction.

Woofter Construction – 1 HAZWOPPER trained excavator (Carl Miller)

Contractor Activities: Cahoj is removing south slab rubble today.

Carl Miller (Woofter Construction) continues with removal of the north contaminated slab areas. He is utilizing a track hoe and front end loader to place rubble in the stockpile area to the south.

Construction Superintendent : _____



Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-20-02

Weather: Clear, Steady wind from the southwest. Morning temperature starts around 30° F morning, and ending the day with a beautiful 70.

Contractors on Site: Woofter Construction – 2 HAZWOPPER trained excavators (Carl Miller and James Vap)

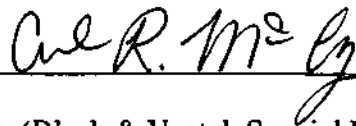
Contractor Activities: The contaminated soil site has been fenced off with metal posts and hog panels. This allows for adequate site control and establishment of the exclusion zone and contamination reduction zones. The contaminated concrete rubble has been surrounded by orange warning fencing.

We will be establishing soil sampling grids to categorize the soil which will leave the site. The disposal facility at Deer Field, Colorado has lost their USEPA certification because of bankruptcy proceedings. We will sampling each 10 foot quadrant in five locations to a depth of 6 feet below the surface. A composite sample shall be collected from each location from a depth of 0-6", 3', and 6'. 42 sampling quadrants are measured off and demarcated using paint.

Mike Woofter and I discuss the north power pole relocation for the new plant. Two individuals from the City of Colby, Mike and I discuss the situation and tentatively arrive at a location 20' north of the NW corner of the new plant structure. Later in the day, one of the City of Colby employees (to be named later) who I had met this morning arrives at the site. He informs me that he may try to supply the church to the east of the site, by crossing over from a service line north of 4th street. This would avoid any concerns with power lines crossing the new site location.

By the end of the day soil sampling quadrants 1 thru 6 have been sampled, packaged and shipped to Southwest Labs of Oklahoma. Samples S-Q1-032002-P thru S-Q6-032002-P were shipped. Samples for quadrant 4 included a duplicate and a MS/MSD for quality control purposes. For sample shipment data see the BVSPC chain of custody for this date.

Construction Superintendent :



Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-21-02

Weather: Clear, Strong wind from the north. Morning temperature starts around 14° F morning, and ending the day with 22° F.

Contractors on Site: Woofter Construction – 2 HAZWOPPER trained excavators (Carl Miller and James Vap)

Contractor Activities: The drilling activities started earlier in the week will be discontinued. I explain to Ken Wyatt (BVSPC) that this data is bogus because we are compositing soil from 6", 3' and 6' together. We can reasonably anticipate that the surface soil is contaminated. When we mix this top layer with soil from below we are contaminating the entire sample. This is not truly indicative of the contamination depth. The cost of the excavation is trying to be minimized, and we will not achieve any benefit by continuing to drill 210 holes in the contaminated area.

Mike Woofter has traveled to the Deer Trail facility this morning to obtain blank waste manifests. He returns after we start loading the trucks.

Five trucks arrive from the Deer Trail facility at 10:30. We have them go over to the Co-op scales and weigh before the trucks are loaded. The trucks are weighed after filling to obtain a weight for each load. The weights of the loads are as follows:

39,720 lbs

38,320 lbs

36,960 lbs

37,160 lbs

38,820 lbs

Total: 190,980 lbs == 95.49 tons

Waste manifests and associated weight tickets have been collected from each driver and are in the project file. Manifests are numbers 03-21-02-01 thru 03-21-02-05.

Construction Superintendent : _____

Carl R. McCoy

Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-22-02

Weather: Clear, wind from the south. Morning temperature starts around 25° F morning, and ending the day with 50° F.

Contractors on Site: None

Contractor Activities: Last night when the trucks arrived at the landfill, the first three trucks unloaded in a non-hazardous area before someone bothered to read the waste manifests. The two remaining trucks were routed to the appropriate area of the landfill. The landfill contacted Mike Woofter and informed him that he had incorrectly categorized the material on the originally submitted waste profile sheet as non-hazardous material. This should make no difference because the loads should have been routed according to the accompanying waste manifests. No trucks will be sent today and a new waste profile must be submitted prior to any additional trucks arriving at the site.

I assist Mike Woofter in completing a new waste profile for the concrete rubble. A separate profile is completed for the contaminated soil which will be hauled later. Copies of the waste profiles are in the project file.

Ken Wyatt (BVSPC) contacts me today and informs me that we have obtained another \$400,000 from the EPA to continue with the hazardous soil excavation efforts at the site. Additional funds may be available from the State of Kansas if needed. Considering the cost of hauling and disposing of the waste, we can haul approximately 560 cubic yards (CY) of material before we run out of money. At 18 CY per truck this translates to 31 truck loads of hazardous material.

Construction Superintendent : _____



Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-25-02

Weather: Overcast, Morning temperature starts around 25° F morning, and ending the day with 40° F.

Contractors on Site: None

Contractor Activities: Yesterday, snow fell all afternoon after freezing rain had fallen in the morning. Today there is approximately 3" of snow on top of ½" of ice. We can't do any exploratory excavation in these weather conditions without tracking contamination throughout the site. Therefore no sampling activity will take place today.

The waste haulers from Deer Trail do not work on Mondays so no material will leave the site today. Five trucks will arrive tomorrow morning to continue with the concrete rubble removal.

Hopefully, the snow and ice will melt off today, and the moisture will absorb into the dry soil. Sampling with the XRF can continue once the surface is dry. Should there still be some excess moisture, the soil will have to be dried for a couple of hours before analysis. The plan at this point in time is to excavate the top two feet of soil from the entire contaminated region of the site to start with. XRF readings will then be obtained to verify contamination locations. This may be a slow process if each sample must be dried prior to analysis.

Construction Superintendent : _____



Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-26-02

Weather: Clear, Morning temperature starts around 30° F morning, and ending the day with 40° F. Winds from the SouthWest.

Contractors on Site: Woofter Construction – 2 HAZWOPPER trained excavators (Carl Miller and James Vap)

Contractor Activities: 75% of the snow has melted last night. This leaves a few puddles of standing water but the excavation area is clear.

Six trucks arrive from the Deer Trail facility this morning by 9:00. Trucks are loaded, manifested, and weighed by 10:30. Trucks weights are as follows:

32,540 lbs	Manifest No. 3-26-02-06
36,080 lbs	Manifest No. 3-26-02-07
37,600 lbs	Manifest No. 3-26-02-08
33,340 lbs	Manifest No. 3-26-02-09
38,700 lbs	Manifest No. 3-26-02-10
<u>39,920 lbs</u>	<u>Manifest No. 3-26-02-11</u>

Total = 218,180 lbs = 109.09 tons

The upper two feet of the soil at the site underneath the slab is removed and stockpiled just east of the concrete rubble pile. Large rocks and CMU debris are located along the north edge of the excavation area down to the 4 feet depth. This material was obviously used as fill material prior to the construction of the old plating shop slab. I stop the removal of the material because it is not contaminated.

Construction Superintendent : _____



Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-27-02

Weather: Clear, Morning temperature starts around 38° F morning, and ending the day with 70° F. Light wind from the SouthWest.

Contractors on Site: Woofter Construction – 2 HAZWOPPER trained excavators (Carl Miller and James Vap)

Contractor Activities: Five trucks arrive from the Deer Trail facility this morning by 9:00. Trucks are loaded, manifested, and weighed by 10:00. Trucks weights are as follows:

37,640 lbs	Manifest No. 3-26-02-12
33,240 lbs	Manifest No. 3-26-02-13
35,540 lbs	Manifest No. 3-26-02-14
30,420 lbs	Manifest No. 3-26-02-15
<u>34,580 lbs</u>	<u>Manifest No. 3-26-02-16</u>

Total = 171,420 lbs = 85.71 tons

One of the truck drivers informed me that he received a DOT violation concerning our waste manifest. The material is categorized as a UN3077 (United Nations) code and it should be a NA3077 (North American) code. All future waste manifests have been corrected.

Niton 700 Series XRF spectrum analyzer serial number: U776NR3329

Text readings as follows:

NIST 2709 Low = Cr<980, Pb<74.0
NIST 2711 Med = Cr<800, Pb=990
NIST 2710 High = Cr-ND (Non Detect), Pb = 5650±260

Soil stock pile readings taken as are as follows:

SW corner at bottom = Cr = 1850±560, Pb = 92.4±52
SW corner middle = Cr = 2810±600, Pb-ND
S side middle = Cr = 2000±610, Pb<72.0
E side middle = Cr = 2620±550, Pb<62.0

Sump pit location for the new treatment plant has been located and flagged. Center of sump at east edge XRF reading: Cr = ND, Pb < 62.0. Center of sump reading: Cr = ND, Pb < 75.0. Excavation along the east half of the sump is at 3' depth below initial grade. The west half of the sump pit location has been excavated down to 1' below initial grade.

Center of sidewall at sump center XRF reading: Cr < 840, Pb < 81.0.

West center of new sump location XRF reading at 1' depth: 497 ± 320, Pb < 46.0.

NW corner of sump area 1' below initial grade XRF reading: Cr < 680, Pb < 68.0
SW corner of sump area at 1' below initial grade XRF reading: Cr < 660, Pb =
72.2 ± 45.0

Visible contamination is present 10' south of sump pit area on the surface at 1' below the initial grade. XRF reading on the visible contamination as follows: Cr = 6220 ± 820, Pb < 69.0. Another 2' of soil is removed in this area before the end of the day. The contamination is still present in this area at the two foot depth. Further excavation will be conducted tomorrow.

Mike Woofler calls this afternoon and informs me that the landfill has contacted him. The cell at the landfill, in which the material is being deposited, is full and another cell will not be ready until next Tuesday, 4/02/02. Additional trucks will be sent on that day.

Construction Superintendent : C.R. McCoy

Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 03-28-02

Weather: Clear, Morning temperature starts around 32° F morning, and ending the day with 62° F. Light wind from the South.

Contractors on Site: Woofter Construction – 1 HAZWOPPER trained excavator
(James Vap)

Contractor Activities: A berm has been placed around the stockpiled materials to prevent runoff in the event of rain. No rain is currently in the forecast thru next Monday, 4/01/02.

A 15' x 15' grid has been established in the excavation area starting with the number one cell in the NE corner of the area underneath the plating shop slab. Four cells progress to the south from the NE corner, and five cells progress to the west for a total of 20 cells. Cell numbering is as follows:

←North

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

Three samples are collected using an 8" auger down to the 6' depth in the former plating treatment plant lagoon, 165' east of the plating shop slab. The samples were only collected at the 6' depth and submitted to Southwest Labs of Oklahoma, Inc. in Broken Arrow, OK. Samples numbers are as follows: S-LAGN-032802-P, S-LAGC-032802-P, and S-LAGS-032802-P. Sample identification relates to the location within the visible contamination area = S (Soil) – LAG (Lagoon) N (North) C (Center) S (South) – 032802 (Date) – P (Primary).

Construction Superintendent :

C. R. McCoy

Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-01-02

Weather: Clear, Morning temperature starts around 50° F morning, and ending the day with 70° F. Strong wind from the Northwest.

Contractors on Site: 0 contractors on site today

Contractor Activities: Trucks will not be arriving today. We will not excavate any additional material until the current stockpile has been removed. Concrete rubble from the slab demolition is still present. I will take surface readings from the excavation area in order to classify the amount of contamination that still exists after the slab and underlying soil removal done during the first excavation effort.

Niton 700 Series XRF spectrum analyzer serial number: U776NR3329

Text readings as follows:

NIST 2709 Low = Cr < 300, Pb < 36.0

NIST 2711 Med = Cr < ND (Non Detect), Pb = 65.5 ± 26.0

NIST 2710 High = Cr < 320, Pb = 219.0 ± 38.0

Highly visible contamination exists in Cells 6 & 7 of the 15' grid established last week with marking paint. Surfaces surrounding these cells have tracked contamination created during the excavation down to 2' below the surface done last week.

Following is a description of the excavation done initially in each cell, and the associated XRF readings taken at the center of these cells in accordance with the BVSPC Field Sampling Plan.

Cell 1 : Excavation done initially down into existing backfill rubble which consisted of large stones and CMU demolition rubble which was painted. The center of the cell is at a 3' depth and slopes up to a 1' depth at the SE corner of the cell. The SW corner is at the 2' depth. Visible contamination is present along the south edge of the cell due to tracking from cell 6 excavation activities.

XRF reading @ South central area of surface contamination: CR = 1130 ± 520,
Pb < 71.0

XRF reading @ North sidewall center @ 18" depth: Cr < 710, Pb < 72.0

XRF reading @ East sidewall center @ 12" depth: Cr < 690, Pb < 72.0

Cell 2 : Initial excavation at a 12" depth along the east edge down to 3' depth at the NW corner of the cell. The SW corner is at a 12". Visible surface contamination along the SW corner of the cell just east of cell 6. Slight surface tracking along the West edge from the South to the North edges of the cell.

XRF reading at the center of cell: Cr = 926.0 ± 520, Pb = 79.6 ± 48.0

XRF reading at visible surface contamination east of cell 6 @ SW corner of cell:
Cr = 11,200 ± 1100, Pb < 80.0
XRF reading at center of East sidewall at 12' depth: Cr < 800, Pb < 78.0

Cell 3 : Initial excavation 12" – 6" below the slab. Very small amount of tracked surface contamination is present from cell 6 excavation.
XRF reading at center of cell: Cr < 720, Pb < 75.0
XRF reading at visible tracking at SW corner of cell: Cr = 1230 ± 620, Pb < 85.0

Cell 4 : Initial excavation down to 12" depth. 40% of cell surface has visible tracking contamination from cell 6 excavation.
XRF reading at center of cell: Cr = 870.0 ± 570, Pb = ND
XRF reading at visible tracking at SW corner of cell: Cr = 5930 ± 860, Pb < 79.0

Cell 5 : Initial excavation down to 4' depth along the north edge of the cell in existing concrete and CMU rubble. The SE corner of excavation is at the 1' depth and the SE corner goes down to a 2' depth. De minimus tracking from cell 6 excavation.
XRF reading at center of cell: Cr < 800, Pb < 78.0

Cell 6 : Initial excavation down to 4' depth in 60 % of cell. Initial excavation to 12" depth at NW and SE corners of the cell. Visible contamination exists over the entire south 75% of the cell and at West, South, & East sidewalls of the excavation.
XRF reading from bottom of 4' excavation at center of cell: Cr = 3140 ± 860,
Pb < 92.0
XRF reading at center of West sidewall @ 2' depth: Cr = 2340 ± 690, Pb < 82.0
XRF reading at center of east edge of grid @ 2' depth: Cr = 7100 ± 1100,
Pb < 94.0.

Cell 7 : Initial excavation 12" over cell except at North center to NW corner. Initial excavation is down to 3' depth at North edge of the cell. Visible contamination is present bottom of 3' depth and at East, West, & South sidewalls.
XRF reading at cell center at 1' depth: Cr = 843.0 ± 500, Pb < 71.0
XRF reading at bottom of 3' depth at East edge: Cr = 2390 ± 690, Pb < 80.0

Cell 8 : Initial excavation down to 12" depth. Visible surface tracking of contamination from cell 7 excavation is present.
XRF reading at center of cell of visible tracking: Cr = 871.0 ± 520, Pb < 72.0
XRF reading at visible tracking just north of center: Cr = 3080 ± 790, Pb = ND

March 27, 2002 waste shipment weights are as follows:

37,640 lbs	Manifest No. 3-27-02-12
33,240 lbs	Manifest No. 3-27-02-13
35,540 lbs	Manifest No. 3-27-02-14
30,420 lbs	Manifest No. 3-27-02-15
<u>34,580 lbs</u>	<u>Manifest No. 3-27-02-16</u>

Total = 171,420 lbs = 85.71 tons

At this time we have shipped 16 – 20 yard trucks to the landfill with a total weight of 290.29 tons (Colby COOP scale) at 320 cubic yards. Approximate budget amount is for 464 yards. At 20 cubic yards per truck this leaves enough money for 7 more trucks. Ken Wyatt (BVSPC) project manager is contacted and made aware of the situation. Additional excavation will need to be conducted in Cells 6 & 7 in order to eliminate the source of contamination at the site.

Construction Superintendent : Curtis R. McCoy
Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-02-02

Weather: Clear, Strong North wind 15° F wind chill this morning, and ending the day with 30° F.

Contractors on Site: Woofter Construction – 2 HAZWOPPER trained excavators (Carl Miller and James Vap)

Contractor Activities: The first trucks from the landfill arrive at 08:30. Five additional trucks arrive and are loaded by 10:45. Two of these five were overloaded and had material removed from the rear of the loads. We are informed at 11:45 that the seventh truck ordered for this morning had the tarp blow off 10 miles from Colby and decided to return to the landfill for repair. Colby has a local awning repair service for grain trucks, the driver should have proceeded to Colby for repair.

Word is received from Ken Wyatt (BVSPC) that the USEPA has allocated additional funds for contamination extraction. The new budget allocation will allow for approximately at grand total of 820 cubic yards at \$457 per yard.

Weights of loads shipped today area as follows:

33,680 lbs	Manifest No. 4-02-02-17
38,860 lbs	Manifest No. 4-02-02-18
37,120 lbs	Manifest No. 4-02-02-19
38,340 lbs	Manifest No. 4-02-02-20
37,460 lbs	Manifest No. 4-02-02-21
<u>40,920 lbs</u>	<u>Manifest No. 4-02-02-22</u>

Total = 226,380 lbs = 113.19 tons

Total yardage removed from the site is 22 trucks at 20 cubic yards per vehicle for a total of 440 cubic yards. This leaves us with enough budget allocation for an additional 380 cubic yards of removal, or at 20 cubic yards per truck, 19 truck loads of material.

Construction Superintendent : _____

C.R. McCoy
Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition ~ Daily Report

Date: 04-03-02

Weather: Partly cloudy, very little wind 20° F.

Contractors on Site: Woofter Construction – 2 HAZWOPPER trained excavators (Carl Miller and James Vap)

Contractor Activities: Ten trucks are scheduled with the landfill to arrive this morning. Seven were requested for the morning, with another three to arrive later in the morning. This way we could continue with the excavation in cells 6 & 7. Carl Miller (Woofter Construction) informs me at the site later that the landfill will only be sending 6 trucks today.

Vive trucks arrive and are loaded, weighed, and manifested by 10:30. Carl Miller confirms with his office on the quantity of trucks to arrive today. The sixth truck broke down in Denver and will be under repair.

Weights of loads shipped today area as follows:

41,300 lbs	Manifest No. 4-03-02-23
38,120 lbs	Manifest No. 4-03-02-24
37,480 lbs	Manifest No. 4-03-02-25
38,860 lbs	Manifest No. 4-03-02-26
<u>37,200 lbs</u>	<u>Manifest No. 4-03-02-27</u>

Total = 226,380 lbs = 113.19 tons

Excavation activities continue in Cells 6 & 7 after the trucks were loaded this morning. The second excavation activity took us to a 5' depth in cell 6. The west sidewall has a slight visible yellow/green tint. By the end of the day a small cell of visible contamination is located at the SW corner of cell 6.

XRF reading at the bottom of the excavation in center of cell 6: Cr = 902.0 ± 490,
Pb < 70.0

XRF reading at center of South edge of cell 6 at 5' depth: Cr = 1650 ± 640,
Pb < 78.0

XRF reading at west sidewall at west edge of cell 6 at 3' depth: Cr < 720, Pb < 68

XRF reading at west sidewall at SW corner of cell at 4' depth: Cr < 810, Pb < 82

XRF reading at north sidewall at NE corner of cell 6 at 4' depth: Cr < 720, Pb = ND

XRF reading at east sidewall center of cell at 3' depth: Cr < 660, Pb < 67.0

XRF reading at south sidewall at 3' depth at center of cell 7: Cr = 808.0 ± 520,
Pb < 77.0

XRF readings are taken in the lagoon contamination area as follows. Samples are collected on the surface next to the boring locations for the TCLP samples collected last week.

XRF reading at north boring location: Cr = 1150 ± 640 , Pb = 348.0 ± 82.0

XRF reading at center boring location: Cr = 1680 ± 630 , Pb = 354.0 ± 70.0

XRF reading at south boring location: Cr = 2110 ± 1000 , Pb < 92.0

Following is a description of the initial excavation activities for the remaining cells 9 thru 20. XRF readings are also included in the descriptions.

Niton 700 Series XRF spectrum analyzer serial number: U776NR3329

Text readings as follows:

NIST 2709 Low = Cr < 300, Pb < 36.0

NIST 2711 Med = Cr < 300, Pb = 93.7 ± 30.0

NIST 2710 High = Cr < 240, Pb = 205.0 ± 30.0

Cell 9 : Initial excavation down to 4' depth at NE corner, 1' along the north, remaining at 1' depth to the NW corner, on down to 2' at the SW corner. The south edge of the excavation area is at a 2' depth.

XRF reading at center of cell: Cr < 620, Pb = 66.5 ± 41.0

XRF reading at center of east sidewall 2' below grade: Cr < 690, Pb = 25.0 ± 53.0

Cell 10 : Initial excavation down to 1' depth over entire cell. Slight surface contamination is visible in SE corner.

XRF reading at center of cell: Cr < 650, Pb < 61.0.

Cell 11 : Initial excavation down to the one foot depth. There is a very minimal amount of visible surface tracking from cell 7 excavation activities.

XRF reading at center of cell: Cr = 790.0 ± 480 , Pb < 71.0

Cell 12 : Original excavation down to one foot depth over entire cell. There is a slight amount of visible tracking of contamination on the surfaces.

XRF reading at the center of cell: Cr = 1060 ± 540 , Pb < 72.0

Cell 13 : Initial excavation down to 2' depth at the removed footing location along the north edge of the cell. The excavation is also down to the 2' depth at the SE corner. One foot of material has been removed along the West edge of the cell. No visible contamination is seen in this cell.

XRF reading at the center of cell: Cr < 720, Pb < 77.0

Cell 14 : Initial excavation down to the 2' depth along the east edge of the cell. The west edge is at the one foot depth. No visible tracking of contamination.

XRF reading at the center of cell: Cr = 1530 ± 610 , Pb < 81.0

Cell 15 : Initial excavation down to the one foot depth over the entire cell. Slight visible tracking of contamination in various spots within the cell are present.

XRF reading at the center of cell: Cr = 1100 ± 620 , Pb < 84.0

Cell 16 : Initial excavation down to 6" below slab. No visible tracking of contamination is present.

XRF reading at the center of cell: Cr = 905.0 ± 520, Pb < 80.0

Cell 17 : Initial excavation down to 6" below slab. No visible tracking of contamination is present.

XRF reading at the center of cell: Cr = 759 ± 490, Pb < 73.0

Cell 18 : Initial excavation down to 6" below slab. No visible tracking of contamination is present.

XRF reading at the center of cell: Cr < 960, Pb = ND.

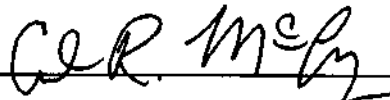
Cell 19 : Initial excavation down to 6" below slab. No visible tracking of contamination is present.

XRF reading at the center of cell: Cr = 838.0 ± 540, Pb < 85.0.

Cell 20 : Initial excavation down to 6" below slab. No visible tracking of contamination is present.

XRF reading at the center of cell: Cr < 500, Pb < 53.0.

Construction Superintendent :



Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-04-02

Weather: Clear, very little wind from the south 37° F morning with highs in the 50s.

Contractors on Site: Woofter Construction – 1 HAZWOPPER trained excavator (Carl Miller)

Contractor Activities: Five trucks arrive and are loaded, weighed, and manifested by 10:45. All of the concrete rubble is finally off the site. Trucks hauling tomorrow will only loaded with contaminated soil.

Weights of loads shipped today area as follows:

40,100 lbs	Manifest No. 4-04-02-28
36,340 lbs	Manifest No. 4-04-02-29
38,980 lbs	Manifest No. 4-04-02-30
35,860 lbs	Manifest No. 4-04-02-31
<u>40,8600 lbs</u>	<u>Manifest No. 4-04-02-32</u>

Total = 192,1400 lbs = 96.07 tons

Excavation in cell 6 moves into the eastern region of cell 10. A 4' section of horizontal piping encased in concrete is discovered at the 4' depth. This pipe is a 4" diameter PVC drain line of some sort. No connection piping is discovered within a 3' radius from the ends of the pipe. A 2' cube of concrete is present at the north end of the pipe and seems to be a footing for something within the plant, possibly a vertical support beam? The concrete surrounding the pipe is covered with very visible contamination. The surrounding soil underneath this pipe is heavily saturated with contamination. Excavation is down to a 6' depth in cell 6, the north half of cell 7, the NE corner of cell 11, and the SE corner of cell 10.

The afternoon hours are spent helping Mike Woofter prepare his request for payment for submittal to BVSPC. We will try to expedite payment due to the landfill's requirement for payment with each shipment of material.

Total amount of excavation at this point is 32 trucks at 20 cubic yards for a total of 640 cubic yards. Budgetary constraints of 820 yards leaves us this an allocation for 180 cubic yards or 9 trucks.

Construction Superintendent : Carl R. McCoy

Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-05-02

Weather: Clear, wind from the south, 31° F morning with wind chill of 22° F

Contractors on Site: Woofter Construction – 1 HAZWOPPER trained excavator (Carl Miller)

Contractor Activities: Five trucks arrive and are loaded, weighed, and manifested by 10:45.

Weights of loads shipped today area as follows:

39,000 lbs	Manifest No. 4-05-02-33
42,640 lbs	Manifest No. 4-05-02-34
40,000 lbs	Manifest No. 4-05-02-35
44,220 lbs	Manifest No. 4-05-02-36
46,220 lbs	Manifest No. 4-05-02-37

Total = 212,080 lbs = 106.04 tons

Niton 700 Series XRF spectrum analyzer serial number: U776NR3329

Text readings as follows:

NIST 2709 Low = Cr < 300, Pb < 35.0
NIST 2711 Med = Cr < 300, Pb = 67.5 ± 28.0
NIST 2710 High = Cr < 290, Pb = 209.0 ± 35.0

XRF readings are taken in the excavation area in cells 6, 7 10 & 11 as follows:

XRF reading at base of excavation in NE corner of cell 11 at 8' depth:
Cr = 1390 ± 590, Pb = 166.0 ± 60.0
XRF reading at west sidewall at visible contamination at 7' depth:
Cr = 6880 ± 920, Pb < 73.0
XRF reading at the south sidewall at 6' depth at NE corner of cell 11:
Cr = 3150 ± 630, Pb < 69.0
XRF reading at north sidewall at 8' depth at SE corner of cell 10:
Cr < 810, Pb < 76.0

A large zone of contamination is visible at the 6' – 8' depth at the NE corner of cell 11 and appears to run west under cell 11. This zone is underneath the cut pipe which was discovered yesterday at the 4' depth. No piping has been discovered today during excavation activities which would have been connected to the encased pipe removed.

Ken Wyatt (BVSPC) is contacted and made aware of the additional contamination discovered. We will not have enough budget allocation to be able to remove much more of the contamination source. Lowell Toole (Contracting Officer) and Bob Stewart (USEPA Region VII), along with Ken Wyatt will be at the site next Wednesday, 4/10/02. Discussions will be made at the site regarding how far we want to remove the source contamination before we quit.

Construction Superintendent : C.R. McCoy
Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-08-02

Weather: Drizzle, with rain in the forecast for today, 49° F. ½" of rain fell yesterday, but soaked into the soil only settling the dust.

Contractors on Site: 0 contractors on site today

Contractor Activities: No site activities today due to rain. We do not want to track contamination throughout the site and creating a hazard.

Ken Wyatt (BVSPC) informed me last Friday that we have been allocated an additional \$175,000 for excavation of contaminated soil. This translates to 368 cubic yards at \$475 per cubic yard. At 20 cubic yards per truck this gives us enough funding for another 18 trucks.

We will skim the top 4' from the contaminated region in cells 10 & 11, test, and use as backfill in other areas if it passes XRF scanning requirements. We will only excavate to a total of 10' depth. Conservation measures will be taken to only haul off contaminated soil which exceeds the 1500 ppm action level stated in the BVSPC Field Sampling Plan.

Mike Woofler is contacted and told to schedule the usual 5 trucks from the landfill for this Wednesday, 4/10/02. Tomorrow we will start the excavation in the contaminated cells under the old plating shop. We will excavate the top three feet in the lagoon area when finished.

Construction Superintendent : Curtis R. McCoy

Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition -- Daily Report

Date: 04-09-02

Weather: Clear, 39° F morning, slight wind from the south with afternoon high expected to be 70° F.

Contractors on Site: Woofter Construction – 1 HAZWOPPER trained excavator
(Carl Miller)

Contractor Activities: Niton 700 Series XRF spectrum analyzer serial number:
U776NR3329

Text readings as follows:

NIST 2709 Low = Cr < 300, Pb < 35.0

NIST 2711 Med = Cr < , Pb = 67.0 ± 29.0

NIST 2710 High = Cr < 300, Pb = 207.0 ± 36.0

Excavation continues down to the 10' depth at east edge of Cell 11. Visible yellow soil is present at the base of the excavation.

XRF reading at center of east edge Cell 11 @ 10' depth: Cr = 1320 ± 570,
Pb < 70.0

XRF reading at center of east sidewall @ 9' depth: Cr < 720, Pb < 67.0

XRF reading at center of west sidewall @ 9' depth: Cr < 680, Pb < 65.0

XRF reading at base of excavation A 11' depth: Cr < 720, Pb < 62.0

XRF reading at visible contamination layer on east sidewall @ 10' depth @ west
edge of Cell 7: Cr = 1370 ± 590, Pb < 72.0

Excavation continues down to the 12' depth in the center and another layer of contamination is seen at the east of the pit @ 10' depth at west edge of Cell 7. Visible contamination is also seen at the north sidewall from the 6'-12' depth. Further excavation will continue at the discretion of the USEPA Contracting Officer and Work Assignment Manager who will be at the site tomorrow.

Excavation efforts are now focused upon the lagoon area. Removed soils are brought up to the stockpile area for loading into trucks. Visible areas of contamination are discovered at the 2' depth and disappear at the 3' depth.

XRF reading @ center of lagoon excavation area at 3' depth: Cr = 3890 ± 710,
Pb = 494.0 ± 74.0

As excavation efforts continue to the east in the lagoon area a 1' layer of highly visible contamination is found 1' below the surface.

Construction Superintendent : _____

Curtis R. McCoy

Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-10-02

Weather: Clear, 50° F morning, strong wind from the south with afternoon high expected to be 70° F.

Contractors on Site: Woofter Construction – 1 HAZWOPPER trained excavator
(Carl Miller)

Contractor Activities: Five trucks of contaminated soil are removed from the site today.

Weights of loads shipped today area as follows:

37,260 lbs	Manifest No. 4-10-02-38
37,940 lbs	Manifest No. 4-10-02-39
42,100 lbs	Manifest No. 4-10-02-40
40,980 lbs	Manifest No. 4-10-02-41
41,040 lbs	Manifest No. 4-10-02-42

Total = 199,320 lbs = 99.66 tons

XRF reading of north sidewall A 6' depth @ SE corner of Cell 10: Cr=2920 ± 650, Pb<69

XRF reading at east sidewall at 12' depth: Cr = 7000 ± 940, Pb<80.0

XRF reading at west sidewall @ west edge of Cell 6 at 3' depth: Cr=1800±580, Pb=ND

Ken Wyatt (BVSPC), Bob Stewart (USEPA – WAM), and Lowell Toole (USEPA Contracting Officer) arrive at the site in the afternoon and inspect the site activities. The lagoon area is discussed and the decision is made to make borings down to 3' east of the lagoon area to see how far the contamination layer has spread. Cuttings were taken from the borings at the 3' depth.

XRF reading of auger cuttings from hole 10' east of lagoon: Cr=836.0±500,
Pb=528.0±73.0

XRF reading of auger cuttings from hole 22' east of lagoon: Cr=722.0±440,
Pb=228.0±53.0

XRF reading of auger cuttings from hole 34' east of lagoon: Cr=1030±480,
Pb=281.0±58.0

The new plant sump pit location has been excavated to see if the contamination has migrated northward. Excavation has been taken down to an 11' depth.

XRF reading @ north sidewall 10' below grade: Cr < 630, Pb < 61.0

XRF reading @ east sidewall 9' below grade: Cr < 680, Pb < 76.0

XRF reading @ center of south sidewall @ 8' depth: Cr < 620, Pb < 60.0

No contamination is present in the area of the new plant sump pit location according to the XRF readings above, and the presence of no visible contamination.

Rain stops excavation activities at the site in the late afternoon. Decisions have been made by the EPA entourage regarding excavation activities in the plant and lagoon areas. Excavation will continue in the Cell 6 pit to investigate the extent of the contamination layer. No excavation will continue in the lagoon area.

Construction Superintendent : C.R. McCoy
Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-11-02

Weather: Partly Cloudy, 52° F morning, strong wind from the northwest with afternoon high expected to be 70° F.

Contractors on Site: Woofter Construction – 1 HAZWOPPER trained excavator
(Jim Vap)

Contractor Activities: Four trucks of contaminated soil are removed from the site today.

Weights of loads shipped today area as follows:

42,100 lbs	Manifest No. 4-11-02-43
40,920 lbs	Manifest No. 4-11-02-44
40,060 lbs	Manifest No. 4-11-02-45
<u>38,560 lbs</u>	<u>Manifest No. 4-11-02-46</u>

Total = 161,640 lbs = 80.82 tons

Bob Stewart (USEPA-WAM) decides that we have excavated enough soil in the plant area. Contamination is still present @ 12' depth, but present funding will not allow for any additional excavation.

The lagoon area is leveled this afternoon. Soil is taken from the slope of soil against the south perimeter. 400 cubic yards of soil have been ordered for tomorrow.

Construction Superintendent : _____

Curtis R. McCoy

Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-12-02

Weather: Clear, 49° F morning, very light wind from the northwest with afternoon high expected to be 70° F. Little rain accumulation occurred last night.

Contractors on Site: Woofter Construction – 1 HAZWOPPER trained excavator
(Jim Vap)
1 worker (Steve Golden)

Contractor Activities: Five trucks of contaminated soil are removed from the site today.

Weights of loads shipped today area as follows:

39,620 lbs	Manifest No. 4-12-02-47
36,760 lbs	Manifest No. 4-12-02-48
40,380 lbs	Manifest No. 4-12-02-49
36,560 lbs	Manifest No. 4-12-02-50
<u>39,440 lbs</u>	<u>Manifest No. 4-12-02-51</u>

Total = 192,760 lbs = 96.38 tons

All stockpiled excavation soils have been removed from the site. The top 6" was removed from underneath the stockpile and disposed with the other soils.

A decontamination pad has been constructed from 2"x10" lumber and two layers of black 4 mil polyethylene. The lumber has been attached to metal stakes using screws. A power washer is used along with long handle brushes to clean the surfaces of the equipment. A pump is used to suck up the waste water. The water is then pumped into a 500 gallon holding tank mounted on a trailer.

The largest front end loader is decontaminated by the end of the day and is picked up by Cahoj Earthmoving for usage at another site. Decontamination efforts will continue with the other items on Monday. The other front end loader and the skid steer loader have been parked upon the decon pad to try and help hold it down during the high wind periods we are having.

Construction Superintendent : _____



Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-15-02


Weather: Clear, 57° F morning, strong wind from the south with afternoon high a record 92° F.

Contractors on Site: Woofter Construction – 1 HAZWOPPER trained excavator
(Jim Vap)
1 worker (Steve Golden)

Contractor Activities: Jim Vap (Woofter Construction) was busy with personal things this morning and does not arrive at the site until afternoon. We begin decontaminating the equipment. The front end loader and the skid steer loader are deconed first. The track hoe excavator is then brought to the decon pad and cleaned.

Upon completion of the equipment decon station, the wastewater is pumped into the holding tank. The decon pad is then disassembled. The wastewater is dumped into a sanitary sewer manhole just east of Country Club Drive.

20 loads of topsoil have been brought onto the site by the end of the day. Each load is estimated to be 5-6 cubic yards each.

Construction Superintendent : 
Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-16-02

Weather: Clear, 55° F morning, strong wind from the south with afternoon high 85° F.

Contractors on Site: Woofter Construction – 1 HAZWOPPER trained excavator
(Jim Vap) and 2 workers

Contractor Activities: When the contractor arrives at the site I remind them that compaction testing must be performed on all soil lifts in accordance with BVSPC Section 02315 paragraph 3.10. No arrangements have been made by the Woofter to allow for a testing firm to be present at the site.

Ken Wyatt (BVSPC) is contacted and made aware of the lack of a soil testing firm at the site. I will shut down all site activities until this issue is resolved and some type of outside testing firm is brought to the site.

Soil samples are collected by Woofter and hand delivered to Penco Engineering for soil characterization curves to be developed. Results are anticipated to be ready by late tomorrow.

No additional activities took place at the site after shutting down backfilling efforts.

Construction Superintendent : _____

Curtis R. McCoy

Curtis R. McCoy (Black & Veatch Special Projects)

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-17-02

Weather: Clear, 50° F morning, strong wind from the south with afternoon high 83° F.

Contractors on Site: Woofter Construction – 1 HAZWOPPER trained excavator
(Jim Vap) and 2 workers

Contractor Activities: The representative from Penco Engineering was to arrive at the site this morning. By the end of the day, no one had arrived or heard from this firm. Therefore no backfilling activities took place at the site today.

Construction Superintendent :



Curtis R. McCoy (Black & Veatch Special Projects)

ACE SERVICES SITE
COLBY, KANSAS
BVSPC 046129
BY DANE HENEGER

Monday April 22, 2002

In 7:30 AM Out 5:30 PM

Weather Sun - Wind SW 20-30-Temp 70-80

Observations AM:

Arrived on site at 7:30 AM. No one from contractors forces were on site yet. Took (9) pictures depicting the site excavation. A few problems were noted upon arrival at the site as follows:

- Portions of the Site excavation were not adequately sloped.
- Excavation had trash and debris in it (See Pictures; Coke bottle, cigarette pkg., plastic. Loose concrete, etc.)
- Excavation Spoils were less than 2' from edge of excavation.
- Chrome contaminated soil was evident on the top of the clean fill. It looked as though this was tracked in from the sides of the excavation. (See Pictures)

Contractors forces arrive approximately 9:00 AM and were notified regarding the above listed unacceptable conditions. Owner of company Mike Woofter arrives at 10:00 AM and was told the same thing. They adjust their plan and begin a more gradual sloping of one side of the excavation (see pictures). The soils surrounding much of the excavation is very soft and poorly compacted. Also there is concrete debris in surrounding soil in the northeast corner. The area of soft surrounding soil is where EPA had backfilled in the mid 1990's. The attached map shows the excavation area as of this date using the power pole at the NE corner of the site as a reference (See Photos).

Observations PM:

Excavation area is being put back in place properly and they're beginning to make some progress. Contractor elects to remove some of the soft areas and concrete rubble on his own accord. They have shaped the excavation area in the form of a bowl and have brought in a vibratory sheeps foot roller to help with the compaction progress (see photos). Contractors trucking company has brought in (4) dump trucks carrying 12cyds of fill material.

Tuesday April 23, 2002

In 8:00 out 6:30 PM

Weather Sun – Wind S 10-20 - Temp 70-80

Observations:

Took additional pictures showing compacted side of soft spoils area and Geotech testing soils. Contractors forces arrived at 8:30 PM checked equipment and began work. Prior to beginning work on sequential lifts Penco Engineering who was hired by Woofter to perform soils testing came out and took tests on base material which had been re-worked yesterday. Testing services took tests and had readings of 103 % Compaction and 16 percent moisture and 96% compaction and 17% moisture. We established Power Pole on the NE Corner of excavation as our reference point (see Monday comment). Once the first lift was in place and we had readings of 96 & 98 % compaction and moisture content of 16-18%. I make the decision to head back to KC. Prior to doing that I establish grade stakes (rebar with fluorescent paint showing 8") and determine depth of excavation to be approximately 5' and that we should have at least (8) more soil test readings for a total number of readings for excavation at 16.

Ace Services Site, Colby, Kansas
Demolition – Daily Report

Date: 04-30-02

Weather: Clear, 50° F morning, light wind from the east with afternoon hours overcast with 63° F.

Contractors on Site: 0 workers

Contractor Activities: The intention of this trip was to photograph the site and determine if the remaining work is acceptable for final payment. Backfilling and compaction efforts took place last week under the supervision of Dane Heneger (BVSPC). Density testing was performed by Kevin Puckett (Penco Engineering) at every 8" lift of soil.

The site has been left with an 18" depression towards the north end of the site, approximately where the existing plating shop slab footing was previously removed. I was informed that a lot of the existing rubble backfill used in this area was removed last week, but not all of the debris was removed. Soil was brought in and placed on the rubble and compacted.

The site is not level and is quite rough in appearance, but we will leave the site as is and have the new construction contractor be responsible for grading the site prior to building the new water plant. I stop by Woofter Construction and inform Mike Woofter that the site work is approved and he can submit his request for final payment. I am given a draft copy of the compaction data from Penco Engineering. A formal signed hard copy will be mailed at a later date.

I stop by Elmer Zerr's office and inquire about his efforts with surveying the new monitoring wells placed to the east by Gary Felkner (BVSPC). Elmer informs me that he is questioning his results from the first survey because of his unfamiliarity with the new GPS surveying instrument that he recently purchased. Some of the data did not appear quite right to him and he is going to resurvey the wells using traditional equipment. He will also resurvey the wells using the new GPS and compare the results with the traditional survey data. I leave the well keys with him so that he may continue with the survey.

Construction Superintendent : _____

Curtis R. McCoy
Curtis R. McCoy (Black & Veatch Special Projects)

APPENDIX E

Site Photo Figures

***Ace Services Superfund Site
Region 7
Contaminated Soils & Concrete Removal***



- Initial slab removal at northeast corner of plating shop. Note contamination on soil surface in sampling cell 2.
- March 12, 2002



BLACK & VEATCH

Figure 1

***Ace Services Superfund Site
Region 7
Contaminated Soils & Concrete Removal***



- Concrete contamination exists on top of concrete slab as well as on bottom surfaces.
- March 12, 2002



BLACK & VEATCH

Figure 2

***Ace Services Superfund Site
Region 7
Contaminated Soils & Concrete Removal***



- This is the extent of concrete rubble pile prior to hauling any loads to the landfill. Underlying soil removal has not been started and stockpiled by this time.
- March 20, 2002



BLACK & VEATCH

Figure 3

***Ace Services Superfund Site
Region 7
Contaminated Soils & Concrete Removal***



- The first truck load of concrete rubble is removed from the site. Truck drivers wear respiratory protection when winds create inhalation hazards.



- March 21, 2002



BLACK & VEATCH

Figure 4

***Ace Services Superfund Site
Region 7
Contaminated Soils & Concrete Removal***



- TCLP sampling conducted in cells 1 thru 6 at 0-6", 3' and 6' depths in five locations within the cell. Each depth and location combined for a composite sample. Data used for waste characterization
- March 21, 2002



BLACK & VEATCH

Figure 5

Ace Services Superfund Site Region 7 Contaminated Soils & Concrete Removal



- Cell 6 surface contamination removed.
- XRF reading at bottom of excavation:
Cr=3140 \pm 860 ppm,
Pb<92 ppm
- XRF reading at surface in Cell 2:
Cr=11200 \pm 1100 ppm,
Pb<80 ppm
- April 1, 2002



BLACK & VEATCH

Figure 6

***Ace Services Superfund Site
Region 7
Contaminated Soils & Concrete Removal***



- Visible contamination in Cell 11 leads to the removal of additional soil to a depth of 4 feet. At this depth a section of abandoned drain piping is discovered with no connections at either end. Highly contaminated soil is surrounding the pipe.
- April 4, 2002



BLACK & VEATCH

Figure 7

Ace Services Superfund Site Region 7 Contaminated Soils & Concrete Removal



- Existing marker layer discovered at various depths in cells 6, 7, 10 and 11. Marker layer placed by a previous USEPA remediation of the plating shop trench area in 1994. This layer of chalky material exists on top of the previously left contamination below black polyethylene sheeting.
- April 5, 2002



BLACK & VEATCH

Figure 8

Ace Services Superfund Site Region 7 Contaminated Soils & Concrete Removal



- During the leveling of the old lagoon berm east of the plating shop, visible contamination was discovered. Visible contamination was found from the surface to a 3' depth.
- XRF reading at 3' depth in center of area: Cr = 3890 ± 710 ppm, Pb = 494 ± 74 ppm
- April 9, 2002



BLACK & VEATCH

Figure 9

Ace Services Superfund Site Region 7 Contaminated Soils & Concrete Removal



- Visible lagoon area contamination at the 2' depth. XRF readings were taken east of this area to determine extent of contamination.
- XRF reading 10' east of excavation at 3' depth: Cr = 836 ± 500 ppm, Pb = 528 ± 73 ppm
- XRF reading 22' east of excavation at 3' depth: Cr = 722 ± 440 ppm, Pb = 228 ± 53 ppm
- XRF reading 34' east of excavation at 3' depth: Cr = 1030 ± 480 ppm, Pb = 281 ± 58 ppm
- April 10, 2002



BLACK & VEATCH

Figure 10

Ace Services Superfund Site Region 7 Contaminated Soils & Concrete Removal



- Decon pad constructed of lumber and 2 layers of polyethylene. Soil under pad is sloped to sump location at SW corner. Wastewater transferred to storage tank on trailer, then to City of Colby sanitary sewer.



- April 12, 2002



BLACK & VEATCH

Figure 11

**Ace Services Superfund Site
Region 7
Contaminated Soils & Concrete Removal**



- Various views of contamination layer at various depths showing previously installed marker layer. Stockpile of contaminated soil is visibly different from appearance of soils taken from shallow depths.
- XRF reading at east sidewall at 12' depth: CR = 7000 \pm 940 ppm, Pb < 80 ppm
- April 10, 2002



BLACK & VEATCH

Figure 12

Ace Services Superfund Site Region 7 Contaminated Soils & Concrete Removal



- Vibratory sheepsfoot compactor used for site compaction. Penco Engineering performed the compaction testing. Soil was watered in order to meet moisture requirements for proper compaction.
- April 22 - 23, 2002



BLACK & VEATCH

Figure 13

***Ace Services Superfund Site
Region 7
Contaminated Soils & Concrete Removal***



- Final grading photos after all compaction by Woofter Construction.
- April 30, 2002



BLACK & VEATCH

Figure 14

APPENDIX F

Uniform Hazardous Waste Manifests

KSD046746731

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CRM	Manifest Document No. 3-21-02-01		2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St., Kansas City, KS 66101				A. State Manifest Document Number			
4. Generator's Phone (913) 551-7654				B. State Generator's ID			
5. Transporter 1 Company Name Bellio Trucking		6. US EPA ID Number 1600983778200		C. State Transporter's ID		D. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) 10855 E. Hwy 36 Deer Trail, CO 80105				10. US EPA ID Number 1600991300484			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol
a. HM CRM							
b. * Hazardous Waste, solid, n.o.s., 9,				0.01 CM		18	1/25
c. UN3077, PGIII							
d.							
17. Additional Descriptions for Materials Listed Above Q13991				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E company.							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Curt McCoy for USEPA				Signature <i>Curt McCoy</i>		Date 3 21 02	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Ronald Schlotthauer</i>		Date 03 21 02	
Printed/Typed Name RONALD SCHLOTTHAUER				Signature		Date	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space Box 11 line on should include 2007 Generator notified 3/22/02							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19				Signature <i>Troy Cooley</i>		Date 03 21 02	
Printed/Typed Name Troy Cooley				Signature		Date	

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/21/02

Container # _____
 W/S 13991
 Manifest # 3 21 02 01
 Work Order # 53927
 Trailer # 55

73800 LB (M)
 73800 LB (M) Gross
 35400 LB Tare
 38400 LB Net

20 ID 20
 20 ID 20

Driver Ron [] ON [X] OFF

Weighed By D. OB

Gate Monitor Readings For Radioactivity East 7 West 5

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>D. OB</u>
19.20T	WASTE ACCEPTANCE MGR. <u>D. OB</u>
	SECURITY <u>D. OB</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input type="checkbox"/> SOLIDIFICATION <input checked="" type="checkbox"/> CELL	<u>F8</u>	<u>4:50</u>
TRUCK WASH		<u>11:55</u> <u>12:00</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. KSD046T46731 Manifest Document No. 3-21-02-02

2. Page 1 of Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St., Kansas City, KS 66101

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (913) 551-7654

5. Transporter 1 Company Name Bellio Trucking 6. US EPA ID Number 1C00983778200

C. State Transporter's ID

7. Transporter 2 Company Name 8. US EPA ID Number

D. Transporter's Phone

9. Designated Facility Name and Site Address Deer Trail (Safety Klean) 10855 E. Hwy 38 Deer Trail, CO 80105 10. US EPA ID Number 1C00991300484

E. State Transporter's ID

F. Transporter's Phone

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

12. Containers No. Type 13. Total Quantity 14. Unit WUVol Waste No.

Table with 6 columns: a, b, c, d, e, f. Row a: Hazardous waste, solid, n.o.s., 9, UN3077, PGIII, 001, CM, 13, yds.

J. Additional Descriptions for Materials Listed Above SWO 53928

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Printed/Typed Name: CURT MCGOY FOR USEPA Signature: CURT MCGOY Date: 3/21/02

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: JIM PRICE Signature: JIM PRICE Date: 3/21/02

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: Signature: Date:

19. Discrepancy Indication Space Box 11 line 2 should include D007. Generator notified 3/22/02

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name: 1109 Cooley Signature: Date: 03/21/02

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/21/02

Container # _____
 W/S 13991
 Manifest # 3 21-02-02
 Work Order # 53928
 Trailer # 67

72880 LB (M)
 72880
 35920 LB Gross
 36960 LB Tare
 Net

21
 ID 21

Driver Jim [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 5 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
18.48T	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input type="checkbox"/> SOLIDIFICATION <input checked="" type="checkbox"/> CELL	F8 TLC	17:08
TRUCK WASH		17:00 17:02
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 3-21-02-03		2. Page 1 of	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number			
4. Generator's Phone (913) 551-7654					B. State Generator's ID			
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number ICOD983778200		C. State Transporter's ID			
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) 10855 E. Highway 36 Deer Trail, CO 80105			10. US EPA ID Number ICOD991300484		E. State Transporter's ID			
					F. Transporter's Phone			
					G. State Facility's ID			
					H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No.	13. Total Quantity	14. Unif. Wt/Vol	15. Waste No.
a. X Hazardous Waste. Solid, h.o.s., 9, UN3077, PGIII					00.1 cm	18	Y	
b.								
c.								
d.								
J. Additional Descriptions for Materials Listed Above a. WCD13991					K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In Case of emergency call 1-800-468-1760 36 Company.								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature		Date	
Printed/Typed Name Curt M. Coy For USEPA					[Signature]		3/21/02	
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature		Date	
Printed/Typed Name JAMES CHANCE					[Signature]		3/21/02	
19. Discrepancy Indication Space Box 11 line a should include DOT. Generator notified 3/22/02								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					Signature		Date	
Printed/Typed Name Iroy Cooley					[Signature]		03/21/02	

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 7/3/02

71,700 ~~36840~~ LB (M)

Container # 1
 W/S 13991
 Manifest # 3-21-02-03
 Work Order # 53920
 Trailer # 13

~~36840~~ LB (M) Gross Tare

ID 11 34,260 ~~34260~~ LB

ID 11 37,440 ~~3500~~ LB Net

Driver James () ON (X) OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 5

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
18.72T	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
37.44	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	DATE	TIME
<input type="checkbox"/> SOLIDIFICATION <input checked="" type="checkbox"/> CELL	F8	7/3	16:58
TRUCK WASH		7/3	17:05
			17:04
OTHER			

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 3-21-02-04		2. Page 1 of	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St., Kansas City, KS. 66101				A. State Manifest Document Number					
4. Generator's Phone (913) 551-7659				B. State Generator's ID					
5. Transporter 1 Company Name Bellio Trucking		6. US EPA ID Number 100D983778200		C. State Transporter's ID		D. Transporter's Phone			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) 10855 E. Highway 36 Deer Trail, CO. 80105				10. US EPA ID Number 100D991300484					
G. State Facility's ID				H. Facility's Phone					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No.	13. Total Quantity	14. Unit (Wt/Vol)	15. Waste No.
a. Co CRM									
b. X Hazardous Waste, solid, h.o.s., 9, 00.1 C.M.									
c. UN3077, PGIII									
d.									
J. Additional Descriptions for Materials Listed Above Sub 53929						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In Case of emergency call 1-800-468-1760 3E Company.									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Curt McCoy for USEPA				Signature <i>Curt McCoy</i>		Date 3/21/02			
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name Kenneth W Holloway				Signature <i>Kenneth W Holloway</i>		Date 3/21/02			
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature		Date			
19. Discrepancy Indication Space Box 11 lines to should include DOT Generator notified 3/22/02									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.									
Printed/Typed Name Irving Cooley				Signature <i>Irving Cooley</i>		Date 10/21/02			

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/21/02

Container # 001
 WIS 13991
 Manifest # 3-21
 Work Order # 5584
 Trailer # 09

73360 LB (M)
 73360 LB (M) Gross
 33660 LB Tare
 39700 LB Net

ID 18
 ID 18

Driver Ken [] ON [x] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
19.85	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>[Signature]</u>	1736
TRUCK WASH	<u>[Signature]</u>	1745 1742
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KS0046746731		Manifest Document No. 3-21-02-05		2. Page 1 of		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St., Kansas City, KS 66101						A. State Manifest Document Number									
4. Generator's Phone (913) 551-7654						B. State Generator's ID									
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number 1C0D983778200			C. State Transporter's ID									
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone									
9. Designated Facility Name and Site Address Dear Trail (Safety Kleen) 10855 E. Hwy 30 Dear Trail, CO 80105						10. US EPA ID Number 1C0D991300484		E. State Transporter's ID							
						F. Transporter's Phone									
						G. State Facility's ID									
						H. Facility's Phone									
11. US DOT Description (Including Proper Shipping Name, hazard Class and ID Number)						12. Containers No.		13. Total Quantity		14. Unit Wt/Vol		Waste No.			
a. <input checked="" type="checkbox"/> HM Hazardous Waste. Solid, n.o.s., 9, UN3077, PG III						001		CM 18		1/DS					
b.															
c.															
d.															
J. Additional Descriptions for Materials Listed Above SWO 53930						K. Handling Codes for Wastes Listed Above									
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 SE company.															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name Curt McCoy for USEPA						Signature <i>Curt McCoy</i>						Date 3/21/02			
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name JAY L Leach						Signature <i>Jay Leach</i>		Date 3/21/02	
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name						Signature		Date	
19. Discrepancy Indication Space Line 2 box 11 should include (DOT) Tac number - noted 3/22/02															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						Printed/Typed Name Iroy Cooley						Signature <i>Iroy Cooley</i>		Date 03/21/02	

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

A-1 Date 3/21/02

Container # 01
 W/S 13991
 Manifest # 3-21-02-05
 Work Order # ~~53930~~ 53930
 Trailer # 81
 Driver Jay [] ON [X] OFF

73220 LB (M)
 73220 LB (M) Gross
 34420 LB Tare
 38800 LB Net
 ID 12
 ID 12
 Weighed By QOB

Gate Monitor Readings For Radioactivity East 8 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY.

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>QOB</u>
19.40T	WASTE ACCEPTANCE MGR. <u>QOB</u>
	SECURITY <u>QOB</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>from After</u>	<u>17:55</u>
TRUCK WASH	<u>TD</u>	<u>18:00</u> <u>18:01</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **KSD046746731** **CRM** Manifest Document No. **3-26-02-06**

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
USEPA - ROBERT STEWART - REGION VII
901 N. 5TH. ST., KANSAS CITY, KS 66101

A. State Manifest Document Number
B. State Generator's ID

4. Generator's Phone (913) **551-7654**

5. Transporter 1 Company Name **BELLIO TRUCKING** 6. US EPA ID Number **COD983778200**

C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone

7. Transporter 2 Company Name 8. US EPA ID Number

9. Designated Facility Name and Site Address
DEER TRAIL (SAFETY KLEEN)
10855 E. HIGHWAY 36
DEER TRAIL, CO 80105 10. US EPA ID Number **COD991300484**

G. State Facility's ID
H. Facility's Phone

11. US DOT Description (Including Proper Shipping Name, hazard Class and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	Waste No.
	No.	Type			
a. XX HAZARDOUS WASTE SOLID, h.o.s., 9, UN3077, PGIII	0.0.1	C.M.	18	YDS	
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
Q. WOOD 13991
S.W.O. 539300

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY CALL 1-800-468-1760 3E COMPANY.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name **CURT MCCOY FOR USEPA** Signature **CURT MCCOY** Date **3/26/02**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **MARK CINNOIA** Signature **Mark Cinnoia** Date **03/26/02**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name _____ Signature _____ Date _____

19. Discrepancy Indication Space
line a, box 11 should include D007. use 3/26/02 Box 14 should be "Y". ID# should be "WA3077"

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name **Dan O'Brien** Signature **D O'Brien** Date **03/26/02**

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/26/02

Container # _____
 W/S 13991
 Manifest # 3-26-02-00
 Work Order # 53930
 Trailer # _____

67820 LB (M)
 67820 LB (M) Gross
 35260 LB Tare
 32560 LB Net

ID 5
 ID 5

Driver Mark | ON | ~~OFF~~

Weighed By Way Cooley

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>16.281</u>	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u> <u>3-26-02</u> <u>18:27</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>A 2</u>	<u>12:18:22</u>
TRUCK WASH	<u>[Signature]</u>	<u>12:25</u> <u>12:28</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. KSD046746731 CRM Manifest Document No. 3-26-02-07 2. Page 1 of 1 Information in the shaded areas is not required by Federal law. 3. Generator's Name and Mailing Address USEPA - ROBERT STEWART - REGION VII 901 N. 5TH. STREET, KANSAS CITY, KS 66101 4. Generator's Phone (913) 551-7654 5. Transporter 1 Company Name BELLIO TRUCKING 6. US EPA ID Number COD983778200 7. Transporter 2 Company Name 8. US EPA ID Number 9. Designated Facility Name and Site Address DEER TRAIL (SAFEIV KLEEN) 10855 E. HWY 36 DEER TRAIL, CO 80105 10. US EPA ID Number COD991300484

Table with 5 columns: 11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number), 12. Containers No., Type, 13. Total Quantity, 14. Unit Wt/Vol, 15. Waste No. Row a: X HAZARDOUS WASTE. SOLID, h.o.s., 9, UN3077, PGIII, 0.01 C.M., 18, 1/DS

J. Additional Descriptions for Materials Listed Above: a. WCD 13991 500 5395A K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information IN CASE OF EMERGENCY CALL 1-800-468-1760 3E COMPANY.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Printed/Typed Name: CURT MCCOY FOR USEPA Signature: [Signature] Date: 3/26/02

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: [Signature] Signature: [Signature] Date: 03/26/02

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: [Signature] Signature: [Signature] Date: [Signature]

19. Discrepancy Indication Space Line a Box 11 should include DOT. Box 14 line A should be "Y" Also ID# should be UA3077 [Signature]

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name: Dan O'Brien Signature: [Signature] Date: 03/26/02

Vertical text on the left margin: PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/20/02

Container # _____
 WIS 13991
 Manifest # 3-26-02-67
 Work Order # 53937
 Trailer # 1/A

73620 LB (M)
 73620 LB (M) Gross
 36000 LB Tare
 37620 LB Net

ID 21
 ID 21

Driver Jim [] ON [x] OFF

Weighed By Troy Cooley

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	<u>[Signature]</u> SAMPLE RECEIVING
<u>18.81T</u>	<u>[Signature]</u> WASTE ACCEPTANCE MGR.
	<u>[Signature]</u> SECURITY

SITE TRACKING

LOCATION	COMMENTS	12 TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>[Signature]</u>	<u>13:28</u>
<input type="checkbox"/> CELL		<u>13:30</u>
TRUCK WASH	<u>5-26-02</u> <u>[Signature]</u>	<u>13:50</u> <u>13:30</u>
OTHER		<u>13:33</u>

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. CRM 3-26-02-08	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.						
3. Generator's Name and Mailing Address USEPA- ROBERT STEWART - REGION VII 901 NORTH 5TH STREET, KANSAS CITY, KS 66101			3-26-02-08	A. State Manifest Document Number							
4. Generator's Phone (913) 551-7654			B. State Generator's ID								
5. Transporter 1 Company Name BELLIO TRUCKING		6. US EPA ID Number COD983778200		C. State Transporter's ID							
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone							
9. Designated Facility Name and Site Address DEER TRAIL (SAFETY KLEEN) 10855 E. HWY 36 DEER TRAIL, CO 80105		10. US EPA ID Number COD991300484		E. State Transporter's ID							
				F. Transporter's Phone							
				G. State Facility's ID							
				H. Facility's Phone							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	Waste No.		
a. <input checked="" type="checkbox"/> HM SOLID CRM HAZARDOUS WASTE UN3077 , h.o.s., 9, UN3077, PGIII						0.0.1	C.M.	18	1/D		
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above a. WED 13991 SWB 53939						K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information IN CASE OF EMERGENCY CALL 1-800-468-1760 3E COMPANY.											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name CURT MCCOY FOR USEPA								Signature Curt McCoy		Date 3/26/02	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name James Chance								Signature James Chance		Date 3/26/02	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name								Signature		Date	
19. Discrepancy Indication Space Line 2 Box 11 should include a "D007". Box 14 should be "Y". ID# should be "WA 3077" 3/26/02											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Dan O'Brien								Signature Dan O'Brien		Date 03/26/02	

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

3

Date 3/20/02

Container # _____
 W/S 13991
 Manifest # 3-20-02-68
 Work Order # 53939
 Trailer # _____

70520 LB (M)
 70520 LB (M) Gross
 34440 LB Tare
 36080 LB Net

ID 11
 ID 11

Driver James [] ON [4] OFF

Weighed By Troy Cooley

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS

SIGNATURE

	SAMPLE RECEIVING <u>Kelly Gray</u>
<u>18.04 F</u>	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>[Signature]</u> <u>3-20-02</u>	<u>13:42</u>
<input type="checkbox"/> CELL		<u>13:55</u>
TRUCK WASH	<u>[Signature]</u>	<u>13:45</u>
		<u>13:48</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731		Manifest Document No. 13-26-02-09		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS. 66101						A. State Manifest Document Number									
4. Generator's Phone (913) 551-7654						B. State Generator's ID									
5. Transporter 1 Company Name Bellio Trucking				6. US EPA ID Number 100983778200		C. State Transporter's ID									
7. Transporter 2 Company Name						D. Transporter's Phone									
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) 10855 E. Highway 36 Deer Trail, CO. 80105				10. US EPA ID Number 100991300484		E. State Transporter's ID									
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
a. HM Hazardous Waste Solid, h.o.s., 9, UN3077, PGIII						00.1 cm.		18		1/DS					
b.															
c.															
d.															
Additional Descriptions for Materials Listed Above a. WCD 13991 SWD 13938						K. Handling Codes for Wastes Listed Above									
15. Special Handling Instructions and Additional Information In case of Emergency call 1-800-468-1760 3E Company.															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name Curt McCoy For USEPA				Signature C.R. McCoy				Date 3/26/02							
17. Transporter 1 Acknowledgement of Receipt of Materials						Date 3/26/02									
Printed/Typed Name MIKE FINN				Signature Mike Finn		Date 3/26/02									
18. Transporter 2 Acknowledgement of Receipt of Materials						Date									
Printed/Typed Name				Signature		Date									
19. Discrepancy Indication Space Box 11, line a should include "D007", Box 14 should be "NA3077" in 3/26/02, Also should be "NA3077"															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.															
Printed/Typed Name Don O'Brien				Signature Don O'Brien				Date 10/3/26/02							

Highway 36 Land Development Company
 10855 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

(4)

Date 3/26/02

Container # _____
 WIS 13991
 Manifest # 3-26-02-09
 Work Order # 53938
 Trailer # _____

68240 LB (M)
 68240 LB (M) Gross
 Tare
 34930 LB
 33260 LB Net

ID 14
 ID 14

Driver Mike [] ON [] OFF

Weighed By Troy Cooley

Gate Monitor Readings For Radioactivity East 8 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>Kelly G...</u>
<u>16.631</u>	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>D.O.B.</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>[Signature]</u>	<u>1:15:33</u>
TRUCK WASH	<u>[Signature]</u>	<u>13:32</u>
OTHER		<u>13:31</u>

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 3-26-02-10		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101				A. State Manifest Document Number			
4. Generator's Phone (913) 551-7654				B. State Generator's ID			
5. Transporter 1 Company Name Bellio Trucking		6. US EPA ID Number 1COD983778200		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address Deer Trail (Safety Klean) 1055 E. Highway 36 Deer Trail, CO. 80105		10. US EPA ID Number 1COD991300484		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit	Waste No.
a. X Hazardous Waste Solid, h.o.s., 9, DN 3077, PG III				No. 00.1	Type cm	18	105
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above a 13991 SUB B3940				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In Case of Emergency Call 1-800-468-1760 3E Company.							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Curt McCoy For USEPA				Signature C.R. McCoy		Date 3/26/02	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name Kenneth W. Hollenberg				Signature Kenneth W. Hollenberg		Date 3/26/02	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space line a Box 11 should include "DOT", box 14 should be "Y" in 3/26/02 ID# should be "WA3077"							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							
Printed/Typed Name Dan O'Brien				Signature Dan O'Brien		Date 103/26/02	

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/26/02

Container # _____
 WIS 13991
 Manifest # 3-20-02-10
 Work Order # 53940
 Trailer # _____

72740 LB (M)
 Gross
 72740 LB (M) Tare
 34020 LB
 Net
 38720 LB

ID 16
 ID 16

Driver Kenn ON OFF

Weighed By Troy Cooley

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>19.365</u>	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION ____ CELL	<u>A</u> <u>[Signature]</u> <u>3-26-02</u> <u>3-26-02</u>	<u>1:40 P</u>
TRUCK WASH	<u>[Signature]</u>	<u>1:35</u> <u>1:55</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 3-26-02-11		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.						
3. Generator's Name and Mailing Address USEPA-Robert Stewart-Region VII 901 N. 5th St., Kansas City, KS 66101					A. State Manifest/Document Number							
4. Generator's Phone (913) 551-7654					B. State Generator's ID							
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number K09983178200		C. State Transporter's ID							
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone							
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) 10855 E. Highway 36 Deer Trail, CO 80105			10. US EPA ID Number K0991300484		E. State Transporter's ID							
					F. Transporter's Phone							
					G. State Facility's ID							
					H. Facility's Phone							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No. Type		13. Total Quantity		14. Unit WWT/ol		Waste No.	
a. X HM Hazardous waste solid, n.o.s., 9, UN3077, PG III					0.01 CM		18		1/05			
b.												
c.												
d.												
J. Additional Descriptions for Materials Listed Above a. WCO 13991 SWO 53941						K. Handling Codes for Wastes Listed Above						
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3S company												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.												
Printed/Typed Name Curt McCoy for USEPA								Signature C.R. McCoy		Date 3/26/02		
17. Transporter 1 Acknowledgment of Receipt of Materials								Signature Jay Leach		Date 3/26/02		
Printed/Typed Name Jay Leach								Signature		Date		
18. Transporter 2 Acknowledgment of Receipt of Materials								Signature		Date		
Printed/Typed Name								Signature		Date		
19. Discrepancy Indication Space Box 11, line a should include "DOT", box 14 should be "x" in 3/26/02 ID# should be "NA3077"												
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.								Signature		Date 03/26/02		
Printed/Typed Name Roy Cooley								Signature		Date		

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/20/02

Container # _____
 W/S 13991
 Manifest # 3-26-02-11
 Work Order # 53941
 Trailer # _____

74320 LB (M) Gross
 74320 LB (M) Gross
 34400 LB Tare
 39920 LB Net

ID 12
 ID 12

Driver Jay [] ON [X] OFF

Weighed By Troy Cooley

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>19.96t</u>	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>Air 2 Station</u>	<u>13:58</u>
TRUCK WASH	<u>[Signature]</u>	<u>13:60</u> <u>14:00</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731		Manifest Document No. 13-27-02-12		2. Page 1 of		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101						A. State Manifest Document Number							
4. Generator's Phone (913) 551-7654						B. State Generator's ID							
5. Transporter 1 Company Name Bellio Trucking				6. US EPA ID Number 1COD983778200		C. State Transporter's ID							
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone							
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) 10855 E. Highway 36 Deer Trail, CO 80105						10. US EPA ID Number 1COD991300484							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit		Waste No.	
a. X Hazardous Waste, Solid, A.O.S., 9, NA 3077, PG III (D007)						001 DT.		18		Y			
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above 13991 SWO 53909						K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information In Case of Emergency Call 1-800-468-1760 3E Company.													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Curt Mcloy For USEPA										Signature <i>Curt Mcloy</i>		Date 3 27 02	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Jim Perce										Signature <i>Jim Perce</i>		Date 03 27 02	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name										Signature		Date	
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Greg Cooley										Signature <i>Greg Cooley</i>		Date 03 27 02	

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/27/02

Container # 1
 W/S 13991
 Manifest # 3-27-02-12
 Work Order # 53909
 Trailer # 567

ID 21
 ID 21

73600 LB (M)
 73600 LB (M) Gross
 36040 LB Tare
 37560 LB Net

Driver James [] ON [X] OFF

Weighed By Don OB

Gate Monitor Readings For Radioactivity East 6 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
18.78 T	SAMPLE RECEIVING <u>[Signature]</u>
	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION CELL	<u>[Signature]</u>	TLC 3-27-02 12:04
TRUCK WASH	<u>[Signature]</u>	3-27-02 12:06
OTHER		12:07

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731		Manifest Document No. 13-27-02-13		2. Page 1 of		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101						A. State Manifest Document Number							
4. Generator's Phone (913) 551-7654						B. State Generator's ID							
5. Transporter 1 Company Name Bellio Trucking				6. US EPA ID Number 1COD983778200		C. State Transporter's ID							
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone							
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) 10855 E. Highway 36 Deer Trail, CO 80105				10. US EPA ID Number 1COD991300484		E. State Transporter's ID							
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit		15. Waste No.	
a. X Hazardous Waste, Solid, A.O.S. 9, WA 3077, PG III (D001)						001 DT		18		Y			
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above a. 13991						K. Handling Codes for Wastes Listed Above SW0 539008							
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company.													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Curt McCoy For USEPA										Signature C.R. McCoy		Date 3/27/02	
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Mark Vinnola										Signature Mark Vinnola		Date 3/27/02	
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name										Signature		Date	
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.													
Printed/Typed Name roy Couley										Signature [Signature]		Date 03/27/02	

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/27/02

Container # 1
 WIS 13991
 Manifest # 3-27-02-13
 Work Order # 53968
 Trailer # 05

68540 LB (M)
 68540 LB (M)
 Gross
 Tare
 35340 LB
 33200 LB
 Net

ID 05
 ID 05

Driver Mark [] ON [x] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 7 West 5

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	<u>[Signature]</u>
16.6T	SAMPLE RECEIVING <u>[Signature]</u>
	WASTE ACCEPTANCE MGR.
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>A</u>	<u>TLC</u>
<input type="checkbox"/> CELL		<u>11:56</u>
TRUCK WASH		<u>12:00</u>
OTHER		<u>12:05</u>

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>KSD046946731</i>	Manifest Document No. <i>3-27-02-14</i>		2. Page 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101</i>				A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone <i>(913) 551-7654</i>				C. State Transporter's ID		D. Transporter's Phone	
5. Transporter 1 Company Name <i>Bellio Trucking</i>		6. US EPA ID Number <i>COD983778200</i>		E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		G. State Facility's ID		H. Facility's Phone	
9. Designated Facility Name and Site Address <i>Deer Trail (Safety Kleen) 10855 E. Highway 36 Deer Trail CO 80105</i>				10. US EPA ID Number <i>COD991300484</i>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers No.	13. Total Quantity	14. Unit WWVol	Waste No.
a. <i>X</i> <i>Hazardous Waste, Solid, A.D.S., 9, NA3099, PG III, (D009)</i>				<i>001</i>	<i>0.T.</i>	<i>18</i>	<i>Y</i>
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above <i>-13991 500 5397</i>				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <i>In case of emergency call 1-800-468-1760 3E Company.</i>							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name <i>Carl Mcloy for USEPA</i>				Signature <i>Carl Mcloy</i>		Date <i>3/27/02</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <i>DEAN CREWEN</i>				Signature <i>Dean Crewen</i>		Date <i>3/27/02</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name <i>Troy Cooley</i>				Signature <i>Troy Cooley</i>		Date <i>3/27/02</i>	

Highway 36 Land Development Company
108555 East Highway 36 HCR-1
Deer Trail, Colorado 80105-9611

Date 3/27/02

Container # _____
WIS 13991
Manifest # 3-27-02-14
Work Order # 53971
Trailer # 11

ID 23
ID 23

69500 LB (M)
69500 LB (M)
33900 LB Gross
35600 LB Tare
Net

Driver Dean [] ON [x] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>17.8 T</u>	WASTE ACCEPTANCE MGR <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION CELL	<u>[Signature]</u>	<u>2:12:00</u> <u>3:42:00</u>
TRUCK WASH	<u>[Signature]</u>	<u>12:55</u> <u>12:56</u> <u>12:58</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>KS D046746731</i>		Manifest Document No. <i>13-27-02-15</i>		2. Page 1 of		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101</i>						A. State Manifest Document Number											
4. Generator's Phone (<i>913</i>) <i>551-7654</i>						B. State Generator's ID											
5. Transporter 1 Company Name <i>Bellio Trucking</i>				6. US EPA ID Number <i>100D983778200</i>		C. State Transporter's ID											
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone											
9. Designated Facility Name and Site Address <i>Deer Trail (Safety Klean) 10855 E. Highway 36 Deer Trail, CO. 80105</i>						10. US EPA ID Number <i>100D991300484</i>											
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		Waste No.					
a. <input checked="" type="checkbox"/> HM Hazardous Waste, Solid, (A.D.S.) 9, NA 3077, P6 TL, (0001)						001 D.T.		18		4							
b.																	
c.																	
d.																	
J. Additional Descriptions for Materials Listed Above <i>1399/ SWO 53970</i>						K. Handling Codes for Wastes Listed Above											
15. Special Handling Instructions and Additional Information <i>In case of emergency call 1-800-468-1760 3E Company.</i>																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name <i>Curt McCoy For USEPA</i>						Signature <i>Curt McCoy</i>				Date <i>3/27/02</i>							
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name <i>Mike Finn</i>				Signature <i>Mike Finn</i>				Date <i>3/27/02</i>			
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name				Signature				Date			
19. Discrepancy Indication Space																	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.																	
Printed/Typed Name <i>Don O'Brien</i>						Signature <i>Don O'Brien</i>				Date <i>03/27/02</i>							

This is a public information document. It is not to be used for any other purpose. For more information, contact the U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/27/02
 65520 LB (M)

Container # 001
 WIS 13991
 Manifest # 3-27-02-15
 Work Order # 53970
 Trailer # 18

65520 LB (M)
 34840 LB Gross
 Tare
 30680 LB
 Net

Driver Mike [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS

SIGNATURE

	SAMPLE RECEIVING <u>[Signature]</u>
15.34.T	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION M-102

COMMENTS

3-27-02

12 TIME

<input checked="" type="checkbox"/> SOLIDIFICATION	A-1	TCC	12:50
<input type="checkbox"/> CELL			
TRUCK WASH	<u>[Signature]</u>	<u>[Signature]</u>	12:55
			12:56
OTHER			

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>KS0046146131</i>		Manifest Document No. <i>13-2702-16</i>		2. Page 1 of		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St., Kansas City, KS. 66101</i>						A. State Manifest Document Number							
4. Generator's Phone <i>(913) 551-7624</i>						B. State Generator's ID							
5. Transporter 1 Company Name <i>Bellio Trucking</i>				6. US EPA ID Number <i>CO0983778200</i>		C. State Transporter's ID							
7. Transporter 2 Company Name						8. US EPA ID Number		D. Transporter's Phone					
9. Designated Facility Name and Site Address <i>Deer Trail (Safety Kleen) 10855 E. Highway 36 Deer Trail, CO 80105</i>						10. US EPA ID Number <i>CO0991300484</i>		E. State Transporter's ID					
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		Waste No.	
a. <i>X</i> <i>Hazardous Waste, Solid, n.o.s., 9, NA 3099, PB III, (D001)</i>						<i>00/DT</i>		<i>18</i>		<i>Y</i>			
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above <i>1399/ SWO 53972</i>						K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information <i>In case of Emergency call 1-800-468-1760 3E Company.</i>													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name <i>Curt McCoy for USEPA</i>						Signature <i>Curt McCoy</i>						Date <i>3/27/02</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <i>CRIMJAY Leach</i>						Signature <i>[Signature]</i>						Date <i>3/27/02</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						Signature						Date	
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.													
Printed/Typed Name <i>Dan O'Brien</i>						Signature <i>[Signature]</i>						Date <i>03/27/02</i>	

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 3/27/02
 69,200
 69200 LB (Net)

Container # _____
 W/S 13991
 Manifest # 3-27-02-16
 Work Order # 53972
 Trailer # 81

34200 LB Gross
 35000 LB Tare
 Net

10 12

Driver Jay [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
17.5T	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>A-Z</u>	<u>13:00</u>
TRUCK WASH	<u>TCC</u>	<u>13:03</u>
	<u>OTZ</u>	<u>13:06</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KS0046746731	Manifest Document No. 04-02-02-17		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.				
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number					
4. Generator's Phone (913) 551-7054					B. State Generator's ID					
5. Transporter 1 Company Name Bello Trucking			6. US EPA ID Number 1C00983778200		C. State Transporter's ID					
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone					
9. Designated Facility Name and Site Address Dear Trail Safety Kleen 10855 E. Hwy 36 Dear Trail, CO 80105			10. US EPA ID Number 1C00991300484		E. State Transporter's ID					
					F. Transporter's Phone					
					G. State Facility's ID					
					H. Facility's Phone					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers	13. Total	14. Unit	Waste No.	
						No.	Quantity	Wt/Vol		
a. Hazardous waste, solid, n.o.s., 9, NA3077, PGII (D007)						001	DT	18		Y
b.										
c.										
d.										
J. Additional Descriptions for Materials Listed Above SWO 53972 A WLD 13991						K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name Curt McCoy for USEPA					Signature <i>Curt McCoy</i>			Date 4/02/02		
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>Mark Cinnola</i>			Date 4/02/02		
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature			Date		
19. Discrepancy Indication Space										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.										
Printed/Typed Name Dan O'Brien					Signature <i>Dan O'Brien</i>			Date 04/02/02		

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4/2/02

Container # _____
 WIS 13991
 Manifest # 0402-0217
 Work Order # 53982
 Trailer # _____

68040 LB (M)
 68040 LB (M) Gross
 35000 LB Tare
 33040 LB Net

ID 5
 ID 5

Driver Mark [] ON [4] OFF

Weighed By Troy Colton

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
16.52	WASTE ACCEPTANCE MGR.
	SECURITY

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	A-1	11:52
<input type="checkbox"/> CELL		11:58.55
TRUCK WASH		12:00
		12:03
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 04-02-02-18		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number				
4. Generator's Phone (913) 551-7654					B. State Generator's ID				
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number 1C00983778200		C. State Transporter's ID				
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone				
9. Designated Facility Name and Site Address Dear Trail (Safety Kleeh) 10855 E. Hwy 36 Dear Trail, CO 80105			10. US EPA ID Number 1C00991300484		E. State Transporter's ID				
					F. Transporter's Phone				
					G. State Facility's ID				
					H. Facility's Phone				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Hazardous waste, solid, nos., 9, NA3077, PG III (D007)						0.01	DT	18	Y
b. CRM									
c.									
d.									
J. Additional Descriptions for Materials Listed Above Q WLD 13991 SWO 53980						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 BE Company									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Airt McCoy for USEPA					Signature <i>Airt McCoy</i>			Date 4/02/02	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name JAY LEACH					Signature <i>Jay Leach</i>			Date 4/12/02	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name					Signature			Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name roy cooler									
Signature <i>Roy Cooler</i>					Date 10/12/02				

12
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-2-02

Container # 001
 W/S 13991
 Manifest # 04-02-02-18
 Work Order # 53980
 Trailer # E 81

ID 12
 ID 12

73060 LB (M)
 73060 LB (M) Gross
 34280 LB Tare
 38780 LB Net

Driver Jerry [] ON [] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	<u>[Signature]</u>
19.39	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION CELL	<u>A-15</u>	<u>14:44</u>
TRUCK WASH	<u>F15</u>	<u>14:50</u> <u>14:15</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 04-02-02-19		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101				A. State Manifest Document Number			
4. Generator's Phone (913) 551-7654				B. State Generator's ID			
5. Transporter 1 Company Name Bello Company		6. US EPA ID Number IC00993778200		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address Dear Trail (Safety Kleen) 1055 E. Hwy 36 Dear Trail, CO 80105		10. US EPA ID Number IC00991300484		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. HM Hazardous waste, solid, nos. 9, NA3077, PG II (D007)				001	DT 18	Y	
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above a: WLD 13991 SWD 53981				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1700 3E Company							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Curt McCoy for USEPA				Signature C.R. McCoy		Date 4/02/02	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Dawn Cronin				Signature Dawn Cronin		Date 4/2/02	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Troy Cooley				Signature Troy Cooley		Date 04/02/02	

This form is to be used by generators of hazardous waste to document the shipment of hazardous waste to a treatment, storage, and disposal facility. It is required by the Resource Conservation and Recovery Act (RCRA) and the Hazardous Waste Manifest Regulations (40 CFR 263). The information on this form is used by the U.S. Environmental Protection Agency (EPA) and the states to track hazardous waste from the generator to the treatment, storage, and disposal facility. The information on this form is also used by the states to enforce RCRA and the Hazardous Waste Manifest Regulations. The information on this form is also used by the states to track hazardous waste from the generator to the treatment, storage, and disposal facility. The information on this form is also used by the states to enforce RCRA and the Hazardous Waste Manifest Regulations.

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

23
 71,380

Date 4-2-02
 71380 LB (M)

Container # 001
 W/S 13991
 Manifest # 04020219
 Work Order # 53981
 Trailer # 11

ID 23 71380 LB (M)
 ID 23 34300 LB Gross
 ID 23 37090 LB Tare
 Net

Driver Deann | ON OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	<u>[Signature]</u>
18.54	<u>[Signature]</u>
<u>[Signature]</u>	<u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	DATE	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>A+</u>	4-2-02	12:22
<input type="checkbox"/> CELL		4/2/02	12:30
TRUCK WASH		4/2/02	12:30
			12:31
OTHER			

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD0046746731	Manifest Document No. 04-02-02-20		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.																																													
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St., Kansas City KS 66101					A. State Manifest Document Number																																														
4. Generator's Phone (913) 551-7652					B. State Generator's ID																																														
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number ICOD983778200		C. State Transporter's ID																																														
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone																																														
9. Designated Facility Name and Site Address Dear Trail (Safety Kleen) 10855 E. Hwy 36 Dear Trail, CO 80105			10. US EPA ID Number ICOD991300484		E. State Transporter's ID																																														
					F. Transporter's Phone																																														
					G. State Facility's ID																																														
					H. Facility's Phone																																														
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.																																										
<table border="1"> <thead> <tr> <th>HM</th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>X</td> <td>Hazardous waste, solid, nos. 9, class, NA 3077, PG II (0007)</td> <td>0.01</td> <td>DT</td> <td>18</td> <td>Y</td> <td></td> <td></td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						HM						a.	X	Hazardous waste, solid, nos. 9, class, NA 3077, PG II (0007)	0.01	DT	18	Y			b.									c.									d.												
HM																																																			
a.	X	Hazardous waste, solid, nos. 9, class, NA 3077, PG II (0007)	0.01	DT	18	Y																																													
b.																																																			
c.																																																			
d.																																																			
J. Additional Descriptions for Materials Listed Above G WLD 1399.1 SWO 53978						K. Handling Codes for Wastes Listed Above																																													
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company																																																			
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Printed/Typed Name Curt McCoy for USEPA					Signature <i>C.R. McCoy</i>			Date 4 02 02																																											
17. Transporter 1 Acknowledgement of Receipt of Materials																																																			
Printed/Typed Name RONALD SCHLEITHAUER					Signature <i>Ronald Schleithauer</i>			Date 04 02 02																																											
18. Transporter 2 Acknowledgement of Receipt of Materials																																																			
Printed/Typed Name					Signature			Date																																											
19. Discrepancy Indication Space																																																			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.																																																			
Printed/Typed Name roy Cooley					Signature <i>Roy Cooley</i>			Date 04 02 02																																											

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-02-02

Container # 001
 W/S 13991
 Manifest # 0402-02-20
 Work Order # 53978
 Trailer # 16

ID 20
 ID 20

73980 LB (M)
 73980 LB (M)
 35380 LB Gross
 38600 LB Tare
 Net

Driver Ron ON OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	<u>[Signature]</u> SAMPLE RECEIVING
19.30	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>[Signature]</u>	14:27
<input type="checkbox"/> CELL	<u>[Signature]</u>	14:35
TRUCK WASH		14:30
		12:52
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 104-02-02-21		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.											
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number												
4. Generator's Phone (913) 551-7654					B. State Generator's ID												
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number 1C00983778200		C. State Transporter's ID												
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone												
9. Designated Facility Name and Site Address Dear Trail (Safety Kleen) 10855 E. Hwy 36 Dear Trail, CO 80105					E. State Transporter's ID												
10. US EPA ID Number 1C00991300484					F. Transporter's Phone												
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No. Type		13. Total Quantity										
<table border="1"> <thead> <tr> <th>HM</th> <th>Waste No.</th> </tr> </thead> <tbody> <tr> <td>a. <input checked="" type="checkbox"/> Hazardous waste, solid, nos, 9, NA3077, P011E (0007)</td> <td></td> </tr> <tr> <td>b.</td> <td></td> </tr> <tr> <td>c.</td> <td></td> </tr> <tr> <td>d.</td> <td></td> </tr> </tbody> </table>					HM	Waste No.	a. <input checked="" type="checkbox"/> Hazardous waste, solid, nos, 9, NA3077, P011E (0007)		b.		c.		d.		0.01 DT		18
HM	Waste No.																
a. <input checked="" type="checkbox"/> Hazardous waste, solid, nos, 9, NA3077, P011E (0007)																	
b.																	
c.																	
d.																	
14. Unit Wt/Vol					Y												
J. Additional Descriptions for Materials Listed Above Q: WLD 13991 SWO 53979					K. Handling Codes for Wastes Listed Above												
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1700 3E Company																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name Curt McCoy for USEPA					Signature <i>Curt McCoy</i>		Date Month Day Year 4 02 02										
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>Mike Clear</i>		Date Month Day Year 4 02 02										
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature		Date										
19. Discrepancy Indication Space																	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19:					Signature <i>Troy Cooley</i>		Date Month Day Year 10 02 02 P2										

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-2-02

Container # 001
 WIS 13991
 Manifest # 04-02-02-21
 Work Order # 539791
 Trailer # 15 (ESS)

ID 17
 ID 17

72380 LB (M)
 72380 LB (M)
 34940 LB Gross
 37440 LB Tare
 Net

Driver Widoe [] ON [x] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 9 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	<u>[Signature]</u> SAMPLE RECEIVING
18.72	<u>[Signature]</u> WASTE ACCEPTANCE MGR.
	<u>[Signature]</u> SECURITY

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>A1</u> <u>TLC</u>	1435
TRUCK WASH	<u>[Signature]</u> 4-2-02 <u>[Signature]</u>	1435 1438 1440
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 04-02-02-22		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St., Kansas City, KS 66101					A. State Manifest Document Number		
4. Generator's Phone (913) 551-7654					B. State Generator's ID		
5. Transporter 1 Company Name Bellio Trucking		6. US EPA ID Number 1C00983778200		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address Dear Trail (Safety Kleen) 10855 E. Hwy 36 Dear Trail, Co 80105		10. US EPA ID Number 1C00991300484		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility's ID			
				H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. Hazardous waste, solid, nos., 9, NA3077, PGIII (D007)					0.01	DT	18
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above Q. WLO 13991 30-0 5397A					K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Curt McCoy for USEPA					Signature <i>C.R. McCoy</i>		Date 4 10 02
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>James Charles</i>		Date 4 12 02
Printed/Typed Name JAMES CHARLES					Signature		Date
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature		Date
Printed/Typed Name					Signature		Date
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							
Printed/Typed Name Troy Cooper					Signature <i>Troy Cooper</i>		Date 04 12 02

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-02-02

Container # 001
 W/S 13991
 Manifest # 04-02-02-22
 Work Order # 53987
 Trailer # 06

75660 LB (M)
 75660 LB (M) Gross
 34760 LB Tare
 40900 LB Net

ID 11
 ID 11

Driver James ON OFF

Weighed By Don O'Brien

Gate Monitor Readings For Radioactivity East 9 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
<i>3000 5-2-02</i>	<i>[Signature]</i>
<u>20.45</u>	WASTE ACCEPTANCE MGR. <i>Lily Y. G.</i>
	SECURITY <i>Don O'Brien</i>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<i>A copy of [unclear]</i>	<u>14:48</u>
<input checked="" type="checkbox"/> TRUCK WASH	<u>4-2-02</u>	<u>14:50</u>
OTHER		<u>14:55</u>

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

KS D046746731

Manifest Document No.

04-03-02-23

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

USEPA - Robert Stewart - Region VII
901 N. 5th St. Kansas City, KS 66101

4. Generator's Phone (913) 551-7654

5. Transporter 1 Company Name

Bellio Trucking

6. US EPA ID Number

COD983778200

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Dear Trail (Safety Kleen)
10855 E. Hwy 36
Dear Trail, CO 80105

10. US EPA ID Number

COD991300484

11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)

HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. X	0.01	DT	18	Y	
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

a. WLD 13991 SUBD 53992

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

In case of emergency call 1-800-468-1760 3E Company

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Curt McCoy for USEPA; Signature: [Signature]; Date: 4/03/02

17. Transporter 1 Acknowledgement of Receipt of Materials; Printed/Typed Name: [Signature]; Signature: [Signature]; Date: 4/3/02

18. Transporter 2 Acknowledgement of Receipt of Materials; Printed/Typed Name: [Signature]; Signature: [Signature]; Date: [Blank]

19. Discrepancy indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name: Irony Couley; Signature: [Signature]; Date: 04/03/02

23
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-3-02

Container # 001
 W/S 13991
 Manifest # 04-03-02 23
 Work Order # 53992
 Trailer # 11

75840 LB (M)
 75840 LB (M) Gross
 34420 LB Tare
 41420 LB Net

ID 23
 ID 23

Driver Dean | ON OFF

Weighed By [Signature]

=====
 Gate Monitor Readings For Radioactivity East 8 West 6
 =====

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>20.71</u>	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>PA Zestek</u>	<u>11:15</u> <u>13:28</u> <u>13:30</u>
TRUCK WASH	<u>[Signature]</u>	<u>13:30</u> <u>13:32</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731		Manifest Document No. 04-03-02-24		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.								
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101						A. State Manifest Document Number										
4. Generator's Phone (913) 551-7654						B. State Generator's ID										
5. Transporter 1 Company Name Bellis Trucking			6. US EPA ID Number LC0D983778200			C. State Transporter's ID										
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone										
9. Designated Facility Name and Site Address Dear Trail Safety Kleen 10855 E. Hwy 3b Dear Trail, CO 80105			10. US EPA ID Number LC0D991300484			E. State Transporter's ID										
						F. Transporter's Phone										
						G. State Facility's ID										
						H. Facility's Phone										
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.				
a. <input checked="" type="checkbox"/> Hazardous waste, solid, n.o.s., 9, NA3077, R.P.G. III (D007) CRMZ						No. 0.01 Type DT		18		Y						
b.																
c.																
d.																
J. Additional Descriptions for Materials Listed Above a. WLD 13991 SW053984						K. Handling Codes for Wastes Listed Above										
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company																
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																
Printed/Typed Name Curt McCoy for USEPA						Signature <i>Curt McCoy</i>			Date 4 03 02							
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name James Chance			Signature <i>James Chance</i>			Date 4 3 02				
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name			Signature			Date				
19. Discrepancy Indication Space																
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.																
Printed/Typed Name Iroy Cooley						Signature <i>Iroy Cooley</i>			Date 04 03 02							

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-3-02

Container # _____
 W/S 13991
 Manifest # 04-03-02-24
 Work Order # 53984
 Trailer # 06

ID 11
 ID 11

73100 LB (M)
 73100 LB (M)
 34820 LB Gross
 Tare
 36280 LB
 Net

Driver James [] ON [X] OFF

Weighed By Don O'Brien

Gate Monitor Readings For Radioactivity East 7 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>12.14</u> <u>19.14</u>	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>[Signature]</u>	13:12
<input type="checkbox"/> CELL		13:15
TRUCK WASH	<u>[Signature]</u>	13:14
		13:15
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>KS D046746731</i>	Manifest Document No. <i>04-03-02-25</i>		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
		3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101</i>				A. State Manifest Document Number			
4. Generator's Phone (<i>913</i>) <i>551-7654</i>				6. US EPA ID Number <i>CO D983778200</i>			B. State Generator's ID		
5. Transporter 1 Company Name <i>Bellio Trucking</i>		7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address <i>Dear Trail (Safety Kleen) 10855 E. Hwy 36 Dear Trail, CO 80105</i>				10. US EPA ID Number <i>CO D991300484</i>		D. Transporter's Phone			
						E. State Transporter's ID			
						F. Transporter's Phone			
						G. State Facility's ID			
						H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. <i>X</i> <i>Hazardous Waste, Solid, n.o.s., 9, NA 3077, PG III (D007)</i>						<i>0.01</i>	<i>DT</i>	<i>18</i>	<i>Y</i>
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above <i>2: WLD 13991 SWO 53983</i>						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <i>In case of emergency call 1-800-468-1760 3E Company</i>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name <i>Curt McCoy for USEPA</i>						Signature <i>Curt McCoy</i>		Date <i>4 03 02</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name <i>MIKE FINN</i>		Signature <i>Mike Finn</i>	
								Date <i>4 03 02</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name		Signature	
								Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.									
Printed/Typed Name <i>Troy Cooley</i>						Signature <i>Troy Cooley</i>		Date <i>04 03 02</i>	

14

Highway 36 Land Development Company
108555 East Highway 36 HCR-1
Deer Trail, Colorado 80105-9611

Date 4-3-02
73180 LB (M)

Container # _____
W/S 13991
Manifest # 04-03-02-25
Work Order # 53983
Trailer # 18

ID 14 73180 LB (M) Gross
35520 LB Tare
ID 14 37660 LB Net

Driver Mike [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
18.83	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	A2 <u>[Signature]</u>	13:09
<input type="checkbox"/> CELL		13:10
TRUCK WASH	F22	13:10
		13:13
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KS D046746731	Manifest Document No. 04-03-02-26		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number			
4. Generator's Phone (913) 551-7654					B. State Generator's ID			
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number C00983778200		C. State Transporter's ID			
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address Dear Trail (Safety Kleen) 10855SE Hwy 36 Dear Trail, CO 80105			10. US EPA ID Number C0D991300484		E. State Transporter's ID			
					F. Transporter's Phone			
					G. State Facility's ID			
					H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Hazardous Waste, Solid, n.o.s., 9, NA3077, PG III (0007)					0.01	DT	18	Y
b.								
c.								
d.								
J. Additional Descriptions for Materials Listed Above a. WLD 13991 500-53975					K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name Curt McCoy for USEPA					Signature <i>Curt McCoy</i>		Date 04/03/02	
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>Jim Pierce</i>		Date 04/03/02	
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature		Date	
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					Signature <i>roy Cooley</i>		Date 04/03/02	

21

Highway 36 Land Development Company
108555 East Highway 36 HCR-1
Deer Trail, Colorado 80105-9611

Date 4-3-02

Container # _____
W/S 13991
Manifest # 04 03 02 26
Work Order # 53985
Trailer # 15 (E55)

ID 21
ID 21

74960 LB (M)
74960 LB (M) Gross
35960 LB Tare
39000 LB Net

Driver Jim [] ON [X] OFF

Weighed By Don O'Brien

Gate Monitor Readings For Radioactivity East 6 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
19.50	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>[Signature]</u> JLC 4-3-02	13:22
<input type="checkbox"/> CELL		13:25
TRUCK WASH	<u>[Signature]</u>	13:25
		13:26
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>KS D046746731</i>	Manifest Document No. <i>04-03-02-27</i>		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101</i>					A. State Manifest Document Number			
4. Generator's Phone (<i>913</i>) <i>551-7654</i>					B. State Generator's ID			
5. Transporter 1 Company Name <i>Bellio Trucking</i>			6. US EPA ID Number <i>COD983778200</i>		C. State Transporter's ID			
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address <i>Dear Trail (Safety Kleen) 10855 E. Hwy 36 Dear Trail, CO 80105</i>			10. US EPA ID Number <i>COD991300484</i>		E. State Transporter's ID			
					F. Transporter's Phone			
					G. State Facility's ID			
					H. Facility's Phone			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. <input checked="" type="checkbox"/> <i>Hazardous Waste, Solid, n.o.s., 9, NA3077, PG II (D007)</i>					<i>0.01</i>	<i>DT</i>	<i>18</i>	<i>Y</i>
b.								
c.								
d.								
J. Additional Descriptions for Materials Listed Above <i>a. WLD-13991 Saw 53986</i>					K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <i>In case of emergency call 1-800-468-1760 SE Company</i>								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name <i>Curt McCoy for USEPA</i>					Signature <i>Curt McCoy</i>		Date Month Day Year <i>4 3 02</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>Jay Leach</i>		Date Month Day Year <i>4 3 02</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature		Date	
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					Signature <i>roy Cooley</i>		Date Month Day Year <i>04 03 02</i>	

12
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4/3/02

Container # _____
 WIS 13991
 Manifest # 04-03-02-27
 Work Order # 53980
 Trailer # 81

71,640
 71,640 LB (M) Gross
 34,260 LB Tare
 37,380 LB Net

IB 12

Driver Jay [] ON [X] OFF

Weighed By Troy Cooley

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
18.69	WASTE ACCEPTANCE MGR. <u>Lily Yung</u>
	SECURITY <u>Don Brown</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION CELL	<u>Zone 1</u> <u>A-Z</u>	<u>12:46</u>
TRUCK WASH	<u>TLC</u> <u>4:30</u>	<u>12:50</u> <u>1:53</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

KSD046746 731

Manifest Document No.

04-08-02-08

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

USEPA - Robert Stewart - Region VII
901 N. 5th St. Kansas City, KS 66101

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (913) 551-7654

5. Transporter 1 Company Name
Bellio Trucking

6. US EPA ID Number
COD983778200

C. State Transporter's ID

D. Transporter's Phone 303-426-9629

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

Dear Trail (Safety Kleen)
10855 E. Hwy 36
Dear Trail, CO 80105

10. US EPA ID Number

COD991300484

G. State Facility's ID

H. Facility's Phone

970-386-2293

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

12. Containers No. Type

13. Total Quantity

14. Unit Wt/Vol

15. Waste No.

a. HM Hazardous Waste, Solid, n.o.s., 9,
NA3077, PG III (0007)

0.01 0.01

DT

CPM 10

Y

J. Additional Descriptions for Materials Listed Above

a. WLD 13991 SWO 53991

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

In case of emergency call 1-800-468-1960 3E Company

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name
Curt McCoy for USEPA

Signature
Curt McCoy

Date
4/24/02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
MARK VINNOLA

Signature
Mark Vinnola

Date
04/09/02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name
Iroy Codley

Signature
Iroy Codley

Date
04/04/02

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4/4/02

Container # _____
 W/S 13991
 Manifest # 04-04-02-28
 Work Order # 53991
 Trailer # _____

71720 LB (M)
 71720 LB (M) Gross
 35160 LB Tare
 36560 LB Net

ID 5
 ID 5

Driver Mark ON OFF

Weighed By _____

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS

SIGNATURE

	SAMPLE RECEIVING <i>[Signature]</i>
	WASTE ACCEPTANCE MGR. <i>[Signature]</i>
	SECURITY <i>[Signature]</i>

Mark **SITE TRACKING** 4/4/02 11:20

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<i>[Signature]</i>	11:25
<input type="checkbox"/> CELL	A-4	11:30
TRUCK WASH	<i>[Signature]</i>	11:31
OTHER		11:32

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. <i>KS D0467468X731</i>	Manifest Document No. <i>04-05-02-29</i>	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101</i>		A. State Manifest Document Number	
4. Generator's Phone (<i>913</i>) <i>551-7654</i>		B. State Generator's ID	
5. Transporter 1 Company Name <i>Bellio Trucking</i>	6. US EPA ID Number <i>CO D983798200</i>	C. State Transporter's ID	
7. Transporter 2 Company Name	8. US EPA ID Number	D. Transporter's Phone (<i>303</i>) <i>926-9621</i>	
9. Designated Facility Name and Site Address <i>Dear Trail (Safety Kleen) 10855 E. Hwy 36 Dear Trail, CO 80105</i>		E. State Transporter's ID	
10. US EPA ID Number <i>CO D991300484</i>		F. Transporter's Phone	
		G. State Facility's ID	
		H. Facility's Phone <i>303 (970) 386-2293</i>	

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers		13. Total	14. Unit	Waste No.
	No.	Type	Quantity	Wt/Vol	
a. <input checked="" type="checkbox"/> <i>Hazardous Waste, Solid, n.o.s., 9, NA3077, PG III (D007)</i>	<i>0.01</i>	<i>DT</i>	<i>18</i>	<i>Y</i>	
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above <i>a. WLD 13991 SWO 53988</i>	K. Handling Codes for Wastes Listed Above
--	---

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-468-1760 3E Company

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name <i>Curt McCoy for USEPA</i>	Signature <i>Curt McCoy</i>	Date <i>4/24/02</i>
17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name <i>MIKE FINN</i>	Signature <i>Mike Finn</i>	Date <i>4/4/02</i>
18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date
19. Discrepancy Indication Space		
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		
Printed/Typed Name <i>Tray Cooley</i>	Signature <i>Tray Cooley</i>	Date <i>04/04/02</i>

14

Highway 36 Land Development Company
108555 East Highway 36 HCR-1
Deer Trail, Colorado 80105-9611

Date 4-4-02
74220 LB (M)
74220
34920 LB

Container # 1
W/S: 13991
Manifest # 04-04-02-29
Work Order # 53988
Trailer # 18

IB 14

39300 LB Gross
Tare

Net

Driver Mike [] ON [] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 5

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS SIGNATURE

	SAMPLE RECEIVING <u>[Signature]</u>
	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION COMMENTS TIME

<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>A 4</u>	<u>4-4-02</u>	<u>11350</u>
TRUCK WASH	<u>[Signature]</u>	<u>4/4/02</u>	<u>1300</u>
OTHER			<u>1515</u>

RMS
CEN-2

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. KSD0467465X731	Manifest Document No. 04-02-02-30	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
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3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101	A. State Manifest Document Number
4. Generator's Phone (913) 551-7654	B. State Generator's ID

5. Transporter 1 Company Name Bellio Trucking	6. US EPA ID Number CO0983778200	C. State Transporter's ID
7. Transporter 2 Company Name	8. US EPA ID Number	D. Transporter's Phone (303) 926-9629
		E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address Dear Trail (Safety Kleen) 10855 E. Hwy. 36 Dear Trail, CO 80105	10. US EPA ID Number CO0991300484	G. State Facility's ID
		H. Facility's Phone (303) (970) 386-2288

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	Waste No.
	No.	Type			
a. <input checked="" type="checkbox"/> Hazardous Waste, Solid, n.o.s., 9, NA3077, PG III (D007)	0.01	DT	18	Y	
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above a. WLD 13991 - SLD 53989	K. Handling Codes for Wastes Listed Above
--	---

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-468-1760 SE Company

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name Quit McCoy for USEPA	Signature <i>Quit McCoy</i>	Date 4/8/02
---	--------------------------------	-----------------------

17. Transporter 1 Acknowledgement of Receipt of Materials	Date 4/4/02
Printed/Typed Name DEAN CENNEN	Signature <i>Dean Cennen</i>

18. Transporter 2 Acknowledgement of Receipt of Materials	Date
Printed/Typed Name	Signature

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.	Date 04/04/02
Printed/Typed Name roy Cooley	Signature <i>Roy Cooley</i>

U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460

23

Highway 36 Land Development Company
108555 East Highway 36 HCR-1
Deer Trail, Colorado 80105-9611

Date 4.4.02

70240 LB (M)
70240 LB (M)

Container # 1
W/S 13991
Manifest # 04-04-02-30
Work Order # 53989
Trailer # 11

34220 LB Gross
36020 LB Tare
Net

ID 23
ID 23

Driver Deann () ON (✓) OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 7 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS

SIGNATURE

	SAMPLE RECEIVING	<u>[Signature]</u>
	WASTE ACCEPTANCE MGR	<u>[Signature]</u>
	SECURITY	<u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>A4</u>	<u>4/4/02</u>
<input type="checkbox"/> CELL	<u>Deann</u>	<u>1340 2</u> <u>1345</u>
TRUCK WASH	<u>[Signature]</u>	<u>4-4-02</u> <u>149 5/65</u> <u>1210G</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

KSD0467463731

Manifest Document No.

04-05-02-31

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

USEPA - Stewart, Robert - Region VII
901 N. 5th St. Kansas City, KS 66101

04

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (913) 551-7654

5. Transporter 1 Company Name

Bellia Trucking

6. US EPA ID Number

COD983778200

C. State Transporter's ID

D. Transporter's Phone (303) 462-9081

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

Dear Trail (Safety Kleen)
10855 E. Hwy 36
Dear Trail, CO 80105

10. US EPA ID Number

COD991300484

G. State Facility's ID

H. Facility's Phone (970) 386-2293

11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)

12. Containers No. Type

13. Total Quantity

14. Unit Wt/Vol

Waste No.

HM

a. X Hazardous Waste, Solid, n.o.s., 9,
NA3077, PG III (D007)

0.01 DT

18

Y

J. Additional Descriptions for Materials Listed Above

a. WLD 13991

SW053988-4(460)
53990

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

In case of emergency call 1-800-468-1760 3E Company

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name
Curt McCoy for USEPA

Signature
Curt McCoy

Date
4/24/02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Jim Perce

Signature
Jim Perce

Date
04/04/02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name
Croy Cooley

Signature
Croy Cooley

Date
04/04/02

21
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-4-02

Container # 1
 WIS 13991
 Manifest # 04-04-02-31
 Work Order # 53990
 Trailer # 05

77340 LB (M)
 77340 LB (M)
 36260 LB Gross
 41080 LB Tare
 Net

ID 21
 ID 21

Driver Jim [] ON [X] OFF

Weighed By Alan Brown

Gate Monitor Readings For Radioactivity East 8 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
	WASTE ACCEPTANCE MGR <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>[Signature]</u>	<u>11-11-02</u> 14:13
<input type="checkbox"/> CELL	<u>[Signature]</u>	<u>4-11-02</u> 12:20
TRUCK WASH	<u>[Signature]</u>	<u>4-4-02</u> 14:20
OTHER		<u>[Signature]</u> 16:21

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>KS0046746X731</i>	Manifest Document No. <i>04-05-02-32</i>		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101</i>				A. State Manifest Document Number		B. State Generator's ID	
4. Generator's Phone (<i>913</i>) <i>551-7654</i>				C. State Transporter's ID		D. Transporter's Phone	
5. Transporter 1 Company Name <i>Bellio Trucking</i>		6. US EPA ID Number <i>COD983778200</i>		E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		G. State Facility's ID		H. Facility's Phone	
9. Designated Facility Name and Site Address <i>Dear Trail (Safety Kleen) 10855 E. Hwy 36 Dear Trail, CO 80105</i>				10. US EPA ID Number <i>COD991300484</i>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. <i>X</i> <i>Hazardous Waste, Solid, n.o.s., 9, NA3077, PG III (D007)</i>					<i>0.01</i>	<i>DT</i>	<i>18</i>
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above <i>a. WLD 13991 SWO-SS 2003 4/14/02 3993</i>					K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information <i>In case of emergency call 1-800-468-1760 3E Company</i>							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name <i>Curt McCoy for USEPA</i>				Signature <i>Curt McCoy</i>		Date <i>4/14/02</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>James Charles</i>		Date <i>4/14/02</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date	
19. Discrepancy Indication Space				Signature		Date	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.				Signature <i>1109 Cooley</i>		Date <i>04/04/02</i>	

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-4-02

Container # 1
 WIS 13991
 Manifest # 04-04-02-32
 Work Order # 53993
 Trailer # 06

75140 LB (M)
 75140 LB (M) Gross
 34840 LB Tare
 40300 LB Net

Driver James [] ON [X] OFF

Weighed By [Signature]

=====
 Gate Monitor Readings For Radioactivity East 6 West 5
 =====

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>A-4</u>	<u>4-4-02</u> 14418
<input type="checkbox"/> CELL		<u>4-21-02</u> 14120
TRUCK WASH	<u>[Signature]</u>	<u>4-4-02</u> 14320
OTHER		14521

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 4-05-02-33		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St., Kansas City, KS 66101					A. State Manifest Document Number				
4. Generator's Phone (913) 551-7654					B. State Generator's ID				
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number 1C00983778200		C. State Transporter's ID				
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone (303) 426-9602				
9. Designated Facility Name and Site Address Dear Trail (Safety Kleeh) 10555 E. Hwy 3b Dear Trail, CO 80105			10. US EPA ID Number 1C00991300484		E. State Transporter's ID				
					F. Transporter's Phone				
					G. State Facility's ID				
					H. Facility's Phone (970) 386-2293				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. <input checked="" type="checkbox"/> Hazardous waste, Solid, n.o.s., 9, NA3077, PGIII (D007)						0.01	DT	20	Y
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above a. WLD 13991 Saw 53994						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company ERG# 171									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Curt McCoy for USEPA					Signature <i>Curt McCoy</i>			Date 4/5/02	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Mark Vincola					Signature <i>Mark Vincola</i>			Date 04/05/02	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name					Signature			Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name roy Cooley					Signature <i>Roy Cooley</i>			Date 04/05/02	

05
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-5-02

Container # _____
 WIS 13991
 Manifest # 04-05-02-33
 Work Order # 53994
 Trailer # 05

73760 LB (M)
 73760 LB (M)
 34520 LB Gross
 39240 LB Tare
 Net

ID 5
 ID 5

Driver Mark [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING
19.62	WASTE ACCEPTANCE
	SECURITY

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>[Signature]</u>	4/5/02 11:30
CELL	<u>[Signature]</u>	11:30
TRUCK WASH	<u>[Signature]</u>	11:30
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. KSD046746731 Manifest Document No. 4-05-02-34

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St., Kansas City, KS 66101

4. Generator's Phone (913) 551-7654

5. Transporter 1 Company Name Bellio Trucking

6. US EPA ID Number 1C00983778200

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name, and Site Address Dear Trail (Safety Kleen) 10855 E. Hwy 36 Dear Trail, CO 80105

10. US EPA ID Number 1C00991300484

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol Waste No.

Table with 5 columns: a, b, c, d, e. Row a: X Hazardous waste, solid, NOS, 9, NA3077, PGIII(0007), 0.01 OT 20 Y

15. Additional Descriptions for Materials Listed Above a. WLD 13991 SWO 53995

16. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E company ERG # 171

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Date

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Date

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Date

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Signature Date

Vertical text on the left margin: 223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

14
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-5-02

Container # _____
 W/S 13991
 Manifest # 4-05-02-34
 Work Order # 53995
 Trailer # 14

ID 14
 ID 14

77560 LB (M)
 77560 LB (M)
 34880 LB Gross
 42680 LB Tare
 Net

Driver Mike [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 7 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	[Signature]
21.34	[Signature]
	[Signature]

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION CELL	<u>A-3</u>	<u>11:51 AM 12:02</u>
		<u>12:05</u>
TRUCK WASH		<u>12:05</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD0046746731	Manifest Document No. 4-05-02-35	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
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3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St., Kansas City, KS 66101		A. State Manifest Document Number
4. Generator's Phone (913) 551-7654		B. State Generator's ID
5. Transporter 1 Company Name Bellio Trucking	6. US EPA ID Number 1C00983778200	C. State Transporter's ID
7. Transporter 2 Company Name	8. US EPA ID Number	D. Transporter's Phone (913) 426-9029
9. Designated Facility Name and Site Address Dear Trail (Safety Kleen) 10855 E. HWY 36 Dear Trail CO 80105		E. State Transporter's ID
10. US EPA ID Number 1C00991300484		F. Transporter's Phone
		G. State Facility's ID
		H. Facility's Phone (970) 426-9029

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers		13. Total	14. Unit	15. Waste No.
	No.	Type	Quantity	Wt/Vol	
a. <input checked="" type="checkbox"/> HM Hazardous waste, solid, nos, 9, NA3077, PG III (D007)	0.01	DT	20	Y	
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above 0 WED-13991 SWO S3996	K. Handling Codes for Wastes Listed Above
---	---

15. Special Handling Instructions and Additional Information
**In case of emergency call 1-800-468-1760 3E Company
ERG# 171**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
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Printed/Typed Name Curt McCoy FOR USEPA	Signature <i>Curt McCoy</i>	Date 4 15 02
---	--------------------------------	------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name DEAN C...	Signature <i>Dean C...</i>	Date 4 15 02

18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Date

19. Discrepancy Indication Space

20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		
Printed/Typed Name 1109 Cooley	Signature <i>1109 Cooley</i>	Date 04 15 02

23
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-5-02
 73620 LB (M)

Container # _____
 WIS 13991
 Manifest # 4 05 02 35
 Work Order # 53990
 Trailer # 11

ID 23

 ID 23

Gross
 Tare
 73620 LB (M)
 33660 LB
 39960 LB Net

Driver Deason [] ON [] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 5

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	[Signature]
19.98	[Signature]
	[Signature]

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>A3</u>	<u>12:06</u>
<input type="checkbox"/> CELL		
TRUCK WASH		<u>12:10</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
KSDC46746731

Manifest Document No.
4-05-02-36

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
*USEPA - Robert Stewart - Region VII
901 N. 5th St. Kansas City, KS 66101*

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (*913*) *551-7654*

5. Transporter 1 Company Name
Bellio Trucking

6. US EPA ID Number
00D983778200

C. State Transporter's ID
D. Transporter's Phone: (*303*) *420-9021*

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
*Dear Trail (Safety Kleen)
10855 E. Hwy 38
Dear Trail, CO 80105*

10. US EPA ID Number
00D991300484

G. State Facility's ID

H. Facility's Phone
(970) 376-2293

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

12. Containers No. Type
13. Total Quantity
14. Unit Wt/Vol
Waste No.

HM	Description	No.	Type	Total Quantity	Unit Wt/Vol	Waste No.
a. <input checked="" type="checkbox"/>	<i>Hazardous Waste, Solid, n.o.s., 9, NA3077, PG III (D007)</i>	<i>0.01</i>	<i>DT</i>	<i>20</i>	<i>Y</i>	
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
a - WLD 13991 Sewo 53997

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
In case of emergency call 1-800-468-1760 3E Company ERG #171

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: *Curt McCoy for USEPA* Signature: *C.R. McCoy* Date: *4/5/02*

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: *JAMES CHANCE* Signature: *[Signature]* Date: *4/5/02*

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: _____ Signature: _____ Date: _____

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: *roy Cooley* Signature: *[Signature]* Date: *04/05/02*

Vertical text on the left margin: 223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Highway 36 Land Development Company
 10855 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-5-02

Container # _____
 W/S 13991
 Manifest # 13 4-05-02-36
 Work Order # 53997
 Trailer # 06

ID 11
 ID 11

79120 LB (M)
 79120 LB (M)
 34860 LB Gross
 44260 LB Tare
 Net

Driver Juno [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	<u>[Signature]</u>
22.13	<u>[Signature]</u>
	<u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
X SOLIDIFICATION CELL	<u>A 2</u>	<u>13:30</u> <u>13:35</u>
TRUCK WASH	<u>TR</u>	<u>13:35</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>KSD046746731</i>	Manifest Document No. <i>4-05-02-37</i>		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101</i>					A. State Manifest Document Number				
4. Generator's Phone (<i>913</i>) <i>551-7654</i>					B. State Generator's ID				
5. Transporter 1 Company Name <i>Bellio Trucking</i>		6. US EPA ID Number <i>COD983778200</i>		C. State Transporter's ID		D. Transporter's Phone (<i>303</i>) <i>420-9027</i>			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address <i>Dear Trail (Safety Kleen) 10855 E. Hwy 36 Dear Trail, CO 80105</i>					G. State Facility's ID				
10. US EPA ID Number <i>COD991300484</i>					H. Facility's Phone <i>(970) 386-2293</i>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. <i>Hazardous Waste, Solid, n.o.s., 9, NA3077, PG III (D007)</i>						<i>0-01</i>	<i>DT</i>	<i>20</i>	<i>Y</i>
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above <i>a. WLD 13991 SUB 54032</i>						K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <i>In case of emergency call 1-800-468-1760 3E Company ERG # 171</i>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name <i>Curt McCoy for USEPA</i>					Signature <i>Curt McCoy</i>			Date <i>4 15 02</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name <i>Jim Perce</i>					Signature <i>Jim Perce</i>			Date <i>4 15 02</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name					Signature			Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19									
Printed/Typed Name <i>Troy Cooley</i>					Signature <i>Troy Cooley</i>			Date <i>4 15 02</i>	

21
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-5-02

Container # _____
 W/S 13991
 Manifest # 4-05-02-37
 Work Order # 54032
 Trailer # 5

ID 21
 ID 21

82360 LB (M)
 82360 LB (M) Gross
 36140 LB Tare
 46220 LB Net

Driver Jim [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 6 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	<u>[Signature]</u>
23.11	WASTE ACCEPTANCE MGR. <u>Luly Y g</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	DATE	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION CELL	<u>AJ</u>	<u>4-5-02</u>	<u>13:25</u>
TRUCK WASH		<u>[Signature]</u>	<u>13:10</u> <u>13:13</u>
OTHER			

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 4-10-02-38		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number		
4. Generator's Phone (913) 551-7654					B. State Generator's ID		
5. Transporter 1 Company Name Bellio Trucking		6. US EPA ID Number COD983778200		C. State Transporter's ID			D. Transporter's Phone: 303-426-9629
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID			F. Transporter's Phone
9. Designated Facility Name and Site Address Dear Trail (safety Kleen) 10855 E. Hwy 36 Dear Trail, CO 80105		10. US EPA ID Number CCD991300484		G. State Facility's ID			H. Facility's Phone: 970-380-2293
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. Hazardous Waste, Solid, n.o.s., 9, NA3077, PG II (D007)					0.01	DT	20
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above a. WLD 13991 SW 4035 13994					K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information in case of emergency call 1-800-468-1760 3E Company ERG# 171							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Curt McCoy for USEPA					Signature <i>Curt McCoy</i>		Date 4 10 02
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>James Change</i>		Date 4 10 02
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature		Date
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							
Printed/Typed Name 1109 Cooley					Signature <i>[Signature]</i>		Date 04 10 02

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-10-02

Container # 001
 W/S 13991
 Manifest # 4-10-02-38
 Work Order # 54035
 Trailer # 6

72240 LB (M)
 72240 LB (M)
 34800 LB Gross
 Tare
 37440 LB Net

ID 11
 ID 11

Weighed By [Signature]

Driver James ON OFF

Gate Monitor Readings For Radioactivity East 7 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
18 12	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	DATE	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>[Signature]</u>	4-10-02	12:54
<input type="checkbox"/> CELL	A4	4-10-02	12:45
TRUCK WASH		4-10-02	12:16
OTHER			

PM-223 U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KS0046746731		Manifest Document No. 4-10-02-39		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 W. 5th St. Kansas City, KS 66101						A. State Manifest Document Number											
4. Generator's Phone (913) 551-7654						B. State Generator's ID											
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number CO0983778200			C. State Transporter's ID											
7. Transporter 2 Company Name CRMB			8. US EPA ID Number			D. Transporter's Phone											
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) Deer Trail 10855 E. Hwy 36 Deer Trail, CO 80105 Deer Trail						E. State Transporter's ID											
						F. Transporter's Phone											
						G. State Facility's ID											
						H. Facility's Phone											
10. US EPA ID Number CO0991300484																	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit		15. Waste No.					
						No.		Type				Wt/Vol					
						a. <input checked="" type="checkbox"/> HM		1		DT		20		Y			
						b.											
						c.											
16. Additional Descriptions for Materials Listed Above: a. WLD BART 13994						17. Handling Codes for Wastes Listed Above: 30054034											
15. Special Handling Instructions and Additional Information <i>In case of emergency call 1-800-468-1760 SE Company.</i>																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name Curt McCoy for USEPA						Signature <i>C.R. McCoy</i>			Date 4 10 02								
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature <i>Jay Leuch</i>			Date 7 10 02								
Printed/Typed Name JAY Leuch						Signature			Date								
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature			Date								
Printed/Typed Name						Signature			Date								
19. Discrepancy Indication Space																	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.																	
Printed/Typed Name 1104 Cooley						Signature <i>[Signature]</i>			Date 04 10 02								

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-10-02

Container # 1
 W/S 13991
 Manifest # 4-N-02-39
 Work Order # 54034
 Trailer # 12

72460 LB (M)
 Gross
 72460 LB (M) Tare
 34380 LB
 Net
 38080 LB

ID 12
 ID 12

Driver Jay [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 9 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>19.04</u>	WASTE ACCEPTANCE MGR
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>A4</u>	<u>12:32</u>
TRUCK WASH	<u>TLC</u> <u>12:40-52</u>	<u>12:35</u> <u>12:40</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>KS D046746731</i>	Manifest Document No. <i>4-10-02-40</i>		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101</i>					A. State Manifest Document Number				
4. Generator's Phone (<i>913</i>) <i>551-7654</i>					B. State Generator's ID				
5. Transporter 1 Company Name <i>Bellio Trucking</i>			6. US EPA ID Number <i>CO D983778200</i>		C. State Transporter's ID				
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone <i>(303) 420-9668</i>				
9. Designated Facility Name and Site Address <i>Deer Trail (Safety Klean) Deer Trail 10855 E. Hwy 36 Deer Trail, CO 80105</i>			10. US EPA ID Number <i>CO D991300484</i>		E. State Transporter's ID				
					F. Transporter's Phone				
					G. State Facility's ID				
					H. Facility's Phone <i>(303) 380-2295</i>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. <input checked="" type="checkbox"/> HM Hazardous waste, solid, n.o.s., A, NA3077 P6III (D007)					1. OT		20	Y	
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above <i>W 4/10/02 O WLD 13994 SWO 51052 54033</i>					K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information <i>In case of emergency call 1-800-468-1760 BE Company ERG # 171</i>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name <i>Cliff McCoy for USEPA</i>					Signature <i>Cliff McCoy</i>			Date <i>4/10/02</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>[Signature]</i>			Date <i>4/10/02</i>	
Printed/Typed Name <i>[Name]</i>					Signature			Date	
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature			Date	
Printed/Typed Name					Signature			Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.									
Printed/Typed Name <i>1109 Cooley</i>					Signature <i>[Signature]</i>			Date <i>10/4/02</i>	

23
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-10-02

Container # 1
 W/S 13991
 Manifest # 04-10-02-40
 Work Order # 54033
 Trailer # 11

76020 LB (M)
 Gross
 76020 LB (M) Tare
 33860 LB
 Net
 42160 LB

ID 23
 ID 23

Driver Cann [] ON OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 9 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS SIGNATURE

	SAMPLE RECEIVING <u>[Signature]</u>
21.08	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION COMMENTS TIME

<input checked="" type="checkbox"/> SOLIDIFICATION CELL	A 4	TLC	12:23
TRUCK WASH		M	12:30
OTHER			

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KS D046746731	Manifest Document No. 4-10-02-41		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.						
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number							
4. Generator's Phone (913) 551-7654					B. State Generator's ID							
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number CO D983778200		C. State Transporter's ID							
7. Transporter 2 Company Name CRH			8. US EPA ID Number		D. Transporter's Phone (803) 926-9629							
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) Deer Trail 10855 E. Hwy. 36 Deer Trail, CO 80105					E. State Transporter's ID							
10. US EPA ID Number CO D991300484					F. Transporter's Phone							
11. US DOT Description (Use Proper Shipping Name, Hazard Class and ID Number) CRH X Hazardous waste, solid, n.o.s., NA3077 PGIII (D007)					12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
16. Additional Descriptions for Materials Listed Above Q WLD Boat 13994 Sw 54636					K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 BE Company.												
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.												
Printed/Typed Name Chit McCoy for USEPA					Signature <i>Chit McCoy</i>			Date 4/10/02				
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <i>Jim Perce</i>					Signature <i>Jim Perce</i>			Date 04/10/02				
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name					Signature			Date				
19. Discrepancy Indication Space												
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19 Printed/Typed Name roy Cooley					Signature <i>Roy Cooley</i>			Date 04/10/02				

2
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-10-02

Container # 1
 WIS 13994
 Manifest # 4-10-02-41
 Work Order # ~~540300~~ 540300
 Trailer # 67

ID 21
 ID 21

77040 LB (M)
 77040 LB (M)
 35940 LB Gross
 41100 LB Tare
 Net

Driver Spin [] ON [4] OFF

Weighed By D. OB

Gate Monitor Readings For Radioactivity East 8 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>20.55</u>	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
SOLIDIFICATION	<u>2-A</u>	<u>1305</u>
CELL	<u>[Signature]</u>	<u>1307</u>
TRUCK WASH	<u>[Signature]</u>	<u>1310</u>
OTHER		<u>1312</u>

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

KS0046746731

Manifest Document No.

4-10-02-42

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

USEPA - Robert Stewart - Region VII
901 N. 5th St. Kansas City, KS 66101

A. State Manifest Document Number

B. State Generator's ID

4. Generator's Phone (913) 551-7654

5. Transporter 1 Company Name

Bellio Trucking

6. US EPA ID Number

000983778200

C. State Transporter's ID

D. Transporter's Phone (503) 430-9000

7. Transporter 2 Company Name

CRMA

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

Deer Trail (Safety Kleen) Deer Trail
10855 E. Hwy. 36
Deer Trail, CO 80105

10. US EPA ID Number

000991300484

G. State Facility's ID

H. Facility's Phone (970) 380-2293

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)

HM X HAZARDOUS WASTE, SOLID, N.O.S., 9,
NAB077 PGII (0007)

12. Containers

No. Type

1 DT

13. Total Quantity

20

14. Unit

Wt/Vol

Y

Waste No.

J. Additional Descriptions for Materials Listed Above

a WLD 1390H SW-05403A

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

In case of emergency call 1-800-465-1760 3E Company.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

Curt McCay for USEPA

Signature

C.R. McCay

Date

Month Day Year

4 10 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Rowett W Holloway

Signature

Rowett W Holloway

Date

Month Day Year

4 10 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest, except as noted in item 19.

Printed/Typed Name

Dan O'Brien

Signature

D. O'Brien

Month Day Year

10 4 02

16
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-10-02
 75040 LB (M)

Container # 1
 W/S 13994
 Manifest # 4-10-02-4/2
 Work Order # 54037
 Trailer # 9

ID 16 75040 LB (M) Gross
 34040 LB Tare
 41000 LB Net

Driver Ken [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>20.50</u>	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>A-4</u>	<u>15:00</u>
<input type="checkbox"/> CELL	<u>[Signature]</u>	
TRUCK WASH	<u>TIC</u>	<u>15:05</u>
	<u>[Signature]</u>	<u>15:07</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>KSD046746731</i>	Manifest Document No. <i>4-11-02-43</i>		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101</i>					A. State Manifest Document Number				
4. Generator's Phone (<i>913</i>) <i>551-7654</i>					B. State Generator's ID				
5. Transporter 1 Company Name <i>Bellio Trucking</i>			6. US EPA ID Number <i>COD 983978200</i>		C. State Transporter's ID				
7. Transporter 2 Company Name			8. US EPA ID Number		D. State Transporter's Phone <i>(303) 420-902</i>				
9. Designated Facility Name and Site Address <i>Deer Trail (Safety Kleen) Deer Trail 10855 E. Hwy. 36 Deer Trail, CO 80105</i>			10. US EPA ID Number <i>COD 991300484</i>		E. State Facility's ID				
					F. State Facility's Phone <i>(970) 370-2843</i>				
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) <i>CRME</i>					12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. <i>HM</i> <i>X</i> Hazardous waste, solid, n.o.s., 9, <i>NA3077 PGIII (D007)</i>					No. <i>1</i> Type <i>DT</i>		<i>20</i>	<i>Y</i>	
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above <i>a. WLD 13994 SWO 54038</i>					K. Handling Codes for Wastes Listed Above				
15. Special Handling Instructions and Additional Information <i>In case of emergency call 1-800-468-1760 3E Company. ERG # 171</i>									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name <i>Curt McCoy for USEPA</i>					Signature <i>Curt McCoy</i>			Date <i>4/11/02</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>Jim [unclear]</i>			Date <i>4/11/02</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature			Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					Signature <i>Troy Cooley</i>			Date <i>04/11/02</i>	

21

Highway 36 Land Development Company
108555 East Highway 36 HCR-1
Deer Trail, Colorado 80105-9611

Date 4-11-02

Container # 001
W/S 13994
Manifest # 4-11-02-43
Work Order # 54038
Trailer # 5

78040 LB (M)
78040 LB (M)
Gross
35820 LB Tare
42220 LB Net

ID 21
ID 21

Driver Jim [] ON [X] OFF

Weighed By R. OB

Gate Monitor Readings For Radioactivity East 6 West 4

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS

SIGNATURE

	SAMPLE RECEIVING <u>Lady Grog</u>
<u>21.11</u>	WASTE ACCEPTANCE MGR. <u>R. OB</u>
	SECURITY <u>R. OB</u>

SITE TRACKING

LOCATION

COMMENTS

TIME

<input checked="" type="checkbox"/> SOLIDIFICATION	<u>A-3</u>	<u>TLC</u>	<u>14:13</u>
<input type="checkbox"/> CELL			
TRUCK WASH		<u>TJA</u>	<u>14:15</u> <u>14:20</u>
OTHER			

4-11-02 14:05
4-11-02 14:20
4-11-02 14:30

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 4-11-02-44		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number		
4. Generator's Phone (913) 551-7654					B. State Generator's ID		
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number COD983778200		C. State Transporter's ID		
7. Transporter 2 Company Name CRMZ			8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) Deer Trail 108555E. Hwy. 36 Deer Trail, CO 80105					E. State Transporter's ID		
10. US EPA ID Number COD991300484					F. Transporter's Phone		
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number) HM X HAZARDOUS WASTE, SOLID, N.O.S., NA3077 PGIII (D007)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
					1	20	Y
J. Additional Descriptions for Materials Listed Above a. WED 1399H SWO 54041					K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company. ERG #171							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Curt McCoy for USEPA				Signature Curt McCoy		Date 4 11 02	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name BARRY BRANLEY				Signature BARRY BRANLEY		Date 4 11 02	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Clay Cooley							
Signature Clay Cooley				Date 041102		SAFETY-KLEEN CORP.	

U.S. Environmental Protection Agency, Washington, DC 20503

GENERATOR TRANSPORTER FACILITY

6
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-10 ⁴⁻¹¹⁻⁰²

Container # _____ 74460 LB (M)
 WIS 13994 _____ 74460 LB (M)
 Manifest # 4-11-02-44 ID 6 33580 LB Gross
 Work Order # 51041 ID 6 40880 LB Tare
 Trailer # 6 Net
 Driver Benny [] ON [X] OFF Weighed By Jan OB

Gate Monitor Readings For Radioactivity East 5 West 5

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>20.44</u>	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

Benny Brantley
[Signature] **SITE TRACKING** 4-11-02 4:08:25

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>A-3</u>	<u>TIC</u> <u>16:22</u>
TRUCK WASH		<u>16:25</u> <u>16:31</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KS0046746731		Manifest Document No. 4-11-02-45		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address USEPA-Robert Stewart-Region VII 901 N. 5th St. Kansas City, KS 66101						A. State Manifest Document Number							
4. Generator's Phone (913) 551-7654						B. State Generator's ID							
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number CO0983778200			C. State Transporter's ID							
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone: 303-426-9629							
9. Designated Facility Name and Site Address CRMZ Deer Trail (Safety Kleen) Deer Trail 10855 E. Hwy. 36 Deer Trail, CO 80105, Deer Trail COD991300484						E. State Transporter's ID							
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone 970-988-2293							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) CRMZ X HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077 P0III (D007)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a.						1		20		Y			
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above SW 0 SW039 a. WLD 13094						K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company ERG #171													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Curt McCoy for USEPA						Signature <i>C. R. McCoy</i>			Date Month Day Year 4 11 02				
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Kenneth W. Helleway						Signature <i>Kenneth W. Helleway</i>			Date Month Day Year 4 11 02				
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						Signature			Date Month Day Year				
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name roy Coulter						Signature <i>Roy Coulter</i>			Date Month Day Year 10 4 11 02				

16

Highway 36 Land Development Company
108555 East Highway 36 HCR-1
Deer Trail, Colorado 80105-9611

Date 4-11-02

Container # 006
WIS 13994
Manifest # 4-11-02-45
Work Order # 54039
Trailer # 16

74128 LB (M)
33860 LB Gross
40260 LB Tare
Net

IB 16

Driver Ken ON OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING <u>[Signature]</u>
<u>20.13</u>	WASTE ACCEPTANCE MGR <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	DATE	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>A3</u>	<u>4-11-02</u>	<u>14:19</u>
TRUCK WASH		<u>4-11-02</u>	<u>14:20</u>
OTHER			<u>14:22</u>

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **KSD046746731** Manifest Document No. **4-11-02-46**

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
**USEPA - Robert Stewart - Region VII
901 N. 5th St. Kansas City, KS 66101**

4. Generator's Phone (**913**) **551-7654**

5. Transporter 1 Company Name **Bellio Trucking** 6. US EPA ID Number **COD983778200**

7. Transporter 2 Company Name **CRMB** 8. US EPA ID Number

9. Designated Facility Name and Site Address **Deer Trail (Safety Kleen) Deer Trail** 10. US EPA ID Number **COD991300484**

11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)
**HAZARDOUS WASTE, SOLID, N.O.S., 9,
X NA3077 PG III (0007)**

12. Containers No. **1** Type **DT** 13. Total Quantity **20** 14. Unit Wt/Vol **Y** 15. Waste No.

16. Additional Descriptions for Materials Listed Above **a. WLD 1399A SWD 51640**

17. Special Handling Instructions and Additional Information
In case of emergency call 1-800-468-1760 3E Company. ERG # 171

18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

19. Printed/Typed Name **Curt McCoy for USEPA** Signature **Curt McCoy** Date **4/11/02**

20. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name **BARRY BRANLEY** Signature **Barry Branley** Date **4/11/02**

21. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name **Deer Trail** Signature **Deer Trail** Date **4/11/02**

22. Discrepancy Indication Space

23. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name **1109 Cooley** Signature **[Signature]** Date **04/11/02**

23

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-11-02

Container # 001
 W/S 13994
 Manifest # 04-10-02
 Work Order # 54040
 Trailer # 11

72540 LB (M)
 72540 LB (M)
 33960 LB Gross
 Tare
 38590 LB
 Net

Driver Dean [] ON [] OFF

Weighed By Rai OB

Gate Monitor Readings For Radioactivity East 7 West 5

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
19.29	

Dean 4-11-02 4:15

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION CELL	A3	TLC 4:08 P
TRUCK WASH		 16:10 16:12
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KS0046746731	Manifest Document No. 472-02-47		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address USEPA - Stewart, Robert - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number			
4. Generator's Phone (913) 551-7654					B. State Generator's ID			
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number 000983778200		C. State Transporter's ID			
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone 202-426-9624			
9. Designated Facility Name and Site Address CRIS Deer Trail (Safety Kleen) 10855 E. Hwy. 36 Deer Trail, CO 80105, Deer Trail COD991300484					E. State Transporter's ID			
					F. Transporter's Phone			
					G. State Facility's ID			
					H. Facility's Phone 970-386-2293			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. HM X Hazardous waste, solid, n.o.s., 9, NA3077 POTT (0007)					1	20	Y	
b.								
c.								
d.								
J. Additional Descriptions for Materials Listed Above a. WLD BOPA SWO 54043					K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company. ERG #171								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name Curt McCoy for USEPA					Signature <i>Curt McCoy</i>		Date 4/12/02	
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>Jim Pierce</i>		Date 04/12/02	
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature		Date	
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					Signature <i>roy Cooley</i>		Date 04/12/02	

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-12-02

Container # 001
 WIS 13994
 Manifest # 4-12-02-47
 Work Order # 54043
 Trailer # 5

75700 LB (M)
 75700 LB (N) Gross
 35900 LB Tare
 39800 LB Net

ID 21
 ID 21

Driver Jim [] ON OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 7 West 5

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS SIGNATURE

	[Signature]
	SAMPLE RECEIVING
	WASTE ACCEPTANCE MGR [Signature]
	SECURITY [Signature]

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	A-2 TLC	13:11
TRUCK WASH	[Signature]	13:15 13:18
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 4-2-02-48		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number			
4. Generator's Phone (913) 551-7654					B. State Generator's ID			
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number C00983778200		C. State Transporter's ID			
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone (305) 420-762			
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) Deer Trail 10855 E. Hwy. 36 Deer Trail, CO 80105, Deer Trail C00991300484					E. State Transporter's ID			
					F. Transporter's Phone			
					G. State Facility's ID			
					H. Facility's Phone (970) 300-2243			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. HM X HAZARDOUS WASTE, SOLID, n.o.s., 9, NAROTT POLY(D007)					1	DT	20	Y
b.								
c.								
d.								
15. Additional Descriptions for Materials Listed Above GRIND 13004 SWO 51040					K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company. ERG #171								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name Curt McCoy for USEPA					Signature <i>Curt McCoy</i>		Date 4/12/02	
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>Jay Leach</i>		Date 4/12/02	
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature		Date	
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					Signature <i>Troy Cooley</i>		Date 4/12/02	

12
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-12-02

Container # 001
 W/S 13994
 Manifest # 4-12-02-48
 Work Order # 51040
 Trailer # 81

73960 LB (M)
 73960 LB (M) Gross
 34480 LB Tare
 39480 LB Net

ID 12
 ID 12

Driver Jay [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 9 West 6

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	[Signature]
	SAMPLE RECEIVING
	WASTE ACCEPTANCE MGR. [Signature]
	SECURITY [Signature]

SITE TRACKING

Handwritten 4-12-02 11:00
 4-12-02 13:00

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION CELL	A-3	13:55
TRUCK WASH		14:00 14:05
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>KSD046746731</i>	Manifest Document No. <i>4-12-02-49</i>		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address <i>USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101</i>					A. State Manifest Document Number								
4. Generator's Phone (<i>913</i>) <i>551-7654</i>					B. State Generator's ID								
5. Transporter 1 Company Name <i>Bellio Trucking</i>		6. US EPA ID Number <i>C00983778200</i>		C. State Transporter's ID			D. Transporter's Phone <i>(303) 426-9029</i>						
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID			F. Transporter's Phone						
9. Designated Facility Name and Site Address <i>CRM 3 Deer Trail (Safety Kleen) Deer Trail 10855 E. Hwy. 36 Deer Trail, CO 80105, Deer Trail <i>COD991300484</i></i>					G. State Facility's ID			H. Facility's Phone <i>(970) 876-2293</i>					
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)					12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.		
a. <i>HM</i> <i>X</i> <i>HAZARDOUS WASTE, SOLID, n.o.s., A, NA3577 PGIII (D007)</i>					No. <i>1</i> Type <i>DT</i>		<i>20</i>		<i>Y</i>				
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above <i>G-WLD BQAH SLD 54042</i>					K. Handling Codes for Wastes Listed Above								
15. Special Handling Instructions and Additional Information <i>In case of emergency call 1-800-468-1760 3E Company. ERG # 171</i>													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name <i>Curt McCoy for USEPA</i>					Signature <i>C.R. McCoy</i>			Date <i>4/12/02</i>					
17. Transporter 1 Acknowledgement of Receipt of Materials					Printed/Typed Name <i>JAMES CHANCE</i>			Signature <i>[Signature]</i>		Date <i>4/12/02</i>			
18. Transporter 2 Acknowledgement of Receipt of Materials					Printed/Typed Name			Signature		Date			
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					Printed/Typed Name <i>roy Cooley</i>			Signature <i>[Signature]</i>			Date <i>04/12/02</i>		

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-12-02

Container # 001
 W/S 13994
 Manifest # 4-12-02-49
 Work Order # 54042
 Trailer # 6

71760 LB (M)
 71760 LB (M)
 34840 LB Gross
 36920 LB Tare
 Net

ID 11
 ID 11

Driver James [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 8

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS SIGNATURE

	SAMPLE RECEIVING <u>[Signature]</u>
	WASTE ACCEPTANCE MGR. <u>[Signature]</u>
	SECURITY <u>[Signature]</u>

SITE TRACKING

LOCATION COMMENTS TIME

<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>A2</u>	<u>TEC</u>	<u>13:08</u>
TRUCKWASH		<u>TEC</u>	<u>13:10</u>
OTHER			<u>13:12</u>

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KS0046746731	Manifest Document No. 4-12-02-50		2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number	
4. Generator's Phone (913) 551-7654					B. State Generator's ID	
5. Transporter 1 Company Name Bellio Trucking		6. US EPA ID Number COD983778200		C. State Transporter's ID		
7. Transporter 2 Company Name CRNA		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) Deer Trail 10855 E. Hwy. 36 Deer Trail, CO 80105					E. State Transporter's ID	
10. US EPA ID Number COD991300484					F. Transporter's Phone 303-426-9213	
11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number) CRNA					G. State Facility's ID	
					H. Facility's Phone (970) 386-2293	
12. Containers						13. Total Quantity
No. Type						Unit
						Wt/Vol
						Waste No.
a. X Hazardous waste, solid, n.o.s., a, HAZ077 P011 (D007)						1
b.						DT
c.						20
d.						Y
Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above
0 WLD BQAHT SWG 54044						
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E Company. ERG #111						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Curt McCoy for USEPA				Signature <i>Curt McCoy</i>		Date 4/12/02
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Mike Finn</i>		Date 4/13/02
Printed/Typed Name MIKE FINN				Signature		Date
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Date
Printed/Typed Name				Signature		Date
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name Troy Cooley				Signature <i>Troy Cooley</i>		Date 04/12/02

14
 Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-12-02

Container # 1
 WIS 13994
 Manifest # 4-12-02-50
 Work Order # SWO 54044
 Trailer # 14

75520 LB (N)
 34840 LB Gross
 40680 LB Tare
 Net

ID 14

Driver Mike [] ON [x] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 8 West 7

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS SIGNATURE

	SAMPLE RECEIVING	<u>[Signature]</u>
	WASTE ACCEPTANCE MGR	<u>[Signature]</u>
	SECURITY	<u>[Signature]</u>

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> CELL	<u>[Signature]</u>	<u>1:15:23</u>
TRUCK WASH	<u>[Signature]</u>	<u>1:32:5</u> <u>1:33:0</u>
OTHER		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KSD046746731	Manifest Document No. 4-12-02-51		2. Page 1 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address USEPA - Robert Stewart - Region VII 901 N. 5th St. Kansas City, KS 66101					A. State Manifest Document Number			
4. Generator's Phone (913) 551-7654					B. State Generator's ID			
5. Transporter 1 Company Name Bellio Trucking			6. US EPA ID Number CO0983778200		C. State Transporter's ID			
7. Transporter 2 Company Name CRMB			8. US EPA ID Number		D. Transporter's Phone (303) 926-9628			
9. Designated Facility Name and Site Address Deer Trail (Safety Kleen) Deer Trail 10855 E. Hwy. 36 Deer Trail, CO 80105, Deer Trail CO0991300484			10. US EPA ID Number		E. State Transporter's ID			
					F. Transporter's Phone			
					G. State Facility's ID			
					H. Facility's Phone (970) 386-2293			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077 PGIII (D007)					12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077 PGIII (D007)					1	DT	20	Y
b.								
c.								
d.								
J. Additional Descriptions for Materials Listed Above a. WLD 13994 SW054045					K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information In case of emergency call 1-800-468-1760 3E company. ERG #171								
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
Printed/Typed Name Curt McCoy for USEPA					Signature <i>Curt McCoy</i>		Date 4/12/02	
17. Transporter 1 Acknowledgement of Receipt of Materials								
Printed/Typed Name DAVID CLARK					Signature <i>David Clark</i>		Date 4/12/02	
18. Transporter 2 Acknowledgement of Receipt of Materials								
Printed/Typed Name					Signature		Date	
19. Discrepancy Indication Space								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.								
Printed/Typed Name Croy Cooley					Signature <i>Croy Cooley</i>		Date 04/12/02	

223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

23

Highway 36 Land Development Company
 108555 East Highway 36 HCR-1
 Deer Trail, Colorado 80105-9611

Date 4-12-02

Container # 1
 WIS 13994
 Manifest # 4-12-02-51
 Work Order # 51095
 Trailer # 11

70420 LB (M)
 70420 LB (M) Gross
 33720 LB Tare
 36700 LB Net

ID 23
 ID 23

Driver Dean [] ON [X] OFF

Weighed By [Signature]

Gate Monitor Readings For Radioactivity East 6 West 5

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
 HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	<u>[Signature]</u> SAMPLE RECEIVING
	<u>[Signature]</u> WASTE ACCEPTANCE USER
	<u>[Signature]</u> SECURITY

SITE TRACKING

LOCATION	COMMENTS	TIME
<input checked="" type="checkbox"/> SOLIDIFICATION	<u>[Signature]</u>	<u>4/12/02 1:13:00</u>
<input type="checkbox"/> CELL		
TRUCK WASH		<u>1:30</u>
		<u>1:33</u>
OTHER		

APPENDIX G
Laboratory Sample Analysis

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	TCLP - Cr. Total		TCLP - Pb. Total		REMARKS
46129.149		Ace Services									
SAMPLERS: (Signature)											
C.R. McG											
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION						
-	7/20/02	-	X		S-Q1-032002-P	1	X	X			
-	7/20/02	-	X		S-Q2-032002-P	1	X	X			
-	7/20/02	-	X		S-Q3-032002-P	1	X	X			
-	7/20/02	-	X		S-Q4-032002-P	1	X	X			
-	7/20/02	-	X		S-Q4-032002-D	1	X	X			
-	7/20/02	-	X		S-Q4-032002-MS/MSD	1	X	X			
-	7/20/02	-	X		S-Q5-032002-P	1	X	X			
-	7/20/02	-	X		S-Q6-032002-P	1	X	X			
C.R. McG											
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)	
C.R. McG		7/20/02 17:20		UPS C.R. McG							
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)	
Relinquished by: (Signature)		Date/Time		Received To Laboratory by: (Signature)		Date/Time		Remarks			
						7/20/02 10:00		(785) 462-7441 1.8°C Attn: MIKE WOOLFER			



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

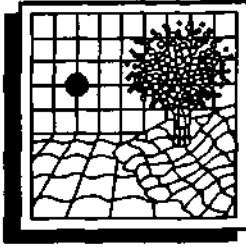
SUMMARY OF DATA CONTAINED IN THIS SUBMITTAL

SWLO SDG: 49100
EPISODE #: 49100

FULL DATA PACKAGES
CONTAIN 36 PAGES

SUMMARY DATA PACKAGES
CONTAIN — PAGES

SIGNATURE Kurtin Mather
DATE SHIPPED 3-25-02



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

March 25, 2002

Gary Felkner
BLACK & VEATCH SPECIAL PROJECTS
6601 College Blvd.
Overland Park, KS 66211

PROJECT: ACE SERVICES
SDG: 49100
SWLO ID: 49100.01 – 49100.09

Dear Mr. Felkner:

Enclosed please find the Level III forms package and electronic deliverable for a portion of the samples received March 21, 2002 for the above-referenced project.

Thank you for choosing Southwest Labs. If you should have any questions or require additional information, please do not hesitate to call.

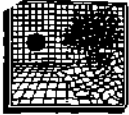
Sincerely,

Randy Staggs
Project Officer

RES/mc

Enclosures

"We certify that the following report meets all required NELAC reporting standards as specified in NELAC 5.13, July 1, 1999. Any deviation or variance is noted in the case narrative(s). Estimated uncertainties regarding these analyses are presented in the Quality Control Section of this report."



COOLER RECEIPT / SAMPLE LOG-IN SHEET

COOLER RECEIPT / SAMPLE LOG-IN SHEET (115-ATT2.WB1) / SWL-GA-115 REV 5.0 / GA-115-CRLOGIN-F

LAB NAME: SOUTHWEST LABORATORY OF OKLAHOMA

PAGE 1 OF 1

RECEIVED BY (PRINT NAME): JASON SPRIGGS

REC'D DATE 02/21/02

RECEIVED BY (SIGNATURE):

TIME REC'D 10:00

LOGGED IN BY (SIGNATURE):

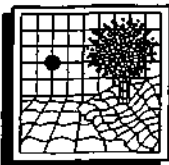
LOG-IN DATE 2002-03-21 11:19

PROJECT: ACE SERVICES	Client Sample #	Sample Fraction @	Assigned LAB#	Cooler I.D.	pH Check	ACID/BASE LOT#	REMARKS: CONDITION OF SAMPLE OF SAMPLE SHIPMENT, ETC.
EPISODE: 49100							
SAMPLE DELIVERY GROUP: 49100							
Remarks	S-Q1-032002-P	<i>I in</i>	49100.01	03/21/02-1	N		1.8c
1. CUSTODY SEAL(S): <u>Present/Absent</u> <u>Intact/ Broken</u>	S-Q2-032002-P		49100.02	03/21/02-1	N		1.8c
2. CUSTODY SEALS NOS.: <u>N/A</u>	S-Q3-032002-P		49100.03	03/21/02-1	N		1.8c
	S-Q4-032002-P		49100.04	03/21/02-1	N		1.8c
	S-Q4-032002-P		49100.05	03/21/02-1	N		1.8c
3. CHAIN-OF CUSTODY. <u>Present/Absent</u> Sealed In Plastic? <u>Yes/ No</u> Taped To Lid? <u>Yes/ No</u> Properly Filled Out (Ink, Signed, ETC.)? <u>Yes/ No</u>	S-Q4-032002-P		49100.06	03/21/02-1	N		1.8c
	S-Q4-032002-D		49100.07	03/21/02-1	N		1.8c
	S-Q5-032002-P		49100.08	03/21/02-1	N		1.8c
4. AIRBILL <u>AirBill/ Sticker</u> <u>Present/Absent</u>	S-Q6-032002-P	<i>V</i>	49100.09	03/21/02-1	N		1.8c
5. AIRBILL NO: <u>1Z690X130110063145</u>							
6. COOLER CONDITIONS Enough Ice? <u>Yes/ No</u> Type of Ice? <u>Wet</u> Type of Packing? <u>None</u>							
7. SAMPLE TAGS <u>Present/Absent</u>							
8. SAMPLE CONDITION: <u>Intact/ Broken*/</u> Bottles Sealed In <u>Leaking</u> Separate Plastic Bags? <u>Yes/ No</u> Correct Containers Used For Tests Indicated? <u>Yes/ No</u> Correct Preservative? <u>Yes/ No</u> Sufficient Sample? <u>Yes/ No</u> Labels Complete (I.D., Date, Time, Signature, Preservative)? <u>Yes/ No</u> VOA Samples Without Bubbles? <u>Yes/ No</u>							
9. Does Information on Custody Records, Labels, Tags Agree? <u>Yes/No*</u>							
10. RAD SCREEN WITH GIEGER COUNTER? <u>Yes/ No</u>							
11. P.O. Called? <u>Yes/ No</u>							

* Contact PO and attach record of resolution

@ Sample Fractions: B=SV GC/MS, V= VOA GC/MS or GC. P=Pesticide, H=Herbicide, D=Dioxin, A=Air, I=Inorganics, C=Cyanide, M=Metals, R=Radiochemistry

- Note samples with bubbles under remarks section.



SWLO Qualifier Flags

GENERAL
ADMINISTRATIVE

SWL-GA-132 Rev. 4.4 File ID: GA132A9a

DATA QUALIFIER DEFINITIONS

METHODOLOGY

- SM = Standard Methods, 19th Edition, 1995
EPA = #EPA600 / 4-79-020, March 1985
SW = EPA Methodology, "#SW846", Final Update III, June, 1997

GENERAL QUALIFIER FLAGS

- B = Analyte is detected in blank as well as sample
J = Estimated value: concentration is below limit of quantitation
T = Trace amount
U = Not detected
> = Concentration greater than value reported
E = Compound exceeds calibration range
D = Sample dilution run or surrogates diluted out
Sample run at secondary dilution
I = Not quantifiable due to matrix interference
* = Surrogate outside of QC limits on both original and re-analysis
P = Pesticide Aroclor Flag used when the % difference between two GC columns exceeds specified amount. See Case Narrative.

TPH 8015

- 1 = Analysis shows miscellaneous peaks, which cannot be identified as any specific pattern. Response factor for nearest eluting hydrocarbon standard was used to calculate concentration.
2 = Pattern is similar to, but not identical to standard.
3 = May be a weathered gasoline.

APPENDIX IX SEMIVOLATILES

- 1 = Detected as Diphenylamine
2 = Coelute on GC Column

TCLP SEMIVOLATILES

- 1 = 1-methyl phenol
2 = Compounds Co-elute (3 & 4-methylphenol)
3 = Combination of O, M, & P Cresols

DIOXINS

- X = EMPC (Estimated Maximum Possible Concentration)
I* = EMPC - ether interference

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany / Broken Arrow, OK 74012 / Office (918) 251-2858 / Fax (918) 251-2599

CASE NARRATIVE

CONTRACT: B&VSP-KC

DATE: March 25, 2002

Case No.: 49100

PROJECT NAME: ACE SERVICES

SDG #: 49100

EPISODE #: 49100

INORGANIC METAL FRACTION:

Seven soil samples were submitted for TCLP extraction followed by lead and chromium analysis. No major problems occurred during the digestion or analysis of these samples. Please see the *Cooler Receipt/Sample Log-In Sheet* for sample conditions and cooler temperatures at receipt. The sample's analyses were completed according to the following:

SWL SOP #

SWL-IN-700

SWL-IN-205

Method SOP is based

SW846 1311 TCLP Extraction

SW 846 3010A and 6010B ICP Digestion & Analysis

The cover page of the Inorganic Analyses Data Package cross-references client and laboratory sample ID's. Manual integration was not used for the data presented in this Inorganic Analyses Data Package.

Initial and Continuing Calibration Checks: No problems.

Initial and Continuing Calibration Blanks: All blanks had values less than the MDL.

Linearity near the CRDL (CRA & CRI): All elements were within our in-house QC limits of 80-120%.

Preparation Blank: The preparation blank had a value greater than the MDL, but less than the PQL. The TCLP tumble blank for chromium had a value greater than the MDL, but less than the PQL. No action required.

Lab Control Spikes: All laboratory control samples were within QC limits.

Matrix Spikes: The matrix spike and matrix spike duplicate were outside the 75 – 125% control limits for chromium. A post-digestion spike was analyzed and all Form 1's are flagged with a "N" flag for chromium.

Duplicates: All duplicate results were within the precision control limits of 20%.

Serial Dilution: Chromium was outside of control limits for the serial dilution. All Form 1's are flagged with an "E" flag for chromium.

"I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and its electronic data deliverable submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Sincerely,



Steve L. Markham
Inorganic Program Manager



SWLO Qualifier Flags

GENERAL
ADMINISTRATIVE

DATA QUALIFIER DEFINITIONS

INORGANICS

B	The reported values were obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL); if the analyte was analyzed but not detected a "U" must be entered.
E	The reported value is estimated because of the presence of interference. An explanatory note must be included under "Comment" on the Cover Page if the problem applies to all samples or on the specific Form 1 if it is an isolated problem.
M	Duplicate injection precision not met.
N	Spike recovery not within control limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
W	Post-Digestion spike for GFAA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SOUTHWEST LABORATORIES____ Contract: B&VSP-KC____
 Lab Code: SWOK____ Case No.: 49100 SAS No.: _____ SDG No.: 49100____
 SOW No.: SW846____

EPA Sample No.	Lab Sample ID
SQ1032002P	49100.01
SQ2032002P	49100.02
SQ3032002P	49100.03
SQ4032002D	49100.07
SQ4032002P	49100.04
SQ5032002P	49100.08
SQ6032002P	49100.09
SQ4032002PS	49100.05S
SQ4032002PM	49100.06SD
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Were ICP interelement corrections applied ? Yes/No YES
 Were ICP background corrections applied ? Yes/No YES
 If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:
 ICP = BATCH ID NUMBER 020322TI1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Steve L. Markham Name: Steve L. Markham
 Date: 03/25/02 Title: Inorganics Program Manager

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

SQ1032002P

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49100 SAS No.: SDG No.: 49100
 Matrix (soil/water): WATER Lab Sample ID: 49100.01
 Level (low/med): LOW Date Received: 03/21/02
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2760		EN	P
7439-92-1	Lead	25.7			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 TCLP_EXTRACT

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

SQ2032002P

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49100 SAS No.: SDG No.: 49100
 Matrix (soil/water): WATER Lab Sample ID: 49100.02
 Level (low/med): LOW Date Received: 03/21/02
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	4260	-	EN	P
7439-92-1	Lead	10.8	-	-	P
			-		
			-		
			-		
			-		
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Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: TCLP_EXTRACT

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

SQ3032002P

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49100 SAS No.: SDG No.: 49100
 Matrix (soil/water): WATER Lab Sample ID: 49100.03
 Level (low/med): LOW Date Received: 03/21/02
 Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	912	-	EN	P
7439-92-1	Lead	3.1	U		P

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 TCLP_EXTRACT

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

SQ4032002D

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
 Lab Code: SWOK _____ Case No.: 49100 SAS No.: _____ SDG No.: 49100 _____
 Matrix (soil/water): WATER _____ Lab Sample ID: 49100.07 _____
 Level (low/med): LOW _____ Date Received: 03/21/02 _____
 % Solids: _____ 0.0 _____

Concentration Units (ug/L or mg/kg dry weight): UG/L _____

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1050		EN	P
7439-92-1	Lead	16.7			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____
 Color After: COLORLESS Clarity After: CLEAR _____ Artifacts: _____

Comments:
 TCLP_EXTRACT _____

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

SQ4032002P

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
Lab Code: SWOK Case No.: 49100 SAS No.: SDG No.: 49100
Matrix (soil/water): WATER Lab Sample ID: 49100.04
Level (low/med): LOW Date Received: 03/21/02
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	773		EN	P
7439-92-1	Lead	20.9			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____
Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
TCLP_EXTRACT

1
 INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

SQ5032002P

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49100 SAS No.: SDG No.: 49100
 Matrix (soil/water): WATER Lab Sample ID: 49100.08
 Level (low/med): LOW Date Received: 03/21/02
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1350		EN	P
7439-92-1	Lead	49.2			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 TCLP_EXTRACT

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

SQ6032002P

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
Lab Code: SWOK Case No.: 49100 SAS No.: SDG No.: 49100
Matrix (soil/water): WATER Lab Sample ID: 49100.09
Level (low/med): LOW Date Received: 03/21/02
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	528		EN	P
7439-92-1	Lead	48.8			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____
Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
TCLP_EXTRACT

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: SOUTHWEST LABORATORIES___ Contract: B&VSP-KC___
Lab Code: SWOK___ Case No.: 49100 SAS No.: _____ SDG No.: 49100___
Initial Calibration Source: EPA-LV___
Continuing Calibration Source: IN.VEN._____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Chromium	100.0	100.30	100.3	500.0	502.42	100.5	462.51	92.5	P
Lead	250.0	253.03	101.2	500.0	509.81	102.0	467.81	93.6	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK

Case No.: 49100

SAS No.: _____

SDG No.: 49100

Initial Calibration Source: EPA-LV

Continuing Calibration Source: IN.VEN.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chromium	100.0	99.84	99.8	500.0	497.12	99.4	486.54	97.3	P
Lead	250.0	248.83	99.5	500.0	497.48	99.5	481.55	96.3	P

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: SOUTHWEST LABORATORIES____ Contract: B&VSP-KC____
 Lab Code: SWOK____ Case No.: 49100 SAS No.: _____ SDG No.: 49100____
 AA CRDL Standard Source: _____
 ICP CRDL Standard Source: IN.VEN._____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Chromium				5.0	4.94	98.8		
Lead				10.0	11.11	111.1		

2B
 CRDL STANDARD FOR AA AND ICP

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
 Lab Code: SWOK _____ Case No.: 49100 SAS No.: _____ SDG No.: 49100 _____
 AA CRDL Standard Source: _____
 ICP CRDL Standard Source: IN.VEN. _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Chromium				5.0	5.40	108.0		
Lead				10.0	9.00	90.0		

3
BLANKS

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
 Lab Code: SWOK _____ Case No.: 49100 SAS No.: _____ SDG No.: 49100 _____
 Preparation Blank Matrix (soil/water): WATER
 Preparation Blank Concentration Units (ug/L or mg/kg): UG/L _____

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	C		1	C	2	C	3	C	C		
Chromium	0.9	U	0.9	U	0.9	U			0.90	U	P
Lead	3.1	U	3.1	U	3.1	U			3.10	U	P

3
BLANKS

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____

Lab Code: SWOK _____ Case No.: 49100 SAS No.: _____ SDG No.: 49100

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C	C		
Chromium	0.9	U	0.9	U	0.9	U			2.71	B	P
Lead	3.1	U	3.1	U	3.1	U			3.10	U	P

ICP INTERFERENCE CHECK SAMPLE

Lab Name: SOUTHWEST LABORATORIES____ Contract: B&VSP-KC____
 Lab Code: SWOK____ Case No.: 49100 SAS No: _____ SDG No.: 49100____
 ICP ID Number: TJA ET3____ ICS Source: EPA-LV91____

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Chromium	0	500	1	464.4	92.9	0		
Lead	0	50	-3	48.7	97.4			

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
 Lab Code: SWOK _____ Case No.: 49100 SAS No: _____ SDG No.: 49100 _____
 ICP ID Number: TJA ET3 _____ ICS Source: EPA-LV91 _____

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Chromium	0	500	0	464.9	93.0	0		
Lead	0	50	1	45.9	91.8			

5A
SPIKE SAMPLE RECOVERY

Client SAMPLE ID

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

SQ4032002PM

Lab Code: SWOK Case No.: 49100

SAS No.: SDG No.: 49100

Matrix: WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)		Sample Result (SR)		Spike Added (SA)	%R	Q	M
Chromium	75-125	1069.3770		773.0100		200.00	148.2	N	P
Lead	75-125	534.0450		20.8850		500.00	102.6		P

Comments:
TCLP_EXTRACT

5A
SPIKE SAMPLE RECOVERY

Client SAMPLE ID

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

SQ4032002PS

Lab Code: SWOK
Matrix: WATER

Case No.: 49100

SAS No.:

SDG No.: 49100

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Chromium	75-125	1041.0730	773.0100	200.00	134.0	N	P
Lead	75-125	531.5520	20.8850	500.00	102.1		P

Comments:
TCLP_EXTRACT

5B
POST DIGEST SPIKE SAMPLE RECOVERY

Client SAMPLE ID

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____ SQ4032002PA
 Lab Code: SWOK _____ Case No.: 49100 SAS No.: _____ SDG No.: 49100
 Matrix: _____ WATER _____ Level (low/med): LOW _____

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Added (SA)	%R	Q	M
Chromium		2298.18	773.01	1545.0	98.7		P
Lead							NR

Comments:
TCLP_EXTRACT

6
 DUPLICATES

CLIENT SAMPLE ID

LCSWD

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK

Case No.: 49100

SAS No.:

SDG No.: 49100

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)		Duplicate (D)		RPD	Q	M
Chromium		205.6910		199.9810		2.8		P
Lead		512.8790		495.8230		3.4		P

6
DUPLICATES

CLIENT SAMPLE ID

SQ4032002PM

Lab Name: SOUTHWEST LABORATORIES__

Contract: B&VSP-KC__

Lab Code: SWOK__

Case No.: 49100

SAS No.: _____

SDG No.: 49100__

Matrix (soil/water): WATER

Level (low/med): _LOW_

% Solids for Sample: __0.0

% Solids for Duplicate: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L__

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Chromium		1041.0730		1069.3770		2.7		P
Lead		531.5520		534.0450		0.5		P

7
LABORATORY CONTROL SAMPLE

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
Lab Code: SWOK Case No.: 49100 SAS No.: SDG No.: 49100
Solid LCS Source:
Aqueous LCS Source: CPI/H.PUR

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Chromium	200.00	205.69	102.8					
Lead	500.00	512.88	102.5					

7
LABORATORY CONTROL SAMPLE

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
Lab Code: SWOK _____ Case No.: 49100 SAS No.: _____ SDG No.: 49100 _____
Solid LCS Source: _____
Aqueous LCS Source: CPI/H.PUR _____

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Chromium	200.00	199.98	99.99					
Lead	500.00	495.82	99.16					

8
STANDARD ADDITION RESULTS

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK

Case No.: 49100

SAS No.:

SDG No.: 49100

Concentration Units: ug/L

EPA Sample No.	An	0 ADD		1 ADD		2 ADD		3 ADD		Final Conc.	r	Q
		CON	ABS	CON	ABS	CON	ABS	CON	ABS			

9
ICP SERIAL DILUTION

Client SAMPLE ID

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
Lab Code: SWOK _____ Case No.: 49100 SAS No.: _____ SDG No.: 49100
Matrix (soil/water): WATER Level (low/med): LOW _____

SQ4032002PL

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	Difference	Q	M
Chromium	773.01	946.22	22.4	E	P
Lead	20.88	24.18	15.8		P

10
 Instrument Detection Limits (Quarterly)

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49100 SAS No.: _____ SDG No.: 49100
 ICP ID Number: TJA_ET3 Date: 12/07/01
 Flame AA ID Number : _____
 Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Chromium	267.72		5	0.9	P
Lead	220.35		10	3.1	P

Comments : _____

11A
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST_LABORATORIES____ Contract: B&VSP-KC____
 Lab Code: SWOK____ Case No.: 49100 SAS No.: _____ SDG No.: 49100____
 ICP ID Number: TJA ET3_____ Date: 06/08/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	AS_
Chromium_	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead_	220.35	-0.0001280	0.0000000	0.0004080	0.0000000	0.0000000

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
Lab Code: SWOK _____ Case No.: 49100 SAS No.: _____ SDG No.: 49100 _____
ICP ID Number: TJA ET3 _____ Date: 06/08/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CA_	CD_	CO_	CR_	CU_
Chromium_	267.72	0.0000100	0.0000000	0.0000000	0.0000000	0.0000000
Lead_	220.35	-0.0000120	-0.0000000	-0.0002470	-0.0000000	-0.0000000

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____

Lab Code: SWOK _____ Case No.: 49100 SAS No.: _____ SDG No.: 49100 _____

ICP ID Number: TJA ET3 _____ Date: 06/08/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		MN_	MO_	NI_	SB_	TI_
Chromium	267.72	0.0001710	-0.0002990	0.0000830	0.0000000	0.0000000
Lead	220.35	0.0000000	-0.0008670	0.0004850	0.0000000	-0.0007590

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
Lab Code: SWOK _____ Case No.: 49100 SAS No.: _____ SDG No.: 49100 _____
ICP ID Number: TJA ET3 _____ Date: 06/08/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		TL_	V_	ZN_	_____	_____
Chromium	267.72	-0.0000000	-0.0000000	-0.0000000		
Lead	220.35	-0.0000000	-0.0000000	-0.0004590		

Comments:

12
ICP Linear Ranges (Quarterly)

Lab Name: SOUTHWEST LABORATORIES___ Contract: B&VSP-KC___
Lab Code: SWOK___ Case No.: 49100 SAS No.: _____ SDG No.: 49100___
ICP ID Number: TJA ET3____ Date: 03/12/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Chromium	15.00	80000.0	P
Lead	15.00	60000.0	P

Comments:

13
PREPARATION LOG

Lab Name: SOUTHWEST LABORATORIES_____ Contract: B&VSP-KC_____
Lab Code: SWOK_____ Case No.: 49100_____ SAS No.: _____ SDG No.: 49100_____
Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	03/22/02		50
LCSWD	03/22/02		50
PBW	03/22/02		50
PBWT	03/22/02		50
SQ1032002P	03/22/02		50
SQ2032002P	03/22/02		50
SQ3032002P	03/22/02		50
SQ4032002D	03/22/02		50
SQ4032002P	03/22/02		50
SQ4032002PM	03/22/02		50
SQ4032002PS	03/22/02		50
SQ5032002P	03/22/02		50
SQ6032002P	03/22/02		50

14
ANALYSIS RUN LOG

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK Case No.: 49100

SAS No.: SDG No.:49100

Instrument ID Number: TJA ET3

Method: P

Start Date: 03/25/02

End Date: 03/25/02

Client Sample No.	D/F	Time	% R	Analytes																
				C	P															
S0	1	0723		X	X															
S	1	0729		X	X															
S	1	0734		X	X															
ICV	1	0739		X	X															
ICB	1	0745		X	X															
CRI	1	0750		X	X															
ICSA	1	0756		X	X															
ICSAB	1	0801		X	X															
CCV	1	0807		X	X															
CCB	1	0812		X	X															
SQ4032002P	1	0818		X	X															
SQ4032002PL	5	0823		X	X															
SQ4032002PS	1	0828		X	X															
SQ4032002PM	1	0834		X	X															
SQ4032002D	1	0840		X	X															
SQ5032002P	1	0845		X	X															
SQ6032002P	1	0851		X	X															
SQ4032002PA	1	0856		X																
ZZZZZZ	1	0910																		
CCV	1	0916		X	X															
CCB	1	0921		X	X															



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

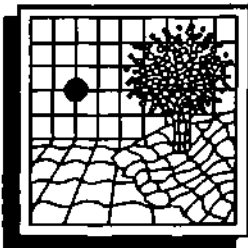
SUMMARY OF DATA CONTAINED IN THIS SUBMITTAL

SWLO SDG: 49334
EPISODE #: 49334

FULL DATA PACKAGES
CONTAIN 43 PAGES

SUMMARY DATA PACKAGES
CONTAIN — PAGES

SIGNATURE Krista Mewner
DATE SHIPPED 4/18/02



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

April 18, 2002

Curt McCoy
BLACK & VEATCH SPECIAL PROJECTS
6601 College Blvd.
Overland Park, KS 66211

PROJECT: ACE SERVICES
SDG: 49334
SWLO ID: 49334.01

Dear Mr. McCoy:

Enclosed please find the Level III forms package and B & V electronic deliverable for your samples received April 12, 2002 for the above-referenced project.

Thank you for choosing Southwest Labs. If you should have any questions or require additional information, please do not hesitate to call.

Sincerely,



Randy Staggs
Project Officer

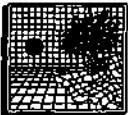
RS/mc

Enclosures

"We certify that the following report meets all required NELAC reporting standards as specified in NELAC 5.13, July 1, 1999. Any deviation or variance is noted in the case narrative(s). Estimated uncertainties regarding these analyses are presented in the Quality Control Section of this report."

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	REMARKS			
46129		ACE SERVICES					<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP-CR</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TOTAL CR</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP-PL6</div> </div>			
SAMPLERS: (Signature) C.R. McElroy										
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION					
-	4/11/02	-	X	-	S-CELL6-041102-P	1	X	X	X	- 5 day turnaround
C.R. McElroy										
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)
C.R. McElroy		4/11/02 17:15		UPS C.R. McElroy						
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)
Relinquished by: (Signature)		Date/Time		Received for Laboratory by (Signature)		Date/Time		Remarks		
						4/12/02 9:30		- Please send results to Ken Wyatt (913) 458-6506		



COOLER RECEIPT / SAMPLE LOG-IN SHEET

COOLER RECEIPT / SAMPLE LOG-IN SHEET (115-ATT2.WB1) / SWL-GA-115 REV 5.0 / GA-115-CRLOGIN-F

LAB NAME: SOUTHWEST LABORATORY OF OKLAHOMA

PAGE 1 OF 1

RECEIVED BY (PRINT NAME): JASON SPRIGGS

REC'D DATE 04/12/02

RECEIVED BY (SIGNATURE): *[Signature]*

TIME REC'D 08:45

LOGGED IN BY (SIGNATURE): *[Signature]*

LOG-IN DATE 2002-04-12 11:05

PROJECT: ACE SERVICES	Client Sample #	Sample Fraction	Assigned LAB#	Cooler I.D.	pH Check	ACID/ BASE LOT#	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
EPISODE: 49334							
SAMPLE DELIVERY GROUP: 49334							
Remarks	S-CELL6-041102-P	I, M	49334.01	04/11/02-1	N		8.6c
1. CUSTODY SEAL(S): <u>Present/Absent</u> <u>Intact/ Broken</u>							
2. CUSTODY SEALS NOS.: N/A							
3. CHAIN-OF CUSTODY. <u>Present/Absent</u> Sealed In Plastic? <u>Yes/ No</u> Taped To Lid? <u>Yes/ No</u> Property Filled Out (Ink, Signed, ETC.)? <u>Yes/ No</u>							
4. AIRBILL <u>AirBill/ Sticker</u> <u>Present/Absent</u>							
5. AIRBILL NO: 1Z690X130110063556							
6. COOLER CONDITIONS Enough Ice? <u>Yes/ No</u> Type of Ice? <u>Wet</u> Type of Packing? <u>COTTON</u>							
7. SAMPLE TAGS <u>Present/Absent</u>							
8. SAMPLE CONDITION: <u>Intact/ Broken*/ Leaking</u> Bottles Sealed In Separate Plastic Bags? <u>Yes/ No</u> Correct Containers Used For Tests Indicated? <u>Yes/ No</u> Correct Preservative? <u>Yes/ No</u> Sufficient Sample? <u>Yes/ No</u> Labels Complete (I.D., Date, Time, Signature, Preservative)? <u>Yes/ No</u> VOA Samples Without Bubbles? <u>Yes/ No</u>							
9. Does Information on Custody Records, Labels, Tags Agree? <u>Yes/ No*</u>							
10. RAD SCREEN WITH GIEGER COUNTER? <u>Yes/ No</u>							
11. P.O. Called? <u>Yes/ No</u>							

* Contact PO and attach record of resolution

@ Sample Fractions: B=SV GC/MS, V= VOA GC/MS or GC, P=Pesticide, H=Herbicide, D=Dioxin, A=Air, I=Inorganics, C=Cyanide, M=Metals, R=Radiochemistry

- Note samples with bubbles under remarks section.



SWLO Qualifier Flags

GENERAL
ADMINISTRATIVE

SWL-GA-132 Rev. 4.4 File ID: GA132A9a

DATA QUALIFIER DEFINITIONS

METHODOLOGY

- SM = Standard Methods, 19th Edition, 1995
EPA = #EPA600 / 4-79-020, March 1985
SW = EPA Methodology, "#SW846", Final Update III, June, 1997

GENERAL QUALIFIER FLAGS

- B = Analyte is detected in blank as well as sample
J = Estimated value: concentration is below limit of quantitation
T = Trace amount
U = Not detected
> = Concentration greater than value reported
E = Compound exceeds calibration range
D = Sample dilution run or surrogates diluted out
Sample run at secondary dilution
I = Not quantifiable due to matrix interference
* = Surrogate outside of QC limits on both original and re-analysis
P = Pesticide Aroclor Flag used when the % difference between two GC columns exceeds specified amount. See Case Narrative.

TPH 8015

- 1 = Analysis shows miscellaneous peaks, which cannot be identified as any specific pattern. Response factor for nearest eluting hydrocarbon standard was used to calculate concentration.
2 = Pattern is similar to, but not identical to standard.
3 = May be a weathered gasoline.

APPENDIX IX SEMIVOLATILES

- 1 = Detected as Diphenylamine
2 = Coelute on GC Column

TCLP SEMIVOLATILES

- 1 = 1-methyl phenol
2 = Compounds Co-elute (3 & 4-methylphenol)
3 = Combination of O, M, & P Cresols

DIOXINS

- X = EMPC (Estimated Maximum Possible Concentration)
I * = EMPC - ether interference

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany / Broken Arrow, OK 74012 / Office (918) 251-2858 / Fax (918) 251-2599

CASE NARRATIVE

CONTRACT: B&VSP-KC

DATE: April 17, 2002

Case No.: 49334

PROJECT NAME: ACE SERVICES

SDG #: 49334

EPISODE #: 49334

INORGANIC METAL FRACTION:

One soil samples was submitted for TCLP extraction followed by lead and chromium analysis and total chromium analysis. No major problems occurred during the digestion or analysis of these samples. Please see the *Cooler Receipt/Sample Log-In Sheet* for sample conditions and cooler temperatures at receipt. The sample's analyses were completed according to the following:

SWL SOP #

SWL-IN-700

SWL-IN-205

Method SOP is based

SW846 1311 TCLP Extraction

SW 846 3010A/3050B and 6010B ICP Digestion & Analysis

The cover page of the Inorganic Analyses Data Package cross-references client and laboratory sample ID's. Manual integration was not used for the data presented in this Inorganic Analyses Data Package.

Initial and Continuing Calibration Checks: No problems.

Initial and Continuing Calibration Blanks: All blanks had values less than the MDL for lead. Chromium had absolute values greater than the MDL, but less than the PQL. No action required.

Linearity near the CRDL (CRA & CRI): Chromium had a recovery slightly outside our in-house QC limits of 80-120%. This will be monitored to assure no trends are developing.

Preparation Blank: The preparation blank had a values less than the MDL for chromium in the total metals analysis. The preparation blank for chromium on the TCLP batch had a value higher than the MDL, but less than the PQL. The TCLP tumble blank for chromium had a value greater than the PQL, but less than 10 times the sample value. No action required.

Lab Control Spikes: All laboratory control samples were within QC limits.

Matrix Spikes: The matrix spike was outside the 75 - 125% control limits for chromium in the total metals analysis, but the sample value was four times greater than the spike added. The matrix spike duplicate for lead and the matrix spike for lead and chromium were within the 75 - 125% control limits for the TCLP analysis.

Duplicates: All duplicate results were within the precision control limits of 20%.

Serial Dilution: All serial dilution results were within control limits.

Sincerely,



Steve L. Markham
Inorganic Program Manager

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SOUTHWEST LABORATORIES___ Contract: B&VSP-KC___
 Lab Code: SWOK___ Case No.: 49334 SAS No.: _____ SDG No.:49334_
 SOW No.: SW846___

EPA Sample No.	Lab Sample ID
T041102-P	T49334.01
041102-P	49334.01
041102-PS	49334.01S
041102-PM	49334.01SD
T041102-PS	T49334.01S
T041102-PM	T49334.01SD
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Were ICP interelement corrections applied? Yes/No YES
 Were ICP background corrections applied? Yes/No YES
 If yes - were raw data generated before application of background corrections? Yes/No NO

Comments:
 ICP = BATCH_ID_NUMBERS_020415TI1_ & 020415I1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Steve L. Markham Name: Steve L. Markham
 Date: 04/17/02 Title: Inorganics Program Manager

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

T041102-P

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49334 SAS No.: SDG No.: 49334
 Matrix (soil/water): SOIL Lab Sample ID: T49334.01
 Level (low/med): LOW Date Received: 04/12/02
 % Solids: 86.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1320	---	---	P
7439-92-1	Lead		---	---	NR
			---	---	
			---	---	
			---	---	
			---	---	
			---	---	
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Color Before: BROWN Clarity Before: Clarity After: CLEAR Texture: MEDIUM
 Color After: COLORLESS Artifacts:

Comments:
 S-CELL6-041102-P

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

041102-P

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49334 SAS No.: _____ SDG No.: 49334
 Matrix (soil/water): WATER Lab Sample ID: 49334.01
 Level (low/med): LOW Date Received: 04/12/02
 Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	52100	-		P
7439-92-1	Lead	4.2	B		P
			-		
			-		
			-		
			-		
			-		
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Color Before: YELLOW Clarity Before: CLEAR Texture: _____
 Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments:
S-CELL6-041102-P
TCLP_EXTRACT

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____

Lab Code: SWOK _____ Case No.: 49334 SAS No.: _____ SDG No.: 49334 _____

Initial Calibration Source: EPA-LV _____

Continuing Calibration Source: IN.VEN. _____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Chromium	100.0	99.50	99.5	500.0	511.44	102.3	488.02	97.6	P
Lead									NR

FORM II (PART 1) - IN

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK

Case No.: 49334

SAS No.: _____

SDG No.: 49334

AA CRDL Standard Source: _____

ICP CRDL Standard Source: IN.VEN. _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Chromium				5.0	5.37	107.4		
Lead				10.0	10.58	105.8		

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK

Case No.: 49334

SAS No.: _____

SDG No.: 49334

A CRDL Standard Source: _____

ICP CRDL Standard Source: IN.VEN.

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Chromium				5.0	6.03	120.6		
Lead								

3
BLANKS

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK

Case No.: 49334

SAS No.: _____

SDG No.: 49334

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
	C	U	1	C	2	C	3	C	C	U	
Chromium	0.9	U	0.9	U	0.9	U			1.96	B	P
Lead									2.80	U	P

3
BLANKS

Lab Name: SOUTHWEST LABORATORIES_____ Contract: B&VSP-KC_____
Lab Code: SWOK_____ Case No.: 49334 SAS No.: _____ SDG No.: 49334_____
Preparation Blank Matrix (soil/water): WATER
Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Chromium								13.26		P	
Lead								2.80	U	P	

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
 Lab Code: SWOK _____ Case No.: 49334 SAS No: _____ SDG No.: 49334 _____
 ICP ID Number: TJA ET1 _____ ICS Source: EPA-LV91 _____

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Chromium	0	500	0	431.5	86.3	0		
Lead	0	50	-1	44.7	89.4			

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: SOUTHWEST LABORATORIES_____ Contract: B&VSP-KC____
Lab Code: SWOK_____ Case No.: 49334 SAS No: _____ SDG No.: 49334_
ICP ID Number: TJA ET3_____ ICS Source: EPA-LV91_____

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Chromium	0	500	1	459.6	91.9	0		
Lead								

5A
SPIKE SAMPLE RECOVERY

Client SAMPLE ID

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

T041102-PM

Lab Code: SWOK

Case No.: 49334

SAS No.:

SDG No.: 49334

Matrix: SOIL

Level (low/med): LOW

% Solids for Sample: 86.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Chromium		1353.9469	1318.4802	22.92	154.7		P
Lead							NR

Comments:
S-CELL6-041102-P

5A
SPIKE SAMPLE RECOVERY

Client SAMPLE ID

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____ T041102-PS

Lab Code: SWOK _____ Case No.: 49334 SAS No.: _____ SDG No.: 49334 _____

Matrix: SOIL _____ Level (low/med): LOW _____

% Solids for Sample: 86.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Chromium		1322.1201	1318.4802	22.92	15.9		P
Lead							NR

Comments:
S-CELL6-041102-P

5A
SPIKE SAMPLE RECOVERY

Client SAMPLE ID

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

041102-PM

Lab Code: SWOK Case No.: 49334

SAS No.:

SDG No.: 49334

Matrix: WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Chromium		53078.5080		52050.9880		200.00	513.8		P
Lead	75-125	504.9000		4.2430	B	500.00	100.1		P

Comments:
S-CELL6-041102-P
TCLP_EXTRACT

5A
SPIKE SAMPLE RECOVERY

Client SAMPLE ID

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____ 041102-PS
 Lab Code: SWOK _____ Case No.: 49334 SAS No.: _____ SDG No.: 49334 _____
 Matrix: WATER _____ Level (low/med): LOW _____
 % Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Chromium		52245.5310	52050.9880	200.00	97.3		P
Lead	75-125	508.5530	4.2430 B	500.00	100.9		P

Comments:
 S-CELL6-041102-P
 TCLP_EXTRACT

6
DUPLICATES

CLIENT SAMPLE ID

LCSSD

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
 Lab Code: SWOK _____ Case No.: 49334 SAS No.: _____ SDG No.: 49334 _____
 Matrix (soil/water): SOIL _____ Level (low/med): LOW _____
 % Solids for Sample: 100.0 % Solids for Duplicate: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Chromium		18.1665	18.0768	0.5	-	P
Lead					-	NR
					-	
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6
 DUPLICATES

CLIENT SAMPLE ID

LCSWD

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____

Lab Code: SWOK _____ Case No.: 49334 SAS No.: _____ SDG No.: 49334 _____

Matrix (soil/water): WATER Level (low/med): LOW _____

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L _____

Analyte	Control Limit	Sample (S)		Duplicate (D)		RPD	Q	M
Chromium		200.8220		198.8200		1.0		P
Lead		486.6890		486.4760		0.0		P

6
 DUPLICATES

CLIENT SAMPLE ID

T041102-PM

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC

Lab Code: SWOK Case No.: 49334 SAS No.: _____ SDG No.: 49334

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 86.4 % Solids for Duplicate: 86.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Chromium		1322.1201		1353.9469		2.4		P
Lead								NR

6
DUPLICATES

CLIENT SAMPLE ID

041102-PM

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC

Lab Code: SWOK Case No.: 49334 SAS No.: SDG No.: 49334

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Chromium		52245.5310	53078.5080	1.6	-	P
Lead		508.5530	504.9000	0.7	-	P

7
LABORATORY CONTROL SAMPLE

Lab Name: SOUTHWEST LABORATORIES _____

Contract: B&VSP-KC _____

Lab Code: SWOK _____

Case No.: 49334

SAS No.: _____

SDG No.: 49334

Solid LCS Source: IN.VEN. _____

Aqueous LCS Source: CPI/H.PUR _____

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Chromium	200.00	200.82	100.4	20.000	18.166		16.000 24.000	90.8
Lead	500.00	486.69	97.34					

LABORATORY CONTROL SAMPLE

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK

Case No.: 49334

SAS No.:

SDG No.: 49334

Solid LCS Source: IN.VEN.

Aqueous LCS Source: CPI/H.PUR

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Chromium	200.00	198.82	99.41	20.000	18.077	16.000	24.000	90.4
Lead	500.00	486.48	97.30					

8
STANDARD ADDITION RESULTS

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK

Case No.: 49334

SAS No.:

SDG No.: 49334

Concentration Units: ug/L

EPA Sample No.	An	0 ADD		1 ADD		2 ADD		3 ADD		Final Conc.	r	Q
		CON	ABS	CON	ABS	CON	ABS	CON	ABS			

9
ICP SERIAL DILUTION

Client SAMPLE ID

T041102-PL

Lab Name: SOUTHWEST LABORATORIES____ Contract: B&VSP-KC____
Lab Code: SWOK____ Case No.: 49334 SAS No.: _____ SDG No.: 49334____
Matrix (soil/water): SOIL____ Level (low/med): LOW____

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	Differe- ence	Q	M
Chromium	11505.59	11104.80	3.5		P
Lead					NR

9
ICP SERIAL DILUTION

Client SAMPLE ID

041102-PL

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC

Lab Code: SWOK Case No.: 49334 SAS No.: SDG No.: 49334

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Chromium	52050.99		52980.84		1.8		P
Lead	4.24	B	14.00	U	100.0		P

10
Instrument Detection Limits (Quarterly)

Lab Name: SOUTHWEST LABORATORIES
Lab Code: SWOK Case No.: 49334
ICP ID Number: TJA_ET1
Flame AA ID Number :
Furnace AA ID Number :

Contract: B&VSP-KC
SAS No.: SDG No.: 49334
Date: 12/12/01

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Chromium	267.72		5	0.8	P
Lead	220.35		10	2.8	P

Comments:

Instrument Detection Limits (Quarterly)

Lab Name: SOUTHWEST LABORATORIES
 Lab Code: SWOK Case No.: 49334
 ICP ID Number: TJA_ET3
 Flame AA ID Number :
 Furnace AA ID Number :

Contract: B&VSP-KC
 SAS No.: SDG No.: 49334
 Date: 12/07/01

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Chromium	267.72		5	0.9	P
Lead			10		NR

Comments:

11A
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC

Lab Code: SWOK Case No.: 49334 SAS No.: SDG No.: 49334

ICP ID Number: TJA ET1 Date: 02/05/02

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	BA
Chromium	267.72	0.0000000	0.0000000	-0.0000240	0.0000000	0.0000000
Lead	220.35	0.0009290	0.0000000	-0.0000450	0.0000000	0.0000000

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49334 SAS No.: _____ SDG No.: 49334
 ICP ID Number: TJA ET1 Date: 02/05/02

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		BI_	CO_	CR_	CU_	MN_
Chromium_	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0003010
Lead_	220.35	-0.0016740	-0.0079500	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES____ Contract: B&VSP-KC____
 Lab Code: SWOK____ Case No.: 49334 SAS No.: _____ SDG No.: 49334____
 ICP ID Number: TJA ET1____ Date: 02/05/02

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		MO_	NA_	NI_	PB_	SC_
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0009280	0.0000000	-0.0002060	0.0000000	0.0000000

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____

Lab Code: SWOK _____ Case No.: 49334 SAS No.: _____ SDG No.: 49334 _____

CP ID Number: TJA ET1 _____ Date: 02/05/02

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		SE_	SN_	TI_	TL_	V_
Chromium_	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead_	220.35	0.0000000	0.0000000	0.0026800	0.0000000	0.0001560

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST_LABORATORIES___ Contract: B&VSP-KC___
 Lab Code: SWOK___ Case No.: 49334 SAS No.: _____ SDG No.: 49334_
 ICP ID Number: TJA ET1_____ Date: 02/05/02

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		W__	ZN_	ZR_	___	___
Chromium	267.72	0.0003700	0.0000000	0.0000000		
Lead	220.35	0.0000000	0.0000000	-0.0001120		

Comments:

11A
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES_____ Contract: B&VSP-KC____
Lab Code: SWOK_____ Case No.: 49334 SAS No.: _____ SDG No.: 49334_
ICP ID Number: TJA ET3_____ Date: 06/08/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	AS_
Chromium	267.72	0.0000000	0.0000100	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0001280	0.0000000	0.0004080	0.0000000	0.0000000

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49334 SAS No.: SDG No.: 49334
 ICP ID Number: TJA ET3 Date: 06/08/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CD_	CO_	CR_	CU_	MN_
Chromium_	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0001710
Lead_	220.35	0.0000000	0.0002470	0.0000000	0.0000000	0.0000000

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49334 SAS No.: SDG No.: 49334
 ICP ID Number: TJA ET3 Date: 06/08/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		MO_	NI_	SB_	TI_	TL_
Chromium_	267.72	-0.0002990	0.0000830	0.0000000	0.0000000	0.0000000
Lead_	220.35	-0.0008670	0.0004850	0.0000000	-0.0007590	0.0000000

Comments: _____

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES___ Contract: B&VSP-KC___
Lab Code: SWOK___ Case No.: 49334 SAS No.: _____ SDG No.: 49334_
ICP ID Number: TJA ET3___ Date: 06/08/01

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		V___	ZN___	___	___	___
Chromium	267.72	0.0000000	0.0000000			
Lead	220.35	0.0000000	-0.0004590			

Comments:

12
ICP Linear Ranges (Quarterly)

Lab Name: SOUTHWEST LABORATORIES ___ Contract: B&VSP-KC ___
Lab Code: SWOK ___ Case No.: 49334 SAS No.: _____ SDG No.: 49334 ___
CP ID Number: TJA ET1 _____ Date: 02/21/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Chromium	13.00	65000.0	P
Lead	13.00	60000.0	P

Comments: _____

12
ICP Linear Ranges (Quarterly)

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49334 SAS No.: _____ SDG No.: 49334
 ICP ID Number: TJA ET3 Date: 03/12/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Chromium	15.00	80000.0	P
Lead	15.00	60000.0	P

Comments: _____

13
PREPARATION LOG

Lab Name: SOUTHWEST LABORATORIES__

Contract: B&VSP-KC__

Lab Code: SWOK__ Case No.: 49334__

SAS No.: _____ SDG No.: 49334__

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
041102-P	04/15/02		50
041102-PM	04/15/02		50
041102-PS	04/15/02		50
LCSW	04/15/02		50
LCSWD	04/15/02		50
PBW	04/15/02		50
PBWT	04/15/02		50

13
PREPARATION LOG

Lab Name: SOUTHWEST LABORATORIES__

Contract: B&VSP-KC__

Lab Code: SWOK__ Case No.: 49334_

SAS No.: _____ SDG No.: 49334_

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	04/15/02	1.00	100
LCSSD	04/15/02	1.00	100
PBS	04/15/02	1.00	100
T041102-P	04/15/02	1.01	100
T041102-PM	04/15/02	1.01	100
T041102-PS	04/15/02	1.01	100

14
ANALYSIS RUN LOG

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK Case No.: 49334

SAS No.: SDG No.: 49334

Instrument ID Number: TJA ET1

Method: P

Start Date: 04/15/02

End Date: 04/15/02

Client Sample No.	D/F	Time	% R	Analytes																											
				C	P	R	B																								
SO	1	1349		X	X																										
S	1	1354		X	X																										
S	1	1400		X	X																										
ICV	1	1406		X	X																										
ICB	1	1411		X	X																										
CRI	1	1417		X	X																										
ICSA	1	1430		X	X																										
ICSAB	1	1436		X	X																										
CCV	1	1442		X	X																										
CCB	1	1447		X	X																										
PBW	1	1453		X	X																										
LCSW	1	1459		X	X																										
LCSWD	1	1504		X	X																										
ZZZZZZ	1	1510																													
041102-P	1	1516		X	X																										
041102-PS	1	1521		X	X																										
041102-PM	1	1527		X	X																										
041102-PL	5	1532		X	X																										
PBWT	1	1538		X	X																										
ZZZZZZ	1	1544																													
CCV	1	1549		X	X																										
CCB	1	1555		X	X																										



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany • Broken Arrow, Oklahoma 74012 • Office (918) 251-2858 • Fax (918) 251-2599

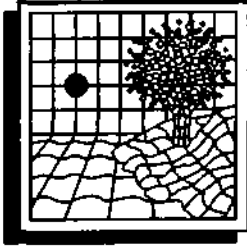
SUMMARY OF DATA CONTAINED IN THIS SUBMITTAL

SWLO SDG: 49184
EPISODE #: 49184

FULL DATA PACKAGES
CONTAIN 29 PAGES

SUMMARY DATA PACKAGES
CONTAIN - PAGES

SIGNATURE Kurti Madhan
DATE SHIPPED 4/3/02



SOUTHWEST LABORATORY OF OKLAHOMA, INC.

April 3, 2002

Gary Felkner/Ken Wyatt
BLACK & VEATCH SPECIAL PROJECTS
6601 College Blvd.
Overland Park, KS 66211

PROJECT: ACE SERVICES
SDG: 49184
SWLO ID: 49184.01 – 49184.03

Dear Gentlemen:

Enclosed please find the Level III forms package and electronic deliverable for the samples received March 29, 2002 for the above-referenced project. Results were faxed to Mr. Wyatt's attention, Wednesday, April 03, 2002.

Thank you for choosing Southwest Labs. If you should have any questions or require additional information, please do not hesitate to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Randy Staggs', written over a white background.

Randy Staggs
Project Officer

RES/sle

Enclosures

We certify that the following report meets all required NELAC reporting standards as specified in NELAC 5.13, July 1, 1999. Any deviation or variance is noted in the case narrative(s). Estimated uncertainties regarding these analyses are presented in the Quality Control Section of this report."



SWLO Qualifier Flags

GENERAL
ADMINISTRATIVE

DATA QUALIFIER DEFINITIONS

INORGANICS

B	The reported values were obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL); if the analyte was analyzed but not detected a "U" must be entered.
E	The reported value is estimated because of the presence of interference. An explanatory note must be included under "Comment" on the Cover Page if the problem applies to all samples or on the specific Form 1 if it is an isolated problem.
M	Duplicate injection precision not met.
N	Spike recovery not within control limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
W	Post-Digestion spike for GFAA analysis is out of control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.

SOUTHWEST LABORATORY OF OKLAHOMA, INC.

1700 West Albany / Broken Arrow, OK 74012 / Office (918) 251-2858 / Fax (918) 251-2599

CASE NARRATIVE

CONTRACT: B&VSP-KC

DATE: April 2, 2002

Case No.: 49184

PROJECT NAME: ACE SERVICES

SDG #: 49184

EPISODE #: 49184

INORGANIC METAL FRACTION:

Three soil samples were submitted for TCLP extraction followed by lead and chromium analysis. No major problems occurred during the digestion or analysis of these samples. Please see the *Cooler Receipt/Sample Log-In Sheet* for sample conditions and cooler temperatures at receipt. The sample's analyses were completed according to the following:

SWL SOP #

SWL-IN-700

SWL-IN-205

Method SOP is based

SW846 1311 TCLP Extraction

SW 846 3010A and 6010B ICP Digestion & Analysis

The cover page of the Inorganic Analyses Data Package cross-references client and laboratory sample ID's. Manual integration was not used for the data presented in this Inorganic Analyses Data Package.

Initial and Continuing Calibration Checks: No problems.

Initial and Continuing Calibration Blanks: All blanks had values less than the MDL for lead. Chromium had absolute values greater than the MDL, but less than the PQL. No action required.

Linearity near the CRDL (CRA & CRI): All elements were within our in-house QC limits of 80-120%.

Preparation Blank: The preparation blank had a values less than the MDL for lead and chromium. The TCLP tumble blank for chromium had a value greater than the MDL, but less than the PQL. No action required.

Lab Control Spikes: All laboratory control samples were within QC limits.

Matrix Spikes: The matrix spike was outside the 75 - 125% control limits for chromium, but the sample value was four times greater than the spike added. The matrix spike for lead and the matrix spike duplicate for lead and chromium were within the 75 - 125% control limits.

Duplicates: All duplicate results were within the precision control limits of 20%.

Serial Dilution: All serial dilution results were within control limits.

Sincerely,



Steve L. Markham

Inorganic Program Manager

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SOUTHWEST LABORATORIES___ Contract: B&VSP-KC___
Lab Code: SWOK___ Case No.: 49184 SAS No.: _____ SDG No.: 49184___
SOW No.: SW846___

EPA Sample No.	Lab Sample ID
SLAGC032802	49184.02
SLAGN032802	49184.01
SLAGS032802	49184.03
SLAGS032802S	49184.03S
SLAGS032802M	49184.03SD

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:
ICP = BATCH_ID_NUMBER_020401TI1

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Steve L. Markham Name: Steve L. Markham
Date: 04/02/02 Title: Inorganics Program Manager

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

SLAGC032802

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49184 SAS No.: SDG No.: 49184
 Matrix (soil/water): WATER Lab Sample ID: 49184.02
 Level (low/med): LOW Date Received: 03/29/02
 Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1400	-		P
7439-92-1	Lead	2.8	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 S-LAGC-032802-P
 TCLP_EXTRACT

1
 INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

SLAGN032802

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49184 SAS No.: _____ SDG No.: 49184
 Matrix (soil/water): WATER Lab Sample ID: 49184.01
 Level (low/med): LOW Date Received: 03/29/02
 % Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2550			P
7439-92-1	Lead	3.0	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 S-LAGN-032802-P _____
 TCLP_EXTRACT _____

1
INORGANIC ANALYSES DATA SHEET

CLIENT SAMPLE ID

SLAGS032802

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49184 SAS No.: _____ SDG No.: 49184
 Matrix (soil/water): WATER Lab Sample ID: 49184.03
 Level (low/med): LOW Date Received: 03/29/02
 Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	915			P
7439-92-1	Lead	2.8	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 S-LAGS-032802-P _____
 TCLP_EXTRACT _____

2A
 INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: SOUTHWEST LABORATORIES_____ Contract: B&VSP-KC____
 Lab Code: SWOK_____ Case No.: 49184 SAS No.: _____ SDG No.: 49184____
 Initial Calibration Source: EPA-LV_____
 Continuing Calibration Source: IN.VEN._____

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration				M	
	True	Found	%R(1)	True	Found	%R(1)	Found		%R(1)
Chromium	100.0	99.18	99.2	500.0	492.10	98.4	492.11	98.4	P
Lead	250.0	245.90	98.4	500.0	495.99	99.2	493.49	98.7	P

6
DUPLICATES

CLIENT SAMPLE ID

SLAGS032802M

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC

Lab Code: SWOK Case No.: 49184 SAS No.: SDG No.: 49184

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Chromium		1199.4100	1079.0820	10.6		P
Lead		495.4390	460.4270	7.3		P

7
LABORATORY CONTROL SAMPLE

Lab Name: SOUTHWEST LABORATORIES

Contract: B&VSP-KC

Lab Code: SWOK

Case No.: 49184

SAS No.: _____

SDG No.: 49184

Solid LCS Source: _____

Aqueous LCS Source: CPI/H.PUR

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Chromium	200.00	196.82	98.41					
Lead	500.00	484.83	96.97					

8
STANDARD ADDITION RESULTS

Lab Name: SOUTHWEST LABORATORIES_____ Contract: B&VSP-KC_____
Lab Code: SWOK___ Case No.: 49184 SAS No.: _____ SDG No.: 49184_

Concentration Units: ug/L

EPA Sample No.	An	0 ADD		1 ADD		2 ADD		3 ADD		Final Conc.	r	Q
		CON	ABS	CON	ABS	CON	ABS	CON	ABS			

9
ICP SERIAL DILUTION

Client SAMPLE ID

SLAGS032802L

Lab Name: SOUTHWEST LABORATORIES _____ Contract: B&VSP-KC _____
 Lab Code: SWOK _____ Case No.: 49184 SAS No.: _____ SDG No.: 49184 _____
 Matrix (soil/water): WATER Level (low/med): LOW _____

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Chromium	914.79	955.78	4.5	-	P
Lead	2.80	14.00	-	-	P

Instrument Detection Limits (Quarterly)

Lab Name: SOUTHWEST LABORATORIES
 Lab Code: SWOK Case No.: 49184
 ICP ID Number: TJA_ET1
 Flame AA ID Number : _____
 Furnace AA ID Number : _____

Contract: B&VSP-KC SDG No.: 49184
 SAS No.: _____
 Date: 12/12/01

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Chromium	267.72		5	0.8	P
Lead	220.35		10	2.8	P

Comments: _____

11A
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
Lab Code: SWOK Case No.: 49184 SAS No.: SDG No.: 49184
ICP ID Number: TJA ET1 Date: 02/05/02

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	BA
Chromium	267.72	0.0000000	0.0000000	-0.0000240	0.0000000	0.0000000
Lead	220.35	0.0009290	0.0000000	-0.0000450	0.0000000	0.0000000

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49184 SAS No.: _____ SDG No.: 49184
 CP ID Number: TJA ET1 Date: 02/05/02

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		MO_	NA_	NI_	PB_	SC_
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0009280	0.0000000	0.0002060	0.0000000	0.0000000

Comments: _____

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES____ Contract: B&VSP-KC____
Lab Code: SWOK____ Case No.: 49184 SAS No.: _____ SDG No.: 49184_
ICP ID Number: TJA ET1_____ Date: 02/05/02

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		SE_	SN_	TI_	TL_	V_
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0026800	0.0000000	0.0001560

Comments:

11B
ICP Interelement Correction Factors (Annually)

Lab Name: SOUTHWEST LABORATORIES Contract: B&VSP-KC
 Lab Code: SWOK Case No.: 49184 SAS No.: SDG No.: 49184
 ICP ID Number: TJA ET1 Date: 02/05/02

Analyte	Wave-length (nm)	Interelement Correction Factors for :					
		W	ZN	ZR			
Chromium	267.72	0.0003700	0.0000000	0.0000000			
Lead	220.35	0.0000000	0.0000000	0.0001120			

Comments:

12
ICP Linear Ranges (Quarterly)

Lab Name: SOUTHWEST_LABORATORIES__ Contract: B&VSP-KC__
 Lab Code: SWOK__ Case No.: 49184 SAS No.: _____ SDG No.: 49184_
 ICP ID Number: TJA ET1_____ Date: 02/21/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Chromium	13.00	65000.0	P
Lead	13.00	60000.0	P

Comments:

14
ANALYSIS RUN LOG

Lab Name: SOUTHWEST LABORATORIES__

Contract: B&VSP-KC__

Lab Code: SWOK__ Case No.: 49184__

SAS No.: _____ SDG No.: 49184__

Instrument ID Number: TJA ET1_____

Method: P_

Start Date: 04/01/02

End Date: 04/01/02

Client Sample No.	D/F	Time	% R	Analytes																											
				C	P																										
SO	1	1343		X	X																										
S	1	1349		X	X																										
S	1	1355		X	X																										
ICV	1	1400		X	X																										
ICB	1	1406		X	X																										
CRI	1	1412		X	X																										
ICSA	1	1425		X	X																										
ICSAB	1	1431		X	X																										
CCV	1	1436		X	X																										
CCB	1	1442		X	X																										
PBW	1	1448		X	X																										
LCSW	1	1453		X	X																										
LCSWD	1	1459		X	X																										
SLAGN032802	1	1505		X	X																										
SLAGC032802	1	1510		X	X																										
SLAGS032802	1	1516		X	X																										
SLAGS032802L	5	1521		X	X																										
SLAGS032802S	1	1527		X	X																										
SLAGS032802M	1	1533		X	X																										
ZZZZZZ	1	1550																													
CCV	1	1556		X	X																										
CCB	1	1602		X	X																										
ZZZZZZ	1	1607																													
ZZZZZZ	1	1619																													
ZZZZZZ	1	1625																													
PBWT	1	1636		X	X																										
ZZZZZZ	1	1650																													
CCV	1	1656		X	X																										
CCB	1	1701		X	X																										

APPENDIX H
Backfill Density Test Reports

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: IO02009

Date: 4/18/02

Time: 12:00 Noon

INSPECTOR: Kevin Puckett


MAXIMUM DRY DENSITY = 100.0 @ 21.0 % MOISTURE
P.C.F.

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	112.3	98.4	98.4%	14.1%	Approx 11'
2	50' S, 55' W of Reference Mark	12"	106.7	92.1	92.1%	15.9%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.
Contractor was advised that moisture failed to meet the required moisture range.


 Kevin Puckett
 Penco Engineering, P.A.
 1111 S 60th St, Lincoln, NE 68502

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: 1002009

Date: 4/18/02

Time: 3:00 PM

INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = 100.0 @ 21.0 % MOISTURE
P.C.F.

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	111.1	95.1	95.1%	16.8%	Approx 10.3'
2	52' S, 52' W of Reference Mark	12"	112.3	97.0	97.0%	15.8%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.
Contractor was advised that moisture failed to meet the required moisture range on test #2.


 Penco Engineering, P.A.
 Plainville, KS 67663

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: IO02009

Date: 4/18/02

Time: 5:00 PM


INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = $\frac{100.0}{P.C.F.}$ @ 21.0 % MOISTURE
REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

LOCATION: Colby

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	111.6	95.8	95.8%	16.5%	Approx 9.7'
2	52' S, 51' W of Reference Mark	12"	114.1	96.7	96.7%	18.0%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


Kevin Puckett
Penco Engineering, P.A.
State of Pennsylvania, P.E. No. 038548
Main PA 610 261-8000

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: 1002009

Date: 4/19/02

Time: 10:45 AM

INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = $\frac{100.0}{\text{P.C.F.}}$ @ 21.0 % MOISTURE

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	113.8	97.5	97.5%	16.7%	Approx 9'
2	54' S, 53' W of Reference Mark	12"	116.2	100.1	100.1%	16.1%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


 Penco Engineering, P.A.
 Plainville, KS 67663

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: IO02009

Date: 4/19/02

Time: 1:00 PM

INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = $\frac{100.0}{\text{P.C.F.}}$ @ 21.0 % MOISTURE

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	111.9	96.1	96.1%	16.4%	Approx 8.3'
2	53' S, 53' W of Reference Mark	12"	109.6	93.6	93.6%	17.1%	
3	58' S, 52' W of Reference Mark	12"	112.4	95.6	95.6%	17.6%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


 Kevin Puckett
 Penco Engineering, P.A.
 KS 6

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: IO02009

Date: 4/19/02

Time: 3:00 PM

INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = 100.0 @ 21.0 % MOISTURE
 P.C.F.

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	111.5	96.1	96.1%	16.0%	Approx 7.7'
2	55' S, 45' W of Reference Mark	12"	113.3	95.8	95.8%	18.3%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


Penco Engineering, P.A.
Plainville, KS 67663

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: IO02009

Date: 4/19/02

Time: 5:00 PM

INSPECTOR: Kevin Puckett


MAXIMUM DRY DENSITY = 100.0 @ 21.0 % MOISTURE
P.C.F.

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	113.0	94.9	94.9%	19.1%	Approx 7'
2	51' S, 52' W of Reference Mark	12"	114.1	96.8	96.8%	17.9%	
3	57' S, 48' W of Reference Mark	12"	114.7	95.2	95.2%	20.5%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


Penco Engineering, P.A.
Kain KS

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: IO02009

Date: 4/23/02

Time: 8:30 AM

INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = 100.0 @ 21.0 % MOISTURE
P.C.F.

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	121.0	103.9	103.9%	16.5%	Approx 6.3'
2	44' S, 51' W of Reference Mark	12"	111.8	94.4	94.4%	18.4%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.
Contractor widened area to be compacted and began using a vibratory wedgefoot compactor today.


 Penco Engineering, P.A.
 Plainville, KS 67663

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: IO02009

Date: 4/23/02

Time: 1:00 PM

INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = $\frac{100.0}{\text{P.C.F.}}$ @ 21.0 % MOISTURE

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	119.2	96.7	96.7%	23.3%	Approx 5.7'
2	58' S, 54' W of Reference Mark	12"	121.3	101.1	101.1%	20.0%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


 Penco Engineering, P.A.
 Plainville, KS 67453



DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: 1002009

Date: 4/23/02

Time: 3:30 PM

INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = 100.0 @ 21.0 % MOISTURE
P.C.F.

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	122.4	101.3	101.3%	20.8%	Approx 5'
2	36' S, 63' W of Reference Mark	12"	120.8	100.7	100.7%	20.0%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


 Penco Engineering, P.A.
 Plainville, KS 67663

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: IO02009

Date: 4/24/02

Time: 8:30 AM

INSPECTOR: Kevin Puckett


MAXIMUM DRY DENSITY = $\frac{100.0}{\text{P.C.F.}}$ @ 21.0 % MOISTURE

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	120.6	103.6	103.6%	16.4%	Approx 3.7'
2	42' S, 49' W of Reference Mark	12"	118.0	97.1	97.1%	21.5%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


 Penco Engineering, P.A.
 Plainville, KS 67663

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: 1002009

Date: 4/24/02

Time: 10:30 AM

INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = 100.0 @ 21.0 % MOISTURE
P.C.F.

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	114.5	95.3	95.3%	20.1%	Approx 3'
2	54' S, 50' W of Reference Mark	12"	116.7	100.4	100.4%	16.2%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


 Kevin Puckett
 Penco Engineering, P.A.
 600 S 6th St

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: 1002009

Date: 4/24/02

Time: 1:45 PM

INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = 100.0 @ 21.0 % MOISTURE
P.C.F.

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	118.7	102.3	102.3%	16.0%	Approx 2.3'
2	51' S, 67' W of Reference Mark	12"	118.5	101.8	101.8%	16.4%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


Penco Engineering, P.A.
Plainville, KS 67663

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: 1002009

Date: 4/24/02

Time: 4:30 PM

INSPECTOR: Kevin Puckett


MAXIMUM DRY DENSITY = 100.0 @ 21.0 % MOISTURE
P.C.F.

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	116.1	96.1	96.1%	20.8%	Approx 1.7'
2	60' S, 54' W of Reference Mark	12"	116.2	97.7	97.7%	18.9%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


 Kevin Puckett
 Penco Engineering, P.A.
 Platteville, KS 67689

DENSITY TEST REPORT

NAME: Ace Services

PROJECT NO.: I002009

Date: 4/25/02

Time: 8:00 PM

INSPECTOR: Kevin Puckett

MAXIMUM DRY DENSITY = $\frac{100.0}{\text{P.C.F.}}$ @ 21.0 % MOISTURE

LOCATION: Colby

REQUIREMENT = 90% w/ +/- 5% of Optimum Moisture

TEST #	LOCATION	GAUGE DEPTH	WET DENSITY P.C.F.	DRY DENSITY P.C.F.	% STANDARD COMPACTION	% MOISTURE	DISTANCE TO FINAL GRADE
1	54' S, 45' W of Reference Mark	12"	114.4	94.6	94.6%	20.9%	Approx 1'
2	53' S, 57' W of Reference Mark	12"	120.1	99.9	99.9%	20.2%	

Remarks: Reference Mark: Power Pole at NE corner of site as designated by project manager.


Penco Engineering, P.A.
Plainville, KS 67663