DATE: April 2, 2007

PROJECT: OU2 Interim Measures
Omaha Shops Facility
Omaha, Nebraska
U.S. EPA Docket No. RCRA-7-2000-0026
RCRA I.D. No. NED000829754

PURPOSE

URS Corporation (URS) has prepared this technical memorandum for the Union Pacific Railroad Company (UPRR) Omaha Shops, located north of downtown Omaha, Nebraska near 9th and Webster Streets (Figure 1). The purpose of this technical memorandum is to describe the field activities and present the results of the Interim Measure (IM) completed to remove and dispose of soil at Operable Unit 2 (OU2) containing lead at concentrations greater than 1,218 milligrams per kilogram (mg/kg).

SITE BACKGROUND

The Omaha Shops encompass approximately 184 acres located just west of the Missouri River in an industrialized area of downtown Omaha. The site consisted of various buildings and production support areas, each having a function in past operations of the facility. Currently, the only operations at the Omaha Shops consist of a classification yard and associated office building. The OU2 area comprises approximately 51 acres of the Omaha Shops property (Figure 2).

INTERIM MEASURE PROCEDURES

Two areas, Grace Street Yard (GS) and North Yard (NY), were identified as containing lead contaminated soil within OU2. Soil impacted by lead was excavated and disposed of at the proposed Abbott Drive/Cuming Street road embankment. Confirmation soil samples were collected following the procedures described below and the excavations were backfilled with clean soil. All field activities were completed in accordance with the Omaha Shops Health and Safety Plan and Standard Operating Procedures (SOPs) included in the UPRR Data Collection Quality Assurance Plan. The following actions were taken as part of the IM at OU2.

1. A utility clearance was completed at each excavation site prior to the start of soil excavation.
2. Field activities were completed following procedures specified in the Omaha Shops Health and Safety Plan. Fieldwork was completed using Level D personal protective equipment. Particular attention was paid to safety procedures around heavy equipment.
3. The excavations included the top 12 inches of soil from the area around soil borings UPNY-SB07, UPNY-SB14, and UPGS-SB08, 6 feet of soil from the area around soil boring UPGS-SB09, and 7 feet of soil from the area around soil boring UPGS-SB04 (Figure 3). The

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planned limits of the excavation were based on the analytical results for subsurface soil samples collected in July 2000. Initial excavation activities were continued until all of the soil containing lead was removed.

4. Excavated materials were loaded into trucks, transported to, and placed within the Abbott Drive/Cuming Street road embankment in accordance with Federal, State, and local laws and regulations. The lead contaminated soil within the embankment was then covered by clean fill.
5. After the initial excavation was completed at a location, a composite confirmation soil sample was collected using a stainless-steel spoon to verify that excavation activities removed all of the lead-contaminated soil above the 1,218 mg/kg concentration. Each confirmation sample consisted of soil collected from the four sidewalls and bottom of the excavation.
6. Soil collected from each excavation was composited and placed into a glass container, labeled, packaged, and shipped to Test America for lead analysis. The confirmation samples were analyzed for lead using Method 6010.
7. Sampling locations were documented in the field logbook and the extent of excavated areas were marked and surveyed.
8. Confirmation soil sample results were compared to the action level of 1,218 mg/kg for lead. If the results exceeded 1,218 mg/kg, excavation activities were continued, followed by re-collection of a confirmation sample in the newly excavated area.
9. After the confirmation sample results were determined to be at or below 1,218 mg/kg, the excavations were backfilled with "clean" fill soil. The fill soil was compacted in the excavation to minimize future settling.

ANALYTICAL RESULTS

A total of 109 soil samples were collected from 37 soil borings within OU2 for lead. Of these samples, three samples from Grace Street, borings UPGS-SB04, UPGS-SB08, and UPGS-SB09, and two soil samples from the North Yard, borings UPNY-SB07 and UPNY-SB14, had lead concentrations above the action level of 1,218 mg/kg. A summary of the soil sampling analytical results is shown in Table 1. Laboratory analytical reports are included in Attachment A.

UPGS-SB04

The UPGS-SB04 excavation started on July 21, 2000. A confirmation sample was collected from a depth of 7 feet below the ground surface (bgs). Analytical results indicated that the soil was below the action level and the excavation was cleared for backfilling on July 26, 2000. The approximate volume removed was 650 cubic yards (cy).

UPGS-SB08

The UPGS-SB08 excavation started on July 10, 2000. A confirmation sample was collected from a depth of 12 inches bgs. Analytical results indicated that the soil was below the action level and the excavation was cleared for backfilling on July 13, 2000. The approximate volume removed was 95 cy.

UPGS-SB09

The UPGS-SB09 excavation started on July 10, 2000. A confirmation sample was collected from a depth of 6 feet bgs. Analytical results indicated that the soil was below the action level and the excavation was cleared for backfilling on July 13, 2000. The approximate volume removed was 550 cy.

UPNY-SB07

The UPNY-SB07 excavation started on July 8, 2000. A confirmation sample was collected from a depth of 12 inches bgs. Analytical results indicated that the soil was below the action level and the excavation was cleared for backfilling on July 13, 2000. The approximate volume removed was 95 cy.

UPNY-SB14

The UPNY-SB14 excavation started on July 8, 2000. A confirmation sample was collected from a depth of 12 inches bgs. Analytical results indicated that the soil was above the action level and additional excavation was completed at UPNY-SB14 on July 21, 2000. Analytical results from the second confirmation sample collected at a depth of 2 feet bgs indicated that the soil was below the action level and the excavation was cleared for backfilling on July 26, 2000. The approximate volume removed was 185 cy.

LABORATORY CHEMICAL DATA REVIEW

Soil samples were submitted for lead analysis to Test America of Cedar Falls, Iowa or Nashville, Tennessee. The analytical data were reviewed by URS using guidance provided in the USEPA National Functional Guidelines of Organic and Inorganic Data Review 1994, where applicable. Based on the data reviews, the analytical data generated are acceptable for their intended use.

CONCLUSIONS

Excavation activities began on July 8, 2000. Approximately 1,575 cy of soil was removed and placed in the new Abbott Drive/Cumings Street roadway embankment. Analytical results indicated that the lead excavations were completed on July 26, 2000. The lead excavations were backfilled with "clean" imported soil.

TABLE 1
UPGS-SB04 SOIL SAMPLING RESULTS

FIELD ID						UPGS-SB04							
SAMPLE DEPTH (ft)			1			6			10			Confirmation	
	Units	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILES													
Chloroform	µg/kg	<	2.3	U	<	2.4	U	2.5	2.6	J	--	--	--
cis-1,2-Dichloroethene	µg/kg	<	2.3	U	2.5	2.4	J	237	2.6	U	--	--	--
Tetrachloroethene	µg/kg	1940	2.3	U	115000	2.4	J	16400	2.6	U	--	--	--
Trichloroethene	µg/kg	1.3	2.3	J	5.2	2.4	J	154	2.6	U	--	--	--
PESTICIDES													
4,4-DDT	µg/kg	144	19.1	J	<	3.92	U	<	4.38	U	--	--	--
PCBs													
Aroclor 1260	µg/kg	369	23	U	<	23.5	U	<	26.3	U	--	--	--
METALS													
Aluminum	mg/kg	6530	10		5760	10		4380	10		--	--	--
Antimony	mg/kg	21.7	10		31	10		<	10	U	--	--	--
Arsenic	mg/kg	21.2	1		26.8	1		4.5	1		--	--	--
Barium	mg/kg	186	1		391	1		197	1		--	--	--
Cadmium	mg/kg	1.8	1		5.2	1		<	1	U	--	--	--
Calcium	mg/kg	17100	10		14600	10		21500	10		--	--	--
Chromium	mg/kg	19.9	1		19.6	1		9.2	1		--	--	--
Copper	mg/kg	75.6	1		216	1		15.6	1		--	--	--
Iron	mg/kg	19200	10		41600	10		10800	10		--	--	--
Lead	mg/kg	250	1		1600	1		11.9	1		170	0.975	
Magnesium	mg/kg	5510	10		2040	10		7860	10		--	--	--
Manganese	mg/kg	575	1		769	1		332	1		--	--	--
Mercury	mg/kg	0.1	0.1		<	0.1	U	<	0.1	U	--	--	--
Nickel	mg/kg	28.6	1		34	1		15.3	1		--	--	--
Potassium	mg/kg	1440	10		1350	10		1260	10		--	--	--
Selenium	mg/kg	1.8	1		4.7	1		<	1	U	--	--	--
Silver	mg/kg	<	1	U	1.1	1		<	1	U	--	--	--
Sodium	mg/kg	233	10		398	10		253	10		--	--	--
Vanadium	mg/kg	20.3	10		21.6	10		14.5	10		--	--	--
Zinc	mg/kg	288	10		965	10		128	10		--	--	--

Qual - Qualifier
RL - Reporting Limit
J - Estimated
U - Nondetect
µg/kg - microgram per kilogram
mg/kg - miligram per kilogram

= exceeds the lead soil cleanup level of 1,218 mg/kg.

TABLE 1
UPGS-SB08 SOIL SAMPLING RESULTS

FIELD ID					UPGS-SB08								
SAMPLE DEPTH (ft)			1			6			10			Confirmation	
	Units	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILES													
Tetrachloroethene	µg/kg	<	2.6	U	3.3	2.7	J	33.4	3	J	--	--	--
Toluene	µg/kg	1.6	2.6	J	2.8	2.7	J	<	3	U	--	--	--
METALS													
Aluminum	mg/kg	4100	10		5310	10		8450	10		--	--	--
Antimony	mg/kg	18.6	10		<	10	U	<	10	U	--	--	--
Arsenic	mg/kg	27.2	1		9.7	1		14.3	1		--	--	--
Barium	mg/kg	337	1		212	1		250	1		--	--	--
Cadmium	mg/kg	3.9	1		<	1	U	<	1	U	--	--	--
Calcium	mg/kg	7800	10		20800	10		13800	10		--	--	--
Chromium	mg/kg	17.4	1		11	1		15.5	1		--	--	--
Copper	mg/kg	164	1		19.1	1		26.6	1		--	--	--
Iron	mg/kg	25000	10		13500	10		26000	10		--	--	--
Lead	mg/kg	1850	1		17.2	1		16.4	1		331	0.952	
Magnesium	mg/kg	2140	10		7140	10		5790	10		--	--	--
Manganese	mg/kg	219	1		366	1		681	1		--	--	--
Mercury	mg/kg	0.3	0.1		<	0.1	U	<	0.1	U	--	--	--
Nickel	mg/kg	31.6	1		18.9	1		27.5	1		--	--	--
Potassium	mg/kg	471	10		1640	10		1970	10		--	--	--
Selenium	mg/kg	2.6	1		<	1	U	3	1		--	--	--
Silver	mg/kg	2.1	1		<	1	U	<	1	U	--	--	--
Sodium	mg/kg	115	10		198	10		180	10		--	--	--
Vanadium	mg/kg	19.7	10		18	10		23.9	10		--	--	--
Zinc	mg/kg	925	10		61.4	10		81.8	10		--	--	--

Qual - Qualifier
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U - Nondetect
µg/kg - microgram per kilogram
mg/kg - miligram per kilogram

= exceeds the lead soil cleanup level of 1,218 mg/kg.

TABLE 1
UPGS-SB09 SOIL SAMPLING RESULTS

FIELD ID						UPGS-SB09							
SAMPLE DEPTH (ft)			1			6			10			Confirmation	
	Units	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILES													
Benzene	µg/kg	<	2.2	U	<	2.6	U	6	2.6	J	--	--	--
Chlorobenzene	µg/kg	<	2.2	U	1.9	2.6	J	11.4	2.6	J	--	--	--
1,4-Dichlorobenzene	µg/kg	<	2.2	U	<	2.6	U	1.5	2.6	J	--	--	--
1,1-Dichloroethene	µg/kg	<	2.2	U	<	2.6	U	2.2	2.6	J	--	--	--
cis-1,2-Dichloroethene	µg/kg	1.2	2.2	J	582	2.6	J	891	2.6	J	--	--	--
trans-1,2-Dichloroethene	µg/kg	<	2.2	U	18.8	2.6	J	25.6	2.6	J	--	--	--
Tetrachloroethene	µg/kg	122	2.2	U	36.9	2.6	J	2.2	2.6	J	--	--	--
Trichloroethene	µg/kg	<	2.2	U	21.8	2.6	J	1.4	2.6	J	--	--	--
Vinyl chloride	µg/kg	<	2.2	U	<	2.6	U	145	2.6	J	--	--	--
METALS													
Aluminum	mg/kg	3520	10		7680	10		3570	10		--	--	--
Antimony	mg/kg	<	10	U	13.6	10		<	10	U	--	--	--
Arsenic	mg/kg	12.5	1		18.3	1		2.9	1		--	--	--
Barium	mg/kg	110	1		632	1		151	1		--	--	--
Cadmium	mg/kg	1.3	1		4.4	1		<	1	U	--	--	--
Calcium	mg/kg	9520	10		23800	10		17800	10		--	--	--
Chromium	mg/kg	9.4	1		32.7	1		7.5	1		--	--	--
Copper	mg/kg	87.8	1		1380	1		9.6	1		--	--	--
Iron	mg/kg	18000	10		84800	10		9030	10		--	--	--
Lead	mg/kg	318	1		1390	1		9.6	1		554	0.952	
Magnesium	mg/kg	1750	10		2830	10		6680	10		--	--	--
Manganese	mg/kg	276	1		496	1		265	1		--	--	--
Mercury	mg/kg	0.3	0.1		0.3	0.1		<	0.1	U	--	--	--
Nickel	mg/kg	12.8	1		36.6	1		12.2	1		--	--	--
Potassium	mg/kg	908	10		1560	10		994	10		--	--	--
Selenium	mg/kg	1.3	1		5.7	1		<	1	U	--	--	--
Sodium	mg/kg	77.1	10		206	10		160	10		--	--	--
Vanadium	mg/kg	<	10	U	20.4	10		14	10		--	--	--
Zinc	mg/kg	697	10		1360	10		41.1	10		--	--	--

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mg/kg - miligram per kilogram

= exceeds the lead soil cleanup level of 1,218 mg/kg.

TABLE 1
UPNY-SB07 SOIL SAMPLING RESULTS

FIELD ID					UPNY-SB07								
SAMPLE DEPTH (ft)			1			6			10			Confirmation	
	Units	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
PESTICIDES													
Dieldrin	µg/kg	38.1	20.1	J	<	4.06	U	<	4.32	U	--	--	--
Endrin Aldehyde	µg/kg	36.1	20.1	J	<	4.06	U	<	4.32	U	--	--	--
PCBs													
Aroclor 1260	µg/kg	2400	241		<	24.4	U	<	26	U	--	--	--
METALS													
Aluminum	mg/kg	3890	10		2230	10		2740	10		--	--	--
Arsenic	mg/kg	53.5	1		3.8	1		3.3	1		--	--	--
Barium	mg/kg	174	1		88.7	1		50.8	1		--	--	--
Cadmium	mg/kg	3.7	1		<	1	U	<	1	U	--	--	--
Calcium	mg/kg	12700	10		9530	10		6480	10		--	--	--
Chromium	mg/kg	41.6	1		5.9	1		5.8	1		--	--	--
Copper	mg/kg	159	1		6.4	1		5.8	1		--	--	--
Iron	mg/kg	26300	10		7510	10		7380	10		--	--	--
Lead	mg/kg	3020	1		5.2	1		4.8	1		544	0.996	
Magnesium	mg/kg	1210	10		3900	10		2480	10		--	--	--
Manganese	mg/kg	293	1		148	1		125	1		--	--	--
Mercury	mg/kg	0.2	0.1		<	0.1	U	<	0.1	U	--	--	--
Nickel	mg/kg	24.1	1		9	1		9.7	1		--	--	--
Potassium	mg/kg	947	10		395	10		465	10		--	--	--
Selenium	mg/kg	2.7	1		1.9	1		<	1	U	--	--	--
Silver	mg/kg	13.4	1		<	1	U	<	1	U	--	--	--
Sodium	mg/kg	2150	10		2150	10		2160	10		--	--	--
Vanadium	mg/kg	35.3	10		<	10	U	<	10	U	--	--	--
Zinc	mg/kg	460	10		30.9	10		30.8	10		--	--	--

Qual - Qualifier
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U - Nondetect
µg/kg - microgram per kilogram
mg/kg - miligram per kilogram

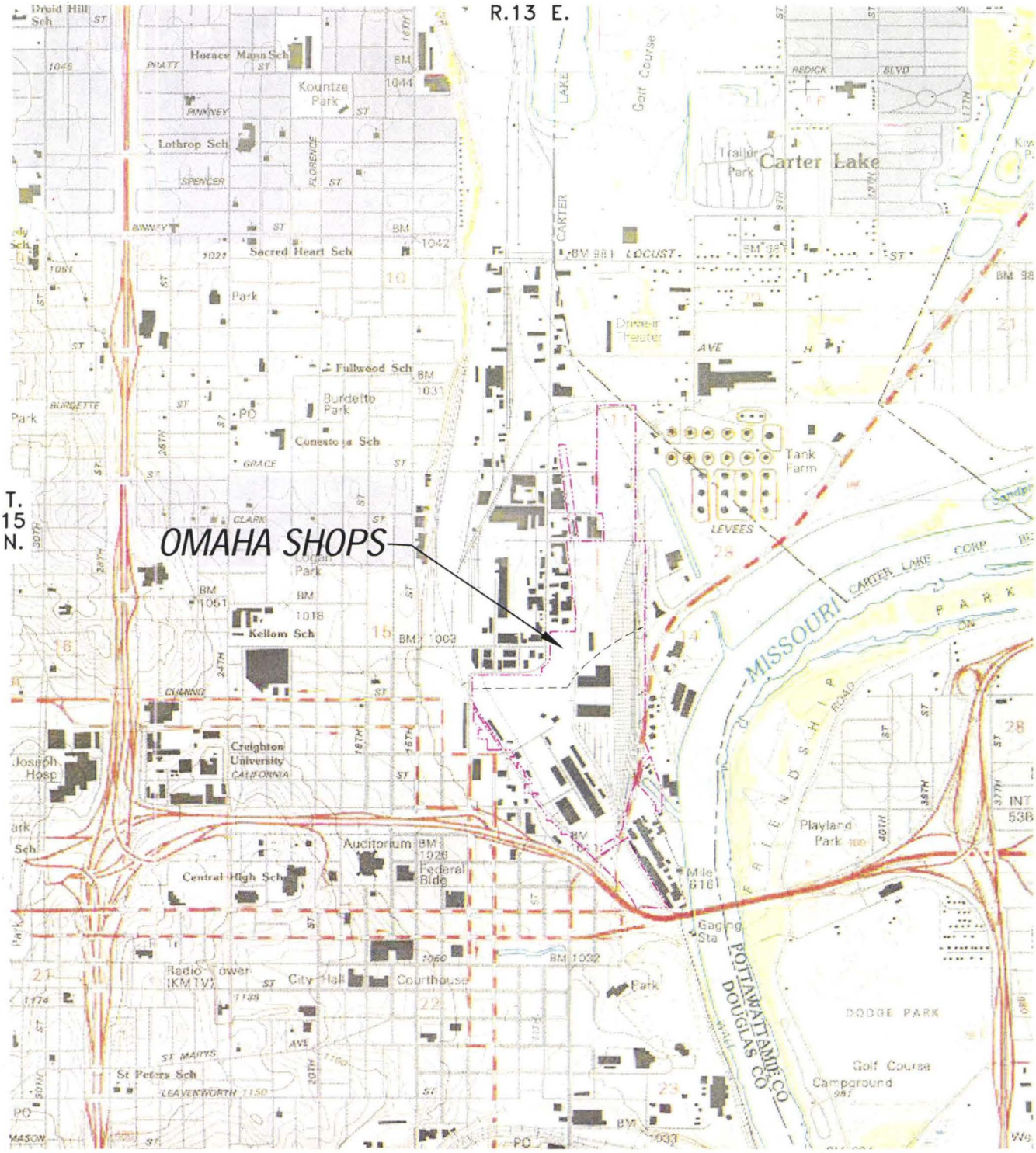
= exceeds the lead soil cleanup level of 1,218 mg/kg.

TABLE 1
UPNY-SB14 SOIL SAMPLING RESULTS

FIELD ID					UPNY-SB14											
SAMPLE DEPTH (ft)			1			6			10			Confirmation 1			Confirmation 2	
	Units	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
VOLATILES																
Chloroform	µg/kg	2.4	2.2		2.6	2.6		<	2.5	U	--	--	--	--	--	--
Toluene	µg/kg	16	2.2		4.5	2.6		<	2.5	U	--	--	--	--	--	--
PESTICIDES																
4,4-DDT	µg/kg	9.04	3.62		<	4.38	U	<	4.22	U	--	--	--	--	--	--
Dieldrin	µg/kg	12.7	3.62		<	4.38	U	<	4.22	U	--	--	--	--	--	--
PCBs																
Aroclor 1260	µg/kg	112	21.7		<	26.3	U	<	25.3	U	--	--	--	--	--	--
METALS																
Aluminum	mg/kg	3160	10		5000	10		1380	10		--	--	--	--	--	--
Antimony	mg/kg	1230	10		<	10	U	<	10	U	--	--	--	--	--	--
Arsenic	mg/kg	41.3	1		9.7	1		6	1		--	--	--	--	--	--
Barium	mg/kg	281	1		226	1		70.6	1		--	--	--	--	--	--
Cadmium	mg/kg	4	1		<	1	U	<	1	U	--	--	--	--	--	--
Calcium	mg/kg	12600	10		22600	10		4250	10		--	--	--	--	--	--
Chromium	mg/kg	19.4	1		10.5	1		5	1		--	--	--	--	--	--
Cobalt	mg/kg	14.6	10		<	10	U	<	10	U	--	--	--	--	--	--
Copper	mg/kg	2080	1		29.3	1		12.2	1		--	--	--	--	--	--
Iron	mg/kg	24600	10		12600	10		5750	10		--	--	--	--	--	--
Lead	mg/kg	4220	1		22.7	1		65.4	1		2020	1.01		181	0.956	
Magnesium	mg/kg	1930	10		7420	10		2120	10		--	--	--	--	--	--
Manganese	mg/kg	356	1		423	1		51	1		--	--	--	--	--	--
Mercury	mg/kg	0.2	0.1		<	0.1	U	<	0.1	U	--	--	--	--	--	--
Nickel	mg/kg	32.7	1		18.1	1		10.2	1		--	--	--	--	--	--
Potassium	mg/kg	762	10		1500	10		304	10		--	--	--	--	--	--
Selenium	mg/kg	2	1		<	1	U	<	1	U	--	--	--	--	--	--
Silver	mg/kg	2	1		<	1	U	<	1	U	--	--	--	--	--	--
Sodium	mg/kg	1920	10		2650	10		1670	10		--	--	--	--	--	--
Vanadium	mg/kg	<	10	U	16.3	10		<	10	U	--	--	--	--	--	--
Zinc	mg/kg	2050	10		82.9	10		39.3	10		--	--	--	--	--	--

Qual - Qualifier
RL - Reporting Limit
J - Estimated
U - Nondetect
µg/kg - microgram per kilogram
mg/kg - miligram per kilogram

= exceeds the lead soil cleanup level of 1,218 mg/kg.



QUADRANGLE LOCATION

BASE MAP SOURCE: USGS 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE MAP OF OMAHA NORTH, NE.-IA., 1994.

N

2000 1000 0 2000

SCALE IN FEET

March 30, 2007 4:22:16 p.m.
Drawing: T:\UPRR\16170184\1.dwg

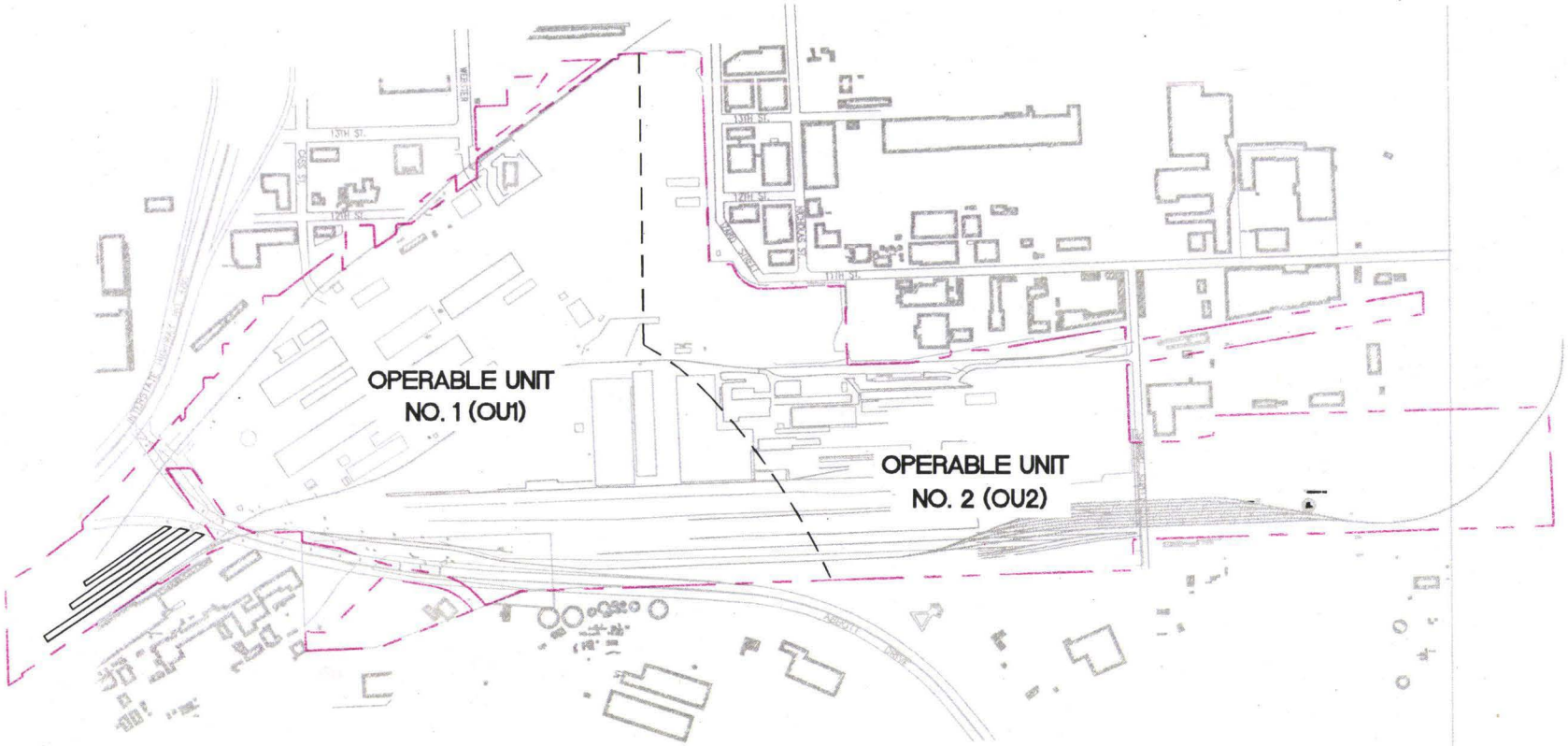
OMAHA SHOPS LOCATION

UNION PACIFIC

OMAHA SHOPS
UNION PACIFIC RAILROAD COMPANY

URS

DRN BY DPG	DATE 03/30/07	PROJECT NO.	FIG. NO.
CHK'D BY	DATE	16170184	1



NOTE:
OPERABLE UNIT NO. 3 (OU3) INCLUDES GROUNDWATER UNDERLYING THE ENTIRE OMAHA SHOPS PROPERTY.

LEGEND

PROPERTY LINE

OPERABLE UNIT

N

800 400 0 800

SCALE IN FEET

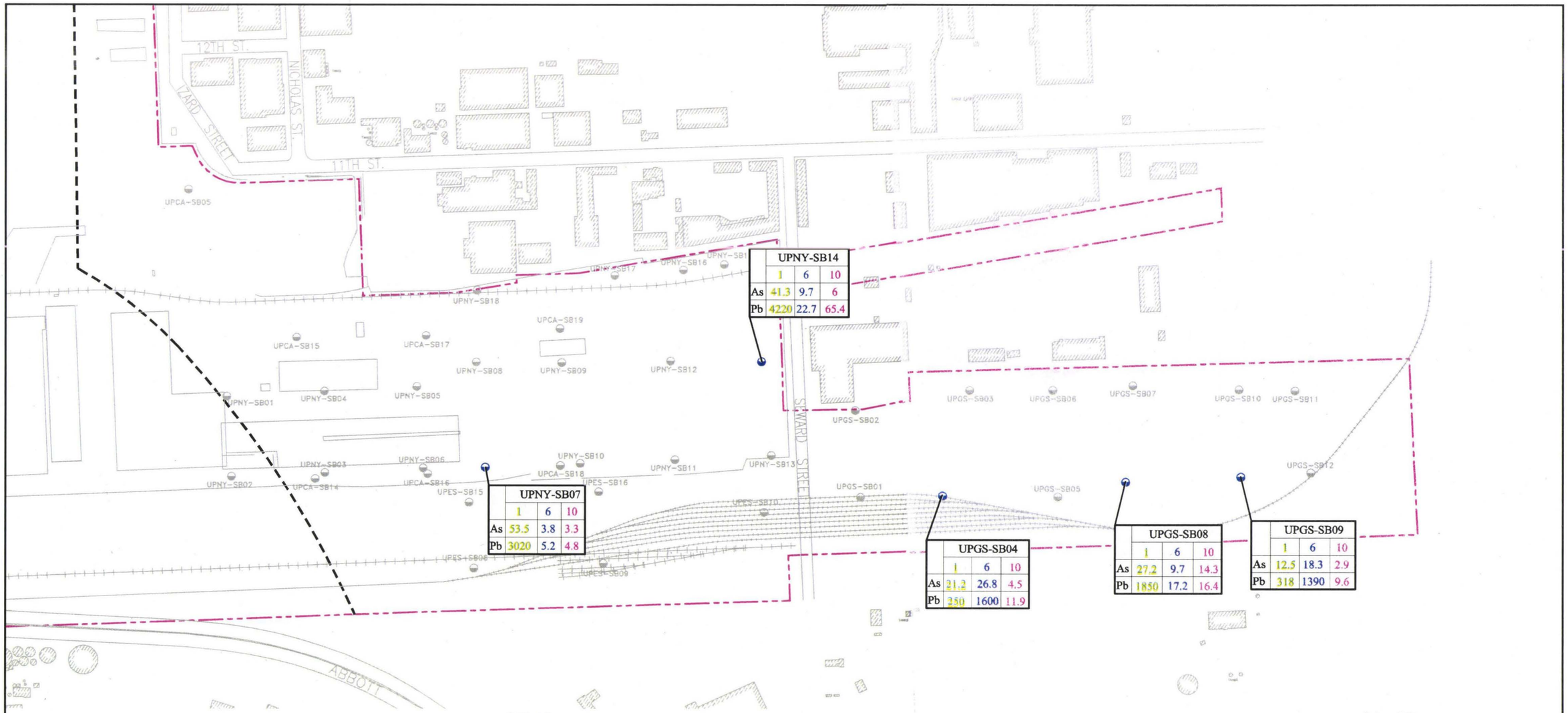
March 30, 2007 3:53:35 p.m.
Drawing: T:\UPRR\16170184\2.dwg

OPERABLE UNITS

OMAHA SHOPS
UNION PACIFIC RAILROAD COMPANY

URS

DRN BY DPG	DATE 03/30/07	PROJECT NO. 16170184	FIG. NO. 2
CHK'D BY .	REVISION 0		



UPNY-SB14	1	6	10
As	41.3	9.7	6
Pb	4220	22.7	65.4

UPNY-SB07	1	6	10
As	53.5	3.8	3.3
Pb	3020	5.2	4.8

UPGS-SB04	1	6	10
As	21.2	26.8	4.5
Pb	250	1600	11.9

UPGS-SB08	1	6	10
As	27.2	9.7	14.3
Pb	1850	17.2	16.4

UPGS-SB09	1	6	10
As	12.5	18.3	2.9
Pb	318	1390	9.6

LEGEND

- PROPERTY LINE
- OU1/OU2 LINE
- BUILDING SLAB
- STRUCTURES
- **SOIL BORING LOCATION**

SITE I.D.
SOIL BORING I.D.

UPCA-SB02	0	16
DNB	4.1	2.6
FANT	1.9	ND

SAMPLE DEPTH INTERVAL
CONCENTRATION IN mg/kg

SITE I.D.
CA CONSTRUCTION AREA
NY NORTH YARD
GS GRACE STREET

0 – 1' SURFACE SOIL
4.5 – 6' BELOW GROUND SURFACE
6.5 – 8' BELOW GROUND SURFACE
8.5 – 10' BELOW GROUND SURFACE
9.5 – 11' BELOW GROUND SURFACE

As – Arsenic
Pb – Lead

N

200 100 0 200
SCALE IN FEET

March 30, 2007 4:21:41 p.m.
Drawing: T:\UPRR\16170184\3.dwg

ARSENIC/LEAD CONCENTRATIONS IN SOIL OU2

UNION PACIFIC

OMAHA SHOPS
UNION PACIFIC RAILROAD COMPANY

URS

DRN BY DPG	DATE 03/30/07	PROJECT NO.	FIG. NO.
CHK'D BY	DATE	16170184	3

ATTACHMENT A

LABORATORY ANALYTICAL REPORTS

UPRR Data Review

Laboratory Work Group(s): 00-A96291

Reviewer: Craig Johnson

Date Reviewed: 04/27/01

Sample Identification #	Sample Identification #
UPRR-NY14-SUP-1	UPRR-PBP-SFE-01
UPRR-ES15-SUP-3	UPRR-PBP-EFS-01
UPRR-NY07-SUP-1	UPRR-PBP-E-BTE-01
UPRR-GS09-SUP-1	UPRR-PBP-E-BTW-01
UPRR-GS08-SUP-1	UPRR-PBP-E-SFW-01

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

No, a laboratory case narrative was not included with the SDG.

2.0 Laboratory Case Narrative or Cooler Receipt Form?

Were problems noted in the laboratory case narrative which are not discussed in subsequent sections?

A laboratory case narrative was not supplied with this SDG. No problems were noted on the cooler receipt form.

3.0 Holding Times and Preservatives

Were samples extracted/analyzed within QAPP limits?

Yes.

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No.

Blank ID	Analyte	Concentration
N/A		

Qualifications due to blank contamination are included in the table below. Analytical data which were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Analyte	New RL	Qualification
N/A			

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes.

LCS ID	LCS Compound	LCS Recovery	LCS Criteria	DCS RPD	RPD Criteria
N/A					

Analytical data, which required qualification based on LCS data, are included in the table below. Analytical data, which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Analyte	Qualification
N/A		

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Not applicable, samples were analyzed for lead only.

Field ID	Surrogate	Recovery	Criteria	Action
N/A				

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

Yes, a sample not included as part of this SDG was used as the MS sample.

Were MS/MSD recoveries within evaluation criteria?

Several recoveries were outside evaluation criteria. Since the spike sample was not a sample included as part of this SDG, no qualification of data was required.

MS/MSD ID	Analyte	MS/MSD/RPD Recovery	Criteria
N/A			

8.0 Lab Duplicate Results

Were lab duplicates samples collected as part of this SDG?

Yes, a sample not included as part of this SDG was used as the MS sample.

Were laboratory duplicate sample RPDs within criteria?

All RPDs were within evaluation criteria except for zinc. Since the duplicate sample was not a sample included as part of this SDG, no qualification of data was required.

9.0 Field Duplicate Results

Were field duplicates samples collected as part of this SDG?

No.

Were field duplicates within evaluation criteria?

N/A.

Field ID	Field Duplicate ID	Analyte	Qual
N/A			

10.0 Sample Dilutions

Were samples diluted which exceed 10X QAPP limits?

Yes; however, the analyte was detected.

Field ID	Analysis	Analyte	Dilution Factor
N/A			

11.0 Additional Qualifications

Were additional qualifications applied?

No.

Field ID	Analyte	New RL	Qualification
N/A			

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ANALYTICAL REPORT

URS CORPORATION 9617
JOHN CARSON
101 S. 108TH AVE.
OMAHA, NE 68154

Lab Number: 00-A96291
Sample ID: UPRR-NY14-SUP-1
Sample Type: Soil
Site ID:

Date Collected: 7/ 8/00
Time Collected: 10:30
Date Received: 7/11/00
Time Received: 9:00

Project: 45.091MC204.04
Project Name: UPRR IM
Sampler: M MCINTOSH

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	2020	mg/kg	1.01	1.00	1	7/13/00	8:24	G.Robinson	6010B	3236

ND = Not detected at the report limit.

All results reported on a wet weight basis.

These results relate only to the items tested.
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Report Approved By: Gail A Lage Report Date: 7/13/00

Theodore J. Duello, Ph.D., Technical Serv.
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A Lage, Technical Serv.
Paul E. Lane, Jr., Lab Director
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

End of Sample Report.

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ANALYTICAL REPORT

URS CORPORATION 9617
JOHN CARSON
101 S. 108TH AVE.
OMAHA, NE 68154

Lab Number: 00-A96293
Sample ID: UPRR-NY07-SUP-1
Sample Type: Soil
Site ID:

Date Collected: 7/ 8/00
Time Collected: 10:15
Date Received: 7/11/00
Time Received: 9:00

Project: 45.091MC204.04
Project Name: UPRR IM
Sampler: M MCINTOSH

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	544.	mg/kg	0.996	0.996	1	7/13/00	8:24	G.Robinson	6010B	3236

ND = Not detected at the report limit.

All results reported on a wet weight basis.

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End of Sample Report.

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ANALYTICAL REPORT

URS CORPORATION 9617
JOHN CARSON
101 S. 108TH AVE.
OMAHA, NE 68154

Project: 45.091MC204.04
Project Name: UPRR IM
Sampler: M MCINTOSH

Lab Number: 00-A96294
Sample ID: UPRR-6S09-SUP-1
Sample Type: Soil
Site ID:

Date Collected: 7/10/00
Time Collected: 9:50
Date Received: 7/11/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	554.	mg/kg	0.952	0.952	1	7/13/00	8:24	G.Robinson	6010B	3236

ND = Not detected at the report limit.

All results reported on a wet weight basis.

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Report Approved By: [signature]

Report Date: 7/13/00

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ANALYTICAL REPORT

URS CORPORATION 9617
JOHN CARSON
101 S. 108TH AVE.
OMAHA, NE 68154

Lab Number: 00-A96295
Sample ID: UPRR-6S08-SUP-1
Sample Type: Soil
Site ID:

Date Collected: 7/10/00
Time Collected: 9:40
Date Received: 7/11/00
Time Received: 9:00

Project: 45.091MC204.04
Project Name: UPRR IM
Sampler: M MCINTOSH

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS*										
Lead	331.	mg/kg	0.952	0.952	1	7/13/00	8:24	G.Robinson	6010B	3236

ND = Not detected at the report limit.

All results reported on a wet weight basis.

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 7/13/00

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PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Analyte	Units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
Benzene	mg/kg	< 0.0020	0.0525	0.0500	105	60. - 115.	3377	blank
Chlorobenzene	mg/kg	< 0.0020	0.0479	0.0500	96	59. - 141.	3377	blank
1,1-Dichloroethene	mg/kg	< 0.0020	0.0516	0.0500	103	64. - 119.	3377	blank
Toluene	mg/kg	< 0.0020	0.0520	0.0500	104	46. - 114.	3377	blank
Trichloroethene	mg/kg	< 0.0020	0.0516	0.0500	103	54. - 114.	3377	blank
Antimony	mg/kg	27.490	104.962	100.000	77*	80 - 120	3236	Duplicate
Arsenic	mg/kg	37.450	50.763	20.000	67*	80 - 120	3236	Duplicate
Beryllium	mg/kg	< 0.996	8.206	10.000	82	80 - 120	3236	Duplicate
Cadmium	mg/kg	1.195	16.985	20.000	79*	80 - 120	3236	Duplicate
Chromium	mg/kg	9.761	39.886	40.000	75*	80 - 120	3236	Duplicate
Copper	mg/kg	164.741	167.748	50.000	6*	80 - 120	3236	Duplicate
Mercury	mg/kg	< 0.100	0.168	0.170	99	80 - 120	3086	00-A96450
Nickel	mg/kg	15.538	87.405	100.000	72*	80 - 120	3236	Duplicate
Selenium	mg/kg	1.793	16.794	20.000	75*	80 - 120	3236	Duplicate
Silver	mg/kg	2.789	9.351	10.000	66*	80 - 120	3236	Duplicate
Thallium	mg/kg	< 0.996	8.779	20.000	44*	80 - 120	3236	Duplicate
Zinc	mg/kg	260.956	324.427	100.000	63*	80 - 120	3236	Duplicate

Matrix Spike Duplicate

Analyte	Units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Benzene	mg/kg	0.0525	0.0529	0.76	25.	3377
Chlorobenzene	mg/kg	0.0479	0.0480	0.21	30.	3377
1,1-Dichloroethene	mg/kg	0.0516	0.0518	0.39	33.	3377
Toluene	mg/kg	0.0520	0.0528	1.53	28.	3377
Trichloroethene	mg/kg	0.0516	0.0522	1.16	32.	3377
Antimony	mg/kg	104.962	109.467	4.20	20	3236
Arsenic	mg/kg	50.763	54.241	6.62	20	3236
Beryllium	mg/kg	8.206	9.073	10.04	20	3236
Cadmium	mg/kg	16.985	19.329	12.91	20	3236
Chromium	mg/kg	39.886	46.154	14.57	20	3236
Copper	mg/kg	167.748	180.868	7.53	20	3236
Lead	mg/kg	627.863	564.103	10.70	20	3236
Mercury	mg/kg	0.168	0.181	7.45	20	3086
Nickel	mg/kg	87.405	96.647	10.04	20	3236
Selenium	mg/kg	16.794	18.343	8.82	20	3236
Silver	mg/kg	9.351	11.243	18.37	20	3236
Thallium	mg/kg	8.779	10.651	19.27	20	3236
Zinc	mg/kg	324.427	416.174	24.78*	20	3236

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PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Antimony	mg/kg	100.000	85.600	86	70 - 130	3236
Arsenic	mg/kg	20.000	18.000	90	70 - 130	3236
Bergllium	mg/kg	10.000	8.600	86	70 - 130	3236
Cadmium	mg/kg	20.000	18.400	92	70 - 130	3236
Chromium	mg/kg	40.000	35.600	89	70 - 130	3236
Copper	mg/kg	50.000	45.800	92	70 - 130	3236
Lead	mg/kg	100.000	84.600	85	70 - 130	3236
Mercury	mg/kg	0.170	0.170	100	85 - 115	3086
Nickel	mg/kg	100.000	82.000	82	70 - 130	3236
Selenium	mg/kg	20.000	17.800	89	70 - 130	3236
Silver	mg/kg	10.000	9.200	92	70 - 130	3236
Thallium	mg/kg	20.000	19.200	96	70 - 130	3236
Zinc	mg/kg	100.000	86.600	87	70 - 130	3236
Acetone	mg/kg	0.2500	0.2930	117	33 - 153	3377
Benzene	mg/kg	0.0500	0.0538	108	77 - 119	3377
Bromobenzene	mg/kg	0.0500	0.0540	108	88 - 113	3377
Bromochloromethane	mg/kg	0.0500	0.0530	106	62 - 134	3377
Bromoform	mg/kg	0.0500	0.0526	105	70 - 132	3377
Bromomethane	mg/kg	0.0500	0.0489	98	60 - 137	3377
2-Butanone	mg/kg	0.2500	0.2870	115	60 - 137	3377
n-Butylbenzene	mg/kg	0.0500	0.0484	97	71 - 124	3377
sec-Butylbenzene	mg/kg	0.0500	0.0523	105	86 - 117	3377
t-Butylbenzene	mg/kg	0.0500	0.0536	107	88 - 116	3377
Carbon disulfide	mg/kg	0.0500	0.0523	105	75 - 132	3377
Carbon tetrachloride	mg/kg	0.0500	0.0517	103	76 - 121	3377
Chlorobenzene	mg/kg	0.0500	0.0488	98	73 - 132	3377
Chloroethane	mg/kg	0.0500	0.0534	107	75 - 126	3377
2-Chloroethylvinylether	mg/kg	0.2500	0.2740	110	78 - 120	3377
Chloroform	mg/kg	0.0500	0.0511	102	77 - 119	3377
Chloromethane	mg/kg	0.0500	0.0487	97	68 - 138	3377
2-Chlorotoluene	mg/kg	0.0500	0.0525	105	84 - 114	3377
4-Chlorotoluene	mg/kg	0.0500	0.0496	99	80 - 117	3377
1,2-Dibromo-3-chloropropane	mg/kg	0.0500	0.0548	110	46 - 148	3377
Dibromochloromethane	mg/kg	0.0500	0.0512	102	77 - 131	3377
1,2-Dibromoethane	mg/kg	0.0500	0.0509	102	82 - 124	3377
Dibromomethane	mg/kg	0.0500	0.0548	110	78 - 121	3377
1,2-Dichlorobenzene	mg/kg	0.0500	0.0532	106	84 - 116	3377
1,3-Dichlorobenzene	mg/kg	0.0500	0.0536	107	78 - 120	3377
1,4-Dichlorobenzene	mg/kg	0.0500	0.0522	104	75 - 122	3377
Dichlorodifluoromethane	mg/kg	0.0500	0.0459	92	62 - 133	3377
1,1-Dichloroethane	mg/kg	0.0500	0.0520	104	78 - 126	3377
1,2-Dichloroethane	mg/kg	0.0500	0.0505	101	79 - 116	3377

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	Units	Known Val.	Analyzed Val	% Recovery	Target Range	R.C. Batch
1,1-Dichloroethene	ug/kg	0.0500	0.0517	103	79 - 122	3377
cis-1,2-Dichloroethene	ug/kg	0.0500	0.0518	104	81 - 121	3377
trans-1,2-Dichloroethene	ug/kg	0.0500	0.0514	103	77 - 129	3377
1,2-Dichloropropane	ug/kg	0.0500	0.0547	109	78 - 120	3377
1,3-Dichloropropane	ug/kg	0.0500	0.0555	111	75 - 121	3377
2,2-Dichloropropane	ug/kg	0.0500	0.0501	100	65 - 130	3377
1,1-Dichloropropene	ug/kg	0.0500	0.0509	102	80 - 121	3377
cis-1,3-Dichloropropene	ug/kg	0.0500	0.0531	106	69 - 128	3377
trans-1,3-Dichloropropene	ug/kg	0.0500	0.0534	107	69 - 126	3377
Ethylbenzene	ug/kg	0.0500	0.0483	97	78 - 120	3377
Hexachlorobutadiene	ug/kg	0.0500	0.0456	91	62 - 128	3377
2-Hexanone	ug/kg	0.2500	0.3090	124	60 - 144	3377
Isopropylbenzene	ug/kg	0.0500	0.0520	104	87 - 116	3377
4-Isopropyltoluene	ug/kg	0.0500	0.0501	100	81 - 118	3377
4-Methyl-2-pentanone	ug/kg	0.2500	0.2890	116	68 - 135	3377
Methylene chloride	ug/kg	0.0500	0.0549	110	79 - 129	3377
Naphthalene	ug/kg	0.0500	0.0501	100	62 - 140	3377
n-Propylbenzene	ug/kg	0.0500	0.0516	103	84 - 117	3377
Styrene	ug/kg	0.0500	0.0481	96	85 - 117	3377
1,1,1,2-Tetrachloroethane	ug/kg	0.0500	0.0498	100	82 - 122	3377
1,1,2,2-Tetrachloroethane	ug/kg	0.0500	0.0514	103	75 - 136	3377
Tetrachloroethene	ug/kg	0.0500	0.0476	95	82 - 116	3377
Toluene	ug/kg	0.0500	0.0535	107	76 - 117	3377
1,2,3-Trichlorobenzene	ug/kg	0.0500	0.0482	96	63 - 135	3377
1,2,4-Trichlorobenzene	ug/kg	0.0500	0.0463	93	53 - 140	3377
1,1,1-Trichloroethane	ug/kg	0.0500	0.0510	102	79 - 121	3377
1,1,2-Trichloroethane	ug/kg	0.0500	0.0550	110	72 - 123	3377
Trichloroethene	ug/kg	0.0500	0.0534	107	78 - 116	3377
1,2,3-Trichloropropane	ug/kg	0.0500	0.0511	102	73 - 130	3377
1,2,4-Trimethylbenzene	ug/kg	0.0500	0.0515	103	81 - 116	3377
1,3,5-Trimethylbenzene	ug/kg	0.0500	0.0518	104	83 - 116	3377
Vinyl chloride	ug/kg	0.0500	0.0565	113	83 - 131	3377
Xylenes, Total	ug/kg	0.1500	0.1423	95	81 - 117	3377
Bromodichloromethane	ug/kg	0.0500	0.0537	107	74 - 125	3377
Trichlorofluoromethane	ug/kg	0.0500	0.0491	98	76 - 120	3377

Blank Data

Analyte	Blank Value	Units	R.C. Batch
Antimony	< 10.000	ug/kg	3236
Arsenic	< 1.000	ug/kg	3236

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
Beryllium	< 1.000	mg/kg	3236
Cadmium	< 1.000	mg/kg	3236
Chromium	< 1.000	mg/kg	3236
Copper	< 1.000	mg/kg	3236
Lead	< 1.000	mg/kg	3236
Mercury	< 0.100	mg/kg	3086
Nickel	< 1.000	mg/kg	3236
Selenium	< 1.000	mg/kg	3236
Silver	< 1.000	mg/kg	3236
Thallium	< 1.000	mg/kg	3236
Zinc	< 10.000	mg/kg	3236
Acetone	< 0.0100	mg/kg	3377
Benzene	< 0.0020	mg/kg	3377
Bromobenzene	< 0.0020	mg/kg	3377
Bromochloromethane	< 0.0020	mg/kg	3377
Bromoform	< 0.0020	mg/kg	3377
Bromomethane	< 0.0020	mg/kg	3377
2-Butanone	< 0.0100	mg/kg	3377
n-Butylbenzene	< 0.0020	mg/kg	3377
sec-Butylbenzene	< 0.0020	mg/kg	3377
t-Butylbenzene	< 0.0020	mg/kg	3377
Carbon disulfide	< 0.0020	mg/kg	3377
Carbon tetrachloride	< 0.0020	mg/kg	3377
Chlorobenzene	< 0.0020	mg/kg	3377
Chloroethane	< 0.0020	mg/kg	3377
2-Chloroethylvinylether	< 0.0020	mg/kg	3377
Chloroform	< 0.0020	mg/kg	3377
Chloromethane	< 0.0020	mg/kg	3377
2-Chlorotoluene	< 0.0020	mg/kg	3377
4-Chlorotoluene	< 0.0020	mg/kg	3377
1,2-Dibromo-3-chloropropane	< 0.0100	mg/kg	3377
Dibromochloromethane	< 0.0020	mg/kg	3377
1,2-Dibromoethane	< 0.0020	mg/kg	3377
Dibromomethane	< 0.0020	mg/kg	3377
1,2-Dichlorobenzene	< 0.0020	mg/kg	3377
1,3-Dichlorobenzene	< 0.0020	mg/kg	3377
1,4-Dichlorobenzene	< 0.0020	mg/kg	3377
Dichlorodifluoromethane	< 0.0020	mg/kg	3377
1,1-Dichloroethane	< 0.0020	mg/kg	3377
1,2-Dichloroethane	< 0.0020	mg/kg	3377
1,1-Dichloroethene	< 0.0020	mg/kg	3377
cis-1,2-Dichloroethene	< 0.0020	mg/kg	3377

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
trans-1,2-Dichloroethene	< 0.0020	mg/kg	3377
1,2-Dichloropropane	< 0.0020	mg/kg	3377
1,3-Dichloropropane	< 0.0020	mg/kg	3377
2,2-Dichloropropane	< 0.0020	mg/kg	3377
1,1-Dichloropropene	< 0.0020	mg/kg	3377
cis-1,3-Dichloropropene	< 0.0020	mg/kg	3377
trans-1,3-Dichloropropene	< 0.0020	mg/kg	3377
Ethylbenzene	< 0.0020	mg/kg	3377
Hexachlorobutadiene	< 0.0020	mg/kg	3377
2-Hexanone	< 0.0100	mg/kg	3377
Isopropylbenzene	< 0.0020	mg/kg	3377
4-Isopropyltoluene	< 0.0020	mg/kg	3377
4-Methyl-2-pentanone	< 0.0100	mg/kg	3377
Methylene chloride	< 0.0020	mg/kg	3377
Naphthalene	< 0.0050	mg/kg	3377
n-Propylbenzene	< 0.0020	mg/kg	3377
Styrene	< 0.0020	mg/kg	3377
1,1,1,2-Tetrachloroethane	< 0.0020	mg/kg	3377
1,1,2,2-Tetrachloroethane	< 0.0020	mg/kg	3377
Tetrachloroethene	< 0.0020	mg/kg	3377
Toluene	< 0.0020	mg/kg	3377
1,2,3-Trichlorobenzene	< 0.0020	mg/kg	3377
1,2,4-Trichlorobenzene	< 0.0020	mg/kg	3377
1,1,1-Trichloroethane	< 0.0020	mg/kg	3377
1,1,2-Trichloroethane	< 0.0020	mg/kg	3377
Trichloroethene	< 0.0020	mg/kg	3377
1,2,3-Trichloropropane	< 0.0020	mg/kg	3377
1,2,4-Trimethylbenzene	< 0.0020	mg/kg	3377
1,3,5-Trimethylbenzene	< 0.0020	mg/kg	3377
Vinyl chloride	< 0.0020	mg/kg	3377
Xylenes, Total	< 0.0020	mg/kg	3377
Bromodichloromethane	< 0.0020	mg/kg	3377
Trichlorofluoromethane	< 0.0020	mg/kg	3377

End of Report for Project 199298

COOLER RECEIPT FORM

Client: URS BC# 199298

Cooler Received On: 7-11-00 And Opened On: 7-11-00 By: Craig Cothron

(Signature)

1. Temperature of Cooler when opened 5.5 DEGREES CELSIUS
2. Were custody seals on outside of cooler and intact?.....NO
   a. If yes,what kind and where: TAPE 2 Front /Back
   b. Were the signature and date correct?.....N/A
3. Were custody seals on containers intact?.....YES
4. Were custody papers inside cooler?.....YES
5. Were custody papers properly filled out (ink,signed,etc)?.....YES
6. Did you sign the custody papers in the appropriate place?.....YES
7. What kind of packing material was used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)?.....YES
9. Did all bottles arrive in good condition(unbroken)?.....YES
10. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES
11. Did all bottle labels and tags agree with custody papers?.....YES
12. Were correct bottles used for the analysis requested?.....YES
13. If present, was any observable VOA headspace present?.....NO
14. If present, were VOA vials checked for absence of air bubbles and noted if found?.....YES
15. Was sufficient amount of sample sent in each bottle?.....YES
16. Were correct preservatives used?.....YES
17. Corrective action taken, if necessary:
    a. Name of person contacted: SEE ATTACHED FOR RESOLUTION IF NEEDED
    b. Date:_____

URS Corporation

101 South 108 Avenue, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984 96617 199298

CHAIN OF CUSTODY RECORD

Project Name: UPRR IM	Project No.: 45.091MC204.04
Project Location: OMAHA SIDES	Project Manager: J. Smith
Sampler(s): M. McINTOSH	

Analytical Parameters: 6010 Total Lead; 8260 VOCs; 6010 Total Metals

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	6010 Total Lead	8260 VOCs	6010 Total Metals	Remarks
7/8/00	1030	X		UPRR-NY14-SUP-1	Soil	1	16 oz	X			4C° 96291
7/8/00	1000	X		UPRR-ES15-SUP-3	"	"	"	X			92
7/8/00	1015	X		UPRR-NY07-SUP-1	"	"	"	X			93
7/10/00	0950	X		UPRR-GS09-SUP-1	"	"	"	X			94
	0940	X		UPRR-GS08-SUP-1	"	"	"	X			95
	1400	X		UPRR-PBP-E-SFE-01	"	"	16 oz		X		96
	1400		X	"	"	"	4 oz		X		96
	1415	X		UPRR-PBP-E-EFS-01	"	"	16 oz		X		97
	1415		X	"	"	"	4 oz		X		97
	1430	X		UPRR-PBP-E-BTE-01	"	"	16 oz		X		98
	1430		X	"	"	"	4 oz		X		98
	1445	X		UPRR-PBP-E-BTW-01	"	"	16 oz		X		99
7/10/00	1445		X	"	"	"	4 oz		X		4C 96291 99

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by:	7/10/00	1400	Method of Shipment: FED EX	Quick Turn Around Requested!!! RETAIN ALL REMAINING SAMPLE FROM 6010 ANALYSIS for Possible TCLP to be directed AT A LATER DATE.
Received by:			Airbill No.: 8209673916 41	
Relinquished by:			Lab Address: Test America Nashville TN	
Received for Laboratory by:	7/11/00	900		

Custody.frm/jdg 3-09-92

White copy - Laboratory Yellow copy - Laboratory Pink copy - WCC

114519

URS Corporation

101 South 108 Avenue, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: UPRR IM

Project No.: 45091MC204.04

Project Location: OMAHA SHOPS

Project Manager: J. Smith

Sampler(s): M. McIntosh

Analytical Parameters: 8260 VOC; 6010 Total Metals

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	8260 VOC	6010 Total Metals	Remarks
7/10/00	1500	X		UPRR-PBP-E-SFW-01	Soil	1	16 oz		X	4C 96300
7/10/00	1500		X	"	"	1	4 oz	X		4C 96300

Signatures	Date	Time
Relinquished by:	7/10/00	1800
Received by:		
Relinquished by:		
Received for Laboratory by:	7/11/00	900

Shipping Details

Method of Shipment: FED EX

Airbill No.: 820967391641

Lab Address: Test America Nashville TN

Special Instructions

Quick Turnaround Requested !!!! Return All Remaining Sample from 6010 Analysis for possible TCLP to be directed at a later date.

Custody.frm/jdg 3-09-92

White copy - Laboratory Yellow copy - Laboratory Pink copy - WCC

114520

UPRR Data Review

Laboratory SDG: 00-A102630

Reviewer: Jeff Aust

Date Reviewed: 04/12/01

Sample Identification #	Sample Identification #
UPRR-GS04-SUP-007	UPRR-NY14-SUP-002
UPRR-SY01-SUP-001	UPRR-SY02-SUP-001
UPRR-SY03-SUP-001	UPRR-SY04-SUP-001

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

No, a laboratory case narrative was not included with the SDG.

2.0 Laboratory Case Narrative

Were problems noted in the laboratory case narrative or cooler receipt form which are not discussed in subsequent sections?

A laboratory case narrative was not supplied with this SDG. No problems were noted on the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes.

4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Field Blanks or Trip Blanks?

No.

Blank ID	Analyte	Concentration
N/A		

Qualifications due to blank contamination are included in the table below. Analytical

data which were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification.

Field ID	Analyte	New RL	Qualification	Assoc. Blank ID
N/A				

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes.

LCS ID	LCS Compound	LCS Recovery	LCS Criteria
N/A			

Analytical data, which required qualification based on LCS data, are included in the table below. Analytical data, which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Analyte	Qualification
N/A		

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Not applicable, samples were analyzed for lead only.

Field ID	Analysis	Surrogate	Recovery	Criteria	Action
N/A					

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

Yes, a sample not included as part of this SDG was used as the MS sample.

Were MS/MSD recoveries within evaluation criteria?

Yes.

MS/MSD ID	Analyte	MS/MSD Recovery (%)	RPD	Criteria
N/A				

8.0 Lab Duplicate Results

Were lab duplicates samples collected as part of this SDG?

No.

Were laboratory duplicate sample RPDs within criteria?

N/A.

9.0 Field Duplicate Results

Were field duplicates samples collected as part of this SDG?

No.

Field ID	Field Duplicate ID
N/A	

Were field duplicates within evaluation criteria?

N/A.

Field ID	Field Duplicate ID	Analyte	Qual
N/A			

10.0 Sample Dilutions

For samples which were diluted, were undiluted results also reported?

No.

Field ID	Analysis	Analyte	Dilution Factor
N/A			

11.0 Additional Qualifications

Were additional qualifications applied?

No.

Field ID	Analyte	New RL	Qualification	Comments
N/A				

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615-726-0177
Fax: 615-726-0954

ANALYTICAL REPORT

URS CORPORATION 9617
JOHN CARSON
101 S. 108TH AVE.
OMAHA, NE 68154

Lab Number: 00-A102630
Sample ID: UPRR-NY14-SVP-002
Sample Type: Soil
Site ID:

Date Collected: 7/21/00
Time Collected: 7:35
Date Received: 7/22/00
Time Received: 9:00

Project: #45091ML204.02
Project Name: OMAHA SHOPS IM
Sampler: M.M.

Analyte	Result	Units	Report Limit	Room Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	181.	mg/kg	0.956	0.956	1	7/24/00	13:24	G.Robinson	6010B	1201

ND = Not detected at the report limit.

All results reported on a wet weight basis.

These results relate only to the items tested.
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Report Approved By: E. Smith Report Date: 7/26/00

Theodore J. Duello, Ph.D., Technical Serv.
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A Lage, Technical Serv.
Paul E. Lane, Jr., Lab Director
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

End of Sample Report.

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ANALYTICAL REPORT

URS CORPORATION 9617
JOHN CARSON
101 S. 108TH AVE.
OMAHA, NE 68154

Lab Number: 00-A102629
Sample ID: UPRR-GS04-SVP-007
Sample Type: Soil
Site ID:

Date Collected: 7/21/00
Time Collected: 7:25
Date Received: 7/22/00
Time Received: 9:00

Project: #45091ML204.02
Project Name: OMAHA SHOPS IM
Sampler: M.M.

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
METALS										
Lead	170.	mg/kg	0.975	0.975	1	7/24/00	13:24	G.Robinson	6010B	1201

ND = Not detected at the report limit.

All results reported on a wet weight basis.

These results relate only to the items tested.
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Report Approved By: E. Smith

Report Date: 7/26/00

Theodore J. Duello, Ph.D., Technical Serv.
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End of Sample Report.

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PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
Benzene	mg/l	< 0.00100	0.04160	0.05000	83	53. - 134.	3323	BLANK
Chlorobenzene	mg/l	< 0.0010	0.0457	0.0500	91	62. - 131.	3323	BLANK
1,1-Dichloroethene	mg/l	< 0.00100	0.04550	0.05000	91	42. - 149.	3323	BLANK
Toluene	mg/l	< 0.00100	0.04230	0.05000	85	54. - 135.	3323	BLANK
Trichloroethene	mg/l	< 0.00100	0.04440	0.05000	89	51. - 139.	3323	BLANK

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Benzene	mg/l	0.04160	0.04260	2.38	25.	3323
Chlorobenzene	mg/l	0.0457	0.0466	1.95	25.	3323
1,1-Dichloroethene	mg/l	0.04550	0.04520	0.66	36.	3323
Toluene	mg/l	0.04230	0.04320	2.11	29.	3323
Trichloroethene	mg/l	0.04440	0.04420	0.45	30.	3323
Lead	mg/kg	234.951	238.462	1.48	20	1201

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Lead	mg/kg	100.000	110.600	111	70 - 130	1201
Acetone	mg/l	0.2500	0.2550	102	25 - 136	3323
Benzene	mg/l	0.05000	0.04110	82	73 - 113	3323
Bromobenzene	mg/l	0.0500	0.0504	101	80 - 127	3323
Bromochloromethane	mg/l	0.0500	0.0462	92	68 - 122	3323
Bromoform	mg/l	0.0500	0.0440	88	66 - 124	3323
Bromomethane	mg/l	0.0500	0.0411	82	54 - 141	3323
2-Butanone	mg/l	0.2500	0.2500	100	48 - 138	3323
n-Butylbenzene	mg/l	0.0500	0.0473	95	66 - 122	3323
sec-Butylbenzene	mg/l	0.0500	0.0481	96	73 - 127	3323
t-Butylbenzene	mg/l	0.0500	0.0478	96	74 - 133	3323
Carbon disulfide	mg/l	0.0500	0.0421	84	68 - 120	3323
Carbon tetrachloride	mg/l	0.05000	0.04580	92	70 - 122	3323
Chlorobenzene	mg/l	0.0500	0.0449	90	82 - 112	3323
Chloroethane	mg/l	0.0500	0.0423	85	67 - 126	3323
2-Chloroethylvinylether	mg/l	0.2500	0.2140	86	72 - 111	3323
Chloroform	mg/l	0.0500	0.0517	103	69 - 120	3323
Chloromethane	mg/l	0.0500	0.0478	100	58 - 140	3323
2-Chlorotoluene	mg/l	0.0500	0.0481	96	78 - 126	3323
4-Chlorotoluene	mg/l	0.0500	0.0490	98	77 - 127	3323
1,2-Dibromo-3-chloropropane	mg/l	0.0500	0.0478	96	57 - 151	3323

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	Units	Known Val.	Analyzed Val	% Recovery	Target Range	R.C. Batch
Dibromochloromethane	ug/l	0.0500	0.0493	99	77 - 127	3323
1,2-Dibromoethane	ug/l	0.0500	0.0460	92	78 - 122	3323
Dibromomethane	ug/l	0.0500	0.0496	99	70 - 118	3323
1,2-Dichlorobenzene	ug/l	0.0500	0.0488	98	74 - 128	3323
1,3-Dichlorobenzene	ug/l	0.0500	0.0482	96	64 - 141	3323
1,4-Dichlorobenzene	ug/l	0.0500	0.0483	97	70 - 127	3323
Dichlorodifluoromethane	ug/l	0.0500	0.0512	102	45 - 147	3323
1,1-Dichloroethane	ug/l	0.05000	0.04890	98	48 - 138	3323
1,2-Dichloroethane	ug/l	0.0500	0.0604	121	65 - 125	3323
1,1-Dichloroethene	ug/l	0.05000	0.04400	88	70 - 121	3323
cis-1,2-Dichloroethene	ug/l	0.0500	0.0505	101	70 - 120	3323
trans-1,2-Dichloroethene	ug/l	0.0500	0.0483	97	71 - 119	3323
1,2-Dichloropropane	ug/l	0.0500	0.0427	85	72 - 117	3323
1,3-Dichloropropane	ug/l	0.0500	0.0438	88	67 - 127	3323
2,2-Dichloropropane	ug/l	0.0500	0.0450	90	39 - 124	3323
1,1-Dichloropropene	ug/l	0.0500	0.0462	92	68 - 123	3323
cis-1,3-Dichloropropene	ug/l	0.0500	0.0435	87	62 - 122	3323
trans-1,3-Dichloropropene	ug/l	0.0500	0.0445	89	55 - 125	3323
Ethylbenzene	ug/l	0.05000	0.04250	85	78 - 119	3323
Hexachlorobutadiene	ug/l	0.0500	0.0412	82	55 - 136	3323
2-Hexanone	ug/l	0.2500	0.2310	92	55 - 136	3323
Isopropylbenzene	ug/l	0.0500	0.0480	96	77 - 125	3323
4-Isopropyltoluene	ug/l	0.0500	0.0467	93	69 - 128	3323
4-Methyl-2-pentanone	ug/l	0.2500	0.2260	90	59 - 134	3323
Methylene chloride	ug/l	0.0500	0.0479	96	63 - 125	3323
Naphthalene	ug/l	0.0500	0.0512	102	62 - 149	3323
n-Propylbenzene	ug/l	0.0500	0.0472	94	78 - 126	3323
Styrene	ug/l	0.0500	0.0449	90	82 - 122	3323
1,1,1,2-Tetrachloroethane	ug/l	0.0500	0.0458	92	83 - 121	3323
1,1,2,2-Tetrachloroethane	ug/l	0.0500	0.0460	92	74 - 123	3323
Tetrachloroethene	ug/l	0.05000	0.04380	88	79 - 111	3323
Toluene	ug/l	0.05000	0.04210	84	70 - 119	3323
1,2,3-Trichlorobenzene	ug/l	0.0500	0.0476	95	62 - 147	3323
1,2,4-Trichlorobenzene	ug/l	0.0500	0.0469	94	66 - 132	3323
1,1,1-Trichloroethane	ug/l	0.05000	0.05260	105	71 - 120	3323
1,1,2-Trichloroethane	ug/l	0.0500	0.0446	89	70 - 119	3323
Trichloroethene	ug/l	0.05000	0.04220	84	70 - 121	3323
1,2,3-Trichloropropane	ug/l	0.0500	0.0467	93	68 - 139	3323
1,2,4-Trimethylbenzene	ug/l	0.0500	0.0492	98	70 - 136	3323
1,3,5-Trimethylbenzene	ug/l	0.0500	0.0486	97	73 - 133	3323
Vinyl chloride	ug/l	0.0500	0.0422	84	61 - 143	3323
Xylenes, Total	ug/l	0.1500	0.1380	92	62 - 137	3323

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	Units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Bromodichloromethane	mg/l	0.0500	0.0462	92	71 - 117	3323
Trichlorofluoromethane	mg/l	0.0500	0.0532	106	65 - 124	3323

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
Lead	< 1.000	mg/kg	1201
Acetone	< 0.0050	mg/l	3323
Benzene	< 0.00100	mg/l	3323
Bromobenzene	< 0.0010	mg/l	3323
Bromochloromethane	< 0.0010	mg/l	3323
Bromoform	< 0.0010	mg/l	3323
Bromomethane	< 0.0010	mg/l	3323
2-Butanone	< 0.0050	mg/l	3323
n-Butylbenzene	< 0.0010	mg/l	3323
sec-Butylbenzene	< 0.0010	mg/l	3323
t-Butylbenzene	< 0.0010	mg/l	3323
Carbon disulfide	< 0.0010	mg/l	3323
Carbon tetrachloride	< 0.00100	mg/l	3323
Chlorobenzene	< 0.0010	mg/l	3323
Chloroethane	< 0.0010	mg/l	3323
2-Chloroethylvinylether	< 0.0025	mg/l	3323
Chloroform	< 0.0010	mg/l	3323
Chloromethane	< 0.0010	mg/l	3323
2-Chlorotoluene	< 0.0010	mg/l	3323
4-Chlorotoluene	< 0.0010	mg/l	3323
1,2-Dibromo-3-chloropropane	< 0.0050	mg/l	3323
Dibromochloromethane	< 0.0010	mg/l	3323
1,2-Dibromoethane	< 0.0010	mg/l	3323
Dibromomethane	< 0.0010	mg/l	3323
1,2-Dichlorobenzene	< 0.0010	mg/l	3323
1,3-Dichlorobenzene	< 0.0010	mg/l	3323
1,4-Dichlorobenzene	< 0.0010	mg/l	3323
Dichlorodifluoromethane	< 0.0010	mg/l	3323
1,1-Dichloroethane	< 0.00100	mg/l	3323
1,2-Dichloroethane	< 0.0010	mg/l	3323
1,1-Dichloroethene	< 0.00100	mg/l	3323
cis-1,2-Dichloroethene	< 0.0010	mg/l	3323
trans-1,2-Dichloroethene	< 0.0010	mg/l	3323
1,2-Dichloropropane	< 0.0010	mg/l	3323
1,3-Dichloropropane	< 0.0010	mg/l	3323

Project QC continued . . .

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Fax: 615-726-0954

PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
2,2-Dichloropropane	< 0.0010	mg/l	3323
1,1-Dichloropropene	< 0.0010	mg/l	3323
cis-1,3-Dichloropropene	< 0.0010	mg/l	3323
trans-1,3-Dichloropropene	< 0.0010	mg/l	3323
Ethylbenzene	< 0.00100	mg/l	3323
Hexachlorobutadiene	< 0.0010	mg/l	3323
2-Hexanone	< 0.0050	mg/l	3323
Isopropylbenzene	< 0.0010	mg/l	3323
4-Isopropyltoluene	< 0.0010	mg/l	3323
4-Methyl-2-pentanone	< 0.0050	mg/l	3323
Methylene chloride	< 0.0010	mg/l	3323
Naphthalene	< 0.0025	mg/l	3323
n-Propylbenzene	< 0.0010	mg/l	3323
Styrene	< 0.0010	mg/l	3323
1,1,1,2-Tetrachloroethane	< 0.0010	mg/l	3323
1,1,2,2-Tetrachloroethane	< 0.0010	mg/l	3323
Tetrachloroethene	< 0.00100	mg/l	3323
Toluene	< 0.00100	mg/l	3323
1,2,3-Trichlorobenzene	< 0.0010	mg/l	3323
1,2,4-Trichlorobenzene	< 0.0010	mg/l	3323
1,1,1-Trichloroethane	< 0.00100	mg/l	3323
1,1,2-Trichloroethane	< 0.0010	mg/l	3323
Trichloroethene	< 0.00100	mg/l	3323
1,2,3-Trichloropropane	< 0.0010	mg/l	3323
1,2,4-Trimethylbenzene	< 0.0010	mg/l	3323
1,3,5-Trimethylbenzene	< 0.0010	mg/l	3323
Vinyl chloride	< 0.0010	mg/l	3323
Xylenes, Total	< 0.00100	mg/l	3323
Bromodichloromethane	< 0.0010	mg/l	3323
Trichlorofluoromethane	< 0.0010	mg/l	3323

End of Report for Project 200899

TEST AMERICA, INC.

COOLER RECEIPT FORM

Client: URS Corporation BC# 200899

Cooler Received On: 7/22/00 And Opened On: 7/22/00 By: James Jacobs

James R. Jacobs
(Signature)

1. Temperature of Cooler when opened 4 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES (NO)
   a. If yes, how many, what kind and where:_____
   b. Were the seals intact, signed, and dated correctly?.....~~YES NO~~
3. Were custody seals on containers and intact?.....(NO) YES
4. Were custody papers inside cooler?.....(YES) NO
5. Were custody papers properly filled out (ink,signed,etc)?.....(YES) NO
6. Did you sign the custody papers in the appropriate place?.....(YES) NO
7. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
8. Was sufficient ice used (if appropriate)?.....(YES) NO
9. Did all bottles arrive in good condition(unbroken)?.....(YES) NO
10. Were all bottle labels complete (#,date,signed,pres,etc)?.....(YES) NO
11. Did all bottle labels and tags agree with custody papers?.....(YES) NO
12. Were correct bottles used for the analysis requested?.....(YES) NO
13. a. Were VOA vials received?.....(YES) NO
    b. Was there any observable head space present in any VOA vial?.....(NO) YES
14. Was sufficient amount of sample sent in each bottle?.....(YES) NO
15. Were correct preservatives used?.....(YES) NO
16. Corrective action taken, if necessary:

    See attached for resolution

URS Corporation 9617

101 South 108 Avenue, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: OMAHA SHOPS IM	Project No.: 45091MC204.02
Project Location: 11th + Nicholas	Project Manager: Smith
Sampler(s): JCMM	

Analytical Parameters: ~~200899~~ 6010 total lead; 8260 VOCs; 200899; 9617

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	6010 total lead	8260 VOCs									Remarks
7/21/00	0725	X		UPRR-GS04-SUP-007	Soil	1	4oz	X				102	629					4C
	0735	X		UPRR-NY14-SUP-002				X					630					
	0745	X		UPRR-SY01-SUP-001				X					631					
	0750	X		UPRR-SY02-SUP-001				X					632					
	0753	X		UPRR-SY03-SUP-001				X					633					
	0755	X		UPRR-SY04-SUP-001				X					634					
	1000	X	X	UPAS-SW	GW	3	40 ml VOA		X				635					4°C No HCl
				~~UR~~ UPAS-TB01		1	40 ml VOA		X			102	636					4°C Trip Blank

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by: [signature]	7/21/00	1500	Method of Shipment: FED EX	48 hour turnaround requested. Hold any remaining sample for possible TCLP analysis to be directed at a later date. - No HCL in VOAs due to Effervescence
Received by:			Airbill No.: 819731252766	
Relinquished by:			Lab Address: TAI, 2960 Creighton Foster Dr., NASHVILLE TN 37204-3719	
Received for Laboratory by: [signature]	7/22/00	900		

Custody.frm/jdg 3-09-92

White copy - Laboratory Yellow copy - Laboratory Pink copy - WCC

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