Site Investigation Report
Mississippi River Gateway Initiative
East St. Louis, Illinois

Prepared for:

The Department of the Army
Omaha District Corp of Engineers
Fort Crook Area
OFFUTT AFB, Nebraska 69119-0297

Prepared by:

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July 2002

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22 July 2002

Ms. Mary N. Darling
United States Army Corps of Engineers
Building 525
Castle Hall
Offutt AFB, NE 68113

Subject: Site Investigation Report
Mississippi River Gateway Initiative
East St. Louis, Illinois

Dear Ms. Darling:

Roy F. Weston, Inc. (WESTON) is pleased to submit three (3) copies of the draft Site Investigation Report associated with the Mississippi River Gateway Initiative, East St. Louis, Illinois. We have also forwarded three (3) copies of the Site Investigation Report to Mr. Dion Novak of the United States Environmental Protection Agency (U.S. EPA), Region V.

Please contact us at (847) 918-4000 if you have any questions or concerns.

Very truly yours,

ROY F. WESTON, INC.

Deepak L. Bhojwani
Project Manager

Richard H. Mehl, Jr.
Principal Project Manager

cc: Mr. Dion Novak, U.S. EPA, Region V

Enclosures

SITE INVESTIGATION REPORT
MISSISSIPPI RIVER GATEWAY INITIATIVE
EAST ST. LOUIS, ILLINOIS

Prepared for:

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Prepared and Approved By: Brain A. Voss, Project Engineer — Date: 7/22/02

Prepared and Approved By: Deepak L. Bhojwani, Project Manager — Date: 7/22/02

Prepared and Approved By: Richard H. Mehl, Jr., Principal Project Manager — Date: 7/22/02

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SECTION 1
INTRODUCTION

This Site Investigation Report (SIR) presents the results of the soil sampling program conducted at 18 investigative areas located in East St. Louis, St. Clair County, Illinois. This SIR has been prepared by Roy F. Weston, Inc. (WESTON®) for the United States Corps of Engineers (USACE).

1.1 SITE INVESTIGATION OBJECTIVES

The subject investigative areas are part of the Mississippi River Gateway Initiative. Twelve of these investigative areas surround former industrial properties included under the Mississippi River Gateway Initiative. The remaining six investigative areas, where elevated blood levels had been identified in children, are several city blocks in radius. The investigative areas consist of a mix of residential, commercial, and other properties. Previous sampling at the investigative areas and the associated industrial sites has indicated elevated lead levels in surface soil.

This investigation was conducted to confirm and expand on previous work and to provide the data required for assessing how dangerous the soil in the investigative areas is for residents of East St. Louis. Sample collection activities were structured to satisfy the data collection objectives listed below:

1. Verify the results of Phase I and Phase II soil sampling conducted by the Illinois Department of Public Health (IDPH);

2. Collect soil samples from the investigative areas that were either not sampled or were sampled during Phase I and II using a greater sample spacing than appropriate for confidently determining the extent of contamination;

3. Characterize the soil within the boundaries of each investigative area;

4. Delineate the lateral extent of lead contamination within each investigative area.

1.2 REPORT ORGANIZATION

This Work Plan is divided into four sections:

Section 1 – Section 1 provides the purpose and objective of the investigation. It provides background information on previous sampling activities conducted under the Mississippi River Gateway Initiative and specific information regarding each former industrial property and the investigative areas.

Section 2 – Section 2 provides an overview of the field investigation conducted. It presents the methodology and specific procedures employed during the field sampling activities.

Section 3 – Section 3 provides a comparison of the surface soil sample field and laboratory analytical results to screening levels and describes the extent of contamination based on this comparison.

Section 4 – Section 4 summarizes the major conclusions of the SIR, identifies data gaps, and provides recommendations for additional work at the sites.

1.3 BACKGROUND INFORMATION

1.3.1 Site Background/History

The following subsections provide a general description of the East St. Louis, Illinois area, the scope of the Mississippi River Gateway Initiative, and the previous investigations conducted.

1.3.1.1 Description of the East St. Louis Area

Most of East St. Louis is located on a floodplain known locally as American Bottoms, which is protected by a levee system. The topography of the East St. Louis area is predominantly flat with a slight slope toward the Mississippi River. In the past, many areas of East St. Louis were raised by filling the low-lying areas with fill material from various sources.

East St. Louis is bordered by National City and Fairmont City to the north; Washington Park, Belleville, and Alortion to the east; Sauget, Cahokia, and Centreville to the south; and the Mississippi River to the west. The City of East St. Louis encompasses approximately 8 square miles.

1.3.1.2 Scope of the Mississippi River Gateway Initiative

The Mississippi River Gateway Initiative was initiated by the U.S. Environmental Protection Agency (U.S. EPA) Region V. The project is supported by U.S. EPA Region VII, the U.S. Department of Housing and Urban Development (HUD), the Illinois Environmental Protection Agency (IEPA), the Missouri Department of Health (MDH), IDPH, and USACE. The Mississippi River Gateway Initiative was developed to investigate and address human health and environmental problems associated with hazardous and solid wastes, flooding, chemical disposal, and lead contamination in communities within Madison and St. Clair Counties, Illinois, and St. Louis County, Missouri. Currently, the Mississippi River Gateway Initiative focuses primarily on the western portions of Madison and St. Clair Counties.

The investigative areas included in this report consist of multiple properties extending out radially from each of the 12 subject sites. These 12 subject sites were formerly industrial sites that contain or are suspected to contain elevated levels of lead in soil. Six additional general areas were identified as having relatively denser concentrations of elevated blood levels in children and were incorporated into the scope of investigative activities. Land use within each investigative area varies and includes occupied or unoccupied residential and commercial properties, schools, playgrounds, churches, etc.

1.3.1.3 Previous Investigations

In the past, IDPH, in conjunction with the U.S. EPA, has implemented soil sampling programs at a total of 40 sites in East St. Louis. These activities were conducted in two phases (Phase I and

Phase II) at 40 former industrial sites. WESTON resampled 12 of the 40 sites IDPH/U.S. EPA previously investigated.

IDPH implemented the Phase I sampling program in 1999. The objective of the Phase I sampling was to determine the presence of elevated levels of lead in surface soil and to assess whether there was a correlation between elevated lead levels in soil and elevated blood lead levels in children residing in the East St. Louis area. During the Phase I sampling effort, approximately 180 samples were collected and analyzed for lead, 54 of these samples had a lead concentration greater than the cleanup standard for lead in soil (400 milligrams per kilogram [mg/Kg]) established in the *Tiered Approach to Corrective Action Objectives* (TACO) Title 35, Part 742 of the Illinois Administrative Code (35 IAC 742).

A Phase II soil sampling program was implemented in 2000 and focused on 25 sites. Sampling of these sites had shown lead levels in soil exceeding 400 mg/kg in Phase I samples. During the Phase II sampling effort, approximately 388 surface soil samples were collected and analyzed for lead. Of the 388 samples, 195 had a lead concentration greater than 400 mg/kg.

1.3.2 Site Descriptions

Twelve of the investigative areas are associated with former industrial properties. The remaining six sites are several city blocks in radius and have shown elevated blood lead levels in children. The former industrial sites consist of a variety of properties, most of which are abandoned, scattered throughout East St. Louis.

The background information for the former industrial properties and investigative areas was obtained from site background information involved agencies previously developed as well as historical Sanborn, topographical, and flood insurance maps; 1998 aerial photographs; observations made by field staff; and interviews with local residents during joint site inspections WESTON, USACE, and IDPH performed on 25 and 26 April 2001. The following text presents details on each of the 12

former industrial sites and its associated investigative areas. Also included are descriptions of the six general areas.

1.3.2.1 Site 121 – Adept Tool

The Adept Tool site is located at 1315 North 18th Street, East St. Louis, Illinois, and, prior to 1958, was occupied by a machinery manufacturer. The 1956 Sanborn map shows a machine shop on-site. The site is currently unused, and a deteriorated concrete foundation occupies a majority of the property. Thick vegetation consisting of small trees and brush is present along the perimeter of the slab. Numerous small trees and brush are also present on the slab growing between gaps and cracks within the concrete structure. Evidence of illegal dumping was observed and included general household wastes and rubbish. These wastes were present in most areas of the site with significant debris and litter present along the 18th Street boundary.

Residential properties bound the site is to the south, east, and north. An alley is present immediately west of the site separating it from a school maintenance yard located west of the alley on the north side of Lynch Avenue. An aboveground storage tank (AST) is located on the east side of the school maintenance yard property, immediately south of the site. Significant staining of the asphalt pavement surrounding the AST is evident. An abandoned school building (Charles Canady Elementary School) is present northwest of the site at the southeast corner of the 15th Street and Park Avenue intersection. The East St. Louis School District is reportedly planning to refurbish and reopen this school. A park equipped with a playground area is located approximately 400 feet (ft) north of the site at the northeast corner of the of the 15th Street and Lake Avenue intersection. A church is located at the northeast corner of the 18th Street and Lynch Avenue intersection.

Land use west of 15th Street, south of Lynch Avenue, and north of Natalie Avenue is primarily residential. Residential properties are located east of the site between 18th and 19th Streets. The former Pfizer Pigment plant (currently operated as Element is Pigments, Inc.) is located north of

Lynch Avenue, east of 19th Street (2001 Lynch Avenue). An athletic field is located at the southeast corner of the Lynch Avenue and 19th Street intersection.

1.3.2.2 Site 136 – National Iron Company/Tenco Metal Company/United Iron and Metal Company

The National Iron Company (National Iron)/Tenco Metal Company/United Iron and Metal Company (United Iron) site, located at 303 South 11th Street , East St. Louis, Illinois, at the northwest corner of the McCasland Avenue and South 11th Street intersection. The approximately 1.4-acre site was used as a scrap metal processing business prior to 1960. The 1956 Sanborn map indicates that National Iron occupied the eastern half of the block, located between South 10th and 11th Streets and McCasland and Converse Avenues. A dilapidated building is located at the southeast corner of the property.

Approximately 20 rusty 55-gallon drums were observed scattered within the interior of the dilapidated building. Evidence of illegal dumping of various household wastes and rubbish was also observed in the dilapidated building. A second smaller building, located along South 11th Street north of the dilapidated building, had a sign identifying the property as the Lefton Metals Rail Division. A chain-link fence surrounds the entire block between South 10th and 11th Streets and McCasland and Converse Avenues with gates located along McCasland Avenue and South 11th Street. Based on a review of historical Sanborn maps, only the southeastern portion of the site is believed to have been operated as the steel processing facility.

Various debris are scattered throughout the site, and a large pile of scrap metal (presumably steel belts from shredded tires) is located at the north central portion of the site, north of the former steel processing facility's footprint. An area of stressed vegetation was observed in the central portion of the site north of the McCasland Avenue access gate along the western border of the former steel processing facility. Portions of the site also appear to have been filled as piles of soil and pieces of broken asphalt were observed. An apparently unused railway line is located along Converse Avenue

(operated by the Terminal Rail Road Association [Terminal] according to the 1956 Sanborn map). A rail spur from the Terminal railway enters the property from the northeast corner of the site.

Land use surrounding the property is a mixture of vacant parcels and residential, industrial, commercial, and institutional properties. A public housing development is located southeast of the site, east of South 11th Street and north of Bond Avenue. A former industrial property with a large, dilapidated brick building (a feed and fertilizer warehouse according to the 1956 Sanborn map) is located east of the property along South 11th Street, north of McCasland Avenue. Sparsely populated residential properties are located west and south of the site. A large, apparently inactive, trucking facility is located immediately north of Converse Avenue. A large, open excavation was observed on the east side of the trucking facility, approximately 200 feet (ft) north of the site. The excavation is located adjacent to a former refueling facility for the trucking property and was presumably constructed to facilitate removal of underground storage tanks (USTs) associated with truck refueling operations. Lincoln Middle School (1201 Bond Avenue) is located approximately 700 ft east of the site along Bond Avenue between 12th and 14th Streets. A children's daycare facility with an outdoor playground is located approximately 700 ft east of the site in the public housing community center (1235 McCasland Avenue), immediately north of the school, at the northeast corner of the intersection of 12th Street and McCasland Avenue.

1.3.2.3 Site 141 – Reese Sheet Metal Works

According to local residents, a former sheet metal fabricator was part of Reese Hardware, which was located in a two-story building at the northeast corner of the 10th Street and Missouri Avenue intersection. The exact street address of the site is 206 North 10th Street, East St. Louis, Illinois. Records indicate that the sheet metal fabricator was in operation prior to 1955. The 1956 Sanborn map indicates that the building was present with the northern portion being used as a tin shop. The sheet metal fabricator building occupies a majority of the 0.3-acre site, which is currently part of a larger property parcel developed and operated as a daycare facility (Kim's Kids, 1001 Missouri Avenue). The sheet metal fabricator building is present on southern portion of the daycare property

and is utilized by the daycare facility. A small, outdoor playground is located east of the sheet metal fabricator building, and a small landscaped area is located between the sheet metal fabricator building and the daycare's newer building (formerly operated as a restaurant), located on the northern portion of the property.

Land use in the vicinity of the site is a mixture of commercial, residential, and vacant properties. Residential properties are located east of the site along Gaty, St. Louis, and Cleveland Avenues, east of 10th Street. Commercial properties are present west of 10th Street. The property immediately east of the site on Missouri Avenue is the former Bradley Electric facility. Bradley Electric still owns the property and uses it as a storage area; however, the company expanded and relocated to a larger parcel of land immediately west of the site. The newer Bradley Electric facility is located on the block between 9th and 10th Streets and Missouri and Gaty Avenues. A Wendy's restaurant is located north of the site at the southwest corner of the St. Louis Avenue and 10th Street intersection. A commercial building is located at the southwest corner of the Missouri Avenue and the 10th Street intersection. Additional commercial buildings are located east of the site along Missouri Avenue. An abandoned self-service car wash is present at the northeast corner of 10th Street and Gaty Avenue intersection. Residential properties are located east of the abandoned car wash and Kim's Kids daycare along Gaty Avenue. A nightclub (apparently a former gas station) is located at the southeast corner of the 10th Street and St. Louis Avenues intersection, and a mixture of commercial and residential properties are east of 10th Street along St. Louis Avenue.

1.3.2.4 Site 143 – Bauer Sheet Metal Works

Prior to 1955, this former sheet metal fabricator occupied the building located at 1502 State Street in East St. Louis. Land Sheet Metal Works occupied the site prior to 1949. The 1956 Sanborn map indicates that a sheet metal works occupied the building. A chain-link fence is present around the perimeter of the approximately 0.3-acre site. The one-story brick building currently appears to be unused, and all windows and doors to the building are boarded. The building occupies

approximately one-half of the property, and the other half consists of a gravel parking area and grassy areas.

Land use in the vicinity of the site is a mixture of residential, commercial, and abandoned/vacant properties. The Gibson Health Services facility occupies the property immediately west of the site on State Street (1468 State Street). A vacant lot on State Street borders the site to the east. Beyond the vacant lot is a commercial clothing store (Jeans & Things) at the southwest intersection of State and 16th Streets. The site is bordered to the south by residential properties located along Hall Avenue, and additional residential properties are present on both sides of 15th Street between Belmont and Ohio Avenues north of State Street and Hall and Henrietta Avenues which are south of State Street. North of the site, the East Saint Louis Monitor newspaper office (1501 State Street) is located across State Street at the northeast corner of the 15th and State Streets intersection. Commercial/abandoned buildings are located along State Street east of 15th Street. A commercial building is located on the northwest corner of the 15th and State Streets intersection, and a dilapidated apartment building (reportedly occupied) is located on State Street west of the commercial building. South of Henrietta Avenue between Washington Place 16th Street, a daycare facility with an outdoor playground is located approximately 700 ft southwest of the site behind the Saint Joseph Head Start Center (1501 Martin Luther King Drive). Another daycare facility with an outdoor playground is located approximately 500 ft northwest of the site behind the Community Mission Church (518 Washington Place), which is located at the southeast corner of the Belmont Avenue and Washington Place intersection.

1.3.2.5 Site 145 – Shipper's Car Line

Prior to 1951, the Shipper's Car Line site, a 1.7-acre site located at 100 Trendley Avenue, East St. Louis, Illinois, was operated as a train tanker car repair facility. The building that the repair facility previously occupied is located west of Main Street at the intersection of Market Avenue and Main Street and is currently used by Fresh Warehousing for warehousing food additives. The 1956 Sanborn map indicates that the building was occupied by Ramapo Ajax, a division of the American

Brake Shoe and Foundry Company. The Sanborn map shows the building as including a machine shop, a forge shop, and an erecting shop. A gravel truck trailer parking area is present at the southern portion of the property, and an asphalt-paved parking area is present east of the building along main Street.

A roundhouse facility a 5.2-acre industrial site in the immediate vicinity of the Shipper's Car Line site is located south of Trendley Avenue between the Illinois Central and GM&O railway lines. Semicircular footprints of the repair bays and turntable are evident in the 1998 aerial photograph as are several roads/walkways and footprints of former buildings associated with the roundhouse operations. The 1956 Sanborn map indicates that Illinois Central operated the roundhouse facility. Most portions of the roundhouse facility are overgrown with dense vegetation, except for areas of pavement remaining from the former facility. Evidence of fly dumping of various wastes (primarily household wastes) was observed in areas of the site near Trendley Avenue and along the eastern side of the property.

Property use in the vicinity of the site is a mixture of vacant lots and residential properties. During the site inspection, the closest residence was observed at the northwest corner of the 4th Street and Market Avenue intersection; however, this residence is burned-out and unoccupied. A dilapidated apartment building (reportedly occupied) is present at the southwest corner of the 4th Street and Market Avenue intersection. Two houses are also located at the northeast corner of the 4th Street and Trendley Avenue intersection. The reminder of the surrounding property is vacant or abandoned parcels. Approximately ½ acre of the vacant parcel immediately east of the 4th Street and Market Avenue intersection is used by local residents as a vegetable garden. Interstate 55 is located approximately 250 ft east of the site and surrounding residences at an elevation approximately 20 ft higher than the surrounding grade. An Illinois Central railway line is located immediately west of the site and is approximately 15 feet higher than the surrounding terrain. Vacant parcels are located on both sides of Main Street immediately south of the site, north of Trendley Avenue. The vacant parcel located on the northwest corner of Trendley Avenue and Main Street is a grassy lot with a few trees and large areas of pavement and/or clay brick driveways; the parcel on the northeast

corner of the Trendley Avenue and Main Street intersection is overgrown with trees and underbrush. Vacant parcels are also present on both the north and south sides of Bond Street between Main and 4th Streets. These parcels are primarily vegetated with grass and weeds.

1.3.2.6 Sites 155/158 - Flannery and Sons/Flannery Concrete Company

The Flannery Concrete sites are comprised of two parcels in East St. Louis, Illinois. Prior to 1955 the Flannery and Sons parcel (Site 155) operated on the north side of State Street, west of 22nd Street (2105 State Street). Prior to 1970, the Flannery Concrete Company (Site 158), a ready-mix concrete producer, operated a parcel on the east side of 20th Street, south of State Street (574 North 20th Street). Prior to 1949, Site 158 was occupied by Flannery Building Materials, Inc.

Site 155 is currently occupied by the Rendezvous nightclub (2105 State Street), which is the only structure on the property. A majority of the approximately 4.4-acre property is a gravel parking lot; however, significant amounts of debris and rubbish were observed along the northern portion of the site along Ohio Avenue. During the site inspection a large mound of solidified concrete was present on the northwest portion of the site; however, it was removed prior to initiating fieldwork. A Terminal railway line is present along the western property line. The 1956 Sanborn shows a ready-mix concrete plant occupying the property.

Site 158 is an approximately 0.8-acre vacant parcel located along 20th Street. A large foundation presumably the footing for the former concrete facility, is present on the southern portion of the site. Approximately 15-foot-tall piles of fill, extending from approximately 30 ft east of 20th Street to the back of the parcel, which abuts the Terminal railway line running parallel to the western boundary of Site 155, are present south of the foundation. During the site inspection, the area north of the foundation was vacant. Some areas of the foundation were overgrown with brush, and several other areas were littered with debris consisting of scrap material and general refuse. Large piles of broken asphalt and fill are present in the northeast potion of the site.

Upon initiating the fieldwork, the ground surface of the area north of the foundation had been disturbed as all of the larger vegetation and debris had been cleared, and limited grading had occurred to level the topography. The asphalt and fill piles were not removed at the time fieldwork was performed. The 1956 Sanborn map indicates that the portion of the site the large foundation occupies was used as a private garage. The map indicates that a railway siding and spur also to the north of the former garage, were present along the currently vacant portion of the site. The Sanborn map shows the property immediately north of the former railway spur/siding as being occupied by a feed mill and warehouse operated by J.H. Wehmeier & Son Feed Company; and the property south of the former garage was occupied by the Union Electric Power Company of Illinois.

Land use in the vicinity of the sites is a mixture of residential, commercial, industrial, and vacant/abandoned properties. Commercial buildings are located along State Street; nearby businesses include a nightclub, a car wash, and a church. Residential properties are located east of the sites along 22nd Street both north and south of State Street. Residential properties are also located west of Site 158 along Wimmer Street, south of State Street. A large commercial/industrial facility (Switzer Food Supplies, 575 North 20th Street) is located on the west side of 20th Street, opposite of Site 158. A large area of vacant land is present along the east side of the Terminal railway line, west of the residences along 22nd Street between Ridge Avenue and State Street. The vacant property is indicated on the 1956 Sanborn map to have been a railway yard consisting of coal tracks for the East St. Louis and Belleville Electric Railway Company. Commercial/industrial properties are located along 20th Street north of State Street.

1.3.2.7 Site 157 - Republic Iron and Steel Works

The Republic Iron and Steel Works site is located in East St. Louis, Illinois, on Valentine Avenue, west of 10th Street. Site operations began prior to 1901. The exact location of the facility is uncertain; however, it is believed that the former steel and iron works occupied an approximately 1.6-acre triangular-shaped property that is currently overgrown with trees and brush. Two structures were observed on the site during the site inspection: a dilapidated house in the central portion of the

site and a slab foundation located on the northwestern portion of the property. Piles of debris and refuse were observed on the west end of the property.

An Illinois Central railway line is present along the western border of the property. Land west and southwest of the railway is vacant. Residential properties, vacant lots, and a dilapidated duplex are present along the north side of Valentine Avenue, northeast of the site. Two residential properties and a church are located along 10th Street south of Valentine and serve to form the southern boundary of the site. Interstate 55's on-/off-ramps are present approximately 300 ft northeast of the site. Residential properties are present along Piggott Avenue north of the Interstate 55 ramps. On the eastern side of 10th Street, a railway is present in the northern approach to the Douglas McArthur Bridge east of the site. Additional residential properties are on the eastern side of the bridge approach.

1.3.2.8 Site 160 – Vicinity of East Saint Louis Awning Company

Prior to 1958, the East Saint Louis Awning Company, located on a 0.2 acre parcel at 1901 Ridge Avenue, East St. Louis, Illinois, was located on the northeast corner of the Ridge Avenue and Gray Boulevard intersection. The 1956 Sanborn map indicates the building was occupied by a tent and awning manufacturer. A two-story brick building covers a majority of the property; however, a small area of grass lawn is located at the west end of the building. The property is currently used for residential purposes as the building is divided into several apartments.

The Gateway Paint Manufacturing Company (Gateway) was also located in the vicinity of the site at 1925 Ridge Avenue, East St. Louis, Illinois. Based on the street address of the Gateway facility, it is assumed to have been located in the abandoned facility located on the northwest corner of the Ridge Avenue and Wimmer Street intersection, immediately east of the East Saint Louis Awning Company property. The 1956 Sanborn map, however, identifies the property as the East St. Louis branch of the St. Louis Dairy Company. The current owner of the property indicated that the facility

was used as a dairy processor and a tractor truck parking/storage area but was unaware of any paint manufacturing activities

The approximately 1-acre site is completely paved with two large, dilapidated buildings present. The larger of the two buildings is located along the northern portion of the property, and the other building is located on the south side of the site along Ridge Avenue. The area between the two buildings is paved with concrete. Evidence of illegal dumping was observed throughout the site with wastes ranging from scrap tires and other larger debris to general household refuse, including household hazardous wastes (i.e., aerosol cans).

Land use west and north of the site is primarily residential; however, commercial properties are located along State Street to the north. Land use south of Ridge Avenue is a mixture of residential and commercial/industrial properties. Abandoned apartment buildings are located immediately north of the former East Saint Louis Awning Company building on the east side of Gray Boulevard. Single-family residences are located north of Ridge Avenue along Wimmer Street, Gray Boulevard, and 18th Street. A vacant lot is located at the northeast corner of the Wimmer Street and Ridge Avenue intersection. The 1956 Sanborn map indicates that the vacant parcel was formerly operated as a dairy and ice cream factory by the East St. Louis branch of the Borden Company. Foundation retaining walls were observed on the southwest portion of the vacant parcel during the site inspection. A Southern Railroad (Southern) railway line is located along the east side of the Borden Company's former facility. The former Union Electric Power Company of Illinois electrical substation is located east of the Southern railway line.

1.3.2.9 Site 173 – Darling & Company

The approximately 7.2-acre Darling and Company (Darling) site is located at the northeast corner of the Mississippi Avenue and Victory Drive intersection in East St. Louis, Illinois. The site was reportedly used prior to 1949 for production of various products, including fertilizer, tallow, and glue. According to local residents, the facility was used as a junkyard; the 1956 Sanborn maps

indicate the property was used for automobile wrecking operations. A local resident stated that upon closure of the junkyard, the eastern portion of the site, which was formerly topographically lower than the western portion of the site, was filled with debris from the junkyard and covered with fill. Numerous depressions were observed on the eastern portion of the site, presumably due to settlement of the overburden soil into void spaces within the underlying fill. Several small areas of fill (i.e., concrete, asphalt and other debris) and an area of stressed vegetation were observed at the ground surface on the eastern central portion of the site. Several concrete foundations remaining from previous structures as well as areas of asphalt paving are present on the western portion of the site.

The majority of the site was vegetated with grass that appeared to have been recently mowed. A drainage ditch is present along the southern property boundary, north of Victory Drive. An Illinois Central railway line and another drainage ditch are present along the eastern property boundary; however, these features were obstructed from view during the site inspection and fieldwork due to thick vegetation (small trees and underbrush) along the eastern edge of the site. An elevated railway line is present in the northern approach to the Douglas McArthur Bridge, which is approximately 30 ft higher than the site elevation, along the northern property boundary. Another elevated railway line is located approximately 500 ft south of the site in the southern approach to the Douglas McArthur Bridge. The trestles for both bridge approaches are reportedly painted with lead-based paint.

Land use within the site's vicinity is a mixture of residential properties and vacant or undeveloped land. Residential neighborhoods are located east and south of the site. Land use to the north and west includes vacant or undeveloped properties. Site 157 (Republic Iron and Steel Works) is located approximately 400 ft northeast of the site on the opposite side of the railway lines north and east of the Darling site. According to local residents, the vacant parcel at the southwest corner of the Sycamore and 10th Streets intersection was scheduled for use as a community garden; however, soil testing indicated elevated lead levels in the soil. Approximately 2 ft of clean fill was imported and used to cover the lead-contaminated soil on the western portion of this parcel; no soil cover had been placed on the eastern portion of the lot. Local residents also indicated that when some of the houses

were demolished at the now-vacant lots along Victory Drive and Sycamore Street, grading activities were performed, and soil may have been added or removed from the lot.

1.3.2.10 Site 178 – Voelker Plating Works

Voelker Plating Works occupied a building located behind the residential property at 535 26th Street, East St. Louis, Illinois. Portions of the former plating works had burned, such that only a third of the original building remains. The facility performed electroplating of metals at the location prior to 1959. A single-family home is located on the eastern portion of the property. Evidence of a underground storage tank was observed in the backyard, within the footprint of the former plating works building.

Surrounding land use is predominantly residential. A gasoline filling station is located at the northeast corner of the 25th and Louisiana Streets intersection, approximately 500 ft southeast of the site.

1.3.2.11 Site 185 – Blair-Tirrell Boiler Company

Prior to 1955, the former site of the Blair-Tirrell Boiler Company, a heating boiler manufacturer, was located at 815 South 19th Street in East St. Louis, Illinois, on the northwest corner of the 19th Street and Tudor Avenue intersection. The former heating boiler manufacturer occupied the approximately 0.5-acre site, which is currently used as a gravel parking lot for the A.M.E. Shiloh Church (815 South 19th Street). According to the church pastor, the building was erected in 1969. A gravel parking lot is located north of the church building at the southwest corner of the 19th Street and Tudor Avenue intersection. The parking lot is primarily graded with gravel, but strips of grass lawn are present along the north and east boundaries of the parcel. Grass lawn areas are also present along the sides and rear of the church building.

Land use within the site's vicinity is primarily residential and institutional. Dunbar Elementary School (1900 Tudor Avenue) is present at the northwest corner of the 19th Street and Tudor Avenue intersection on the opposite side of Tudor Avenue from the site. The A.M.E. Shiloh Church also owns an approximately 1.4-acre vacant property located at the southwest corner of the 19th Street and Baker Avenue intersection. The church intends to develop the lot for residential purposes. An elevated Southern railway line is located in the southern approach to the Douglas McArthur Bridge, immediately south of the vacant parcel. The railway line is approximately 20 ft higher in elevation than the surrounding properties, and the trestles supporting the bridge approach are reportedly painted with lead-based paint. A public housing project is located to the south along Boismenue Avenue, west of 19th Street. A vacant property is located at the southeast corner of the Boismenue Avenue and 19th Street intersection. Additional residential properties are located along Boismenue Avenue east of 19th Street. Land use along Tudor and Baker Avenues east of 19th Street is residential as is land use along Baker Avenue and the south side of Tudor Avenue, west of the church property.

1.3.2.12 General Area A

General Area A is bounded by McCasland Avenue to the northeast, 17th Street to the northwest, Trendley Avenue to the southwest, and 20th Street to the southeast. The entirety of Area A consists of residential properties; however, many parcels are vacant lots or abandoned residences.

1.3.2.13 General Area B

General Area B is bounded by Tudor Avenue to the northeast, 14th Street to the northwest, Wilford Avenue to the southwest, and 19th Street to the southeast. A majority of Area B is comprised of residential properties; however, many parcels are vacant lots or abandoned residences. Many of the properties in the western portion of Area B (in the vicinity of Wilford Avenue and 14th Street), are newer single and multifamily homes. Two large public housing developments are located in the northeastern portion of Area B in the area bounded by 16th and 19th Streets and Boisemenue and Russell Avenues. The Martin Van Lucas Elementary School is located south of the western public

housing development on the block bounded by 16th and 17th Streets and Russell and Gay Avenues. A playground is also located at the eastern corner of the 14th Street and Russell Avenue intersection.

1.3.2.14 General Area C

General Area C is bounded by Cleveland Avenue to the northeast, 14th Street and Columbia Place to the northwest, Division Avenue to the southwest, and 19 th Street to the southeast. A majority of Area C consists of residential properties; however, many parcels are vacant lots or abandoned residences. Few commercial properties are located within Area C, primarily along Missouri and St. Louis Avenues. A large public housing development is located west of the 15th Street and Missouri Avenue intersection.

1.3.2.15 General Area D

General Area D is bounded by Nectar Avenue to the northeast, 9th Street to the northwest, Baugh Avenue to the southwest, and 15th Street to the southeast. A majority of Area A consists of residential properties. However, many parcels are vacant lots or abandoned residences, and few commercial properties are present. Several public housing developments are located within Area D. Public housing developments are located north of the Exchange Avenue and 13th Street intersection, along the south side of Gross Avenue between 9th and 15th Streets. Public housing along Gross Avenue appears to be recently constructed, and a playground is located in the central quad area of the development south of the Gross Avenue and 9th Street intersection.

1.3.2.16 General Area E

General Area E is bounded by Summit Avenue to the north, Alhambra Court and 35th Street to the west, State Street to the south, and 41st Street to the east. The entirety of Area E consists of residential properties; however, many parcels are vacant lots or abandoned residences. In addition, several residences are used as commercial resident-operated daycare facilities.

1.3.2.17 General Area F

General Area F is bounded by Converse Avenue to the northeast, 26th Street to the northwest, Piggott Avenue to the southwest, and 37th Street to the southeast. The majority of Area F is comprised of residential properties; however, many parcels are vacant lots or abandoned residences. Alta Sita School is located at the northwest corner of Area F at the intersection of Bond Avenue and 26th Street. A large park, bounded by 35th and 36th Streets and Bond and Converse Avenues, is located on the southeast portion of Area F.

SECTION 2
FIELD INVESTIGATION PROCEDURES

This section presents a summary description of the overall soil sampling program implemented, including sampling locations and rationale, procedures used for collection, handling, and field analysis of samples. A summary of the laboratory analyses performed on the soil samples is also included.

2.1 PROJECT PHASING

The field investigation was conducted in three stages, referred to as Stages 1, 2, and 3. During Stage 1, soil samples were collected from the 12 former industrial properties as well as surrounding properties within each site's investigative area.

Results of the Stage 1 sampling were assessed, and the scope of the Stage 2 sampling was developed based on data gaps identified. During Stage 2, activities were performed at additional properties within each of the 12 former industrial site's investigative areas as well as on many of the properties sampled during Stage 1. Additional Stage 2 sampling was performed at properties previously sampled during Stage 1 of the fieldwork in order to better delineate the extent of contamination at the given property or, in certain instances, to confirm the analytical results obtained during Stage 1.

The scope of the Stage 3 sampling within the former industrial site's investigative areas was developed based on data gaps identified when evaluating the Stage 1 and 2 data. During Stage 3 of the field work, additional investigations were performed within investigative areas of the six former industrial properties (Sites 136, 141, 143, 155, 173, and 185). Stage 3 soil sampling activities also included investigation of the six general areas that were developed based on elevated blood lead

levels in children.

2.2 SUMMARY OF SAMPLING LOCATIONS AND IDENTIFIER CODES

Soil sampling was performed at each of the former industrial sites as well as at properties within the investigative area for each of the former industrial properties and properties located in Areas A through F. The number of sampling locations at each site was dependent upon the property size. In general, a minimum of two samples were collected at each property; the maximum number of sampling locations at each property did not exceed nine. Each of the sampling locations was surveyed using a global positioning system (GPS). Tables 2-1 through 2-12 present a list of the sampling locations at within the investigative areas for 121 through 185, respectively. Tables 2-13 through 2-18 list the sampling locations for general Areas A through F, respectively. Also presented in Tables 2-1 trough 2-18 are the state plane coordinates of each sampling location and a description of the property on which the sampling was conducted.

The location identifier codes used consist of the following components:

Investigative Area Identifier - A three digit code for the former industrial sites (e.g., 121, 136, etc.), or a one digit code for the general Areas A through F (e.g., A, B, etc.).

Property/Location Identifier - An alphanumeric code that represents the property within the investigative area (alphabetic) and the sampling location on the given property (numeric). Examples: A1 = Property A, Location 1; AB9 = Property AB, Location 9, etc.

Example sample location codes are as follows:

121 - R7 = Site 121, Property R, Location 7

A - C5 = General Area A, Property C, Location 5

Soil sample identifiers were developed by appending the sampling location identifier with the following:

Depth Interval Indicator - A one-digit code (1, 2, 3, or 4) indicating the 6-inch depth interval from which the sample was collected. 1 represents the uppermost interval (0 to 6 inches below ground surface [bgs]), 2 represents the second interval (6 to 12 inches bgs), etc.

Sample Round Identifier - A one-digit code (i.e., 1, 2, etc.) that represents the sample round at a given location and depth interval. One represents the first time the location/depth interval was sampled (Round 1); 2 indicates the second time the location/depth interval was sampled (Round 2); etc.

Example sample identifiers are as follow:

185 - A4 - 2- 1 = The first round of sampling, the second depth interval at Property A, Location 4 of Site 185's investigative area.

F - J6 - 3 - 2 = The second round of sampling, the third depth interval at Property J, Location 6 of general Area F.

2.3 SOIL SAMPLING AND ANALYSIS

The following subsections indicate the procedures used for sample collection and field analysis and offer a description of the rationale used in determining those samples sent for subsequent laboratory analysis.

2.3.1 Sample Collection and Field Analysis

The ground surface at each sampling location was cleared of any vegetation, and the exposed surface

soil was analyzed *in-situ* using an X-ray fluorescence (XRF) analyzer, which is a field instrument used to measure concentrations of inorganic chemicals. If the lead concentration of the exposed surface soil at a given location exceeded the screening level of 400 milligrams per kilogram (mg/kg), the upper 6 inches (0 to 6 inches bgs) of soil at the location were collected using a decontaminated bucket auger and placed a plastic bag for potential future sampling. The second 6-inch interval (6 to 12 inches bgs) was also removed using the bucket auger. The soil from the second interval was placed into a plastic bag, homogenized, analyzed using the XRF analyzer, and retained for potential future sampling. If the lead concentration in the second depth interval also exceeded 400 mg/kg, the third interval (12 to 18 inches bgs) was removed, homogenized, analyzed using the XRF analyzer, and retained. If the lead concentration in the third interval also exceeded 400 mg/kg, the soil from the fourth depth interval (18 to 24 inches bgs) was collected, homogenized, analyzed using the XRF analyzer, and retained for potential future sampling.

Occasionally when the XRF indicated that the lead concentration was below 400 mg/kg yet elevated concentrations of other inorganic chemicals such as chromium, mercury, etc., were present, samples were collected from below the uppermost interval for analysis. In addition, during Stage 3 of the fieldwork, a lead screening level of 1,000 mg/kg was used as the criterion for determining if borings would be advanced and samples would be collected from below the ground surface.

Over the course of the fieldwork, several different XRF units were used. Since the inorganic chemicals the XRF unit analyzes the XRF unit is dependant upon the radiation source(s) present in the instrument, there is variability in the analytes measured using the XRF devices. XRF Niton XL-700 series models (which use cadmium-109 as the base radiation source but may have additional elements added) were rented from the Niton Corporation of North Kingstown, Rhode Island, and were used for all XRF analyses.

2.3.2 Laboratory Analyses

Once all of the soil samples were collected from a given property, selected samples were containerized and sent for laboratory analysis by Accura Analytical Laboratory, Inc. (Accura) of Norcross, Georgia.

At each of the former industrial sites, the soil sample exhibiting the highest lead concentration (as measured using the XRF analyzer) was submitted for laboratory analysis of Target Compound List (TCL) parameters (volatile organic compounds [VOCs], semivolatile organic compounds [SVOCs], pesticides, and polychlorinated biphenyls [PCBs]). In addition, the surface soil (collected from the 0 to 6-inch bgs interval) and the subsurface soil sample (collected from below 6 inches bgs) containing the highest lead concentrations were sent for laboratory analysis of Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) analysis. If no surface soil sampling location exceeded a lead concentration of 400 mg/kg, no subsurface soil samples were collected at the property. In these instances, the upper 6 inches of soil were removed from the sampling location exhibiting the highest lead concentration and submitted for TCL and RCRA metals analyses.

During Stages 1 and 2 of the fieldwork, the surface and subsurface soil samples from each property that exhibited the highest lead concentrations (other than the former industrial sites) were submitted to Accura laboratory for total lead analysis. If no surface soil sampling location exceeded a lead concentration of 400 mg/kg, no subsurface soil samples were collected at the property. In these instances, the upper 6 inches of soil were moved from the sampling location exhibiting the highest lead concentration and were submitted for total lead analysis. During Stage 3 of the fieldwork, only selected samples, all of which contained greater than 400 mg/kg total lead as measured using the XRF analyzer, were submitted for total lead analysis.

In certain instances, additional soil samples were collected for analysis of Target Analyte List (TAL) and/or Toxicity Characteristic Leaching Procedure (TCLP) metals to further characterize soils that are present within the various investigative areas. In addition, RCRA metals analysis was substituted for total lead analysis for select soil samples collected.

Quality control/quality assurance (QA/QC) samples were also collected. Field duplicate samples were collected on a 1 per 10 frequency, and matrix spike/matrix spike duplicate (MS/MSD) samples were collected on a 1 per 20 basis. The laboratory analytical data was validated in accordance with the Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses (U.S. EPA, October 1999) and the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses (U.S. EPA, February 1994).

All samples collected for laboratory analysis were placed into appropriate containers (4-ounce glass jar with a Teflon-lined lid for all analyses except VOCs, which were collected using 5-gram Encore samplers), and were stored in an iced cooler (at 4± 2 °C) under chain-of-custody protocol until being delivered to Accura Luboratones via overnight courier.

SECTION 3
INVESTIGATION RESULTS

This section compares the analytical data obtained from field and laboratory analysis of soil samples to screening levels in order to determine the nature and extent of contamination within the investigative areas. U.S. EPA developed the screening levels for both residential and commercial/industrial property use. The screening levels are presented in the various data tables discussed in the following subsections.

After comparison of the data to the screening levels, areas of lead contamination were identified within each investigative area, and estimates of the volume of lead-impacted soil in each area of contamination were developed. When estimating the volume of lead-contaminated soil in a given area of contamination, the average depth of contamination was determined based on the depth of contamination in each of the borings located in the given contaminated area. The average depth of contamination was then multiplied by the area of the contaminated zone in order to estimate the *in-situ* volume of lead-contaminated soil. Several factors were evaluated when drawing the boundaries of the areas of contamination, including the presence of structures such as buildings and roads, the property boundaries, and the proximity and characteristics of nearby samples. Although there were instances where XRF and laboratory analytical results or data obtained from different stages of the investigation disagreed, if a location was determined to contain lead above its screening level at any point in the investigation, the location was conservatively assumed to be lead-contaminated.

The XRF analyzer was used to measure concentrations of total inorganic chemicals (metals) at every property sampled under the scope of this project. In addition, soil samples were collected for analysis of total lead from most properties investigated within each investigative area. Numerous samples were collected for analysis of TCL parameters and RCRA TAL metals. The following subsections summarize the analytical results obtained from field and laboratory testing of soil samples collected from each of the 18 investigative areas and includes a comparison of the data to the screening levels, identification and descriptions of areas of lead contamination, and estimations of the soil volumes associated with each area of lead contamination. Copies of the laboratory analytical reports are included as Appendix A.

3.1 SITE 121 - ADEPT TOOL

A total of 65 locations were sampled from 23 properties within Site 121's investigative area. Sampling location identifiers, state plane coordinates, and a description of the properties associated with the sampling locations are presented in Table 2-1. A total of 77 samples were screened using the XRF analyzer. Two samples were collected for laboratory analysis of RCRA metals, and 17 samples were collected for laboratory analysis of total lead. In addition, one sample was collected for analysis of TCL parameters. Figure 3-1 indicates the sampling locations and the approximate boundary of Site 121.

3.1.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the sample collected from location 121-A2. VOCs were not detected at concentrations above their respective screening levels.

3.1.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the sample collected from location 121-A2. SVOCs were not detected at concentrations above their respective screening levels.

3.1.3 Pesticides

Table 3-3 presents the results for pesticide analysis performed on the sample collected from location 121-A2. The only pesticide detected above its screening level was dieldrin, which was detected at 77 micrograms per kilogram (ug/kg), exceeding the screening level of 40 ug/kg for residential properties.

3.1.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the sample collected from location 121-A2. PCBs were not detected at concentrations above their respective screening levels.

3.1.5 Inorganic Chemicals

Table 3-5 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Site 121's investigative area and compares the results to screening levels. A discussion of the analytical results is presented below.

Lead

Lead was detected at levels above its screening level of 400 mg/kg at seven properties in the Site 121 investigative areas (121-A, -C, -E, -G, -L, -P, and-U). Lead was detected at concentrations exceeding 400 mg/kg in 9 of the 77 samples screened using the XRF analyzer, in both of the samples submitted for laboratory analysis of RCRA metals, and in 7 of the 17 samples submitted for laboratory analysis of total lead. Figure 3-1 indicates the sampling locations where lead was detected at concentrations exceeding the screening level of 400 mg/kg. Lead was not detected above its screening level at the Charles Canady School (property 121-H) or at the park located at the east corner of the 15th Street and Lake Avenue intersection (property 121-I). Further discussion of the lead analytical results is included in the extent of lead contamination subsection below.

Other Metals

Concentrations of all other metals except chromium and copper were below their respective screening levels. Chromium was detected above its residential screening level of 3,900 mg/kg in surface soil samples screened using the XRF analyzer at sampling locations 121-N2 (4,579 mg/kg) and 121-O2 (5,949 mg/kg). Copper was detected at 33,690 mg/kg in surface soil screened using the XRF analyzer at sampling location 121-O2, exceeding its residential screening level of 31,000 mg/kg.

3.1.6 Areas of Lead Contamination

Five areas of lead contamination (Areas 121-1 through 121-5) were identified within Site 121's investigative area and are depicted on Figure 3-1. Calculations of the estimated volumes of lead-

contaminated soil are contained in Table 3-6. The depth of lead contamination for the locations where lead was detected above its screening level are also presented in Table 3-6.

Area 121-1 is the largest area of contamination identified within Site 121's investigative area. Area 121-1 encompasses most of Site 121 (property 121-A) and extends to the west corner of the public housing property located on the west corner of 18th Street and Lake Avenue (property 121-G). Although much of Site 121's ground surface is paved with concrete (apparently the remaining foundation from the Adept Tool Building), this area was included in the area of contamination. The average depth of contamination in Area 121-1 was calculated to be 10.5 inches based on the metals data from locations 121-A1, -A2, -A3, and -G2. As indicated in Table 3-6 and on Figure 3-1, the area of Area 121-1 is approximately 1,634 square meters (m^2) (1,961 square yards [yd^2]). Based on these assumptions, the estimated *in-situ* volume of lead-contaminated soil within Area 121-1 is 618 cubic yards (yd^3).

Area 121-2 encompasses the northeastern quadrant of the vacant lot located north of Lynch Avenue between 18th and 19th Streets (property 121-C). Although the XRF readings indicated that lead concentrations at all sampling locations were below the screening level of 400 mg/kg, the sample submitted for laboratory analysis of total lead was reported to contain lead at 520 mg/kg. The XRF analyzer reported a lead concentration of 340 mg/kg in surface soil at location 121-C4; however, the laboratory analysis of sample 121-C4-01-01 showed a lead concentration of 520 mg/kg. The estimated volume of lead-contaminated soil within Area 121-2 is 143 yd^3 based on a depth of contamination of 6 inches and an area of 660 m^2 (792 yd^2).

Area 121-3 is a relatively smaller area (360 m^2 [432 yd^2]) located in the backyard area of the residential property at 1322 18th Street (property 121-E). Evidence of spills and/or poor waste management of oils and/or other petroleum products was apparent in the backyard of the property as oil stains were prevalent across the ground surface. In addition, the lower 3 ft of the large tree at the rear of the property was coated with petroleum product, and numerous used engines (apparently leaking oils and other fluids) were lined along the south fenceline in the backyard. Debris and various household wastes were scattered across the backyard. Further the laboratory and XRF data correlated for the two soil samples. The XRF analyzer reported lead concentrations of 3,299 and 443 mg/kg in the first and fourth depth intervals at sampling location 121-E2 (samples 121-E2-01-01 and

121-E2-04-01, respectively). The laboratory reported lead concentrations of 1,900 and 640 mg/kg for the respective samples. Lead did not exceed its screening level of 400 mg/kg in the surface soil measurement taken in the front yard of the property. Lead contamination was determined to extend to 24 inches bgs at sampling location 121-E2. The estimated volume of lead-contaminated soil associated with Area 121-3 is 311 yd^3.

Area 121-4 is also a relatively small area (119 m^2 [143 yd^2]) located southwest of the commercial building which is at the east corner of 14th Street and Winstanley Avenue intersection (property 121-L). Although the XRF readings indicated that lead concentrations at both sampling locations on this property were below the screening level of 400 mg/kg, the sample submitted for laboratory analysis of total lead was reported to contain lead at 500 mg/kg. Only surficial (0 to 6 inches bgs) contamination was identified in this area. The estimated volume of lead-contaminated soil associated with Area 121-4 is 26 yd^3.

Area 121-5 is a moderately sized area (542 m^2 [650 yd^2]) that includes the eastern portion of the northern side yard and the backyard of the residence on the south corner of 18th Street and Lake Avenue intersection (properties 121-P and 121-U, respectively). Although the XRF readings indicated that lead concentrations at both sampling locations on property 121-P were below the screening level of 400 mg/kg, the sample submitted for laboratory analysis of total lead was reported to contain lead at 430 mg/kg. Lead was detected at a concentration of 522 mg/kg, exceeding its screening level of 400 mg/kg, in sample 121-U1-01-01, which was collected from the backyard of the residential property 121-U. Based on the analytical results at these properties, the depth of contamination in Area 121-5 is assumed to be 6 inches, resulting in an estimated volume of lead-contaminated soil of 117 yd^3.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within Site 121's investigative area is estimated to be 1,214 yd^3.

3.2 SITE 136 - NATIONAL IRON COMPANY/TENCO METAL COMPANY/UNITED IRON AND METAL COMPANY

A total of 61 locations were sampled from 13 properties within Site 136;s investigative area. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-2. A total of 89 samples were screened using the XRF analyzer; six investigative samples and one duplicate sample were collected for laboratory analysis of RCRA metals; three samples were collected for laboratory analysis of TCLP metals; and eight investigative samples were collected for laboratory analysis of total lead. In addition, one investigative and one duplicate sample were collected for analysis of TCL parameters. Figure 3-2 indicates the sampling locations and the approximate boundary of Site 136.

3.2.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the investigative and duplicate samples collected from location 136-A8. VOCs were not detected at concentrations above their respective screening levels in either the investigative samplesor the duplicate sample.

3.2.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the investigative and duplicate samples collected from location 136-A8. The only SVOC detected at a concentration above its respective residential screening level was benzo(a)anthracene. Benzo(a)anthracene was detected in duplicate sample (136-A8-03-01DP) at a concentration of 1,800 ug/kg. This concentration exceeds residential screening level of 875 ug/kg.

3.2.3 Pesticides

Table 3-3 presents the analytical results for the investigative and duplicate samples collected from location 136-A8. Pesticides were not detected at concentrations above their respective screening levels in either the investigative or the duplicate sample.

3.2.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the investigative and duplicate samples collected from location 136-A8. The only PCB detected at a concentration above its respective residential screening level in the both the investigative and duplicate samples was Aroclor-1260. Aroclor-1260 was detected at concentrations of 850 and 1,100 ug/kg respectively, exceeding its residential screening level of 875 ug/kg.

3.2.5 Inorganic Chemicals

Table 3-7 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Site 136's investigative area and compares the results to screening levels. Table 3-8 presents the TCLP metals data and compares the results to the regulatory limit for toxicity characteristic established in 40 Code of Federal Regulations (CFR) 261.24. Discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its screening level of 400 mg/kg at five properties within the Site 136 investigative area (136-A,-B, -D, -G, and -I). Total lead was detected at concentrations exceeding 400 mg/kg in 36 of the 89 samples screened using the XRF analyzer, in all six investigative and the duplicate sample submitted for laboratory analysis of RCRA metals, and in three of the eight samples submitted for laboratory analysis of total lead. Figure 3-2 indicates the sampling locations where total lead was detected at concentrations exceeding the screening level of 400 mg/kg. Total lead was not detected above its screening level in surface soil at the Lincoln Middle School (property 136-E) or in the playground area at the John DeShields Homes Community Center (property 136-F). Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

TCLP lead was detected at 22 and 320 milligrams per liter (mg/L) in the two soil samples, which were analyzed for TCLP metals, collected from property 136-A. Based on these results, soil at Site 136 (property 136-A) is classified as characteristic hazardous waste because leachate concentrations

from the soil exceed the 5 mg/L regulatory limit for toxicity characteristic established in 40 CFR 261.24. The lead concentration in the leachate of the sample collected from property 136-I was below the method detection limit.

Other Metals

Concentrations of arsenic, chromium, iron, manganese, and uranium were detected above their respective screening levels in the various samples collected from within Site 136's investigative area. All other TCLP metals results were below regulatory limits.

Arsenic was detected above its residential screening level of 230 mg/kg in 14 of the 29 samples, which were screened using the XRF analyzer, collected from property 136-A. However, arsenic was not detected above its residential screening level in any of the three samples collected from this property that were laboratory-analyzed for RCRA metals. Arsenic was not detected above screening levels in any of the other properties in the Site 136 investigative area.

Chromium was detected above its residential screening level of 3,900 mg/kg in 9 of the 29 samples, which were screened using the XRF analyzer; collected from propety 136-A; however, chromium was not detected above its residential screening level in any of the three samples laboratory analyzed for RCRA metals. The only other property on which chromium was detected above its residential screening level was at property 136-D, where it was detected by the XRF analyzer at 4,118 mg/kg in surface soil at location 136-D4.

Iron was detected above its residential screening level of 230,000 mg/kg in 9 of the 29 samples from property 136-A screened using the XRF analyzer. Iron was not detected above screening levels in any of the other properties in Site 136's investigative area.

The only sample that contained manganese at a concentration above its residential screening level of 18,000 mg/kg was 136-A4-02-01, which contained manganese at a concentration of 22,483 mg/kg.

Four samples contained uranium at concentrations exceeding the residential screening level of 16 mg/kg: 136-B3-01-01 (43.3 mg/kg); 136-B3-04-01 (53.3 mg/kg); 136-B4-01-01 (35.8 mg/kg); and 136-G4-01-01 (50 mg/kg).

3.2.6 Areas of Lead Contamination

Five areas of lead contamination (Areas 136-1 through 136-5) were identified within Site 136's investigative area. These areas are depicted on Figure 3-2, and calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-9.

Area 136-1 encompasses the entire city block on which Site 136 (property 136-A) is located. Twenty-four of the 29 samples collected from this property were screened with the XRF analyzer and contained lead at concentrations over 400 mg/kg, with some samples containing lead in the percent range. In addition, all three samples collected from this site for laboratory analysis of RCRA metals were reported to contain lead at concentrations above 400 mg/kg. The depth of contamination in this area is assumed to extend to 24 inches bgs; however, in many locations, borings were refused at considerably shallower depths. As indicated in Table 3-9 and on Figure 3-2, the area of Area 136-1 is approximately 12,162 m^2 (14,594 yd^2). Although there is one smaller building in poor repair and a larger extremely dilapidated building that is present within Area 136-1, lead contamination is assumed to extend under these structures. Based on these assumptions, the estimated volume of lead-contaminated soil within Area 136-1 is 10,500 yd^3. Based on the TCLP lead values measured in samples 136-A4-01-01 and 136-A8-03-01, soil in Area 136-1 is classified as characteristic hazardous waste.

Area 136-2 encompasses the majority of the vacant lot west of 11th Street and McCasland Avenue intersection (property 136-B). Ten of the 16 soil samples collected from this property and screened using the XRF analyzer contained lead at concentrations exceeding 400 mg/kg. At two sampling locations (136-B2 and 136-B3), lead was found to exceed 400 mg/kg up to 2 ft bgs. The laboratory analytical results confirmed the XRF analyzer readings as all three samples submitted for total lead analysis contained lead concentrations above 400 mg/kg. The estimated volume of lead-contaminated soil within Area 136-2 is 484 yd^3 based on an average depth of contamination of 16.5 inches and an area of 814 m^2 (977 yd^2).

Area 136-3 is a relatively smaller area (239 m^2 [287 yd^2]) located within the public housing complex (property 136-D), where only surficial (0 to 6 inches bgs) contamination was identified. Although the XRF analytical results did not indicate the presence of lead above 400 mg/kg in any of the surface readings collected, the laboratory analysis of soil sample collected from the 0 to 6 inch bgs interval at location 136-D2 (sample 136-D2-01-01) was reported to have a lead concentration of 460 mg/kg. The estimated volume of lead-contaminated soil associated with Area 136-3 is 52 yd^3.

Area 136-4 is also a relatively small area (355 m^2 [287 yd^2]) located in the vacant lot at the south corner of 10th Street and McCasland Avenue (property 136-G). Only surficial (0 to 6 inches bgs) contamination was identified in this area. Although the XRF readings indicated that lead concentrations at all sampling locations were below the screening level of 400 mg/kg, the sample submitted for laboratory analysis of RCRA metals was reported to contain lead at 500 mg/kg. The estimated volume of lead-contaminated soil associated with Area 136-4 is 77 yd^3.

Area 136-5 is a relatively large area (5,138 m^2 [6,166 yd^2]), which is assumed to encompass all of Property 136-I (the former feed and fertilizer warehouse facility) except the area under the large dilapidated building, located at the north corner of the property. Although both of the XRF readings taken at the ground surface indicated that lead concentrations at the two sampling locations were above the screening level of 400 mg/kg (1,460 mg/kg and 136-I1 and 479.2 mg/kg at 136-I2), laboratory analysis sample 136-I1-01-01 indicated lead concentrations of 300 mg/kg. Based on the XRF analytical data, the depth of contamination in Area 136-5 is assumed to be 6 inches, resulting in an estimated volume of lead-contaminated soil of 1,110 yd^3.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within Site 136's investigative area is estimated to be 12,230 yd^3.

3.3 SITE 141 - REESE SHEET METAL WORKS

A total of 78 locations were sampled from 31 properties within Site 141's investigative area. Sampling location identifiers, state plane coordinates, and a description of the properties associated with the sampling locations are presented in Table 2-3. A total of 106 samples were screened using the XRF analyzer; five investigative and one duplicate sample were collected for laboratory analysis

of RCRA metals; one investigative and one duplicate sample were collected for laboratory analysis of TCLP metals; and 17 samples were collected for laboratory analysis of total lead. In addition, one sample was collected for analysis of TCL parameters. Figure 3-3 indicates the sampling locations and the approximate boundary of Site 141.

3.3.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the sample collected from location 141-A2. VOCs were not detected at concentrations above their respective screening levels.

3.3.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the sample collected from location 141-A2. SVOCs were not detected at concentrations above their respective screening levels.

3.3.3 Pesticides

Table 3-3 presents the analytical results for the sample collected from location 141-A2. Pesticides were not detected at concentrations above their respective screening levels.

3.3.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the sample collected from location 141-A2. PCBs were not detected at concentrations above their respective screening levels.

3.3.5 Inorganic Chemicals

Table 3-10 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Site 141's investigative area and compares the results to screening levels. Table 3-8 presents the TCLP metals data and compares the results to the regulatory limit for toxicity characteristic established in 40 CFR 261.24. A discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its screening level of 400 mg/kg at 16 properties in the Site 141's investigative area. Total lead was detected at concentrations exceeding 400 mg/kg in 22 of the 106 samples screened using the XRF analyzer, in three of the five investigative and the duplicate sample submitted for laboratory analysis of RCRA metals, and in 12 of the 17 samples submitted for laboratory analysis of total lead. Figure 3-3 indicates the sampling locations where total lead was detected at concentrations exceeding the screening level of 400 mg/kg. Total lead was not detected above its screening level in any of the soil samples collected from Kim's Kids Daycare (Site 141). Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

The lead concentrations in the leachate of investigative and duplicate samples collected from property 141-AD were below the method detection limit.

Other Metals

Concentrations of all other metals except chromium and uranium were below their respective screening levels. Chromium was detected above its residential screening level of 3,900 mg/kg in surface soil screened with the XRF analyzer at sampling location 141-A1 (4,080 mg/kg); however, the Chromium concentration in sample 141-A1-01-01 (submitted for laboratory analysis of RCRA metals) was reported to be 11 mg/kg.. Four samples contained uranium at concentrations exceeding the residential screening level of 16 mg/kg: 141-O1-02-01 (49 mg/kg); 141-Q2-01-01 (48.3 mg/kg); 141-Q2-03-01 (46.5 mg/kg); and 141-V1-03-01 (47 mg/kg).

Analytical results for all other TCLP metals were below regulatory limits that would classify the soil as hazardous waste.

3.3.6 Areas of Lead Contamination

Twelve areas of lead contamination (Areas 141-1 through 141-12) were identified within the Site 141's investigative area. These areas are depicted on Figure 3-3, and calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-11.

Area 141-1 is an irregularly-shaped area that encompasses the backyards of the residences at 1007 Gaty Avenue and 1016 St. Louis Avenue (properties 141-C and 141-F, respectively) as well as the southeast portion of the nearby vacant lot (property 141-Q). The irregular shape of Area 141-1 is due to the presence of numerous structures (single-family homes) along the perimeter of the area of contamination.

Although the XRF readings indicated that lead concentrations at both the sampling locations on property 141-C were below the screening level of 400 mg/kg, laboratory analysis 141-C2-01-01 indicated a lead concentration of 410 mg/kg. Both the laboratory and XRF analyses reported lead concentrations exceeding the 400-mg/kg screening level in the upper two 6-inch depth intervals at sampling location 141-F1 (located in the backyard of the residence). The XRF analyzer reported a lead concentration of 648 mg/kg at the ground surface at location 141-F1, and the laboratory reported a lead concentration of 810 mg/kg for sample 141-F1-01-01. The XRF and laboratory-determined lead concentration of soil sample 141-F1-02-01 was 803.6 mg/kg and 790 mg/kg, respectively. Three of the five soil samples collected from location 141-Q2 and analyzed using the XRF analyzer contained lead at concentrations exceeding 400 mg/kg. As indicated on Figure 3-3, these samples were collected from the sampling location near the front of the property. The laboratory analytical results confirmed the XRF analyzer readings as sample 141-Q2-04-01 contained lead at 2,349 mg/kg, as reported by the XRF analyzer and 3,200 mg/kg as reported by the laboratory. A slug of metal (approximately 2 inches wide and 0.5 inches thick) was recovered from the boring at 141-Q2. XRF analysis of the metal object indicated a lead concentration of 50 %. The average depth of contamination in Area 141-1 was calculated to be 14 inches based on the metals data from locations 141-C2, -F2, and -Q2. As indicated in Table 3-11 and on Figure 3-3, the area of Area 141-1 is approximately 2,689 m^2 (3,227 yd^2). Based on these assumptions, the estimated *in-situ* volume of lead-contaminated soil within Area 141-1 is 1,355 yd^3.

Area 141-2 encompasses the southeastern half of the vacant lot (property 141-D) located south of Gaty Avenue near Site 141 as well as the backyards of the two neighboring properties. Based on the laboratory and XRF analytical results, soil located from 0 to 18 inches bgs at location 141-D1 is lead contaminated. Based on a depth of contamination of 18 inches and an area of 602 m^2 (722 yd^2), the estimated volume of lead-contaminated soil within Area 141-2 is 390 yd^3.

Area 141-3 is a relatively smaller area (344 m^2 [413 yd^2]) located in the front portion of the side yard belonging to the 1124 Gaty Avenue (property 141-E) residence. Although the XRF readings indicated that lead concentrations at both sampling locations were below the screening level of 400 mg/kg, laboratory analysis of sample 141-E2-01-01 490 mg/kg. Based on 6-inch depth interval of contamination, the estimated volume of lead-contaminated soil associated with Area 141-3 is 74 yd^3.

Area 141-4 encompasses the northwestern half of the vacant lot located at the north corner of Missouri Avenue and 12th Street intersection (property 141-P). XRF analysis reported lead concentrations exceeding the 400-mg/kg screening level in the upper two 6-inch depth intervals at sampling location 141-P1. Based on a depth of contamination of 12 inches and an area of 662 m^2 (794 yd^2), the estimated volume of lead-contaminated soil within Area 141-4 is 286 yd3.

Area 141-5 encompasses the southeastern half of the vacant lot located at the south corner of Gaty Avenue and 12th Street intersection (141-L) as well as the backyards of the neighboring residential properties to sampling location 141-O1. Although the XRF readings indicated that lead concentrations at both sampling locations were below the screening level of 400 mg/kg, the lab reported the sample collected from location 141-L2 to contain lead at 620 mg/kg. XRF analysis reported lead concentrations exceeding the 400-mg/kg screening level in the upper two 6-inch depth intervals at sampling location 141-O1 (located in the rear of the property). Based on an average depth of contamination of 9 inches and an area of 1,444 m^2 (1,733 yd^2), the estimated volume of lead-contaminated soil within Area 141-5 is 468 yd^3.

Area 141-6 encompasses the southwestern half of the vacant lot identified as property 141-S as well as the backyard of the neighboring property. XRF analysis reported a lead concentration of 405.6 mg/kg in the surface soil at location 141-S1, slightly exceeding the 400-mg/kg screening level.

Based on a depth of contamination of 6 inches and an area of 700 m^2 (840 yd^2), the estimated volume of lead-contaminated soil within Area 141-6 is 151 yd^3.

As indicated on Figure 3-3, Area 141-7 encompasses the backyards of the residences located along the south side of Cleveland Avenue, east of 11th Street, including properties 141-J and 141-T. Although the XRF readings indicated that lead concentrations at both the sampling locations on the vacant lot (property 141-J) were below the screening level of 400-mg/kg, laboratory analysis of sample 141-J2-01-01 indicated a lead concentration of 480 mg/kg. Analysis of the soil samples indicated that the upper two 6-inch depth intervals at location 141-T1 contained lead concentrations above the 400 mg/kg screening level. As indicated on Figure 3-3, these samples were collected from the backyard of the abandoned residential property, which was littered with rubbish and debris. The laboratory analytical results confirmed the XRF analyzer readings as the XRF analyzer reported sample 141-T1-01-01 to contain a lead concentration of 976.8 mg/kg and the laboratory reported a lead concentration of 1,400 mg/kg. Based on a depth of contamination of 9 inches and an area of 1,108 m^2 (1,330 yd^2), the estimated volume of lead-contaminated soil within Area 141-7 is 359 yd^3.

Area 141-8 is another relatively small area (385 m^2 [462 yd^2]) located in the southwestern portion of the vacant lot at the west corner of Cleveland Avenue and 12th Street intersection (property 141-K). Both the laboratory and XRF reported soil sample 141-K2-01-01 (collected from the vacant lot) to contain lead above the 400-mg/kg screening level. The XRF reported a lead concentration of 509.2 mg/kg. The laboratory reported a lead concentration of 960 mg/kg. Lead contamination was determined to extend to 6 inches bgs at this sampling location. The estimated volume of lead-contaminated soil associated with Area 141-8 is 83 yd^3.

Area 141-9 is the largest of the areas of contamination identified within Site 141's investigative area. Area 141-9 encompasses the southern half of the block bounded by 12th and 13th Streets and St. Louis and Missouri Avenues. Although portions of the ground surface in this area appear to be covered by buildings as shown in the aerial photo (Figure 3-3), the exact site conditions along this block (i.e., the presence/absence of the homes indicated in the aerial photo) are uncertain. Consequently, the apparently covered areas were not excluded from the area of contamination. Three of the six soil samples collected from property 141-V and screened using the XRF analyzer contained lead at concentrations exceeding 400 mg/kg. As indicated on Figure 3-3, soil at both sampling locations was

found to contain lead at concentrations exceeding 400 mg/kg. The laboratory analytical results confirmed the XRF analyzer readings as the XRF analyzed reported sample 141-V1-02-01 to contain lead at 902.4 mg/kg and the laboratory reported lead concentration of 1,100 and 980 mg/kg, respectively, in the investigative and duplicate samples analyzed for RCRA metals. Based on the metals data from locations 141-V1 and 141-V2 the average depth of contamination in Area 141-9 was calculated to be 9 inches. As indicated in Table 3-6 and on Figure 3-3, the area of Area 141-9 is approximately 3,208 m^2 (3,850 yd^2). Based on these assumptions, the estimated *in-situ* volume of lead-contaminated soil within Area 141-9 is 1,039 yd^3.

Area 141-10 is a relatively small area (424 m^2 [509 yd^2]) located in the backyard of the residence at 1225 Cleveland (Property 141-Y) and its neighboring property to the east. Analysis of the surface soil at location 141-Y2 indicated that the upper 6-inch depth interval contained a lead concentration above the 400-mg/kg screening level. The laboratory analytical results confirmed the XRF analyzer readings as the XRF and the laboratory reported sample 141-V2-01-01 to contain a lead concentration of 584-4 mg/kg and 930 mg/kg; respectively. Based on a 6-inch deep interval of lead contamination, the estimated volume of lead-contaminated soil associated with Area 141-10 is 92 yd^3.

Area 141-11 is a relatively small area (279 m^2 [335 yd^2]) located in the backyards of the residence at 1321 Cleveland (property 141-AD) and its neighboring properties. Analysis of the soil samples collected from property 141-AD indicated that the upper two 6-inch depth intervals at location 141-AD2 contained lead concentrations above the 400-mg/kg screening level. The laboratory analytical results confirmed the XRF analyzer readings as the XRF and laboratory analysis reported sample 141-AD2-01-01 to contain lead at 1,110 mg/kg and 1,700 mg/kg respectively. Based on a 12-inch depth interval of lead contamination, the estimated volume of lead-contaminated soil associated with Area 141-11 is 121 yd^3.

Area 141-12 encompasses the northern portion of the block bounded by 13th and 14th Streets and Gaty and St. Louis Avenues. Due to the numerous structures present along the south side of Gaty Avenue, the footprints of the residences was omitted from the area of contamination. Area 141-12 was divided into Areas 141-12A and 141-12B. Area 141-12A consists of the backyards of these residential properties, and Area 141-12B consists of the front yards. The depth of contamination in both areas is assumed to extend to 6 inches bgs. As indicated in Table 3-6 and on Figure 3-3, the area of Area

141-12A is approximately 693 m^2 (832 yd^2) and the area of 141-12B is approximately 816 m^2 (979 yd^2). Lead was detected in the surface soil at concentrations exceeding its screening level of 400 mg/kg at both locations on property 141-AB. Although the XRF analyzer reported a lead concentration of 336.2 mg/kg at location 141-AB1, the laboratory reported a lead concentration of 750 mg/kg for sample 141-AB1-01-01. The XRF analyzer indicated a lead concentration of 409.6 mg/kg in the surface soil at location 141-AB2. Based on an assumed 6-inch depth of contamination, the estimated *in-situ* volume of lead-contaminated soil within Area 141-12A is 150 yd^3. Similarly, the volume of lead-contaminated soil in Area 141-12B is 176 yd^3. The total volume of lead-contaminated soil within Area 141-12 is estimated to be 226 yd^3.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within the Site 141 investigative area is estimated to be 4,744 yd^3.

3.4 SITE 143 - BAUER SHEET METAL WORKS

A total of 74 locations were sampled from 29 properties within Site 143's investigative area. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-4. A total of 85 samples were screened using the XRF analyzer; five investigative and one duplicate sample were collected for laboratory analysis of RCRA metals; and 15 investigative and two duplicate samples were collected for laboratory analysis of total lead. In addition, one sample was collected for analysis of TCL parameters. Figure 3-4 indicates the sampling locations and the approximate boundary of Site 143.

3.4.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the sample collected from location 143-A4. VOCs were not detected at concentrations above their respective screening levels.

3.4.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the sample collected from location 143-A4. SVOCs were not detected at concentrations above their respective screening levels.

3.4.3 Pesticides

Table 3-3 presents the results for pesticide analysis performed on the sample collected from location 143-A4. The only pesticide detected above its screening level was dieldrin, which was detected at 140 ug/kg, exceeding the screening level for residential properties of 40 ug/kg.

3.4.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the sample collected from location 143-A4. PCBs were not detected at concentrations above their respective screening levels.

3.4.5 Inorganic Chemicals

Table 3-12 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Site 143's investigative area and compares the results to screening levels. Discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its screening level of 400 mg/kg at 11 properties in Site 143's investigative area. Total lead was detected at concentrations exceeding 400 mg/kg in 9 of the 85 samples screened using the XRF analyzer, in three of the five investigative and the duplicate samples submitted for laboratory analysis of RCRA metals, and in 8 of the 15 samples submitted for laboratory analysis of total lead. Figure 3-4 indicates the sampling locations where total lead was detected at concentrations exceeding the screening level of 400 mg/kg. Total lead was not detected above its screening level in the soil sample collected near the playground at the Community Child Care Center (property 143-D); however lead was detected above the 400-mg/kg screening level in the exposed soil under the swing set at property 143-V and in soil adjacent to the playground area at the St. Joseph's Head Start Center. Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

Other Metals

No metals, other than lead, were detected at concentrations exceeding their respective screening levels in samples collected from within Site 143's investigative area.

3.4.6 Areas of Lead Contamination

Nine areas of lead contamination (Areas 143-1 through 143-9) were identified within Site 143's investigative areas. These areas are depicted on Figure 3-4; Calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-13.

Area 143-1 consists of the western portion of the vacant lot located on the west side of 15th Street near State Street (property 143-C). Laboratory and XRF analysis of the soil samples indicated that the upper two 6-inch depth intervals at sample location 143-C1 contained lead at levels exceeding the 400-mg/kg screening level. Based on 12-inch depth interval of contamination and an area of contamination of 609 m^2 (731 yd^2), the estimated volume of lead-contaminated soil associated with Area 143-1 is 263 yd^3.

Area 143-2 encompasses the southern half of the vacant lot (property 141-E) located on the southeastern corner of 15th Street and Belmont Avenue intersection. Although XRF analysis of surface soil at sampling location 143-E1 and laboratory analysis for the investigative sample (sample 143-E02-01-01) submitted for total lead analysis indicated respective lead concentrations of 289 and 390 mg/kg , laboratory analysis of the duplicate sample showed a total lead concentration of 460 mg/kg. Based on a depth of contamination of 6 inches and an area of 195 m^2 (234 yd^2), the estimated volume of lead-contaminated soil within Area 143-2 is 42 yd^3.

Area 143-3 is a relatively large area (4,746 m^2 [5,695 yd^2]) that consists of the vacant lot identified as property 143-F, the backyards of the neighboring properties, and the southern portion of the block bounded by 15th and 16th Streets and Belmont and Ohio Avenues. Although portions of the ground surface on the southern half of this block appear to be covered by buildings in the aerial photo (Figure 3-4), the exact site conditions along this block (i.e., the presence/absence of the homes indicated in the aerial photo) are uncertain. Consequently, the apparently covered areas were not excluded from

the area of contamination. XRF and laboratory analysis of the soil sample collected from 143-F1 indicated a concentration depth of 6 inches. Both sampling locations at property 143-O (vacant lot located between residences) indicated a 6-inch-deep zone of contamination. Based on a 6-inch depth interval of contamination, the estimated volume of lead-contaminated soil associated with Area 143-3 is 1,025 yd^3.

Area 143-4 encompasses the southern half of the vacant lot located on the south side of Ohio Avenue, approximately mid-block between 16th and 17th Streets (property 143-X). XRF analysis reported lead concentrations exceeding the 400-mg/kg screening level in surface soil at location 143-X2. Based on a depth of contamination of 6 inches and an area of 420 m^2 (504 yd^2), the estimated volume of lead-contaminated soil within Area 143-4 is 91 yd^3.

Area 143-5 encompasses the backyard of the residence located at 1617 Hall Avenue (property 143-L) as well as the backyards of the neighboring residential properties. Both the laboratory and XRF reported that soil sample 143-L1-01-01 contained lead above the 400-mg/kg screening level. The XRF reported the lead concentration as 732 mg/kg, and the laboratory reported a lead concentration of 770 mg/kg. Based on an average depth of contamination of 6 inches and an area of 653 m^2 (784 yd^2), the estimated volume of lead-contaminated soil within Area 143-5 is 141 yd^3,

Area 143-6 is a relatively larger area (2,914 m^2 [3,497 yd^2]) that encompasses backyards of the residential properties located along the south side of Hall Avenue west of 16th Street. Although the XRF readings indicated that lead concentrations at both the sampling locations on the residential property at 1520 Hall Avenue (property 143-J) were below 400-mg/kg, laboratory analysis of the sample showed a lead concentration of 410 mg/kg. XRF analysis of the surface soil at location 143-O1 (exposed soil under a swing set located in a park like area along the south side of Hall Avenue) and laboratory analysis of the soil removed from the upper 6 inches bgs at this location both indicated lead concentrations of 704 mg/kg, and the laboratory reported a lead concentration of 790 mg/kg, respectively. Based on a 6-inch depth of contamination, the estimated volume of lead-contaminated soil within Area 143-6 is 629 yd^3.

Area 143-7 encompasses the eastern portion of the vacant lot located east of Columbia Place, approximately mid-block between Henrietta Avenue and State Street (property 143-H). Laboratory

and XRF analysis of the soil at location 143-H2 indicated that soil within the upper two 6-inch depth intervals contained lead at concentrations ranging from 470 to 660 mg/kg, exceeding the 400-mg/kg screening level. Based on a depth of contamination of 12 inches and an area of 740 m^2 (888 yd^2), the estimated volume of lead-contaminated soil within Area 143-7 is 320 yd^3.

Area 143-8 is another relatively small area (306 m^2 [367 yd^2]) located on the southern portion of the vacant lot north of Henrietta Avenue (property 143-R). The vacant lot is immediately west of the newly built homes along the north side of Henrietta (not shown on aerial photograph). Although the XRF readings of both the sampling locations on property 143-R indicated lead levels of less than 400 mg/kg, laboratory analysis of sample 143-R2-01-01 showed lead concentration of 800 mg/kg.. Based on a 6-inch depth of contamination, the estimated volume of lead-contaminated soil associated with Area 143-8 is 66 yd^3.

Area 143-9 is a relatively small area located immediately east of the playground for the St. Joseph's Head Start Center (property 143-G2). Although the XRF readings indicated that lead concentrations at both the sampling locations on property 143-G were below the 400-mg/kg screening level laboratory analysis of sample143-G2-01-01indicated a led concentration of 430 mg/kg. Based on a 6-inch depth interval of lead contamination, the estimated volume of lead-contaminated soil associated with Area 143-9 is 67 yd^3.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within the Site 143's investigative areas is estimated to be 2,644 yd^3.

3.5 SITE 145 - SHIPPER'S CAR LINE

A total of 32 locations were sampled from eight properties within Site 145's investigative area. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-5. A total of 65 samples were screened using the XRF analyzer; four investigative samples and one duplicate sample were collected for laboratory analysis of RCRA metals; and five samples were collected for laboratory analysis of total lead. In addition, two investigative samples and one duplicate sample were collected for

analysis of TCL parameters. Figure 3-5 indicates the sampling locations and the approximate boundary of Site 145.

3.5.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the samples collected from within Site 145's investigative area. VOCs were not detected at concentrations above their respective screening levels.

3.5.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the samples collected from within Site 145's investigative area. Benzo(a)anthracene and benzo(b)fluoranthene were the only SVOCs detected at concentrations exceeding their respective screening levels.

Benzo(a)anthracene was detected at levels exceeding the screening level for residential properties (875 ug/kg) in both investigative samples and the duplicate sample analyzed for TCL parameters. Sample 145-A1-01-01 contained benzo(a)anthracene at a concentration of 3,400 ug/kg; sample 145-A1-01-01DP contained benzo(a)anthracene at a concentration of 3,500 ug/kg; and sample 145-F5-01-01 contained benzo(a)anthracene at a concentration of 1,000 ug/kg.

Benzo(b)fluoranthene was detected at a concentration of 3,600 and 3,500 ug/kg in the investigative and duplicate samples, respectively, collected from location 145-A1, exceeding the residential screening level of 875 ug/kg.

3.5.3 Pesticides

Table 3-3 presents the results for pesticide analysis performed on the samples collected from within Site 145's investigative area. Pesticides were not detected at concentrations above their respective screening levels.

3.5.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the samples collected from within Site 145's investigative area. The only PCB that was detected at a concentration exceeding its respective screening level was Aroclor-1260. Aroclor-1260 was detected at concentrations exceeding its residential screening level of 319 ug/kg in samples 145-A1-01-01 (370 ug/kg) and 145-A1-01-01DP (690 ug/kg).

3.5.5 Inorganic Chemicals

Table 3-12 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Site 145's investigative area and compares the results to screening levels. A discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its 400-mg/kg screening level at five properties (145-D through 145-H) in Site 145's investigative area. Total lead was detected at concentrations exceeding 400 mg/kg in 32 of the 65 samples screened using the XRF analyzer, in three of the four investigative samples submitted for laboratory analysis of RCRA metals, and in three of the five samples submitted for laboratory analysis of total lead. Figure 3-5 indicates the sampling locations where total lead was detected at concentrations exceeding the screening level of 400 mg/kg. Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

Other Metals

In addition to lead, arsenic, chromium, copper, iron, and uranium were all detected at concentrations exceeded their respective screening levels.

Arsenic exceeded its screening level for residential properties (230 mg/kg) in sample 145-F05-02-01. XRF analysis of this sample indicated an arsenic concentration of 236.6 mg/kg, slightly above the residential screening level.

Chromium was detected in three samples at concentrations exceeding its residential screening level of 3,900 mg/kg: sample 145-D2-01-01 (6,976 mg/kg); sample 145-F5-01-01 (4,518 mg/kg); and sample 145-F8-02-01 (6,816 mg/kg).

Copper was detected at a concentration of 37,683 mg/kg in sample 145-D2-01-01, exceeding its residential screening level of 31,000 mg/kg. Iron was detected at a concentration of 232,858 mg/kg in sample 145-E7-03-01, slightly exceeding its residential screening level of 230,000 mg/kg.

Uranium was detected above its residential screening level of 16 mg/kg in six samples, at concentrations ranging from 28.9 to 68.7 mg/kg.

3.5.6 Areas of Lead Contamination

Five areas of lead contamination (Areas 145-1 through 145-5) were identified within Site 145's investigative area. These areas are depicted on Figure 3-5, and calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-10.

Area 145-1 is the largest of the areas of contamination identified within Site 145's investigative area. Area 145-1 encompasses most of property 145-F (the former roundhouse facility). Although much of property 145-F's ground surface is paved with concrete (apparently the remaining foundations from structures associated with the railway operations), the paved areas were included in the area of contamination. The average depth of contamination in Area 145-1 was calculated to be 14 inches based on the metals data from locations 145-F2, -F3, -F4, -F5, -F7, and -F8. As indicated in Table 3-15 and on Figure 3-5, the area of Area 145-1 is approximately 11,540 m^2 (13,848 yd^2). Based on these assumptions, the estimated *in situ* volume of lead-contaminated soil within Area 145-1 is 5,816 yd^3.

Area 145-2 encompasses the southeastern half of the vacant lot located north of Trendley Avenue between 4th and Main Streets (property 145-H). The upper two 6-inch depth intervals at location 145-H1 contained lead at concentrations exceeding 400 mg/kg. Based on a contamination depth of 12 inches and an area of 1,100 m^2 (1,320 yd^2), the estimated volume of lead-contaminated soil within Area 145-2 is 475 yd^3.

Area 145-3 is a relatively smaller area (66 m^2 [79 yd^2]) located in the southwestern third of the vacant lot located at the north corner of 4th and Market Streets intersection (property 145-D). Based on the laboratory and XRF analytical results, soil located from 0 to 18 inches bgs at location 145-D1 is lead-contaminated. Based on an 18-inch depth of contamination, the estimated volume of lead-contaminated soil associated with Area 145-3 is 43 yd^3.

Area 145-4 encompasses the northwestern half of the vacant lot located south of Bond Avenue between 4th and Main Streets (property 145-G). All four of the 6-inch depth intervals evaluated at location 145-G2 contained lead at concentrations exceeding 400 mg/kg. Based on a depth of contamination of 24 inches and an area of 1,080 m^2 (1,296 yd^2), the estimated volume of lead-contaminated soil within Area 145-4 is 933 yd^3.

Area 145-5 is a relatively large, irregularly shaped area (5,528 m^2 [6,634 yd^2]) that includes the garden and vacant property north and east of the residence at 115 4th Street, respectively (property 145-E). Twelve of the 19 soil samples analyzed using the XRF analyzer contained lead at concentrations exceeding 400 mg/kg. As indicated on Figure 3-5, lead exceeded it screening level at five of the eight sampling locations on property 145-E. Although the XRF analyzer reported the lead concentration of sample 145-E2-01-01 as 289 mg/kg, the laboratory analysis of this sample indicated a lead concentration of 550 mg/kg. Both XRF and laboratory analysis of sample 145-E8-02-01 indicated a lead concentration exceeding 400 mg/kg as the XRF analyzer reported lead at 2,619 mg/kg, and laboratory analysis results indicated a lead concentration of 5,400 mg/kg. Lead concentrations in the four soil samples collected from the garden area north of the residence at 115 4th Street (locations 145-E2 and 145- E4) ranged from 218 to 550 mg/kg with lead exceeding the screening level at both garden locations. The average depth of contamination in Area 145-5 was 14.4 inches based on metals data from sampling locations 145-E2, -E4, -E6, -E7, and -E8, resulting in an estimated volume of lead-contaminated soil of 2,866 yd^3.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within Site 145's investigative area is estimated to be 10,133 yd3,.

3.6 SITE 155 - FLANNERY AND SONS

A total of 63 locations were sampled from 24 properties within Site 155's investigative area. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-6. A total of 70 samples were screened using the XRF analyzer; three samples were collected for laboratory analysis of RCRA metals; one sample was collected for analysis of TCLP metals; and 16 investigative samples and 2 duplicate samples were collected for laboratory analysis of total lead. In addition, one sample was collected for analysis of TCL parameters. Figure 3-6 indicates the sampling locations and the approximate boundary of Site 155.

3.6.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the sample collected from location 155-A6. VOCs were not detected at concentrations above their respective screening levels.

3.6.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the sample collected from location 155-A6. Benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were the only SVOCs detected at concentrations exceeding their respective screening levels. Benzo(a)anthracene was detected at 1,900 ug/kg (exceeding its residential screening level of 875 ug/kg); benzo(a)pyrene was detected at 1,500 ug/kg (exceeding its commercial/industrial screening level of 784 ug/kg); and benzo(b)fluoranthene was detected at 1,500 ug/kg (exceeding its residential screening level of 875 ug/kg).

3.6.3 Pesticides

Table 3-3 presents the results for pesticide analysis performed on the sample collected from location 155-A6. Pesticides were not detected at concentrations above their respective screening levels.

3.6.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the sample collected from location 155-A6. PCBs were not detected at concentrations above their respective screening levels.

3.6.5 Inorganic Chemicals

Table 3-16 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Site 155's investigative area and compares the results to screening levels. Table 3-8 presents the TCLP metals data and compares the results to the regulatory limit for toxicity characteristic established in 40 CFR 261.24. A discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its screening level of 400 mg/kg at five properties (155-B, -L, -O, -P, and -T) in Site 155's investigative area. Total lead was detected at concentrations exceeding 400-mg/kg in 6 of the 70 samples screened using the XRF analyzer, in one of the three investigative samples submitted for laboratory analysis of RCRA metals, and in 13 of the 16 investigative samples submitted for laboratory analysis of total lead. Figure 3-6 indicates the sampling locations where total lead was detected at concentrations exceeding the screening level of 400-mg/kg. Total lead was not detected above the 400 mg/kg screening level at the New Beginnings Preschool (property 155-T) or at Mrs. Cooper's Daycare (property 155-T). Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

The lead concentrations in the leachate of investigative and duplicate samples collected from property 155-O were below the method detection limit.

Other Metals

Other than lead, chromium and uranium were the only other metals detected at concentrations exceeding their respective screening levels. Chromium was detected above its residential screening level of 3,900 mg/kg in six samples at concentrations ranging from 4,640 to 10,496 mg/kg. Uranium

was detected in two samples at concentrations exceeding its residential screening level of 16 mg/kg: sample 155-K1-01-01 (35.4 mg/kg) and sample 155-L1-02-01 (36.2 mg/kg).

Analytical results for all other TCLP metals were below regulatory limits that would classify the soil as hazardous waste.

3.6.6 Areas of Lead Contamination

Four areas of lead contamination (Areas 155-1 through 155-4) were identified within Site 155's investigative area. These areas are depicted on Figure 3-6, and calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-17. All four of the areas of lead contamination are relatively small with the largest are being 393 m^2 (472 yd^2).

Area 155-1 encompasses the eastern portion of the vacant lot located at the northeast corner of 21st Street and Ohio Avenue intersection (property 155-B). XRF and laboratory analysis of soil collected from location 155-B2 indicate a depth of contamination of 12 inches. As indicated in Table 3-17 and on Figure 3-6, the area of Area 155-1 is approximately 393 m^2 (475 yd^2). Based on these assumptions, the estimated *in-situ* volume of lead-contaminated soil within Area 155-1 is 170 yd^3.

Area 155-2 encompasses the western portion of the vacant lot on the west side of 22nd Street (property 155-L) and the backyards of the residences south of 511 22nd Street (property 155-E). XRF and laboratory analysis of soil collected from location 155-L1 indicate a depth of contamination of 6 inches. Based on a depth of contamination of 6 inches and an area of 261 m^2 (313 yd^2), the estimated volume of lead-contaminated soil within Area 155-2 is 56 yd^3.

Area 155-3 was divided into two sub-areas (155-3A and 155-3B) to account for the presence of the house located at 711 22nd Street. XRF analysis of the surface soil in the front yard and backyard of the house indicated lead concentrations of 640.8 and 620 mg/kg, respectively, exceeding the screening level of 400 mg/kg. The XRF results were confirmed by laboratory analysis of the sample collected from location 155-P2 (backyard), which was reported to contain lead at a concentration of 940 mg/kg. The area of 133-3A (backyard) is estimated to be 72 m^2 (86 yd^2), and the area of Area 133-3B (front yard) is estimated to be 88 m^2 (106 yd^2). Based on an assumed 6-inch depth of contamination in both

the front and backyard of the house, the estimated *in-situ* volume of lead-contaminated soil within Area 155-3A, is 16 yd^3 and the volume of lead-contaminated soil in Area 155-5B is 19 yd^3. The total volume of lead-contaminated soil within Area 155-3 is estimated to be 35 yd^3.

Area 155-4 encompasses the backyard of the residence at 640 23rd Street (property 155-O) and extends into the backyards of the neighboring residences. Although the XRF analyzer reported a lead concentration of 987.2 mg/kg in surface soil at sampling location 155-O2, laboratory analysis of sample 155-O2-01-01 indicated a lead concentration of 160 mg/kg. Based on a depth of contamination of 6 inches and an area of 203 m^2 (244 yd^2), the estimated volume of lead-contaminated soil within Area 155-4 is 44 yd3.

Based on the areas and depths of contamination discussed above,, the total *in-situ* volume of lead-contaminated soil within Site 155's investigative area is estimated to be 297 yd^3.

3.7 SITE 157 - REPUBLIC IRON AND STEEL WORKS

A total of 29 locations were sampled from 10 properties within Site 157's investigative area. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-7. A total of 55 samples were screened using the XRF analyzer; four investigative samples and one duplicate sample were collected for laboratory analysis of RCRA metals; and 11 investigative samples and 1 duplicate sample were collected for laboratory analysis of total lead. In addition, one sample was collected for analysis of TCL parameters. Figure 3-7 indicates the sampling locations and the approximate boundary of Site 157.

3.7.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the sample collected from location 157-A5. VOCs were not detected at concentrations above their respective screening levels.

3.7.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the sample collected from location 157-A5. Benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were the only SVOCs detected at concentrations exceeding their respective screening levels. Benzo(a)anthracene was detected at 2,400 ug/kg (exceeding its residential screening level of 875 ug/kg); benzo(b)fluoranthene was detected at 1,800 ug/kg (exceeding its residential screening level of 875 ug/kg); and indeno(1,2,3-cd)pyrene was detected at 1,000 ug/kg (exceeding its residential screening level of 87 ug/kg).

3.7.3 Pesticides

Table 3-3 presents the results for pesticide analysis performed on the sample collected from location 157-A5. Pesticides were not detected at concentrations above their respective screening levels.

3.7.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the sample collected from location 157-A5. PCBs were not detected at concentrations above their respective screening levels.

3.7.5 Inorganic Chemicals

Table 3-18 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Site 157's investigative area and compares the results to screening levels. Discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its 400-mg/kg screening level of at eight properties in Site 157's investigative area. Total lead was detected at concentrations exceeding 400 mg/kg in 22 of the 55 samples screened using the XRF analyzer, in all four of the investigative samples and the duplicate sample submitted for laboratory analysis of RCRA metals, and in 8 of the 11 investigative samples and the duplicate sample submitted for laboratory analysis of total lead. Figure 3-7 indicates the

sampling locations where total lead was detected at concentrations exceeding the screening level of 400 mg/kg. Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

Other Metals

Other than lead, chromium was the only other metal detected at concentrations exceeding its respective screening level. Chromium was detected above its residential screening level of 3,900 mg/kg in two samples: sample 157-G1-02-01 (4,138 mg/kg) and sample 157-G1-03-01 (4,698 mg/kg).

3.7.6 Areas of Lead Contamination

Seven areas of lead contamination (Areas 157-1 through 157-7) were identified within the Site 157 investigative area. These areas are depicted on Figure 3-7, and calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-19.

Area 157-1 consists of two sub-areas (157-1A and 157-1B), which comprise the northwestern and southeastern portions of Site 157 (property 157-A). XRF and laboratory analysis of samples collected from location 157-A1, which is within the northeastern area of contamination, indicates a 18-inch depth of lead contamination. XRF analysis of surface soil at location 157-A4 (in Area 157-1B) indicated a lead concentration of 792 mg/kg, exceeding the 400 mg/kg screening level. XRF and laboratory analysis performed on soil collected from location 157-A5, also within 157-1B, indicates an 18-inch depth of contamination. The average depth of contamination in Area 157-1B is assumed to be 12 inches. Based on an 18-inch depth interval of contamination and an area of contamination of 632 m^2 (758 yd^2), the estimated volume of lead-contaminated soil associated with Area 157-1A is 410 yd^3. Based on a 12-inch depth interval of contamination and an area of contamination of 1,077 m^2 (1,292 yd^2), the estimated volume of lead-contaminated soil associated with Area 157-1B is 465 yd^3. The total volume of lead-contaminated soil within Area 157-1 is estimated to be 875 yd^3.

Area 157-2 is a relatively large area (1,045 m^2 [1,254 yd^2]) that encompasses the backyards of the residential properties located along the north side of Valentine Avenue (properties 157-B, -C, and -J).

XRF and laboratory analysis of samples collected from locations 157-B2 and 157-C2 indicate a 12-inch depth of lead contamination. XRF analysis of the soil samples from location 157-J1 indicated that the surface soil contained lead at 832 mg/kg (exceeding the 400 mg/kg screening level), but soil collected from the 6 to 12-inch bgs depth interval was below the screening level. Based on an average depth of contamination of 10 inches, the estimated volume of lead-contaminated soil within Area 157-2 is 376 yd^3.

Area 157-3 is located in the front and side yard of the residence at 912 Piggott Avenue (property 157-F). Although the XRF readings indicated that lead concentrations at both the sampling locations on the property were below the screening level of 400 mg/kg, laboratory analysis of sample collected from 157-F2 (157-F2-01-01) indicated a lead concentration of 430 mg/kg. Based on a 6-inch depth interval of contamination and an area of contamination encompassing 275 m^2 (330 yd^2), the estimated volume of lead-contaminated soil associated within Area 157-3 is 59 yd^3.

Area 157-4 encompasses the side yard of 721 10th Street (property 157-E). XRF and laboratory analysis of samples collected from location 157-E1 indicated a 12-inch depth of lead contamination. XRF analysis of soil samples from location 157-E2 indicate an 18-inch depth of lead contamination.

Based on an average depth of contamination of 15 inches and an area of 520 m^2 (624 yd^2), the estimated volume of lead-contaminated soil within Area 157-4 is 281 yd^3.

Area 157-5 consists of the northwest portion of the lawn area southeast of the church located on the west side of 10th Street (property 157-D). Although XRF analysis of surface soil at location 157-D1 indicated a lead concentration of 342 mg/kg (below the screening level of 400 mg/kg), laboratory analytical results for sample 157-D1-01-01 reported a concentration of 430 mg/kg. Based on a 6-inch depth of contamination and an area of 319 m^2 (383 yd^2), the estimated volume of lead-contaminated soil within Area 157-5 is 69 yd^3.

Area 157-6 is a triangular-shaped area west of 10th Street and Baker Avenue intersection. XRF and laboratory analysis of samples collected from location 157-D4 indicate a 24-inch depth of lead contamination with total lead concentrations ranging up to 3,000 mg/kg. The estimated volume of

lead-contaminated soil within Area 157-6 is 154 yd^3, based on a 178 m^2 (214 yd^2) area of contamination.

Area 157-7 encompasses the backyard and southwest portion of the eastern side yard of the property at 1026 Tudor (property 157-G). Laboratory and XRF analysis of soil at location 157-G1 indicated an 18-inch depth of lead contamination. Although XRF analysis of surface soil at location 157-G3 indicated a lead concentration of 365 mg/kg (below the screening level of 400 mg/kg), laboratory analysis of samples *157-G3-01-01* and *157-G3-01-01DP* reported concentrations of 910 and 800 mg/kg, respectively. Based on an average depth of contamination of 12 inches and an area of 252 m^2 (302 yd^2), the estimated volume of lead-contaminated soil within Area 157-7 is 109 yd^3.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within Site 157's investigative area is estimated to be 1,923 yd^3.

3.8 SITE 158 - FLANNERY CONCRETE COMPANY

A total of 42 locations were sampled from 9 properties within Site 158's investigative area. Sampling location identifiers, state plane coordinates, and a descriptions of the properties that the sampling locations are associated with are presented in Table 2-8. A total of 46 samples were screened using the XRF analyzer; three samples were collected for laboratory analysis of RCRA metals; and five samples were collected for laboratory analysis of total lead. In addition, one sample was collected for analysis of TCL parameters. Figure 3-8 indicates the sampling locations and the approximate boundary of Site 158.

3.8.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the sample collected from location 158-A11. VOCs were not detected at concentrations above their respective screening levels.

3.8.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the sample collected from location 158-A11. SVOCs were not detected at concentrations above their respective screening levels.

3.8.3 Pesticides

Table 3-3 presents the results for pesticide analysis performed on the sample collected from location 158-A11. The only pesticide detected above its screening level was dieldrin, which was detected at 51 micrograms per kilogram (ug/kg), exceeding the screening level for residential properties of 40 ug/kg.

3.8.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the sample collected from location 158-A11. PCBs were not detected at concentrations above their respective screening levels.

3.8.5 Inorganic Chemicals

Table 3-20 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within the Site 158 investigative area and compares the results to screening levels. A discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its 400-mg/kg screening level at properties 158- B 158-D. Total lead was not detected at concentrations exceeding 400 mg/kg in any of the 46 soil samples screened using the XRF analyzer. Total lead was detected at concentrations exceeding the 400 mg/kg screening level in one of the three samples submitted for laboratory analysis of RCRA metals and in one of the five samples submitted for laboratory analysis of total lead. Figure 3-8 indicates the sampling locations where total lead was detected at concentrations exceeding the screening level of 400 mg/kg. Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

Other Metals

Other than lead, uranium was the only other metal detected at a concentration exceeding its respective screening level. Uranium was detected in sample 158-H1-01-01 at a concentration of 42.3 mg/kg, exceeding its residential screening level of 16 mg/kg.

3.8.6 Areas of Lead Contamination

Two areas of lead contamination (Areas 158-1 and 158-2) were identified within Site 158's investigative area. These areas are depicted on Figure 3-8. Calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-21.

Area 155-1 encompasses an area in the northern portion of the vacant lot (former railway yard) that is located west of 21st Street (vacated) (property 158-B). Although the XRF analyzer reported a lead concentration of 163 mg/kg in surface soil at sampling location 158-B9 (below the 400-mg/kg screening level), laboratory analysis of sample 158-B9-01-02 indicated a lead concentration of 420 mg/kg. Based on a 6-inch depth of contamination and an area of 2,329 m^2 (2,795 yd^2), the estimated volume of lead-contaminated soil within Area 158-1 is 503 yd^3.

Area 158-2 encompasses the backyard of the residence at 545 22nd Street (property 158-D). Although the XRF analyzer reported a lead concentration of 210 mg/kg (below the 400-mg/kg screening level) in surface soil at sampling location 158-D1, laboratory analysis of sample 158-D1-01-01 indicated a lead concentration of 440 mg/kg. The surface soil was rescreened using the XRF during Stage 2 of the investigation. The results indicated a lead concentration of less than 220 mg/kg. Based on a depth of contamination of 6 inches and an area of 222 m^2 (266 yd^2), the estimated volume of lead-contaminated soil within Area 158-2 is 48 yd^3.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within Site 158's investigative area. is estimated to be 551 yd^3.

3.9 SITE 160 - VICINITY OF EAST ST. LOUIS AWNING

A total of 48 locations were sampled from 22 properties within Site 160's investigative area. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-9. A total of 57 samples were screened using the XRF analyzer; five samples were collected for laboratory analysis of RCRA metals; and 17 investigative samples and one duplicate sample were collected for laboratory analysis of total lead. In addition, one sample was collected for analysis of TCL parameters. Figure 3-9 indicates the sampling locations and the approximate boundary of Site 160.

3.9.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the sample collected from location 160-A1. VOCs were not detected at concentrations above their respective screening levels.

3.9.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the sample collected from location 160-A1. Benzo(a)anthracene was the only SVOC detected at a concentration exceeding its respective screening level. Benzo(a)anthracene was detected at 1,100 ug/kg, exceeding its residential screening level of 875 ug/kg.

3.9.3 Pesticides

Table 3-3 presents the results for pesticide analysis performed on the sample collected from location 160-A1. 4-4'-DDT was the only pesticide detected at a concentration exceeding its respective screening level. 4,4'-DDT was detected at 2,800 ug/kg, exceeding its residential screening level of 1,879 ug/kg.

3.9.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the sample collected from location 160-A1. PCBs were not detected at concentrations above their respective screening levels.

3.9.5 Inorganic Chemicals

Table 3-22 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Site 160's investigative area and compares the results to screening levels. discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its screening level of 400 mg/kg at seven properties in the Site 160 investigative area. Total lead was detected at concentrations exceeding 400 mg/kg in 7 of the 57 samples screened using the XRF analyzer, in two of the five investigative samples submitted for laboratory analysis of RCRA metals, and in three of the 17 investigative samples submitted for laboratory analysis of total lead. Figure 3-9 indicates the sampling locations where total lead was detected at concentrations exceeding the 400 mg/kg. screening level. Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

Other Metals

Other than lead, chromium and uranium were the only other metals detected at concentrations exceeding their respective screening levels. Chromium was detected above its residential screening level of 3,900 mg/kg in two samples: 160-G2-01-01 (5,418 mg/kg) and 160-Q1-01-01 (4,627 mg/kg). Uranium was detected in sample 160-P3-01-01 at a concentration of 36.4 mg/kg, exceeding its residential screening level of 16 mg/kg.

3.9.6 Areas of Lead Contamination

Four areas of lead contamination (Areas 160-1 through 160-4) were identified within Site 160's investigative area. These areas are depicted on Figure 3-9. Calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-23. All four areas are relatively small with the largest area being 550 m^2 (660 yd^2).

Area 160-1 is the largest of the areas of contamination within Site 160's investigative area. Area 160-1 encompasses the eastern portion of the yard area associated with the multifamily residential building located at 1901/1903 Ridge (former East St. Louis Awning Company; property 160-A) and the backyard area of the apparently abandoned apartment building (property 160-E), located immediately north of property 160-A. XRF and laboratory analysis of soil samples collected from locations 160-A1 and 160-E2 indicate depths of contamination of 6 and 24 inches at the respective sampling locations. As indicated in Table 3-23 and on Figure 3-9, the area of Area 160-1 is approximately 550 m^2 (660 yd^2). Based on a 15-inch average depth of contamination, the estimated *in situ* volume of lead-contaminated soil within Area 160-1 is 297 yd^3.

Area 160-2 consists of the backyard of the residence at 416 18th Street (property 160-O) and extends into the backyards of the neighboring residences. Although the XRF analyzer reported a lead concentration of 1,040 mg/kg in surface soil at sampling location 160-O2 (exceeding the 400 mg/kg screening level), laboratory analysis of sample 160-O2-01-01 indicated a lead concentration of 110 mg/kg. Based on a depth of contamination of 6 inches and an area of 101 m^2 (121 yd^2), the estimated volume of lead-contaminated soil within Area 160-2 is 22 yd^3.

Area 160-3 consists of the northwest portion of the vacant lot located at the northwest corner of 18th Street and Ridge Avenue intersection (property 160-P). Although the XRF analyzer reported a lead concentration of 314 mg/kg in surface soil at sampling location 160-P1 (below the 400-mg/kg screening level), laboratory analysis of sample 160-P1-01-01 indicated a lead concentration of 430 mg/kg. Based on an assumed 6-inch depth of contamination and a 253 m^2 (304 yd^2) area of contamination, the estimated *in-situ* volume of lead-contaminated soil within Area 160-3 is 55 yd^3.

Area 160-4 is a relatively small area (131 m^2 [157 yd^2]) located along the south side yard of the residence (property 160-V) immediately north of the commercial facility on the northeast corner of 18th Street and Ridge Avenue intersection. Although the XRF analyzer reported a lead concentration of 292 mg/kg in surface soil at sampling location 160-V1 (below the 400-mg/kg screening level), laboratory analysis of the sample indicated a lead concentration of 490 mg/kg. The estimated volume of lead-contaminated soil associated with Area 160-4 is 28 yd^3, based on a 6-inch depth interval of lead contamination.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within Site 160's investigative area is estimated to be 402 yd3.

3.10 SITE 173 - DARLING AND COMPANY

A total of 39 locations were sampled from 16 properties within Site 173's investigative area. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-10. A total of 56 samples were screened using the XRF analyzer; six investigative samples and one duplicate sample were collected for laboratory analysis of RCRA metals; and eight samples were collected for laboratory analysis of total lead. In addition, one sample was collected for analysis of TCL parameters. Figure 3-10 indicates the sampling locations and the approximate boundary of Site 173.

3.10.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the sample collected from location 173-A8. VOCs were not detected at concentrations above their respective screening levels.

3.10.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the sample collected from location 173-A8. SVOCs were not detected at concentrations above their respective screening levels.

3.10.3 Pesticides

Table 3-3 presents the results for pesticide analysis performed on the sample collected from location 173-A8. Dieldrin was the only pesticide detected at a concentration exceeding its respective screening level. Dieldrin was detected at 1,000 ug/kg, exceeding its commercial/industrial screening level of 358 mg/kg.

3.10.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the sample collected from location 173-A8. PCBs were not detected at concentrations above their respective screening levels.

3.10.5 Inorganic Chemicals

Table 3-24 presents the XRF and laboratory analytical data for total metals in the soil samples collected within Site 173's investigative area and compares the results to screening levels. A discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its screening level of 400 mg/kg at six properties. Total lead was detected at concentrations exceeding 400 mg/kg in 15 of the 56 samples screened using the XRF analyzer, in four of the six investigative samples and the duplicate sample submitted for laboratory analysis of RCRA metals, and in four of the eight investigative samples submitted for laboratory analysis of total lead. Figure 3-10 indicates the sampling locations where total lead was detected at concentrations exceeding the 400-mg/kg screening level. Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

Other Metals

Other than lead, arsenic and chromium were the only other metals detected at concentrations exceeding their respective screening levels. Arsenic was detected in surface soil at levels exceeding

the residential screening level of 230 mg/kg at two locations: 173-A8 (1,290 mg/kg) and 173-B1 (663.6 mg/kg). Although the XRF analyzer reported an elevated lead concentration at location 173-A8, laboratory analysis of sample 173-A8-01-01 indicated an arsenic concentration of 11 mg/kg. Chromium was detected above its residential screening level of 3,900 mg/kg in five samples, at concentrations ranging from 4,410 to 12,000 mg/kg.

3.10.6 Areas of Lead Contamination

Five areas of lead contamination (Areas 173-1 through 173-5) were identified within the Site 173 investigative area. These areas are depicted on Figure 3-10. Calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-25.

Area 173-1 is the largest of the areas of contamination within Site 173's investigative area. Area 173-1 encompasses the Darling and Company property (Site 173; property 173-A). Lead was detected above its screening level of 400 mg/kg at each of the nine sampling locations on the property; however, most of this contamination appeared to be primarily surficial (within 6 inches bgs). The second 6-inch depth interval was found to contain lead at concentrations exceeding 400 mg/kg at three of the nine sampling locations (173-A4, -A5, and -A8). Lead was not detected at levels above 400 mg/kg in any of the samples collected from below 12 inches bgs from property 173-A. The average depth of contamination in Area 173-1 was calculated to be 8 inches based on the metals data. As indicated in Table 3-25 and on Figure 3-10, the area of Area 173-1 is approximately 19,390 m^2 (23,268 yd^2). Based on these assumptions, the estimated *in-situ* volume of lead-contaminated soil within Area 173-1 is 5,584 cubic yards (yd^3).

Area 173-2 is a relatively smaller area (251 m^2 [301 yd^2]) located in the front and side yard of the single-family residence at 910 Victory Avenue (property 173-B). XRF and laboratory analysis of soil at location 173-B1 indicate a 6-inch depth of contamination. Based on the assumed areal and vertical extent of contamination, the estimated volume of lead-contaminated soil within Area 173-2 is 54 yd^3.

Area 173-3 consists of southern portion of the vacant lot located on the south side of Victory Avenue (property 173-M) and the backyard of the residence at 912 Victory Drive (property 173-C). Although the XRF analyzer reported a lead concentration of 309 mg/kg in surface soil at sampling location 173-

C2 (below the 400 mg/kg screening level), laboratory analysis of sample 173-C2-01-01 indicated a lead concentration of 460 mg/kg. Based on an assumed 6-inch depth of contamination and a 858 m^2 (1,030 yd^2) area of contamination, the estimated *in-situ* volume of lead-contaminated soil within Area 173-3 is 185 yd^3.

Area 173-4 is a moderately sized (696 m^2 [835 yd^2]), irregularly shaped area that includes the northern portion of the vacant lot at the southwest corner of 9th and Sycamore Streets intersection (property 173-G) and the backyard of the residential property at 910 Sycamore Street (property 173-F), immediately east of the vacant lot. Although the XRF analyzer reported lead concentrations of 203 and 369 mg/kg in surface soil at sampling locations 173-F2 and 173-G1, respectively, laboratory analysis of samples 173-F2-01-01 and 173-G1-01-01 indicated respective lead concentrations of 420 and 4,000 mg/kg. Based on a 6-inch depth interval of lead contamination at each sampling location, the estimated volume of lead-contaminated soil associated with Area 173-4 is 150 yd^3.

Area 173-5 consists of the western portion of the vacant lot located at the southeast corner of Mississippi Avenue and Sycamore Street intersection (property 173-K). XRF and laboratory analysis of soil at location 173-K2 indicate a 12-inch depth of contamination. Based on an assumed 6-inch depth of contamination and a 791 m^2 (949 yd^2) area of contamination, the estimated *in-situ* volume of lead-contaminated soil within Area 173-5 is 342 yd^3.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within Site 173's investigative area is estimated to be 6,316 yd^3.

3.11 SITE 178 - VOELKER PLATING WORKS

A total of 38 locations were sampled from 15 properties within Site 178's investigative area. Sampling location identifiers, state plane coordinates, and a descriptions of the properties that the sampling locations are associated with are presented in Table 2-11. A total of 45 samples were screened using the XRF analyzer; six investigative samples and one duplicate sample were collected for laboratory analysis of RCRA metals; five investigative samples and two duplicate samples were collected for laboratory analysis of TAL metals; and five investigative samples and one duplicate sample were collected for laboratory analysis of total lead. In addition, one sample was collected for

analysis of TCL parameters. Figure 3-11 indicates the sampling locations and the approximate boundary of Site 173.

3.11.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the sample collected from location 178-A3. VOCs were not detected at concentrations above their respective screening levels.

3.11.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the sample collected from location 178-A3. SVOCs were not detected at concentrations above their respective screening levels.

3.11.3 Pesticides

Table 3-3 presents the results for pesticide analysis performed on the sample collected from location 178-A3. Dieldrin was the only pesticide detected at a concentration exceeding its respective screening level. Dieldrin was detected at 220 ug/kg, exceeding its residential screening level of 40 ug/kg.

3.11.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the sample collected from location 178-A3. PCBs were not detected at concentrations above their respective screening levels.

3.11.5 Inorganic Chemicals

Table 3-26 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Site 173's investigative area and compares the results to screening levels. A discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its screening level of 400 mg/kg at five properties (178-A, -C, -F, -J, and -O) in the Site 178 investigative area. Total lead was detected at concentrations exceeding 400 mg/kg in 6 of the 45 samples screened using the XRF analyzer, in three of the six investigative samples and the duplicate sample submitted for laboratory analysis of RCRA metals, in one of the five investigative samples submitted for laboratory analysis of TAL metals, and in two of the five investigative samples and the duplicate sample submitted for laboratory analysis of total lead. Figure 3-11 indicates the sampling locations where total lead was detected at concentrations exceeding the 400-mg/kg screening level. Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

Other Metals

Other than lead, chromium was the only other metal detected at a concentration exceeding its respective screening level. Chromium was detected above its residential screening level of 3,900 mg/kg in two samples: 178-E1-01-01 (7,149 mg/kg) and 178-J2-01-01 (4,090 mg/kg).

3.11.6 Areas of Lead Contamination

Four areas of lead contamination (Areas 178-1 through 178-4) were identified within Site 178's investigative area. These areas are depicted on Figure 3-11. Calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-27.

Area 178-1 is an irregularly shaped area in the side yard and backyard of the residential property located at 435 26th Street (property 178-A). XRF analysis of soil at locations 178-A1, 178-A3, 178-A5, and 178-A7 indicates that the depth of lead contamination in Area 178-1 is approximately 6 inches bgs. As indicated in Table 3-27 and on Figure 3-11, the area of Area 178-1 is approximately 446 m^2 (535 yd^2). Based on a 6-inch depth of contamination, the estimated *in-situ* volume of lead-contaminated soil within Area 178-1 is 77 yd^3.

Area 178-2 consists of the backyard of the residential property identified as property 178-C and extends into the southeastern portion of the adjacent vacant lot. XRF and laboratory analysis of soil samples collected from location 178-C2 indicates a 12-inch depth of contamination. Based on a depth of contamination of 12 inches and an area of 283 m^2 (340 yd^2), the estimated volume of lead-contaminated soil within Area 178-2 is 122 yd^3.

Area 178-3 is a relatively small area (89 m^2 [107 yd^2]) located along the south side yard and front yard of the residence at 401 25th Street (property 178-F). Although the XRF analyzer reported a lead concentration of 318 mg/kg in surface soil at sampling location 178-F2 (below the 400-mg/kg screening level), laboratory analysis of sample 178-F2-01-01 indicated a lead concentration of 530 mg/kg. Based on a 6-inch depth interval of lead contamination, the estimated volume of lead-contaminated soil associated with Area 178-3 is 19 yd^3.

Area 178-4 is a moderately sized area (661 m^2 [793 yd^2]) located along the southern portion of the vacant lot located at the southwest corner of 27th Street and Louisiana/Lake Boulevard intersection (properties 178- J and 178-O). XRF and laboratory analysis of soil samples collected from location 178-J1 indicates a 12-inch depth of contamination. Although the XRF analyzer reported a lead concentration of 258 mg/kg in surface soil at sampling location 178-O1 (below the 400-mg/kg screening level), laboratory analysis of sample 178-O1-01-01 indicated a lead concentration of 450 mg/kg. Based on an average 9-inch depth interval of lead contamination, the estimated volume of lead-contaminated soil associated with Area 178-4 is 214 yd^3.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within Site 178's investigative area is estimated to be 433 yd^3.

3.12 SITE 185 - BLAIR TIRRELL BOILER COMPANY

A total of 48 locations were sampled from 16 properties within Site 185's investigative area. Sampling location identifiers, state plane coordinates, and a descriptions of the properties that the sampling locations are associated with are presented in Table 2-12. A total of 57 samples were screened using the XRF analyzer, five samples were collected for laboratory analysis of RCRA metals; and nine investigative samples and three duplicate samples were collected for laboratory

analysis of total lead. In addition, one sample was collected for analysis of TCL parameters. Figure 3-12 indicates the sampling locations and the approximate boundary of Site 185.

3.12.1 Volatile Organic Compounds

Table 3-1 presents the VOC analytical results for the sample collected from location 185-A4. VOCs were not detected at concentrations above their respective screening levels.

3.12.2 Semivolatile Organic Compounds

Table 3-2 presents the SVOC analytical results for the sample collected from location 185-A4. Benzo(a)pyrene was the only SVOC detected at a concentration exceeding its respective screening level. Benzo(a)pyrene was detected at 450 ug/kg, exceeding its residential screening level of 875 ug/kg.

3.12.3 Pesticides

Table 3-3 presents the results for pesticide analysis performed on the sample collected from location 185-A4. Pesticides were not detected at concentrations above their respective screening levels.

3.12.4 Polychlorinated Biphenyls

Table 3-4 presents the PCB analytical results for the sample collected from location 185-A4. PCBs were not detected at concentrations above their respective screening levels.

3.12.5 Inorganic Chemicals

Table 3-28 presents the XRF and laboratory analytical data for total metals in the soil samples collected within Site 185's investigative area and compares the results to screening levels. A discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its screening level of 400 mg/kg at six properties in Site 185's investigative area. Total lead was detected at concentrations exceeding 400 mg/kg in 5 of the 57 samples screened using the XRF analyzer, in four of the five samples submitted for laboratory analysis of RCRA metals, and in three of the nine investigative and two of the three duplicate samples submitted for laboratory analysis of total lead. Figure 3-12 indicates the sampling locations where total lead was detected at concentrations exceeding the screening level of 400 mg/kg. Total lead was not defected above its screening level at the Dunbar Elementary School (property 185-H). Further discussion of the total lead analytical results is included in the extent of lead contamination subsection below.

Other Metals

No metals other than lead were detected at concentrations exceeding their respective screening levels in the samples collected from within Site 185's investigative area.

3.12.6 Areas of Lead Contamination

Six areas of lead contamination (Areas 185-1 through 185-6) were identified within Site 185's investigative area. These areas are depicted on Figure 3-12, and calculations of the estimated volumes of lead-contaminated soil are contained in Table 3-29.

Area 185-1 consists of a portion of the lawn area located southeast of the Shiloh A.M.E. church building on Site 185 (property 185-A). XRF and laboratory analysis of samples collected from location 185-A4 indicates an 18-inch depth of lead contamination. Based on an 18-inch depth interval of contamination and an area of contamination of 115 m^2 (138 yd^2), the estimated volume of lead-contaminated soil associated with Area 185-1 is 75 yd^3.

Area 185-2 consists of the front and side yard of the apartment building which is located northeast of the church (property 185-B). Although the XRF readings indicated that lead concentrations at both the sampling locations on the property were below the screening level of 400 mg/kg,Laboratory

analysis of sample 185-B2-0-01 collected from 185-B2 showed lead concentration of 580 mg/kg. Based on an area of contamination of 313 m^2 (376 yd^2), the estimated volume of lead-contaminated soil within Area 185-2 is 376 yd^3.

Area 185-3 consists of the western corner of the vacant lot located at the west corner of 19th Street and Baker Avenue (property 185-D). Although Stage 1XRF and laboratory analysis of sample 185-D1-01-01 indicated that lead concentrations were below the screening level of 400 mg/kg, laboratory analysis of sample collected from the upper 6 inches bgs at location 185-D1 during Stage 2 showed a lead concentration of 480 mg/kg. Based on a 6-inch depth interval of contamination and an area of contamination encompassing 582 m^2 (698 yd^2), the estimated volume of lead-contaminated soil associated with Area 185-3 is 126 yd^3.

Area 185-4 consists of the vacant lot (property 185-G) located between the residential properties on the east side of 19th Street between Baker and Tudor Avenues. XRF and laboratory analysis of samples collected from location 185-G1 indicate a 6-inch depth of lead contamination. Based on an average depth of contamination of 6 inches and an area of 186 m^2 (223 yd^2), the estimated volume of lead-contaminated soil within Area 185-4 is 40 yd^3.

Area 185-5 consists of the backyard of the residential property located on the south side of Tudor, mid-block between 18th and 19th Streets (property 185-J), and extends into the vacant lot that abuts the back of the residential property. Although XRF analysis of surface soil at location 185-J1 indicated a lead concentration of 290 mg/kg (below the screening level of 400 mg/kg), laboratory analytical results for sample 185-J1-01-01 reported a concentration of 410 mg/kg. Based on a 6-inch depth of contamination and an area of 675 m^2 (810 yd^2), the estimated volume of lead-contaminated soil within Area 185-5 is 146 yd^3.

Area 185-6 consists of the side yard and backyard of the residential property located at 1803 Baker (property 185-O). XRF and laboratory analysis of samples collected from location 185-O2 indicate a 6-inch depth of lead contamination in this area. Based on an area of contamination of 288 m^2 (346 yd^2), the estimated volume of lead-contaminated soil within Area 185-2 is 62 yd^3.

Based on the areas and depths of contamination discussed above, the total *in-situ* volume of lead-contaminated soil within Site 185's investigative area is estimated to be 516 yd^3.

3.13 GENERAL AREA A

A total of 24 locations were sampled from nine properties within Area A. Sampling locations are presented in Figure 3-13. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-13. A total of 24 samples were screened using the XRF analyzer, and four investigative samples and one duplicate samples were collected for laboratory analysis of total lead.

Table 3-30 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Area A and compares the results to screening levels. A discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its screening level of 400 mg/kg at five properties (A-A, -B, -C, -G, and -I). Total lead was detected at concentrations exceeding 400 mg/kg in 7 of the 24 samples screened using the XRF analyzer and in all of the four investigative samples and the duplicate sample submitted for laboratory analysis of total lead. Figure 3-13 indicates the sampling locations where total lead was detected at concentrations exceeding the screening level of 400 mg/kg.

Total lead was detected in sample A-A3-01-01 at concentrations of 624 and 650 mg/kg using XRF and laboratory analysis, respectively. Total lead was detected in sample A-B2-01-01 at concentrations of 462 and 770 mg/kg using XRF and laboratory analysis, respectively. Total lead was detected in sample A-C2-01-01 at concentrations of 546 mg/kg and 1,000 mg/kg via XRF and laboratory analysis, respectively. XRF analysis of surface soil at locations A-G2, A-I2, and A-I5 indicated lead concentrations of 689 mg/kg, 776 mg/kg, and 523 mg/kg, respectively. XRF analysis of surface soil at location A-I3 indicated a concentration of 618 mg/kg, and laboratory analysis of samples A-I3-01-01 and A-I3-01-01DP indicated lead concentrations of 480 mg/kg and 1,200 mg/kg, respectively.

Other Metals

No other metals were detected at concentrations exceeding their respective screening levels in samples collected from within Area A.

3.14 General Area B

A total of 28 locations were sampled from 13 properties within Area B. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-14. A total of 28 samples were screened using the XRF analyzer, and one sample was collected for laboratory analysis of total lead. Sampling locations are presented in Figure 3-14.

Table 3-31 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Area B and compares the results to screening levels. A discussion of the analytical results is presented below.

Lead

Total lead was detected at a concentration exceeding its screening level of 400 mg/kg in one sample collected from within Area B. Total lead was detected in sample B-E2-01-01 at concentrations of 418 mg/kg and 610 mg/kg via XRF and laboratory analysis, respectively. Figure 3-14 indicates sampling location B-E2. Total lead did not exceed it's screening level in surface soil screened at either public housing development (properties B-J and B-K), at the Lucas Elementary School (property B-L), or at the playground at the east corner of the intersection of 14th Street and Russell Avenue (property B-D).

Other Metals

No other metals were detected at concentrations exceeding their respective screening levels in samples collected from within Area B.

3.15 GENERAL AREA C

A total of 27 locations were sampled from 12 properties within Area C. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-15. A total of 27 samples were screened using the XRF analyzer, and two samples were collected for laboratory analysis of total lead. Sampling locations are presented on Figure 3-15.

Table 3-32 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Area C and compares the results to screening levels. A discussion of the analytical results is presented below.

Lead

Total lead was detected at a level above its 400-mg/kg screening level of 400 mg/kg at three properties (C-G, -I, and -K) within Area C. Total lead was detected at concentrations exceeding 400 mg/kg in 5 of the 27 samples screened using the XRF analyzer and in both of the samples submitted for laboratory analysis of total lead. Figure 3-15 depicts the locations where lead was detected at concentrations exceeding its screening level.

XRF analysis of the ground surface at locations C-G1 and C-G2 indicated lead concentrations of 699 mg/kg and 409 mg/kg, respectively. Laboratory analysis of soil sample C-G1-01-01 (collected from 0 to 6 inches bgs at location C-G1) confirmed the XRF analytical results as the lead concentration was reported to be 1,200 mg/kg.

XRF analysis of the ground surface at locations C-I1 and C-I2 indicated lead concentrations of 427 mg/kg and 409 mg/kg, respectively. Laboratory analysis of soil sample C-I1-01-01 (collected from 0 to 6 inches bgs at location C-I1) confirmed the XRF analytical results as the lead concentration was reported to be 520 mg/kg.

XRF analysis of the surface soil at location C-K2 indicated a lead concentration of 498 mg/kg.

Other Metals

No other metals were detected at concentrations exceeding their respective screening levels in samples collected from within Area C.

3.16 GENERAL AREA D

A total of 16 locations were sampled from seven properties within Area D. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-16. A total of 16 samples were screened using the XRF analyzer. Sampling locations are presented in Figure 3-16.

Table 3-33 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Area D and compares the results to screening levels. Metals were not detected at concentrations exceeding their respective screening levels in any of the soil samples collected from within Area D.

3.17 GENERAL AREA E

A total of 12 locations were sampled from six properties within Area E. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-17. A total of 12 samples were screened using the XRF analyzer, and one sample was collected for laboratory analysis of total lead. Sampling locations are presented in Figure 3-17.

Table 3-34 presents the XRF and laboratory analytical data the total metals in the soil samples collected within the Area E investigative area and compares the results to screening levels. Discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its 400 mg/kg screening level at only one property (E-C) in Area E. Total lead was detected at a concentration of 576 mg/kg at E-C1 using the XRF analyzer (exceeding the 400 mg/kg screening level); however, laboratory analysis of sample E-C01-01-01 indicated a lead concentration of 350 mg/kg. Figure 3-17 indicates sampling location E-C1. Lead was below its screening level in surface soil analyzed at two locations at the Kids Komr Daycare facility (property E-D).

Other Metals

No other metals were detected at concentrations exceeding their respective screening levels in samples collected from within Area E.

3.18 GENERAL AREA F

A total of 16 locations were sampled from seven properties within Area F. Sampling location identifiers, state plane coordinates, and a description of the properties that the sampling locations are associated with are presented in Table 2-18. A total of 17 samples were screened using the XRF analyzer and one sample was collected for laboratory analysis of RCRA metals. In addition, one sample was collected for analysis of TCLP metals. Sampling locations are presented in Figure 3-18.

Table 3-35 presents the XRF and laboratory analytical data for the total metals in the soil samples collected within Area F and compares the results to screening levels. Table 3-8 presents the TCLP metals data and compares the results to the regulatory limit for toxicity characteristic established in 40 CFR 261.24. A discussion of the analytical results is presented below.

Lead

Total lead was detected at levels above its 400-mg/kg screening level at one property (F-F) in Area F. Although XRF analysis of surface soil and the sample collected from the 6 to 12-inch bgs depth interval at sampling location F-F2 (sample F-F2-01-01) indicated lead at concentrations exceeding

the 400-mg/kg screening level (1,410 mg/kg and 882 mg/kg, respectively), laboratory analysis of the soil sample collected from the 0 to 6-inch bgs depth interval indicated a lead concentration of 200 mg/kg. Figure 3-18 indicates sampling location F-F2. Lead concentrations did not exceed the 400 mg/kg screening level in surface soil at the Alta-Site Elementary School (property F-G) or near the jungle pym in the public park (property F-D).

Other Metals

No other metals were detected at concentrations exceeding their respective screening levels in samples collected from within Area F.

SECTION 4

CONCLUSIONS

The following are the major findings of the Site Investigation Report:

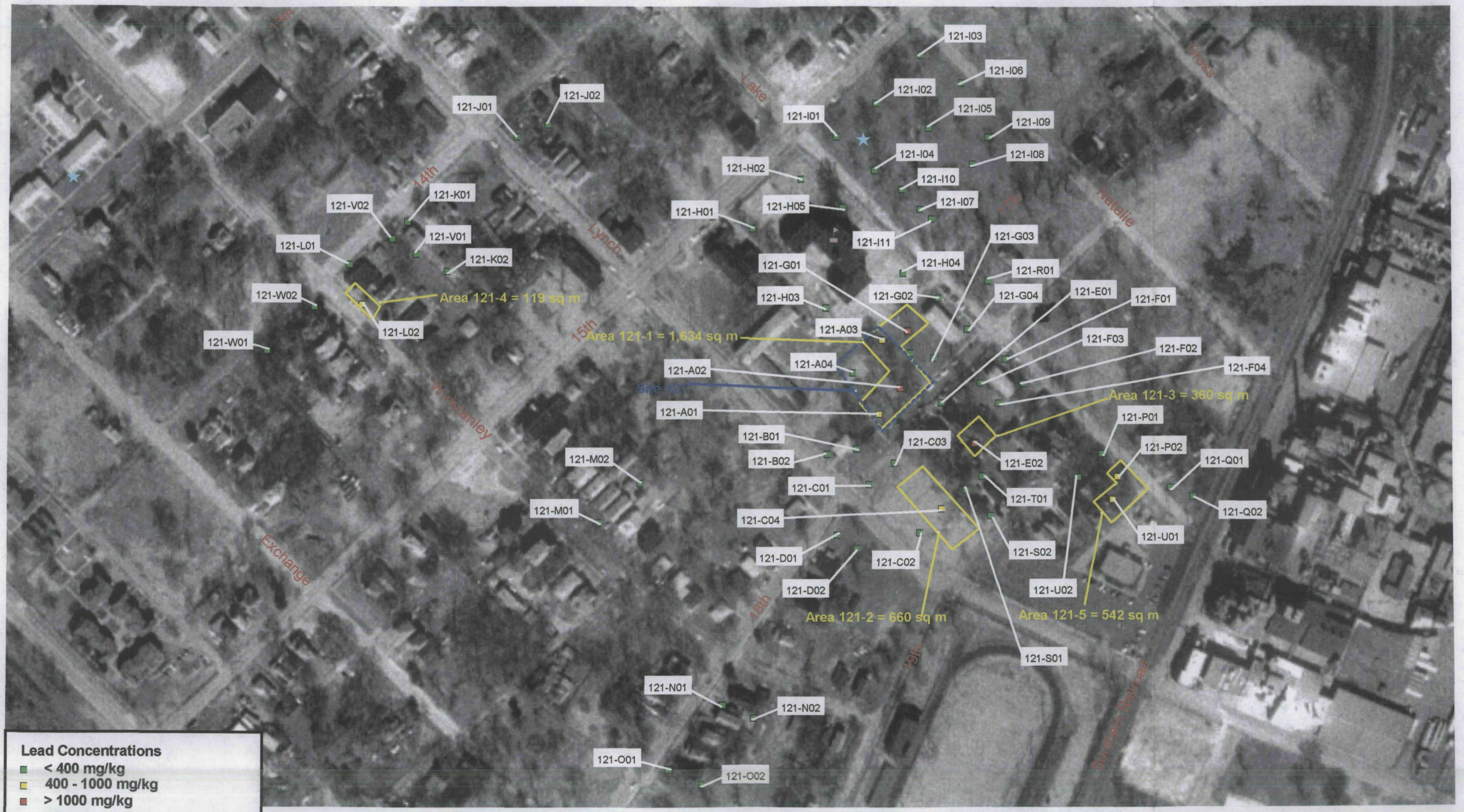
- In general, good correlation was observed between the laboratory and XRF analytical results. Although some variability in the data was observed, this condition is expected due to the nonhomogeneous nature of soil. Variance similar to that observed between samples analyzed using the XRF versus by the laboratory was observed between investigative and duplicate samples analyzed by the laboratory.
- Lead was detected at concentrations exceeding the 400 mg/kg screening level within every investigative area except General Area D. Distinct areas of contamination were evident in certain investigative areas (i.e., Sites 136, 145, and 173); however, areas of contamination were not clearly defined in other investigative areas (i.e., Sites 121, 141, and 143).
- No correlation between blood lead data and total lead concentrations in the soil is evident.
- Very few samples contained concentrations of SVOCs, pesticides, and/or PCBs above their respective screening levels, and no sample contained VOCs at concentrations exceeding a screening level.

  Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were the only SVOCs detected above their respective screening levels. SVOCs exceeded their screening in samples collected from Sites 136, 155, 157, 160, and 185.

  Dieldrin and 4,4'-DDT were the only pesticides detected at concentrations exceeding their respective screening levels. Pesticides exceeded their screening levels at Sites 121, 143, 158, 173, and 178.

  The only instance where a PCB was detected above screening levels was in the sample collected from Site 136.
- Inorganic chemicals (other than lead) that exceeded their respective screening levels included arsenic, chromium, copper, iron, manganese, and uranium. At least one of these metals was detected above its respective screening level in at least one sample from every investigative area associated with the former industries except for Sites 143 and 185. Metals other than lead were not detected above their respective screening levels in any of the samples collected from general Areas A through F.
- Lead was the only metal that exceeded its toxicity characteristic screening level. Lead exceeded its TCLP limit in two samples collected from Site 136.

FIGURES



Lead Concentrations
- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School
- Extent of Contamination
- Site Boundary

N

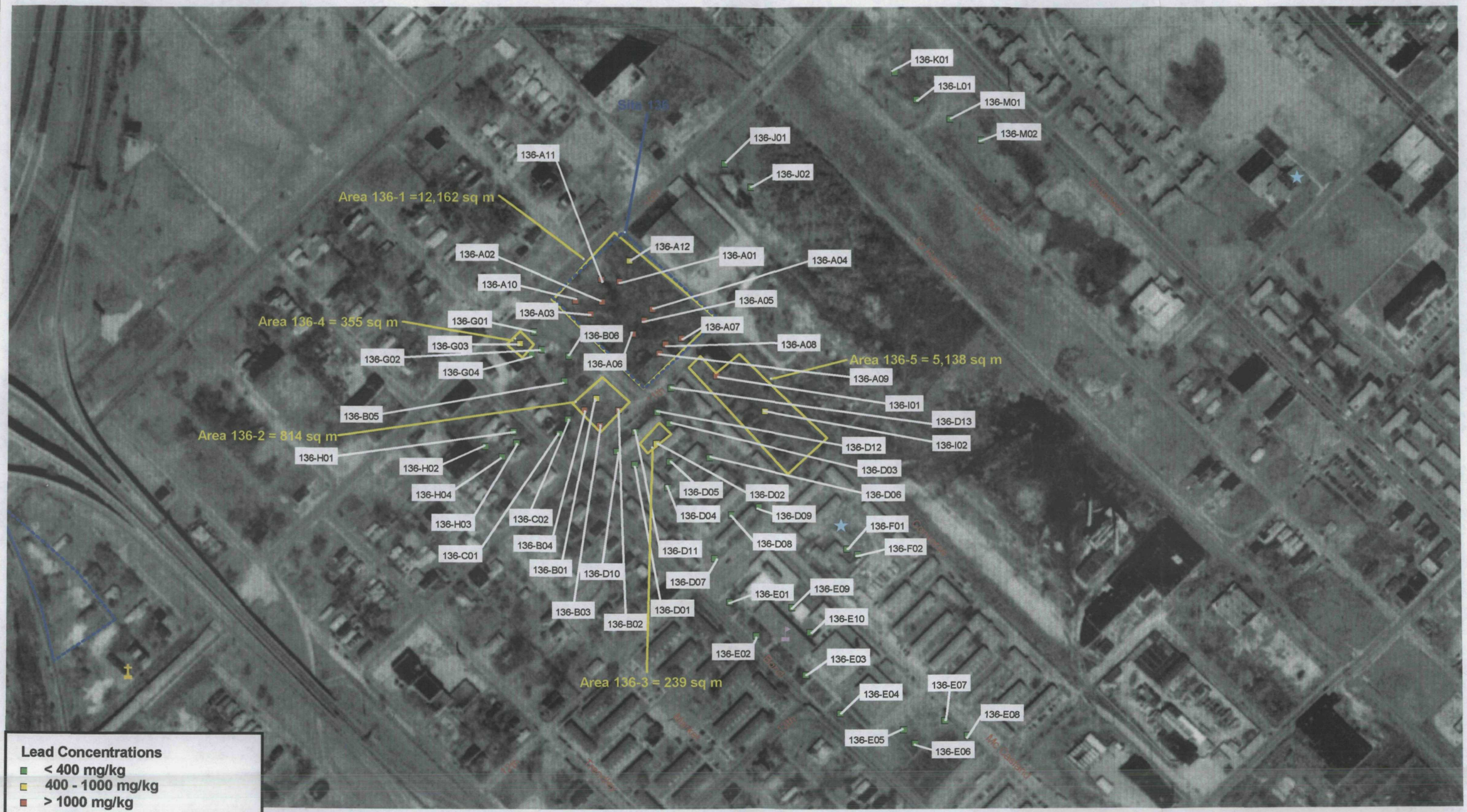
0 200 Feet

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-1

SITE 121
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois



Lead Concentrations
- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School
- Extent of Contamination
- Site Boundary

N

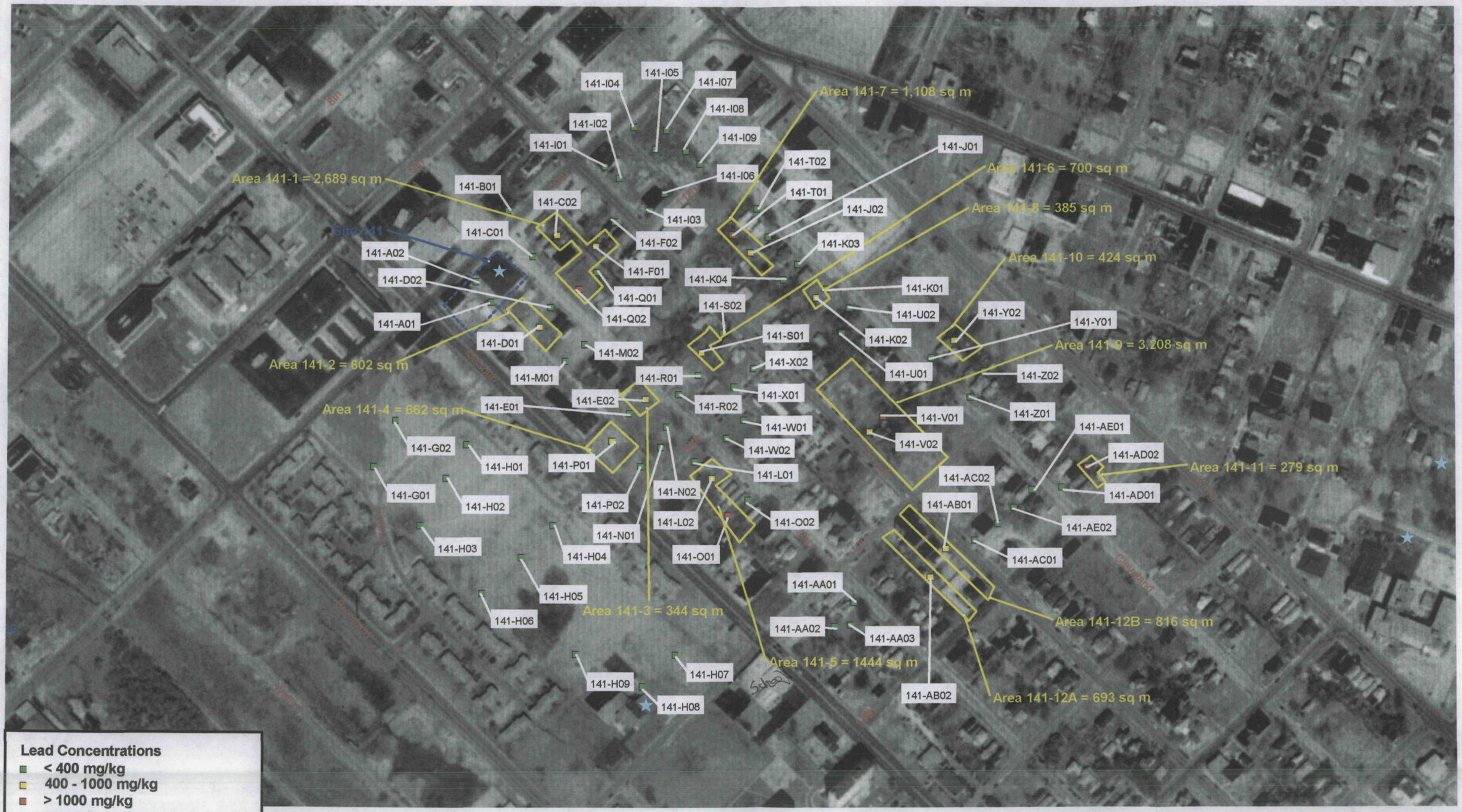
0 300 Feet

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-2

SITE 136
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois


141-I04
141-I05
141-I07
141-I08
141-I02
141-I09
141-I01
141-I06
141-T02
141-T01
141-J01
141-J02
141-B01
141-C02
141-I03
141-C01
141-F02
141-K03
141-A02
141-F01
141-K04
141-D02
141-Q01
141-K01
141-S02
141-U02
141-Q02
141-A01
141-S01
141-K02
141-D01
141-M02
141-X02
141-U01
141-M01
141-R01
141-Z02
141-X01
141-E02
141-R02
141-E01
141-V01
141-Z01
141-W01
141-AE01
141-G02
141-V02
141-W02
141-AD02
141-H01
141-L01
141-P01
141-AC02
141-AD01
141-G01
141-N02
141-H02
141-P02
141-AB01
141-AE02
141-L02
141-O02
141-N01
141-H03
141-AC01
141-O01
141-H04
141-AA01
141-H05
141-H06
141-AA02
141-AA03
141-H09
141-H07
141-H08
141-AB02
Area 141-1 = 2,689 sq m
Area 141-2 = 602 sq m
Area 141-3 = 344 sq m
Area 141-4 = 662 sq m
Area 141-5 = 1444 sq m
Area 141-6 = 700 sq m
Area 141-7 = 1,108 sq m
Area 141-8 = 385 sq m
Area 141-9 = 3,208 sq m
Area 141-10 = 424 sq m
Area 141-11 = 279 sq m
Area 141-12A = 693 sq m
Area 141-12B = 816 sq m
Site 141
Lead Concentrations
< 400 mg/kg
400 - 1000 mg/kg
> 1000 mg/kg
Church
Playground/Daycare/Preschool
School
Extent of Contamination
Site Boundary
N
0
300 Feet
Note: For location with more than one sample, the highest concentration is represented.
WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450
FIGURE 3-3
SITE 141
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois

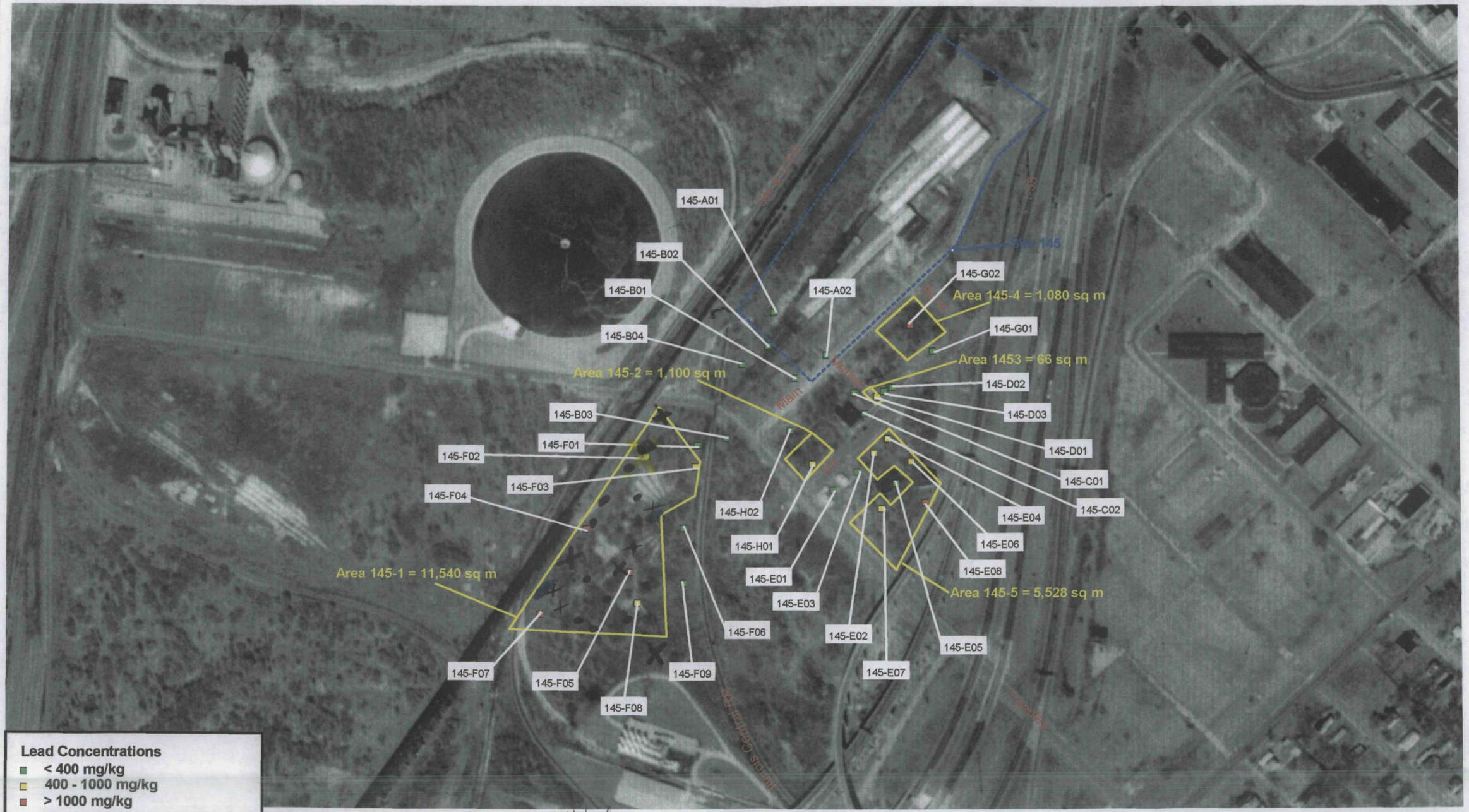
Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS

750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-4

SITE 143
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois



Lead Concentrations
- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School
- Extent of Contamination
- Site Boundary

X > 1000 Lead
• 400-1000 PAH/dioxins

N

0 300 Feet

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-5

SITE 145
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois

Lead Concentrations
- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School
- Extent of Contamination
- Site Boundary

N

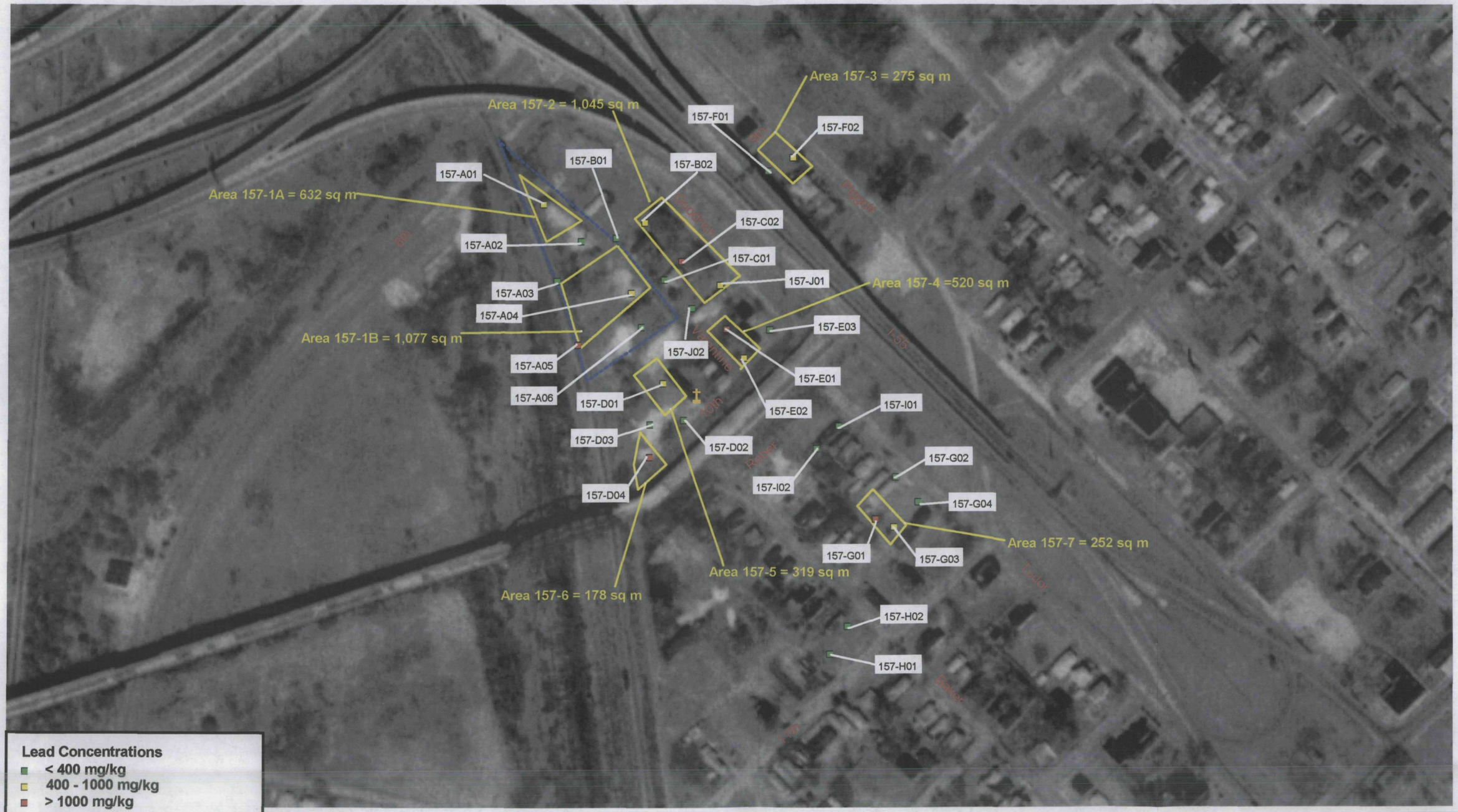
0 300 Feet

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-6

SITE 155
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois

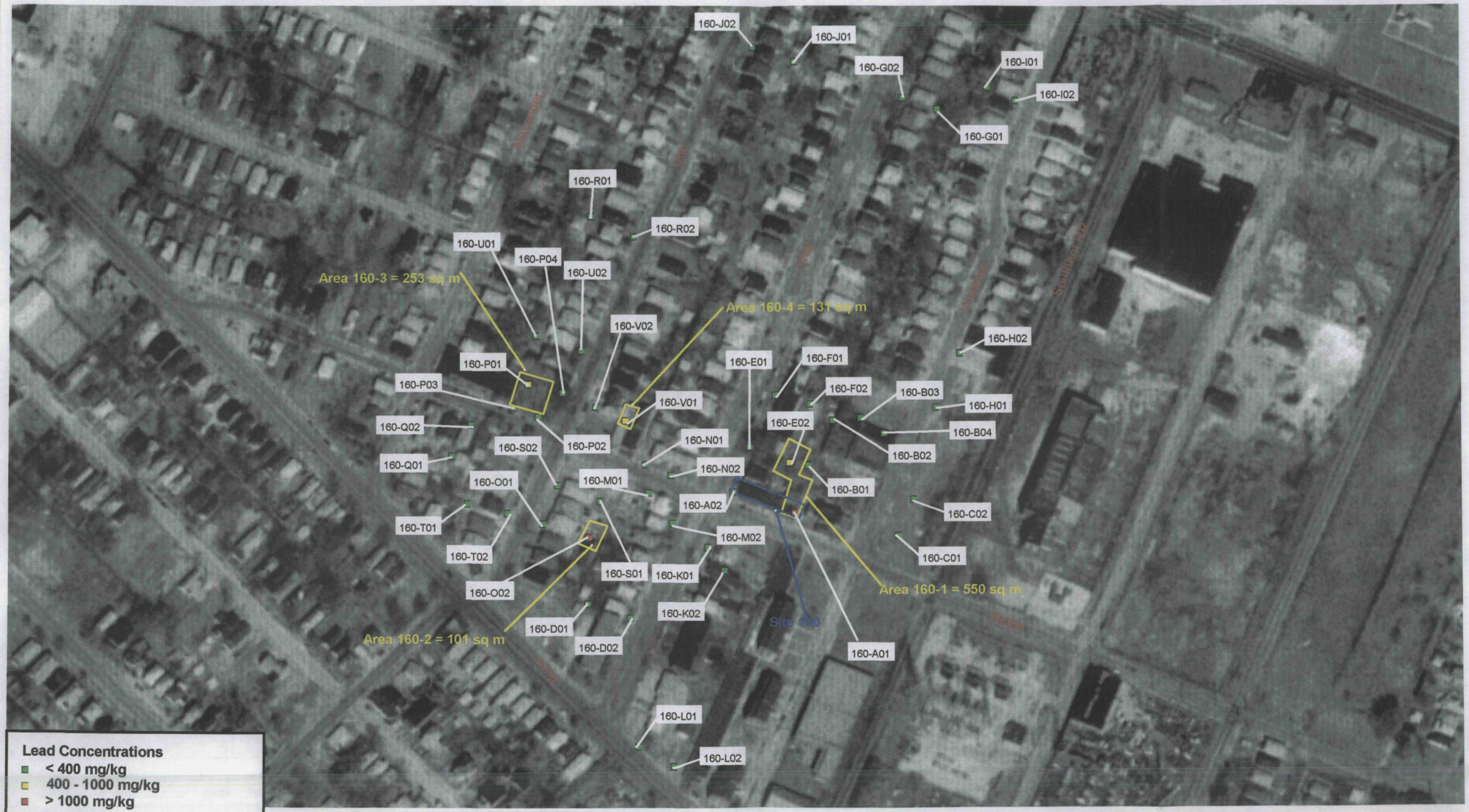

Area 157-3 = 275 sq m
Area 157-2 = 1,045 sq m
157-F01
157-F02
157-B01
157-B02
157-A01
Area 157-1A = 632 sq m
157-C02
157-A02
157-C01
157-J01
157-A03
Area 157-4 =520 sq m
157-A04
157-E03
Area 157-1B = 1,077 sq m
157-J02
157-A05
157-E01
157-A06
157-D01
157-E02
157-I01
157-D03
157-D02
157-G02
157-I02
157-D04
157-G04
Area 157-7 = 252 sq m
157-G01
157-G03
Area 157-5 = 319 sq m
Area 157-6 = 178 sq m
157-H02
157-H01
Lead Concentrations
< 400 mg/kg
400 - 1000 mg/kg
> 1000 mg/kg
Church
Playground/Daycare/Preschool
School
Extent of Contamination
Site Boundary
N
0
200 Feet
Note: For location with more than one sample, the highest concentration is represented.
WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450
FIGURE 3-7
SITE 157
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-8

SITE 158
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois



Lead Concentrations
- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School
- Extent of Contamination
- Site Boundary

N

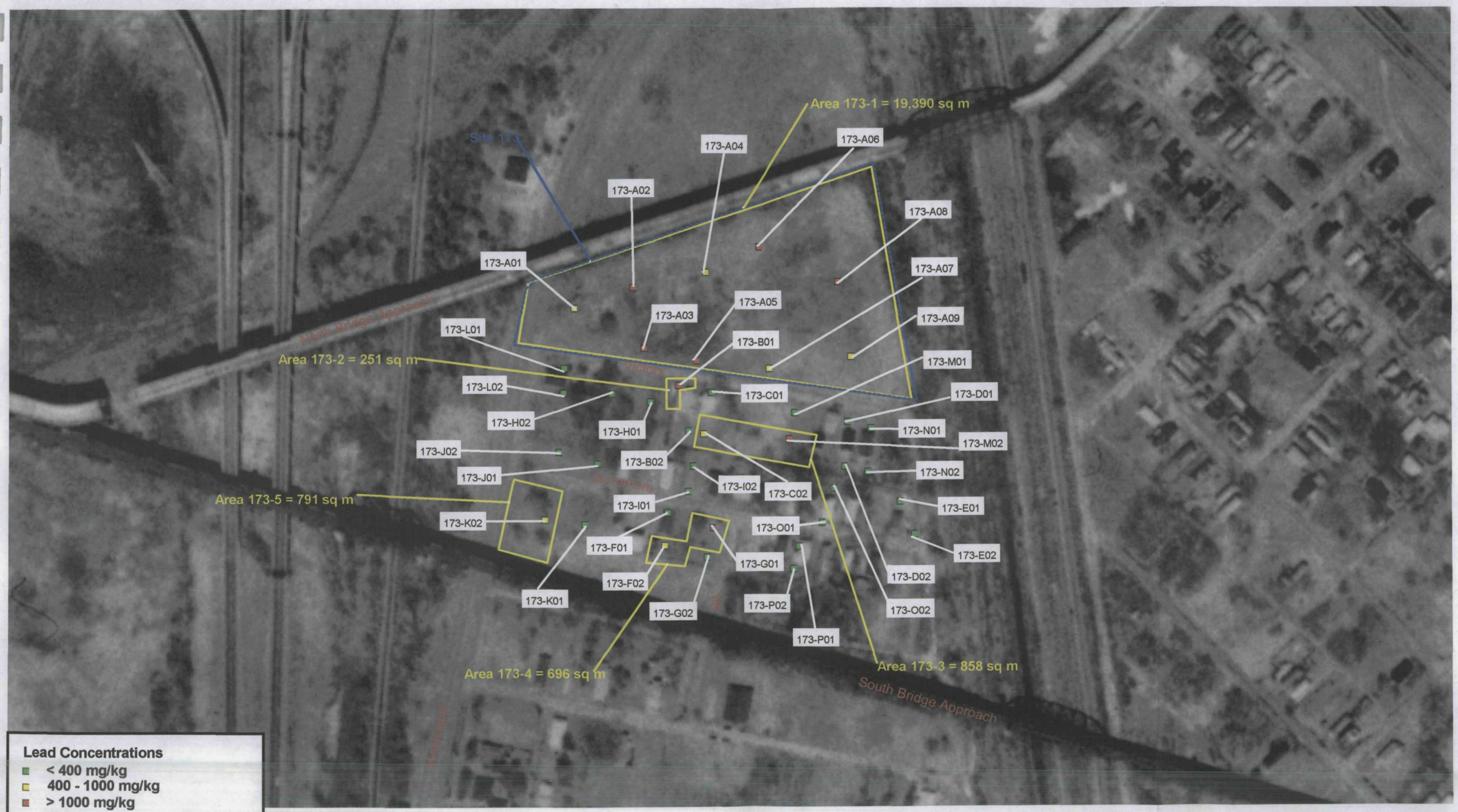
0 200 Feet

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-9

SITE 160
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois


Area 173-1 = 19,390 sq m
Site 173
173-A04
173-A06
173-A02
173-A08
173-A01
173-A07
173-A03
173-A05
173-A09
173-L01
173-B01
Area 173-2 = 251 sq m
173-M01
173-L02
173-C01
173-D01
173-H02
173-H01
173-N01
173-M02
173-J02
173-B02
173-N02
173-J01
173-I02
173-C02
Area 173-5 = 791 sq m
173-E01
173-I01
173-K02
173-O01
173-E02
173-F01
173-G01
173-D02
173-F02
173-K01
173-P02
173-O02
173-G02
173-P01
Area 173-4 = 696 sq m
Area 173-3 = 858 sq m
South Bridge Approach
Lead Concentrations
< 400 mg/kg
400 - 1000 mg/kg
> 1000 mg/kg
Church
Playground/Daycare/Preschool
School
Extent of Contamination
Site Boundary
N
0
200 Feet
Note: For location with more than one sample, the highest concentration is represented.
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450
FIGURE 3-10
SITE 173
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois

Lead Concentrations

- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School
- Extent of Contamination
- Site Boundary

N

0 200 Feet

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-11

SITE 178
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS

750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-12

SITE 185
Lead Concentrations and Extent of Contamination
Mississippi River Gateway Initiative
East St. Louis, Illinois

Lead Concentrations

- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School

N

0 200 Feet

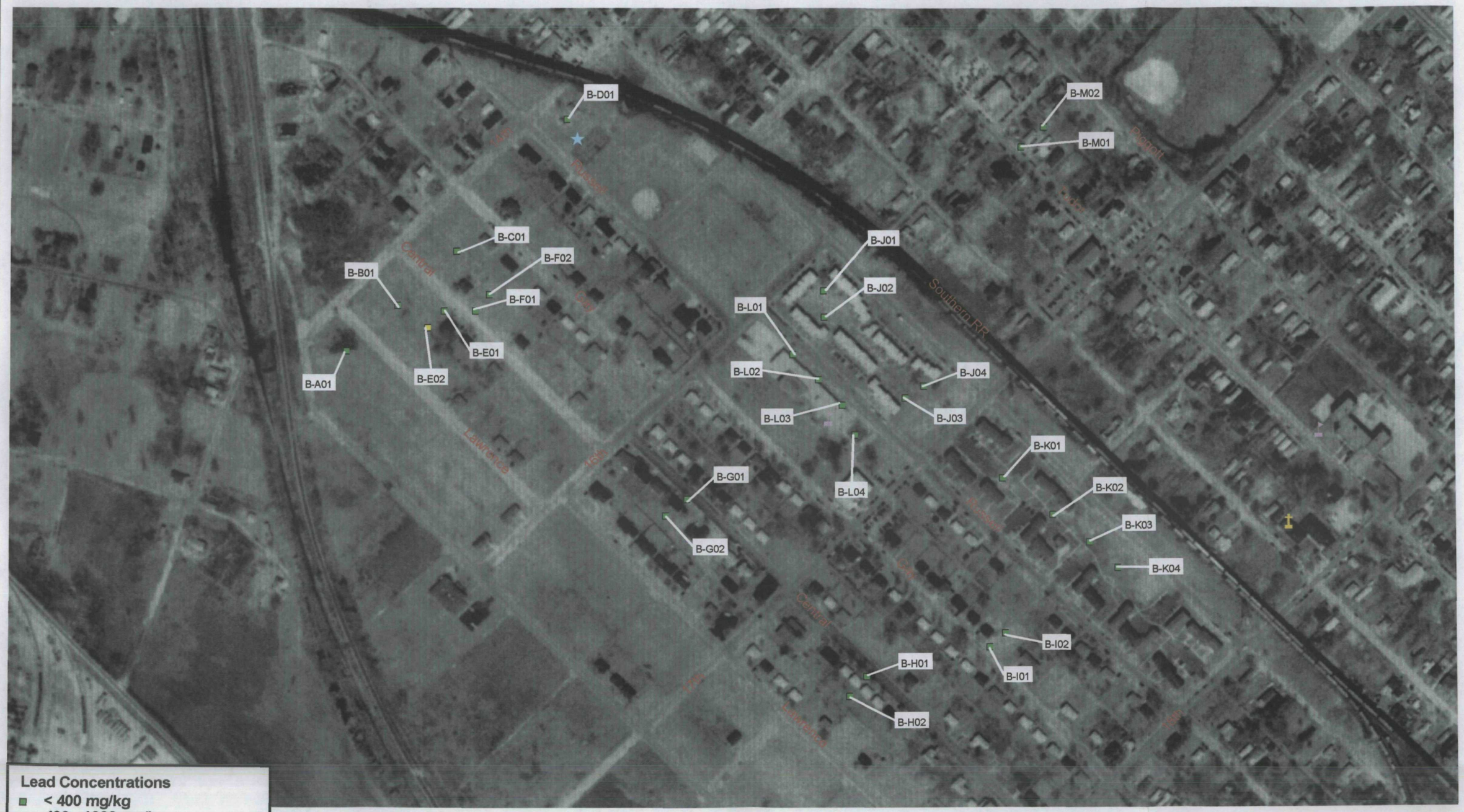
Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-13

Area A

Lead Concentrations
Mississippi River Gateway Initiative
East St. Louis, Illinois



Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS

750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-14

Area B
Lead Concentrations
Mississippi River Gateway Initiative
East St. Louis, Illinois

Lead Concentrations
- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School

N

0 — 200 Feet

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS

750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-15

Area C
Lead Concentrations
Mississippi River Gateway Initiative
East St. Louis, Illinois

Lead Concentrations
- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School

N

0 300 Feet

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-16

Area D
Lead Concentrations
Mississippi River Gateway Initiative
East St. Louis, Illinois

Lead Concentrations
- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School

N

0 200 Feet

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-17

Area E
Lead Concentrations
Mississippi River Gateway Initiative
East St. Louis, Illinois

Lead Concentrations
- < 400 mg/kg
- 400 - 1000 mg/kg
- > 1000 mg/kg
- Church
- Playground/Daycare/Preschool
- School

N

0 300 Feet

Note: For location with more than one sample, the highest concentration is represented.

WESTON SOLUTIONS
750 E. Bunker Ct. Ste. 500
Vernon Hills, Illinois
60061-1450

FIGURE 3-18

Area F
Lead Concentrations
Mississippi River Gateway Initiative
East St. Louis, Illinois

TABLES

Table 2-1
Description of Soil Sampling Locations for Site 121
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
121-A01	749785.349	4279678.633	1315 N. 18th St. (Adept Tool & Machine)
121-A02	749799.791	4279696.511	1315 N. 18th St. (Adept Tool & Machine)
121-A03	749787.7844	4279729.666	1315 N. 18th St. (Adept Tool & Machine)
121-A04	749768.3434	4279706.841	1315 N. 18th St. (Adept Tool & Machine)
121-B01	749770.891	4279654.539	1709 Lynch
121-B02	749751.053	4279650.878	1709 Lynch
121-C01	749779.205	4279629.884	Vacant lot at east corner of Lynch and 18th
121-C02	749812.677	4279596.693	Vacant lot at east corner of Lynch and 18th
121-C03	749795.832	4279644.76	Vacant lot at east corner of Lynch and 18th
121-C04	749827.283	4279613.162	Vacant lot at east corner of Lynch and 18th
121-D01	749757.549	4279595.116	1224 N. 18th St.
121-D02	749770.704	4279585.632	1224 N. 18th St.
121-E01	749827.3	4279686.315	1322 N. 18th St.
121-E02	749850.238	4279658.458	1322 N. 18th St.
121-F01	749871.112	4279716.49	Apartments at south corner of Lake and 18th
121-F02	749883.252	4279699.863	Apartments at south corner of Lake and 18th
121-F03	749854.039	4279699.908	Apartments at south corner of Lake and 18th
121-F04	749866.372	4279686.095	Apartments at south corner of Lake and 18th
121-G01	749804.975	4279735.624	Apartments at west corner Lake and 18th
121-G02	749825.588	4279758.493	Apartments at west corner Lake and 18th
121-G03	749822.278	4279717.191	Apartments at west corner Lake and 18th
121-G04	749845.1	4279736.991	Apartments at west corner Lake and 18th
121-G05	749806.6099	4279720.474	Apartments at west corner Lake and 18th

Table 2-1
Description of Soil Sampling Locations for Site 121
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
121-H01	749700.02	4279806.494	Charles Canady Elementary School (15th & Lake)
121-H02	749733.175	4279840.168	Charles Canady Elementary School (15th & Lake)
121-H03	749749.934	4279751.615	Charles Canady Elementary School (15th & Lake)
121-H04	749801.83	4279775.541	Charles Canady Elementary School (15th & Lake)
121-H05	749761.3094	4279820.508	Charles Canady Elementary School (15th & Lake)
121-I01	749757.226	4279869.194	Park at east corner of 15th and Lake
121-I02	749783.842	4279892.243	Park at east corner of 15th and Lake
121-I03	749813.623	4279925.175	Park at east corner of 15th and Lake
121-I04	749782.476	4279846.231	Park at east corner of 15th and Lake
121-I05	749818.97	4279875.376	Park at east corner of 15th and Lake
121-I06	749841.454	4279906.333	Park at east corner of 15th and Lake
121-I07	749813.142	4279819.124	Park at east corner of 15th and Lake
121-I08	749848.574	4279850.311	Park at east corner of 15th and Lake
121-I09	749859.336	4279869.112	Park at east corner of 15th and Lake
121-I10	749800.7724	4279833.02	Park at east corner of 15th and Lake
121-I11	749820.8421	4279812.712	Park at east corner of 15th and Lake
121-J01	749541.564	4279869.646	Property North of Lynch near the corner of 14th and Lynch
121-J02	749562.255	4279877.855	Property North of Lynch near the corner of 14th and Lynch
121-K01	749467.743	4279810.97	1212 N. 14th St.
121-K02	749494.873	4279777.034	1212 N. 14th St.
121-L01	749428.618	4279781.508	East corner of 14th and Winstanley
121-L02	749436.841	4279754.071	East corner of 14th and Winstanley
121-M01	749596.816	4279603.534	1523 Winstanley
121-M02	749624.769	4279630.94	1523 Winstanley

Table 2-1
Description of Soil Sampling Locations for Site 121
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
121-N01	749679.594	4279477.995	East of 18th between Winstanley and Exchange
121-N02	749700.394	4279468.85	East of 18th between Winstanley and Exchange
121-O01	749643.138	4279433.475	1102 N. 18th Street
121-O02	749665.518	4279423.176	1102 N. 18th Street
121-P01	749935.811	4279651.2	South of Lake, just east of 19th
121-P02	749946.055	4279635.416	South of Lake, just east of 19th
121-Q01	749982.197	4279627.849	North corner of Southern Railroad and Lynch
121-Q02	749997.252	4279621.872	North corner of Southern Railroad and Lynch
121-R01	749859.0422	4279770.235	North corner of 18th and Lake
121-S01	749844.0495	4279626.176	Residential property west of 19th between Lake and Lynch
121-S02	749860.7588	4279608.311	Residential property west of 19th between Lake and Lynch
121-T01	749855.065	4279635.722	Residential property west of 19th between Lake and Lynch, north of Property S
121-U01	749942.9065	4279619.449	Residential property east of 19th between Lake and Lynch
121-U02	749919.6774	4279634.931	Residential property east of 19th between Lake and Lynch
121-V01	749473.6134	4279788.701	Vacant lot between Properties K and L
121-V02	749457.4679	4279799.403	Vacant lot between Properties K and L
121-W01	749372.677	4279722.518	Property at South corner of Winstanley and 14th
121-W02	749405.0032	4279752.692	Property at South corner of Winstanley and 14th

Table 2-2
Description of Soil Sampling Locations for Site 136
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
136-A01	747310.976	4278188.421	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A02	747293.914	4278168.027	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A03	747282.837	4278155.712	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A04	747342.839	4278160.572	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A05	747334.834	4278149.345	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A06	747323.92	4278135.766	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A07	747371.08	4278131.406	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A08	747355.434	4278125.635	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A09	747349.337	4278116.601	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A10	747268.0301	4278169.079	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A11	747293.1478	4278190.576	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-A12	747320.3768	4278209.159	303 S. 11th St. (United Iron/ Tenco Metals Co.)
136-B01	747288.441	4278071.257	Vacant lot at west corner of 11th and McCasland
136-B02	747310.162	4278059.436	Vacant lot at west corner of 11th and McCasland
136-B03	747291.8016	4278044.264	Vacant lot at west corner of 11th and McCasland
136-B04	747276.7741	4278059.735	Vacant lot at west corner of 11th and McCasland
136-B05	747257.3708	4278088.631	Vacant lot at west corner of 11th and McCasland
136-B06	747261.7892	4278113.89	Vacant lot at west corner of 11th and McCasland
136-C01	747252.41	4278036.009	1021 Bond
136-C02	747260.748	4278050.66	1021 Bond
136-D01	747325.774	4278005.101	Public Housing (North of Bond between 11th/12th)
136-D02	747346.695	4278026.398	Public Housing (North of Bond between 11th/12th)
136-D03	747359.15	4278046.153	Public Housing (North of Bond between 11th/12th)
136-D04	747357.919	4277982.148	Public Housing (North of Bond between 11th/12th)
136-D05	747359.474	4278007.861	Public Housing (North of Bond between 11th/12th)
136-D06	747398.25	4278012.006	Public Housing (North of Bond between 11th/12th)
136-D07	747403.206	4277910.981	Public Housing (North of Bond between 11th/12th)
136-D08	747419.896	4277954.668	Public Housing (North of Bond between 11th/12th)
136-D09	747446.775	4277962.533	Public Housing (North of Bond between 11th/12th)
136-D10	747308.2316	4278018.276	Public Housing (North of Bond between 11th/12th)
136-D11	747325.853	4278037.834	Public Housing (North of Bond between 11th/12th)
136-D12	747347.6297	4278057.662	Public Housing (North of Bond between 11th/12th)
136-D13	747360.7419	4278081.663	Public Housing (North of Bond between 11th/12th)

Table 2-2
Description of Soil Sampling Locations for Site 136
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
136-E01	747417.768	4277867.174	Lincoln Middle School (1201 Bond St.)
136-E02	747443.596	4277833.366	Lincoln Middle School (1201 Bond St.)
136-E03	747492.055	4277794.51	Lincoln Middle School (1201 Bond St.)
136-E04	747525.372	4277755.989	Lincoln Middle School (1201 Bond St.)
136-E05	747586.631	4277739.605	Lincoln Middle School (1201 Bond St.)
136-E06	747597.792	4277725.962	Lincoln Middle School (1201 Bond St.)
136-E07	747627.044	4277748.955	Lincoln Middle School (1201 Bond St.)
136-E08	747648.807	4277733.809	Lincoln Middle School (1201 Bond St.)
136-E09	747478.988	4277861.924	Lincoln Middle School (1201 Bond St.)
136-E10	747496.36	4277836.979	Lincoln Middle School (1201 Bond St.)
136-F01	747532.093	4277920.325	1235 McCasland Blvd (Community Center- John Deshields Homes)
136-F02	747542.38	4277914.893	1235 McCasland Blvd (Community Center- John Deshields Homes)
136-G01	747227.43	4278137.582	Property at south corner of 10th and McCasland
136-G02	747235.035	4278120.168	Property at south corner of 10th and McCasland
136-G03	747213.7076	4278125.92	Property at south corner of 10th and McCasland
136-G04	747224.9835	4278114.991	Property at south corner of 10th and McCasland
136-H01	747207.683	4278037.827	1016 Bond
136-H02	747180.132	4278022.788	1016 Bond
136-H03	747210.89	4278026.635	1018 Bond
136-H04	747196.631	4278012.611	1018 Bond
136-I01	747405.063	4278094.071	Former feed/fertilizer warehouse property North of Public Housing (property D)
136-I02	747452.946	4278058.258	Former feed/fertilizer warehouse property North of Public Housing (property D)
136-J01	747412.407	4278305.443	Central portion of block bounded by 10th/11th and Brady/Southern Railroad
136-J02	747438.082	4278282.369	Central portion of block bounded by 10th/11th and Brady/Southern Railroad
136-K01	747578.66	4278396.413	Former junkyard; South corner of 10th and Broadway
136-L01	747600.125	4278369.722	Former Hughes-Quinn JHS immediately east of K1 property
136-M01	747632.906	4278350.044	Block bounded by 11th/12th (both vacated) and Walnut/Broadway
136-M02	747663.247	4278328.996	Block bounded by 11th/12th (both vacated) and Walnut/Broadway

Table 2-3
Description of Soil Sampling Locations for Site 141
Mississippi River Gateway Initiative
East St. Louis, *Illinois*

Sampling Location ID	Easting	Northing	Location Description
141-A01	747820.836	4278694.024	206 N. 10th St. (Kim's Kids Daycare) (Formerly Reese Sheet Metal)
141-A02	747805.632	4278714.557	206 N. 10th St. (Kim's Kids Daycare) (Formerly Reese Sheet Metal)
141-B01	747837.233	4278785.963	Grassy area north corner of 10th and Gaty
141-C01	747861.488	4278739.817	1007 Gaty
141-C02	747884.903	4278761.34	1007 Gaty
141-D01	747868.192	4278669.017	Property on south side of Gaty Avenue between 10th and 12th
141-D02	747879.081	4278689.006	Property on south side of Gaty Avenue between 10th and 12th
141-E01	747955.537	4278582.839	1124 Gaty
141-E02	747971.224	4278597.322	1124 Gaty
141-F01	747922.987	4278750.346	1016 St. Louis
141-F02	747941.217	4278774.638	1016 St. Louis
141-G01	747706.555	4278529.426	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)
141-G02	747727.666	4278575.719	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)
141-H01	747796.916	4278551.58	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)
141-H02	747776.932	4278518.044	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)
141-H03	747751.833	4278470.275	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)
141-H04	747881.464	4278470.626	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)
141-H05	747850.691	4278438.299	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)
141-H06	747812.124	4278402.231	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)
141-H07	748000.589	4278340.871	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)
141-H08	747968.228	4278309.473	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)
141-H09	747903.271	4278341.384	Public Housing and Helen Davis Center (South of Missouri between 10th/13th)

Table 2-3
Description of Soil Sampling Locations for Site 141
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	*Location Description*
141-I01	747931.414	4278829.559	Area north of St. Louis between 10th and 11th
141-I02	747945.259	4278817.982	Area north of St. Louis between 10th and 11th
141-I03	747975.308	4278785.802	Area north of St. Louis between 10th and 11th
141-I04	747959.354	4278868.781	Area north of St. Louis between 10th and 11th
141-I05	747980.012	4278847.02	Area north of St. Louis between 10th and 11th
141-I06	747989.545	4278802.638	Area north of St. Louis between 10th and 11th
141-I07	747991.563	4278865.912	Area north of St. Louis between 10th and 11th
141-I08	748010.585	4278845.182	Area north of St. Louis between 10th and 11th
141-I09	748024.402	4278832.361	Area north of St. Louis between 10th and 11th
141-J01	748092.123	4278759.657	Vacant lot between 11th/12th and Cleveland/ St. Louis
141-J02	748074.507	4278744.187	Vacant lot between 11th/12th and Cleveland/ St. Louis
141-K01	748148.775	4278707.367	Property southeast of Property J
141-K02	748138.401	4278698.624	Property southeast of Property J
141-K03	748120.799	4278732.157	1126 Cleveland
141-K04	748106.566	4278717.07	1126 Cleveland
141-L01	748019.449	4278534.707	South of Gaty between 12th and 13th
141-L02	748036.298	4278517.8	South of Gaty between 12th and 13th
141-M01	747893.2572	4278635.209	Vacant lot on Gaty between 10th and 12th
141-M02	747912.1159	4278651.808	Vacant lot on Gaty between 10th and 12th
141-N01	747986.2422	4278549.143	South corner of Gaty and 12th
141-N02	747991.8292	4278569.394	South corner of Gaty and 12th
141-O01	748052.0234	4278480.699	South of Gaty between 12th and 13th
141-O02	748071.4762	4278496.122	South of Gaty between 12th and 13th
141-P01	747938.5895	4278555.255	North corner of 12th and Missouri
141-P02	747966.5071	4278529.701	North corner of 12th and Missouri
141-Q01	747923.9018	4278723.906	North of Gaty between 10th and 12th
141-Q02	747906.8068	4278707.305	North of Gaty between 10th and 12th
141-R01	748023.5928	4278621.174	North of Gaty immediately west of 12th
141-R02	748004.2775	4278602.011	North of Gaty immediately west of 12th

Table 2-3
Description of Soil Sampling Locations for Site 141
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
141-S01	748026.39	4278643.941	South of St. Louis, north of Property R
141-S02	748047.5961	4278663.624	South of St. Louis, north of Property R
141-T01	748056.4222	4278761.986	Residential property near SE corner of 11th and Cleveland
141-T02	748080.3146	4278788.114	Residential property near SE corner of 11th and Cleveland
141-U01	748163.7098	4278663.284	Residential property near SE corner of 12th and Cleveland
141-U02	748170.839	4278688.357	Residential property near SE corner of 12th and Cleveland
141-V01	748203.5445	4278579.824	North of St. Louis between 12th and 13th
141-V02	748190.4015	4278564.214	North of St. Louis between 12th and 13th
141-W01	748067.2967	4278576.442	East corner of 12th and Gaty
141-W02	748050.7594	4278558.217	East corner of 12th and Gaty
141-X01	748058.3571	4278609.734	West corner of 12th and St. Louis
141-X02	748077.49	4278628.349	West corner of 12th and St. Louis
141-Y01	748251.278	4278638.769	1225 Cleveland
141-Y02	748273.493	4278656.008	1225 Cleveland
141-Z01	748288.932	4278599.205	1237 Cleveland
141-Z02	748302.348	4278625.224	1237 Cleveland
141-AA01	748175.092	4278393.873	1304 Gaty
141-AA02	748155.774	4278369.494	1304 Gaty
141-AA03	748171.743	4278371.018	1304 Gaty
141-AB01	748264.493	4278447.526	1312 St. Louis
141-AB02	748249.62	4278418.745	1312 St. Louis
141-AC01	748293.051	4278455.943	1315/1317 St. Louis
141-AC02	748315.575	4278472.556	1315/1317 St. Louis
141-AD01	748378.36	4278509.019	1321 Cleveland
141-AD02	748403.67	4278529.897	1321 Cleveland
141-AE01	748349.127	4278506.685	1318 Cleveland
141-AE02	748331.168	4278488.742	1318 Cleveland

Table 2-4
Description of Soil Sampling Locations for Site 143
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
143-A01	748842.38	4278630.419	1502 State Street
143-A02	748846.07	4278629.035	1502 State Street
143-A03	748849.298	4278627.652	1502 State Street
143-A04	748846.531	4278622.117	1502 State Street (Bauer Sheet Metal Works)
143-A05	748843.303	4278623.501	1502 State Street
143-A06	748840.074	4278624.884	1502 State Street
143-A07	748838.691	4278620.272	1502 State Street
143-A08	748841.919	4278618.428	1502 State Street
143-A09	748845.148	4278616.583	1502 State Street
143-A10	748842.842	4278611.51	1502 State Street
143-A11	748839.613	4278612.432	1502 State Street
143-A12	748835.924	4278614.277	1502 State Street
143-A13	748834.54	4278609.204	1502 State Street
143-A14	748837.768	4278607.82	1502 State Street
143-A15	748841.458	4278605.978	1502 State Street
143-A16	748839.152	4278599.98	1502 State Street
143-A17	748836.385	4278602.286	1502 State Street
143-A18	748832.234	4278603.669	1502 State Street
143-B01	748788.914	4278698.081	Dilapidated apartment building north of State between Washington and 15th
143-B02	748807.799	4278696.783	Dilapidated apartment building north of State between Washington and 15th
143-C01	748816.127	4278722.177	Property on south side of Belmont between Washington and 15th
143-C02	748830.317	4278740.873	Property on south side of Belmont between Washington and 15th
143-D01	748777.537	4278729.604	518 Washington (Community Child Care Center)
143-D02	748784.328	4278751.784	518 Washington (Community Child Care Center)
143-E01	748861.789	4278691.98	Vacant lot at SE corner of Belmont and 15th
143-E02	748872.394	4278722.501	Vacant lot at SE corner of Belmont and 15th

Table 2-4
Description of Soil Sampling Locations for Site 143
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
143-F01	748964.893	4278765.314	Property on south side of Ohio between 15th and 16th
143-F02	748974.21	4278787.839	Property on south side of Ohio between 15th and 16th
143-G01	748710.111	4278461.538	Outdoor playground at daycare behind St. Joseph's Head Start Center
143-G02	748730.1	4278452.093	Outdoor playground at daycare behind St. Joseph's Head Start Center
143-H01	748670.858	4278581.073	Vacant lot on east side of Columbia between State and Henrietta
143-H02	748687.957	4278571.839	Vacant lot on east side of Columbia between State and Henrietta
143-I01	748816.252	4278580.524	1517 Hall
143-I02	748805.669	4278553.316	1517 Hall
143-J01	748829.481	4278517.615	1520 Hall
143-J02	748817.879	4278496.354	1520 Hall
143-K01	748925.013	4278533.516	Property on north side of Hall between 16th and 17th
143-K02	748912.73	4278507.193	Property on north side of Hall between 16th and 17th
143-L01	748959.321	4278516.667	1617 Hall
143-L02	748946.531	4278488.662	1617 Hall
143-M01	748909.9826	4278788.001	Vacant lot at SE corner of 15th and Ohio
143-M02	748918.9317	4278812.263	Vacant lot at SE corner of 15th and Ohio
143-N01	748837.9671	4278710.478	Vacant lot at SW corner of 15th and Belmont
143-N02	748845.3788	4278724.734	Vacant lot at SW corner of 15th and Belmont
143-O01	748926.6376	4278745.981	Vacant lot on north side of Belmont between 15th/16th
143-O02	748929.9831	4278729.321	Vacant lot on north side of Belmont between 15th/16th
143-P01	748866.4325	4278551.086	NW corner of 15th and Hall
143-P02	748859.3016	4278532.473	NW corner of 15th and Hall

Table 2-4
Description of Soil Sampling Locations for Site 143
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
143-Q01	748761.5654	4278567.428	North side of Hall between 16th and Columbia (grass strip along back fence to health care facility)
143-Q02	748784.9156	4278558.238	North side of Hall between 16th and Columbia (grass strip along back fence to health care facility)
143-R01	748698.465	4278507.931	Vacant lot on north side of Henrietta between 16th and Columbia
143-R02	748693.0475	4278491.664	Vacant lot on north side of Henrietta between 16th and Columbia
143-S01	748736.1	4278469.391	Residential property on north side of Henrietta between 16th and Columbia, east of Property R
143-S02	748746.9377	4278494.378	Residential property on north side of Henrietta between 16th and Columbia, east of Property R
143-T01	748815.95	4278469.414	Vacant lot at NW corner of 16th and Henrietta
143-T02	748806.0442	4278444.271	Vacant lot at NW corner of 16th and Henrietta
143-U01	748868.3411	4278440.303	Vacant lot at NE corner of 16th and Henrietta
143-U02	748859.6066	4278423.526	Vacant lot at NE corner of 16th and Henrietta
143-V01	748756.0842	4278521.192	Park-like area on south side of Hall between 16th and Columbia (near trees)
143-V02	748757.5086	4278545.81	Park-like area on south side of Hall between 16th and Columbia (under swing set)
143-W01	748904.1586	4278458.52	South side of Hall across from Properties K and L
143-W02	748916.9725	4278489.34	South side of Hall across from Properties K and L
143-X01	749061.511	4278755.207	South side of Ohio between 16th and 17th
143-X02	749044.632	4278727.986	South side of Ohio between 16th and 17th
143-Y01	749121.038	4278863.021	1611/1613 College
143-Y02	749126.949	4278893.504	1611/1613 College
143-Z01	749265.502	4278690.659	1739 Ohio
143-Z02	749273.724	4278685.775	1739 Ohio
143-AA01	749220.91	4278824.018	1717 College

Table 2-4
Description of Soil Sampling Locations for Site 143
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
143-AA02	749225.282	4278843.714	1717 College
143-AB01	749132.155	4278427.263	582 Alexander
143-AB02	749162.573	4278413.402	582 Alexander
143-AC01	749095.981	4278338.51	558 Alexander
143-AC02	749124.101	4278324.721	558 Alexander

Table 2-5
Description of Soil Sampling Locations for Site 145
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
145-A01	746517.089	4278661.779	301 S. Main (Fresh Warehousing)
145-A02	746568.191	4278619.134	301 S. Main (Fresh Warehousing)
145-B01	746537.081	4278595.875	Vacant lot southwest of Fresh Warehousing
145-B02	746511.203	4278628.296	Vacant lot southwest of Fresh Warehousing
145-B03	746470.609	4278536.113	Vacant lot southwest of Fresh Warehousing
145-B04	746485.635	4278609.923	Vacant lot southwest of Fresh Warehousing
145-C01	746595.2616	4278581.243	Apartments at west corner of 4th and Market
145-C02	746605.46	4278560.494	Apartments at west corner of 4th and Market
145-D01	746617.314	4278577.296	North corner of 4th and Market
145-D02	746632.433	4278587.002	North corner of 4th and Market
145-D03	746624.2044	4278582.718	North corner of 4th and Market
145-E01	746575.203	4278483.921	Garden area northeast of residence at 115 S. 4th St.
145-E02	746614.69	4278520.802	Garden area northeast of residence at 115 S. 4th St.
145-E03	746598.6341	4278502.283	Garden area northeast of residence at 115 S. 4th St.
145-E04	746628.2576	4278535.1	Garden area northeast of residence at 115 S. 4th St.
145-E05	746636.0452	4278491.215	Vacant lot southeast of residence at 115 S. 4th St.
145-E06	746650.5412	4278512.581	Vacant lot southeast of residence at 115 S. 4th St.
145-E07	746621.8736	4278465.405	Vacant lot southeast of residence at 115 S. 4th St.
145-E08	746664.0817	4278471.48	Vacant lot southeast of residence at 115 S. 4th St.

Table 2-5
Description of Soil Sampling Locations for Site 145
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
145-F01	746442.891	4278528.645	Area south of Trendley between Illinois Central Railroad and GM & O Railroad (former roundhouse facility)
145-F02	746392.384	4278518.102	Area south of Trendley between Illinois Central Railroad and GM & O Railroad (former roundhouse facility)
145-F03	746440.489	4278507.295	Area south of Trendley between Illinois Central Railroad and GM & O Railroad (former roundhouse facility)
145-F04	746333.905	4278444.843	Area south of Trendley between Illinois Central Railroad and GM & O Railroad (former roundhouse facility)
145-F05	746376.344	4278401.608	Area south of Trendley between Illinois Central Railroad and GM & O Railroad (former roundhouse facility)
145-F06	746429	4278445.458	Area south of Trendley between Illinois Central Railroad and GM & O Railroad (former roundhouse facility)
145-F07	746289.931	4278359.51	Area south of Trendley between Illinois Central Railroad and GM & O Railroad (former roundhouse facility)
145-F08	746383.804	4278370.488	Area south of Trendley between Illinois Central Railroad and GM & O Railroad (former roundhouse facility)
145-F09	746428.943	4278390.789	Area south of Trendley between Illinois Central Railroad and GM & O Railroad (former roundhouse facility)
145-G01	746671.3937	4278623.073	Vacant lot south of Bond between 4th and Main
145-G02	746649.5746	4278648.916	Vacant lot south of Bond between 4th and Main
145-H01	746554.6878	4278510.339	Vacant lot north of Trendley between 4th and Main
145-H02	746532.6702	4278543.854	Vacant lot north of Trendley between 4th and Main

Table 2-6
Description of Soil Sampling Locations for Site 155
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
155-A01	749773.454	4278262.458	2105 State St. (Club Rendezous) (Formerly Flannery & Sons Inc.)
155-A02	749714.882	4278287.48	2105 State St. (Club Rendezous) (Formerly Flannery & Sons Inc.)
155-A03	749803.735	4278333.814	2105 State St. (Club Rendezous) (Formerly Flannery & Sons Inc.)
155-A04	749777.174	4278343.172	2105 State St. (Club Rendezous) (Formerly Flannery & Sons Inc.)
155-A05	749746.892	4278354.897	2105 State St. (Club Rendezous) (Formerly Flannery & Sons Inc.)
155-A06	749819.744	4278370.807	2105 State St. (Club Rendezous) (Formerly Flannery & Sons Inc.)
155-A07	749790.118	4278382.684	2105 State St. (Club Rendezous) (Formerly Flannery & Sons Inc.)
155-A08	749763.694	4278391.817	2105 State St. (Club Rendezous) (Formerly Flannery & Sons Inc.)
155-A09	749821.171	4278418.774	2105 State St. (Club Rendezous) (Formerly Flannery & Sons Inc.)
155-B01	749826.537	4278459.046	Vacant lot at NE of corner of 21st and Ohio
155-B02	749847.081	4278450.362	Vacant lot at NE of corner of 21st and Ohio
155-B03	749831.919	4278456.077	Vacant lot at NE of corner of 21st and Ohio
155-B04	749855.7718	4278464.375	Vacant lot at NE of corner of 21st and Ohio
155-C01	749840.232	4278495.007	Residence along east side of 21st north of Ohio
155-C02	749861.283	4278487.111	Residence along east side of 21st north of Ohio
155-D01	749858.335	4278413.529	647 N. 22nd Street
155-D02	749881.698	4278401.113	647 N. 22nd Street
155-E01	749838.338	4278365.106	511 N. 22nd Street
155-E02	749863.946	4278358.262	511 N. 22nd Street

Table 2-6
Description of Soil Sampling Locations for Site 155
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
155-F01	749789.448	4278198.624	2118 State St. (Cann Electric Co.)
155-F02	749790.332	4278182.573	2118 State St. (Cann Electric Co.)
155-F03	749779.422	4278201.824	2114 State Street
155-F04	749728.604	4278200.462	Vacant land west of 2114 State street
155-G01	749870.773	4278217.552	Residential property on north side of State between 22nd/23rd
155-G02	749883.964	4278239.319	Residential property on north side of State between 22nd/23rd
155-H01	749801.854	4278138.007	576 N. 22nd St.
155-H02	749824.021	4278127.093	576 N. 22nd St.
155-I01	749814.591	4278023.626	561 N. 23rd St. (Vacant lot- Henrietta & 23rd (NW corner))
155-I02	749830.089	4278010.561	561 N. 23rd St. (Vacant lot- Henrietta & 23rd (NW corner))
155-J01	749686.279	4277987.585	Property west of 22nd and south of Henrietta
155-J02	749705.458	4277978.758	Property west of 22nd and south of Henrietta
155-K01	749807.4303	4278302.058	Vacant lot west of 22nd and north of State
155-K02	749826.8296	4278290.67	Vacant lot west of 22nd and north of State
155-L01	749831.2924	4278349.395	Vacant lot west of 22nd, north of Property K
155-L02	749852.9518	4278332.859	Vacant lot west of 22nd, north of Property K
155-M01	749883.3441	4278470.45	West of 22nd, north of Ohio
155-M02	749906.8878	4278460.881	West of 22nd, north of Ohio
155-N01	749896.6627	4278505.607	West of 22nd, north of Property P
155-N02	749922.4108	4278495.821	West of 22nd, north of Property P
155-O01	749984.931	4278341.364	640 N. 23rd Street
155-O02	750018.251	4278330.198	640 N. 23rd Street
155-P01	749911.203	4278468.927	711 22nd Street
155-P02	749885.458	4278473.172	711 22nd Street
155-Q01	750057.964	4278507.95	734 23rd Street
155-Q02	750090.537	4278505.222	734 23rd Street

Table 2-6
Description of Soil Sampling Locations for Site 155
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
155-R01	750127.312	4278417.761	720 24th Street
155-R02	750153.567	4278400.884	720 24th Street
155-S01	750025.716	4278693.638	822 22nd Street
155-S02	750049.648	4278689.339	822 22nd Street
155-T01	750143.186	4278712.715	838 23rd St. (New Beginnings Preschool)
155-T02	750139.38	4278707.571	838 23rd St. (New Beginnings Preschool)
155-T03	750144.937	4278714.419	838 23rd St. (New Beginnings Preschool)
155-T04	750160.272	4278708.502	838 23rd St. (New Beginnings Preschool)
155-T05	750165.663	4278697.383	838 23rd St. (New Beginnings Preschool)
155-U01	750197.889	4278584.782	812 24th Street
155-U02	750224.607	4278572.942	812 24th Street
155-V01	750062.265	4278261.688	628 N. 24th (Mrs. Cooper's Daycare)
155-V02	750085.415	4278252.977	628 N. 24th (Mrs. Cooper's Daycare)
155-V03	750093.417	4278250.042	628 N. 24th (Mrs. Cooper's Daycare)
155-W01	749890.142	4278085.692	572 23rd Street
155-W02	749916.121	4278069.323	572 23rd Street
155-X01	749992.829	4278038.966	572 N. 24th Street
155-X02	750020.458	4278020.423	572 N. 24th Street

Table 2-7
Description of Soil Sampling Locations for Site 157
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
157-A01	746731.574	4277923.73	910 Valentine Street (Republic Iron & Steel Works)
157-A02	746756.202	4277898.82	910 Valentine Street (Republic Iron & Steel Works)
157-A03	746740.42	4277872.479	910 Valentine Street (Republic Iron & Steel Works)
157-A04	746788.918	4277864.419	910 Valentine Street (Republic Iron & Steel Works)
157-A05	746754.212	4277829.944	910 Valentine Street (Republic Iron & Steel Works)
157-A06	746795.648	4277841.686	910 Valentine Street (Republic Iron & Steel Works)
157-B01	746778.896	4277901.07	Residential property on north side of Valentine, north of site 157
157-B02	746797.969	4277911.244	Residential property on north side of Valentine, north of site 157
157-C01	746810.747	4277873.379	Residence on north side of Valentine, SE of Property B
157-C02	746822.15	4277885.591	Residence on north side of Valentine, SE of Property B
157-D01	746809.832	4277804.431	Church at intersection of Falling Spring and Valentine
157-D02	746823.29	4277779.721	Church at intersection of Falling Spring and Valentine
157-D03	746801.1152	4277776.913	Church at intersection of Baker and 10th
157-D04	746800.8352	4277755.168	Church at intersection of Baker and 10th

Table 2-7
Description of Soil Sampling Locations for Site 157
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
157-E01	746851.403	4277840.472	721 S. 10th Street
157-E02	746862.416	4277821.209	721 S. 10th Street
157-E03	746879.5164	4277840.083	721 S. 10th Street
157-F01	746878.642	4277945.307	912 Piggott
157-F02	746894.928	4277954.101	912 Piggott
157-G01	746948.426	4277713.857	1026 Tudor
157-G02	746961.9028	4277742.007	1026 Tudor
157-G03	746960.4803	4277708.523	1026 Tudor
157-G04	746976.3149	4277725.27	1026 Tudor
157-H01	746918.633	4277623.898	Property at west corner of 11th and Baker
157-H02	746930.163	4277642.433	Property at west corner of 11th and Baker
157-I01	746924.7983	4277775.635	Vacant lot along south side of Tudor between 10th and 11th
157-I02	746910.1705	4277760.924	Vacant lot along south side of Tudor between 10th and 11th
157-J01	746847.1257	4277869.807	Residential property on north side of Valentine between Properties C and E
157-J02	746828.7662	4277854.286	Residential property on north side of Valentine between Properties C and E

Table 2-8
Description of Soil Sampling Locations for Site 158
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
158-A01	749621.044	4278213.155	574 N. 20th St. (Flannery Concrete)
158-A02	749626.069	4278226.736	574 N. 20th St. (Flannery Concrete)
158-A03	749628.485	4278239.486	574 N. 20th St. (Flannery Concrete)
158-A04	749616.755	4278243.933	574 N. 20th St. (Flannery Concrete)
158-A05	749611.079	4278233.288	574 N. 20th St. (Flannery Concrete)
158-A06	749605.749	4278220.145	574 N. 20th St. (Flannery Concrete)
158-A07	749593.419	4278224.225	574 N. 20th St. (Flannery Concrete)
158-A08	749597.692	4278237.262	574 N. 20th St. (Flannery Concrete)
158-A09	749602.416	4278249.257	574 N. 20th St. (Flannery Concrete)
158-A10	749589.756	4278256.756	574 N. 20th St. (Flannery Concrete)
158-A11	749583.378	4278243.827	574 N. 20th St. (Flannery Concrete)
158-A12	749577.688	4278230.946	574 N. 20th St. (Flannery Concrete)
158-A13	749565.006	4278237.184	574 N. 20th St. (Flannery Concrete)
158-A14	749568.283	4278248.313	574 N. 20th St. (Flannery Concrete)
158-A15	749573.932	4278262.235	574 N. 20th St. (Flannery Concrete)
158-A16	749549.459	4278220.908	574 N. 20th St. (Flannery Concrete)
158-A17	749545.036	4278213.642	574 N. 20th St. (Flannery Concrete)
158-A18	749593.607	4278208.417	574 N. 20th St. (Flannery Concrete)
158-B01	749563.912	4277942.761	Vacant property (former railway yard) east of site between railroad and residential properties along 22nd
158-B02	749581.742	4277935.449	Vacant property (former railway yard) east of site between railroad and residential properties along 22nd
158-B03	749577.734	4277971.777	Vacant property (former railway yard) east of site between railroad and residential properties along 22nd
158-B04	749594.562	4277963.03	Vacant property (former railway yard) east of site between railroad and residential properties along 22nd
158-B05	749598.404	4278025.741	Vacant property (former railway yard) east of site between railroad and residential properties along 22nd
158-B06	749615.297	4278018.679	Vacant property (former railway yard) east of site between railroad and residential properties along 22nd

Table 2-8
Description of Soil Sampling Locations for Site 158
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
158-B07	749633.516	4278111.749	Vacant property (former railway yard) east of site between railroad and residential properties along 22nd
158-B08	749659.747	4278111.861	Vacant property (former railway yard) east of site between railroad and residential properties along 22nd
158-B09	749668.517	4278150.095	Vacant property (former railway yard) east of site between railroad and residential properties along 22nd
158-B10	749681.0538	4278199.139	Vacant property (former railway yard) east of site between railroad and residential properties along 22nd
158-C01	749750.369	4278160.738	577 N. 22nd Street
158-C02	749780.855	4278147.665	577 N. 22nd Street
158-D01	749701.565	4278033.16	545 N. 22nd Street
158-D02	749725.49	4278022.969	545 N. 22nd Street
158-E01	749650.721	4277905.862	631 N. 22nd Street
158-E02	749673.093	4277896.347	631 N. 22nd Street
158-F01	749373.052	4278205.097	548 Wimmer Rd.
158-F02	749391.899	4278194.923	548 Wimmer Rd.
158-G01	749709.4043	4278078.711	Residential property near NW corner of 22nd and Henrietta
158-G02	749743.5784	4278064.914	Residential property near NW corner of 22nd and Henrietta
158-H01	749727.0753	4278093.581	Residential property on west side of 22nd, North of Property G
158-H02	749751.4613	4278084.881	Residential property on west side of 22nd, North of Property G
158-I01	749715.6311	4278061.863	NW corner of 22nd and Henrietta
158-I02	749737.9349	4278049.591	NW corner of 22nd and Henrietta

Table 2-9
Description of Soil Sampling Locations for Site 160
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
160-A01	749239.745	4278042.962	1901/1903 Ridge (East St. Louis Awning)
160-A02	749199.573	4278057.084	1901/1903 Ridge (East St. Louis Awning)
160-B01	749248.603	4278074.797	Immediately west of abandoned industrial facility at NW corner of Wimmer and Ridge
160-B02	749264.568	4278104.741	Immediately west of abandoned industrial facility at NW corner of Wimmer and Ridge
160-B03	749283.006	4278106.164	Immediately west of abandoned industrial facility at NW corner of Wimmer and Ridge
160-B04	749298.14	4278096.184	Immediately west of abandoned industrial facility at NW corner of Wimmer and Ridge
160-C01	749307.042	4278027.788	Near foundation retaining wall on vacant property at NE corner of Wimmer and Ridge
160-C02	749316.875	4278051.915	Near foundation retaining wall on vacant property at NE corner of Wimmer and Ridge
160-D01	749105.347	4277982.035	415 Gray
160-D02	749133.11	4277972.798	415 Gray
160-E01	749210.242	4278086.862	Abandoned apartment immediately north of East St. Louis Awing Company
160-E02	749236.413	4278076.604	Abandoned apartment immediately north of East St. Louis Awing Company
160-F01	749227.164	4278121.427	Second abandoned apartment north of East St. Louis Awing Company
160-F02	749249.817	4278115.539	Second abandoned apartment north of East St. Louis Awing Company
160-G01	749332.31	4278311.675	Residence on east side of Gray, north of property 160-A
160-G02	749309.754	4278319.349	Residence on east side of Gray, north of property 160-A

Table 2-9
Description of Soil Sampling Locations for Site 160
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
160-H01	749331.526	4278113.535	East side of Wimmer, near mid-block
160-H02	749346.936	4278149.473	East side of Wimmer, near mid-block
160-I01	749364.915	4278326.407	585 Wimmer St. (Vacant lot on west side of Wimmer St.)
160-I02	749383.166	4278317.536	585 Wimmer St. (Vacant lot on west side of Wimmer St.)
160-J01	749239.442	4278343.351	560 18th Street
160-J02	749211.823	4278353.178	560 18th Street
160-K01	749183.437	4278020.043	432 Gray
160-K02	749194.045	4278004.508	432 Gray
160-L01	749138.097	4277886.898	400 Gray
160-L02	749161.158	4277873.768	400 Gray
160-M01	749145.131	4278056.32	Residence on south side of Ridge between Gray and 18th
160-M02	749160.533	4278035.856	Residence on south side of Ridge between Gray and 18th
160-N01	749143.065	4278075.069	Residence on north side of Ridge between Gray and 18th
160-N02	749159.654	4278067.983	Residence on north side of Ridge between Gray and 18th
160-O01	749076.525	4278035.6	416 18th Street
160-O02	749106.385	4278026.511	416 18th Street
160-P01	749066.975	4278128.777	Property on NW corner of 18th and Ridge
160-P02	749073.584	4278107.001	Property on NW corner of 18th and Ridge
160-P03	749057.7584	4278113.122	Property on NW corner of 18th and Ridge
160-P04	749089.149	4278122.936	Property on NW corner of 18th and Ridge
160-Q01	749017.749	4278080.779	1760 Ridge
160-Q02	749030.421	4278101.609	1760 Ridge

Table 2-9
Description of Soil Sampling Locations for Site 160
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
160-R01	749107.314	4278240.546	533 18th Street
160-R02	749135.202	4278227.198	533 18th Street
160-S01	749113.4078	4278050.634	Residence on east side of 18th between King and Ridge
160-S02	749086.0471	4278061.302	Residence on east side of 18th between King and Ridge
160-T01	749027.9686	4278048.88	Residence on west side of 18th between King and Ridge
160-T02	749053.7936	4278042.68	Residence on west side of 18th between King and Ridge
160-U01	749072.0735	4278160.993	Residence on west side of 18th immediately north of Ridge
160-U02	749101.2465	4278150.936	Residence on west side of 18th immediately north of Ridge
160-V01	749129.9733	4278104.489	Residential property on NE corner of 18th and Ridge (north of commercial facility)
160-V02	749110.5964	4278113.663	Residential property on NE corner of 18th and Ridge (north of commercial facility)

Table 2-10
Description of Soil Sampling Locations for Site 173
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
173-A01	746491.159	4277584.872	Darling & Company/ Ethyl Corp (Mississippi & Victory)
173-A02	746529.676	4277598.975	Darling & Company/ Ethyl Corp (Mississippi & Victory)
173-A03	746536.696	4277558.104	Darling & Company/ Ethyl Corp (Mississippi & Victory)
173-A04	746577.212	4277608.798	Darling & Company/ Ethyl Corp (Mississippi & Victory)
173-A05	746571.025	4277549.572	Darling & Company/ Ethyl Corp (Mississippi & Victory)
173-A06	746611.943	4277625.822	Darling & Company/ Ethyl Corp (Mississippi & Victory)
173-A07	746618.602	4277544.266	Darling & Company/ Ethyl Corp (Mississippi & Victory)
173-A08	746663.414	4277602.022	Darling & Company/ Ethyl Corp (Mississippi & Victory)
173-A09	746672.114	4277552.073	Darling & Company/ Ethyl Corp (Mississippi & Victory)
173-B01	746559.42	4277533.126	910 Victory
173-B02	746565.858	4277502.534	910 Victory
173-C01	746580.919	4277528.107	912 Victory
173-C02	746575.515	4277500.661	912 Victory
173-D01	746669.7293	4277508.478	948 Victory
173-D02	746667.74	4277478.566	948 Victory
173-E01	746703.979	4277454.96	1013 Sycamore
173-E02	746713.246	4277433.071	1013 Sycamore
173-F01	746551.977	4277447.687	910 Sycamore
173-F02	746550.072	4277425.771	910 Sycamore
173-G01	746581.744	4277437.627	SW corner of Sycamore and 9th
173-G02	746577.702	4277417.926	SW corner of Sycamore and 9th

Table 2-10
Description of Soil Sampling Locations for Site 173
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
173-H01	746540.8164	4277522.127	Property along south side of Victory west of Property B
173-H02	746515.5865	4277527.576	Property along south side of Victory west of Property B
173-I01	746565.3793	4277461.966	Residence on north side of Sycamore south of Properties B and C
173-I02	746568.6909	4277479.062	Residence on north side of Sycamore south of Properties B and C
173-J01	746506.0696	4277480.579	Vacant lot on NE corner of Mississippi and Sycamore
173-J02	746481.0091	4277488.586	Vacant lot on NE corner of Mississippi and Sycamore
173-K01	746497.8787	4277440.021	Vacant lot on SE corner of Mississippi and Sycamore
173-K02	746472.0148	4277443.07	Vacant lot on SE corner of Mississippi and Sycamore
173-L01	746484.678	4277544.888	900 Victory
173-L02	746484.159	4277528.246	900 Victory
173-M01	746635.145	4277514.587	Vacant lot West of 944 Victory
173-M02	746631.522	4277497.202	Vacant lot West of 944 Victory
173-N01	746685.044	4277503.93	950 Victory
173-N02	746682.837	4277474.986	950 Victory
173-O01	746653.068	4277441.092	1007 Sycamore
173-O02	746660.483	4277463.976	1007 Sycamore
173-P01	746637.745	4277425.203	Vacant house on South side of Sycamore, East of 10th
173-P02	746634.002	4277410.078	Vacant house on South side of Sycamore, East of 10th

Table 2-11
Description of Soil Sampling Locations for Site 178
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
178-A01	749932.837	4277439.021	435 N. 26th Street
178-A02	749944.726	4277430.586	435 N. 26th Street
178-A03	749907.146	4277424.186	435 N. 26th Street
178-A04	749932.224	4277409.589	435 N. 26th Street
178-A05	749909.763	4277425.902	435 N. 26th Street
178-A06	749918.71	4277425.173	435 N. 26th Street
178-A07	749897.339	4277420.706	435 N. 26th Street
178-A08	749903.836	4277419.829	435 N. 26th Street
178-A09	749898.751	4277422.899	435 N. 26th Street
178-A10	749905.779	4277417.476	435 N. 26th Street
178-B01	749961.908	4277475.281	435 N. 26th Street
178-B02	749948.81	4277452.173	435 N. 26th Street
178-C01	749949.625	4277396.22	Residence on west side of 26th between Louisiana and Belleview
178-C02	749980.252	4277392.404	Residence on west side of 26th between Louisiana and Belleview
178-D01	749997.277	4277346.927	421 27th Street
178-D02	750020.672	4277332.587	421 27th Street
178-E01	749842.149	4277280.825	Residence on south side of Louisiana between 25th and 26th
178-E02	749850.45	4277307.425	Residence on south side of Louisiana between 25th and 26th
178-F01	749769.511	4277363.307	401 N. 25th Street
178-F02	749794.679	4277350.57	401 N. 25th Street
178-G01	749809.689	4277539.53	444 24th Street
178-G02	749788.198	4277557.014	444 24th Street
178-H01	749835.055	4277517.974	443 25th Street
178-H02	749858.457	4277506.848	443 25th Street

Table 2-11
Description of Soil Sampling Locations for Site 178
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
178-I01	749924.541	4277326.258	Vacant lot east side of 26th, immediately north of Louisiana
178-I02	749940.749	4277330.67	Vacant lot east side of 26th, immediately north of Louisiana
178-J01	749966.367	4277215.9	Vacant lot at SW corner of Lake and 27th
178-J02	749980.347	4277236.522	Vacant lot at SW corner of Lake and 27th
178-K01	749970.9646	4277345.463	Property near east side of 26th between Belleview and Louisiana
178-K02	749954.9741	4277350.562	Property near east side of 26th between Belleview and Louisiana
178-L01	749965.8685	4277298.821	North side of Louisiana between 26th and 27th
178-L02	749960.6732	4277284.968	North side of Louisiana between 26th and 27th
178-M01	749904.1536	4277410.129	West side of 26th between Belleview and Louisiana
178-M02	749932.689	4277400.701	West side of 26th between Belleview and Louisiana
178-N01	749887.5185	4277371.39	West side of 26the between Property M and Louisiana
178-N02	749915.6766	4277360.666	West side of 26the between Property M and Louisiana
178-O01	749949.3303	4277232.137	Vacant lot at SW corner of Lake and 27th
178-O02	749957.3723	4277248.005	Vacant lot at SW corner of Lake and 27th

Table 2-12
Description of Soil Sampling Locations for Site 185
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
185-A01	747933.693	4276748.846	815 S. 19th St. (Shiloh AME Church)
185-A02	747939.737	4276732.134	815 S. 19th St. (Shiloh AME Church)
185-A03	747912.173	4276736.477	815 S. 19th St. (Shiloh AME Church)
185-A04	747921.358	4276714.696	815 S. 19th St. (Shiloh AME Church)
185-A05	747863.345	4276726.377	815 S. 19th St. (Shiloh AME Church)
185-A06	747894.351	4276709.153	815 S. 19th St. (Shiloh AME Church)
185-B01	747904.945	4276747.239	Apartment adjacent to church parking lot
185-B02	747930.553	4276767.879	Apartment adjacent to church parking lot
185-C01	747846.307	4276746.02	1839 Baker
185-C02	747861.763	4276761.493	1839 Baker
185-D01	747821.1484	4276699.44	Vacant lot opposite of 1839 Baker
185-D02	747834.505	4276720.92	Vacant lot opposite of 1839 Baker
185-D03	747843.7765	4276675.907	Vacant lot southwest corner of Baker and 19th
185-D04	747852.305	4276703.121	Vacant lot southwest corner of Baker and 19th
185-D05	747862.162	4276658.989	Vacant lot southwest corner of Baker and 19th
185-D06	747879.798	4276675.591	Vacant lot southwest corner of Baker and 19th

Table 2-12
Description of Soil Sampling Locations for Site 185
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
185-E01	747831.987	4276562.506	Vacant lot at intersection of Baker and Boismenue
185-E02	747859.885	4276587.647	Vacant lot at intersection of Baker and Boismenue
185-E03	747842.426	4276575.98	Vacant lot at intersection of Baker and Boismenue
185-E04	747845.05	4276603.895	Vacant lot at intersection of Baker and Boismenue
185-F01	747959.753	4276623.419	1917 Baker Ave
185-F02	747975.729	4276642.013	1917 Baker Ave
185-G01	747945.056	4276709.384	Vacant lot between residences on 19th between Tudor/Baker
185-G02	747956.555	4276699.076	Vacant lot between residences on 19th between Tudor/Baker
185-H01	747973.306	4276788.354	Dunbar Elementary School (1900 Tudor)
185-H02	747956.503	4276770.173	Dunbar Elementary School (1900 Tudor)
185-H03	747910.178	4276820.331	Dunbar Elementary School (1900 Tudor)
185-H04	747893.765	4276842.66	Dunbar Elementary School (1900 Tudor)
185-H05	747906.218	4276868.676	Dunbar Elementary School (1900 Tudor)
185-H06	747932.583	4276882.727	Dunbar Elementary School (1900 Tudor)
185-H07	747911.609	4276895.43	Dunbar Elementary School (1900 Tudor)
185-H08	747888.41	4276879.926	Dunbar Elementary School (1900 Tudor)
185-H09	747876.479	4276858.722	Dunbar Elementary School (1900 Tudor)

Table 2-12
Description of Soil Sampling Locations for Site 185
Mississippi River Gateway Initiative
East St. Louis, Illinois
(Continued)

Sampling Location ID	Easting	Northing	Location Description
185-I01	747898.6984	4276763.256	Property on south side of Tudor west of property B
185-I02	747917.7646	4276782.528	Property on south side of Tudor west of property B
185-J01	747855.5751	4276787.121	Property on south side of Tudor west of property I
185-J02	747881.3197	4276813.94	Property on south side of Tudor west of property I
185-K01	747943.171	4276682.459	Residential property at east corner of 19th and Baker
185-K02	747927.6991	4276658.299	Residential property at east corner of 19th and Baker
185-L01	747958.4573	4276657.28	Property on north side of Baker east of Property K
185-L02	747945.8318	4276644.348	Property on north side of Baker east of Property K
185-M01	747856.45	4276841.878	1820 Tudor
185-M02	747834.37	4276824.684	1820 Tudor
185-N01	747804.935	4276892.598	1802 Tudor
185-O01	747758.049	4276835.07	1803 Baker
185-O02	747774.603	4276851.537	1803 Baker
185-P01	747883.819	4276946.109	1806 Piggott
185-P02	747859.753	4276938.315	1806 Piggott

Table 2-13
Description of Soil Sampling Locations for General Area A
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
A-A01	748329.08	4277035.94	Lot East of 1906 McCasland
A-A02	748323.406	4277057.873	1906 McCasland
A-A03	748303.021	4277037.937	1906 McCasland
A-A04	748342.905	4277034.542	1916 McCasland
A-A05	748325.942	4277013.502	1916 McCasland
A-B01	748116.069	4277008.58	1823 Market
A-B02	748130.681	4277027.472	1823 Market
A-C01	748236.303	4276860.005	1922 Market
A-C02	748219.026	4276837.403	1922 Market
A-D01	748027.146	4277212.028	1714 Bond
A-D02	748027.416	4277197.126	1714 Bond
A-E01	748164.444	4277072.659	1820 Bond
A-E02	748148.354	4277050.916	1820 Bond
A-F01	748302.886	4276935.99	1924 Bond
A-F02	748278.771	4276914.663	1924 Bond
A-G01	748121.987	4277292.093	Vacant lot on north side of McCasland mid-block between 17th and 18th
A-G02	748142.015	4277310.019	Vacant lot on north side of McCasland mid-block between 17th and 18th
A-H01	748221.049	4277188.291	1809 McCasland
A-H02	748242.218	4277206.568	1809 McCasland
A-I01	747953.561	4277138.364	Vacant lot across from 1713 Market
A-I02	747940.17	4277118.328	Vacant lot across from 1713 Market
A-I03	747933.833	4277129.734	Vacant lot across from 1713 Market
A-I04	747965.486	4277160.806	1713 Market
A-I05	747977.763	4277187.167	1713 Market

Table 2-14
Description of Soil Sampling Locations for General Area B
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
B-A01	746944.28	4276911.818	1400/1402 14th Street
B-B01	746995.034	4276957.609	Behind residential properties east of 14th, between Lawrence and Central
B-C01	747053.066	4277011.855	Behind residential properties east of 14th, between Central and Gay
B-D01	747161.505	4277144.802	Playground on east corner of 14th and Russell
B-E01	747040.913	4276951.804	Vacant lot between Lawrence and Central near intersection of 14th
B-E02	747024.495	4276935.242	Vacant lot between Lawrence and Central near intersection of 14th
B-F01	747071.321	4276952.252	Vacant lot between Central and Gay near intersection of 14th
B-F02	747085.1223	4276968.671	Vacant lot between Central and Gay near intersection of 14th
B-G01	747279.095	4276761.992	1610 Central
B-G02	747258.125	4276745.247	1610 Central
B-H01	747455.732	4276583.123	1732 Central
B-H02	747439.002	4276562.988	1732 Central
B-I01	747577.017	4276612.67	Vacant lot East of 1733 Gay
B-I02	747592.268	4276626.217	Vacant lot East of 1733 Gay
B-J01	747414.613	4276972.433	Public Housing (North of Russell between 16th/17th)
B-J02	747415.045	4276945.866	Public Housing (North of Russell between 16th/17th)
B-J03	747494.451	4276863.989	Public Housing (North of Russell between 16th/17th)
B-J04	747512.705	4276876.077	Public Housing (North of Russell between 16th/17th)
B-K01	747590.218	4276782.948	Public Housing (North of Russell between 17th/18th)
B-K02	747639.317	4276745.89	Public Housing (North of Russell between 17th/18th)
B-K03	747675.294	4276718.291	Public Housing (North of Russell between 17th/18th)
B-K04	747703.168	4276692.624	Public Housing (North of Russell between 17th/18th)
B-L01	747384.255	4276908.188	Lucas Elementary School (1620 Russell Ave.)
B-L02	747409.422	4276882.726	Lucas Elementary School (1620 Russell Ave.)
B-L03	747432.758	4276856.771	Lucas Elementary School (1620 Russell Ave.)
B-L04	747445.018	4276826.661	Lucas Elementary School (1620 Russell Ave.)
B-M01	747608.733	4277117.201	1605 Tudor
	747630.615	4277137.29	1605 Tudor

Table 2-15
Description of Soil Sampling Locations for General Area C
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
C-A01	748204.384	4278099.596	Public Housing (South of Missouri, west of 15th)
C-A02	748151.345	4278042.602	Public Housing (South of Missouri, west of 15th)
C-A03	748192.108	4278023.379	Public Housing (South of Missouri, west of 15th)
C-A04	748231.193	4278029.274	Public Housing (South of Missouri, west of 15th)
C-B01	748394.23	4278205.517	1463/1465 Gaty
C-B02	748415.196	4278227.063	1463/1465 Gaty
C-C01	748631.86	4277965.547	Vacant lot across from 1634 Gaty
C-C02	748656.25	4277976.517	Vacant lot across from 1634 Gaty
C-D01	748478.765	4277790.381	1640 Cleveland
C-D02	748491.36	4277784.103	1640 Cleveland
C-E01	748616.154	4277796.232	Vacant Lot (1710 Missouri)
C-E02	748594.345	4277776.169	Vacant Lot (1710 Missouri)
C-F01	748755.605	4277656.027	1808 Missouri
C-F02	748727.262	4277641.693	1808 Missouri
C-G01	748736.388	4277857.424	1723 Gaty
C-G02	748739.019	4277853.428	1723 Gaty
C-G03	748731.836	4277872.724	Side yard of 1723 Gaty
C-H01	748896.006	4277664.99	1832 Gaty
C-H02	748875.423	4277654.718	1832 Gaty
C-I01	748784.69	4277922.753	1716 St. Louis
C-I02	748765.034	4277900.87	1716 St. Louis
C-J01	748995.864	4277741.838	1835 St. Louis
C-J02	749008.176	4277754.342	1835 St. Louis
C-K01	748855.656	4277996.243	1716 Cleveland
C-K02	748836.518	4277970.352	1716 Cleveland
C-L01	749012.519	4277831.017	Vacant lot across from 1825 Cleveland
C-L02	749002.153	4277820.315	Vacant lot across from 1825 Cleveland

Table 2-16
Description of Soil Sampling Locations for General Area D
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
D-A01	749216.428	4279683.801	Public Housing on block bound by Walter/Exchange and 13th/ 14th
D-A02	749238.053	4279660.784	Public Housing on block bound by Walter/Exchange and 13th/ 14th
D-A03	749290.747	4279617.816	Public Housing on block bound by Walter/Exchange and 14th/ 15th
D-A04	749315.317	4279593.638	Public Housing on block bound by Walter/Exchange and 14th/ 15th
D-B01	749223.293	4279846.963	Public Housing a north corner of 13th and Exchange
D-B02	749190.83	4279805.746	Public Housing a north corner of 13th and Exchange
D-C01	749228.665	4279788.678	Vacant lot on 13th near east corner of 13th and Exchange
D-C02	749247.647	4279777.986	Vacant lot on 13th near east corner of 13th and Exchange
D-D01	749225.541	4280207.835	Vacant lot at east corner of Lynch and 9th
D-D02	749242.753	4280189.073	Vacant lot at east corner of Lynch and 9th
D-E01	749538.433	4280341.539	904 Gross & Other apartments in complex (near playground)
D-E02	749565.274	4280322.913	904 Gross & Other apartments in complex (lawn area)
D-F01	749654.174	4280251.138	1513 13th Street (Public Housing)
D-F02	749633.607	4280268.302	1513 13th Street (Public Housing)
D-G01	749808.651	4280102.686	1402/1408 Gross (Public Housing)
D-G02	749784.435	4280077.559	1402/1408 Gross (Public Housing)

Table 2-17
Description of Soil Sampling Locations for General Area E
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
E-A01	751036.348	4277746.745	652 Alhambra
E-A02	751061.359	4277743.734	652 Alhambra
E-B01	751136.189	4277810.762	715 Post
E-B02	751109.252	4277818.894	715 Post
E-C01	751283.737	4277881.723	Vacant lot opposite 751 37th
E-C02	751298.754	4277878.168	Vacant lot opposite 751 37th
E-D01	751213.647	4278028.164	776 Post Place (Kid's Korner Daycare)
E-D02	751223.981	4278054.497	776 Post Place (Kid's Korner Daycare)
E-E01	751350.825	4277854.411	739 38th Street
E-E02	751330.675	4277868.01	739 38th Street
E-F01	751492.009	4277592.542	664 40th Street
E-F02	751515.569	4277582.179	664 40th Street

Table 2-18
Description of Soil Sampling Locations for General Area F
Mississippi River Gateway Initiative
East St. Louis, Illinois

Sampling Location ID	Easting	Northing	Location Description
F-A01	748898.801	4276044.712	2638 Trendley
F-A02	748892.308	4276037.829	2638 Trendley
F-B01	749207.689	4275901.093	2925 Market
F-B02	749235.327	4275918.983	2925 Market
F-C01	749290.945	4275649.263	3136 Trendley
F-C02	749262.394	4275624.832	3136 Trendley
F-D01	749685.289	4275643.104	Park on McCasland between 35th and 36th (near jungle gym)
F-D02	749708.219	4275634.322	Park on McCasland between 35th and 36th (near jungle gym)
F-E01	749905.391	4275608.798	Vacant lot at southern corner of 36th and Converse
F-E02	749884.069	4275592.991	Vacant lot at southern corner of 36th and Converse
F-F01	749356.795	4276160.93	Vacant lot at south corner of 29th and Converse
F-F02	749336.774	4276138.258	Vacant lot at south corner of 29th and Converse
F-G01	749049.304	4276287.248	Alta Sita Elementary School (2601 Bond)
F-G02	749022.167	4276262.525	Alta Sita Elementary School (2601 Bond)
F-G03	749022.855	4276285.984	Alta Sita Elementary School (2601 Bond)
F-G04	749006.723	4276273.837	Alta Sita Elementary School (2601 Bond)

Table 3-1

Soil Sampling Analytical Results
Volatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-A02-01-01	136-A08-03-01	136-A08-03-01 DP	141-A02-01-01
				Sample Date	8/20/2001	8/15/2001	8/15/2001	8/20/2001
1,1,1-TRICHLOROETHANE	8260B	21,900,000	572,320,000		6.4 U	11 U	10 U	5.3 U
1,1,2,2-TETRACHLOROETHANE	8260B	3,194	28,616		6.4 U	11 U	10 U	5.3 U
1,1,2-TRICHLOROETHANE	8260B	11,206	100,407		6.4 U	11 U	10 U	5.3 U
1,1-DICHLOROETHANE	8260B	7,821,429	204,400,000		6.4 U	11 U	10 U	5.3 U
1,1-DICHLOROETHENE	8260B	1,065	9,539		6.4 U	11 U	10 U	5.3 U
1,2-DICHLOROETHANE	8260B	7,019	62,892		6.4 U	11 U	10 U	5.3 U
1,2-DICHLOROPROPANE	8260B	9,393	84,165		6.4 U	11 U	10 U	5.3 U
2-BUTANONE (MEK)	8260B	46,928,571	1,000,000,000		31 J	24 J	26 J	5.1 J
2-CHLOROETHYL VINYL ETHER	8260B	NE	NE		64 U	110 U	100 U	53 U
2-HEXANONE (MBK)	8260B	3,128,571	81,760,000		2 J	2.6 J	2.5 J	53 U
4-METHYL-2-PENTANONE (MIBK)	8260B	6,257,149	163,520,000		64 U	1.3 J	1.3 J	53 U
ACETONE	8260B	7,821,429	204,400,000		520 R	180	180	52 J
BENZENE	8260B	11,613	104,058		3 J	2.8 J	3 J	5.8
BROMODICHLOROMETHANE	8260B	10,302	92,310		6.4 U	11 U	10 U	5.3 U
BROMOFORM	8260B	80,851	724,456		6.4 U	11 U	10 U	5.3 U
BROMOMETHANE	8260B	109,500	2,861,600		6.4 U	11 U	10 U	5.3 U
CARBON DISULFIDE	8260B	7,821,429	204,400,000		3.9 J	5.4 J	5.3 J	3.5 J
CARBON TETRACHLORIDE	8260B	4,913	44,025		6.4 U	11 U	10 U	5.3 U
CHLOROBENZENE	8260B	1,564,286	40,880,000		6.4 U	11 U	10 U	5.3 U
CHLOROETHANE	8260B	220,250	1,973,517		17	11 U	10 U	5.3 U
CHLOROFORM	8260B	104,709	938,230		6.4 U	11 U	10 U	5.3 U
CHLOROMETHANE	8260B	49,133	440,246		6.4 U	4.3 J	4.3 J	5.3 U
CIS-1,2-DICHLOROETHENE	8260B	782,143	20,440,000		6.4 U	11 U	10 U	5.3 U
CIS-1,3-DICHLOROPROPENE	8260B	NE	NE		6.4 U	11 U	10 U	5.3 U
DIBROMOCHLOROMETHANE	8260B	7,604	68,133		6.4 U	11 U	10 U	5.3 U
ETHYLBENZENE	8260B	7,821,429	204,400,000		6.4 U	1.8 J	1.8 J	1.8 J
METHYLENE CHLORIDE	8260B	85,163	763,093		13 U	33	34	11 U
STYRENE	8260B	15,642,857	408,800,000		6.4 U	11 U	1.1 J	5.3 U
TETRACHLOROETHENE	8260B	12,283	110,062		5.3 J	11 U	10 U	1.3 J
TOLUENE	8260B	15,642,857	408,800,000		4.3 J	7.9 J	7.2 J	5.4
TRANS-1,2-DICHLOROETHENE	8260B	1,564,286	40,880,000		6.4 U	11 U	10 U	5.3 U
TRANS-1,3-DICHLOROPROPENE	8260B	NE	NE		6.4 U	11 U	10 U	5.3 U
TRICHLOROETHENE	8260B	58,066	520,291		6.4 U	2.3 J	2.2 J	5.3 U
TRICHLOROFLUOROMETHANE	8260B	23,464,286	613,200,000		6.4 U	11 U	10 U	5.3 U
VINYL ACETATE	8260B	78,214,286	1,000,000,000		130 U	210 U	210 U	110 U
VINYL CHLORIDE	8260B	90	NE		6.4 U	11 U	10 U	5.3 U
XYLENES (TOTAL)	8260B	156,428,571	1,000,000,000		2 J	5.5 J	5.3 J	4.7 J

Table 3-1
(Continued)

Soil Sampling Analytical Results
Volatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-A04-01-01	145-A01-01-01	145-A01-01-01DP
				Sample Date	11/16/2001	8/22/2001	8/22/2001
1,1,1-TRICHLOROETHANE	8260B	21,900,000	572,320,000		6.1 U	7.7 U	7.7 U
1,1,2,2-TETRACHLOROETHANE	8260B	3,194	28,616		6.1 U	7.7 U	7.7 U
1,1,2-TRICHLOROETHANE	8260B	11,206	100,407		6.1 U	7.7 U	7.7 U
1,1-DICHLOROETHANE	8260B	7,821,429	204,400,000		6.1 U	7.7 U	7.7 U
1,1-DICHLOROETHENE	8260B	1,065	9,539		6.1 U	7.7 U	7.7 U
1,2-DICHLOROETHANE	8260B	7,019	62,892		6.1 U	7.7 U	7.7 U
1,2-DICHLOROPROPANE	8260B	9,393	84,165		6.1 U	7.7 U	7.7 U
2-BUTANONE (MEK)	8260B	46,928,571	1,000,000,000		61 U	15 J	16 J
2-CHLOROETHYL VINYL ETHER	8260B	NE	NE		61 U	77 U	77 U
2-HEXANONE (MBK)	8260B	3,128,571	81,760,000		61 U	77 U	77 U
4-METHYL-2-PENTANONE (MIBK)	8260B	6,257,149	163,520,000		61 U	77 U	77 U
ACETONE	8260B	7,821,429	204,400,000		23 J	150 J	181 J
BENZENE	8260B	11,613	104,058		6.1 U	4.1 J	4.6 J
BROMODICHLOROMETHANE	8260B	10,302	92,310		6.1 U	7.7 U	7.7 U
BROMOFORM	8260B	80,851	724,456		6.1 U	7.7 U	7.7 U
BROMOMETHANE	8260B	109,500	2,861,600		6.1 U	7.7 U	7.7 U
CARBON DISULFIDE	8260B	7,821,429	204,400,000		12 U	24 J	9.2 J
CARBON TETRACHLORIDE	8260B	4,913	44,025		6.1 U	7.7 U	7.7 U
CHLOROBENZENE	8260B	1,564,286	40,880,000		6.1 U	7.7 U	7.7 U
CHLOROETHANE	8260B	220,250	1,973,517		6.1 U	7.7 U	7.7 U
CHLOROFORM	8260B	104,709	938,230		6.1 U	7.7 U	7.7 U
CHLOROMETHANE	8260B	49,133	440,246		6.1 U	7.7 U	7.7 U
CIS-1,2-DICHLOROETHENE	8260B	782,143	20,440,000		6.1 U	7.7 U	7.7 U
CIS-1,3-DICHLOROPROPENE	8260B	NE	NE		6.1 U	7.7 U	7.7 U
DIBROMOCHLOROMETHANE	8260B	7,604	68,133		6.1 U	7.7 U	7.7 U
ETHYLBENZENE	8260B	7,821,429	204,400,000		6.1 U	2.3 J	2.6 J
METHYLENE CHLORIDE	8260B	85,163	763,093		39	15 U	15 U
STYRENE	8260B	15,642,857	408,800,000		6.1 U	7.7 U	7.7 U
TETRACHLOROETHENE	8260B	12,283	110,062		6.1 U	1.9 J	2.3 J
TOLUENE	8260B	15,642,857	408,800,000		6.1 U	6.5 J	7.5 J
TRANS-1,2-DICHLOROETHENE	8260B	1,564,286	40,880,000		6.1 U	7.7 U	7.7 U
TRANS-1,3-DICHLOROPROPENE	8260B	NE	NE		6.1 U	7.7 U	7.7 U
TRICHLOROETHENE	8260B	58,066	520,291		6.1 U	7.7 U	7.7 U
TRICHLOROFLUOROMETHANE	8260B	23,464,286	613,200,000		6.1 U	7.7 U	7.7 U
VINYL ACETATE	8260B	78,214,286	1,000,000,000		120 U	150 U	150 U
VINYL CHLORIDE	8260B	90	NE		6.1 U	7.7 U	7.7 U
XYLENES (TOTAL)	8260B	156,428,571	1,000,000,000		6.1 U	8 J	11 J

Table 3-1
(Continued)

Soil Sampling Analytical Results
Volatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID: 145-F05-01-01 Sample Date: 8/16/2001	Sample ID: 155-A06-01-01 Sample Date: 8/15/2001	Sample ID: 157-A05-01-01 Sample Date: 8/22/2001
1,1,1-TRICHLOROETHANE	8260B	21,900,000	572,320,000	7.3 U	5.6 U	8.7 U
1,1,2,2-TETRACHLOROETHANE	8260B	3,194	28,616	7.3 U	5.6 U	8.7 U
1,1,2-TRICHLOROETHANE	8260B	11,206	100,407	7.3 U	5.6 U	8.7 U
1,1-DICHLOROETHANE	8260B	7,821,429	204,400,000	7.3 U	5.6 U	8.7 U
1,1-DICHLOROETHENE	8260B	1,065	9,539	7.3 U	5.6 U	8.7 U
1,2-DICHLOROETHANE	8260B	7,019	62,892	7.3 U	5.6 U	8.7 U
1,2-DICHLOROPROPANE	8260B	9,393	84,165	7.3 U	5.6 U	8.7 U
2-BUTANONE (MEK)	8260B	46,928,571	1,000,000,000	39 J	16 J	19 J
2-CHLOROETHYL VINYL ETHER	8260B	NE	NE	73 U	56 U	87 U
2-HEXANONE (MBK)	8260B	3,128,571	81,760,000	73 U	56 U	87 U
4-METHYL-2-PENTANONE (MIBK)	8260B	6,257,149	163,520,000	73 U	56 U	87 U
ACETONE	8260B	7,821,429	204,400,000	1200 J	130	380 J
BENZENE	8260B	11,613	104,058	21 J	9.4	11 J
BROMODICHLOROMETHANE	8260B	10,302	92,310	7.3 U	5.6 U	8.7 U
BROMOFORM	8260B	80,851	724,456	7.3 U	83	8.7 U
BROMOMETHANE	8260B	109,500	2,861,600	14 J	5.6 U	8.7 U
CARBON DISULFIDE	8260B	7,821,429	204,400,000	7.2 J	5.9 J	3.9 J
CARBON TETRACHLORIDE	8260B	4,913	44,025	7.3 U	5.6 U	8.7 U
CHLOROBENZENE	8260B	1,564,286	40,880,000	0.76 J	5.6 U	8.7 U
CHLOROETHANE	8260B	220,250	1,973,517	19 J	5.6 U	8.7 U
CHLOROFORM	8260B	104,709	938,230	7.3 U	1.7 J	8.7 U
CHLOROMETHANE	8260B	49,133	440,246	3.5 J	5.6 U	8.7 U
CIS-1,2-DICHLOROETHENE	8260B	782,143	20,440,000	7.3 U	5.6 U	8.7 U
CIS-1,3-DICHLOROPROPENE	8260B	NE	NE	7.3 U	5.6 U	8.7 U
DIBROMOCHLOROMETHANE	8260B	7,604	68,133	7.3 U	5.6 U	8.7 U
ETHYLBENZENE	8260B	7,821,429	204,400,000	1.5 J	2.1 J	5.4 J
METHYLENE CHLORIDE	8260B	85,163	763,093	15 U	11 U	17 U
STYRENE	8260B	15,642,857	408,800,000	7.3 U	5.6 U	8.7 U
TETRACHLOROETHENE	8260B	12,283	110,062	2.7 J	4.2 J	4.6 J
TOLUENE	8260B	15,642,857	408,800,000	14 J	6.8	17 J
TRANS-1,2-DICHLOROETHENE	8260B	1,564,286	40,880,000	7.3 U	5.6 U	8.7 U
TRANS-1,3-DICHLOROPROPENE	8260B	NE	NE	7.3 U	5.6 U	8.7 U
TRICHLOROETHENE	8260B	58,066	520,291	7.3 U	5.6 U	8.7 U
TRICHLOROFLUOROMETHANE	8260B	23,464,286	613,200,000	7.3 U	5.6 U	1.8 J
VINYL ACETATE	8260B	78,214,286	1,000,000,000	150 U	110 U	170 U
VINYL CHLORIDE	8260B	90	NE	7.3 U	5.6 U	8.7 U
XYLENES (TOTAL)	8260B	156,428,571	1,000,000,000	7.1 J	4.5 J	18 J

Table 3-1
(Continued)

Soil Sampling Analytical Results
Volatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID: 158-A11-01-01 Sample Date: 8/15/2001	Sample ID: 160-A01-01-01 Sample Date: 8/22/2001	Sample ID: 173-A08-01-01 Sample Date: 8/24/2001
1,1,1-TRICHLOROETHANE	8260B	21,900,000	572,320,000	10 U	9.5 U	4.9 UJ
1,1,2,2-TETRACHLOROETHANE	8260B	3,194	28,616	10 U	9.5 U	4.9 UJ
1,1,2-TRICHLOROETHANE	8260B	11,206	100,407	10 U	9.5 U	4.9 UJ
1,1-DICHLOROETHANE	8260B	7,821,429	204,400,000	10 U	9.5 U	4.9 UJ
1,1-DICHLOROETHENE	8260B	1,065	9,539	10 U	9.5 U	4.9 UJ
1,2-DICHLOROETHANE	8260B	7,019	62,892	10 U	9.5 U	4.9 UJ
1,2-DICHLOROPROPANE	8260B	9,393	84,165	10 U	9.5 U	4.9 UJ
2-BUTANONE (MEK)	8260B	46,928,571	1,000,000,000	100 U	25 J	19 J
2-CHLOROETHYL VINYL ETHER	8260B	NE	NE	100 U	95 U	50 UJ
2-HEXANONE (MBK)	8260B	3,128,571	81,760,000	100 U	95 U	50 UJ
4-METHYL-2-PENTANONE (MIBK)	8260B	6,257,149	163,520,000	100 U	95 U	50 UJ
ACETONE	8260B	7,821,429	204,400,000	73 J	140	71 J
BENZENE	8260B	11,613	104,058	4.6 J	4.5 J	3.1 J
BROMODICHLOROMETHANE	8260B	10,302	92,310	10 U	9.5 U	4.9 UJ
BROMOFORM	8260B	80,851	724,456	10 U	9.5 U	4.9 UJ
BROMOMETHANE	8260B	109,500	2,861,600	10 U	9.5 U	4.9 UJ
CARBON DISULFIDE	8260B	7,821,429	204,400,000	1.6 J	5.6 J	9.9 UJ
CARBON TETRACHLORIDE	8260B	4,913	44,025	10 U	9.5 U	4.9 UJ
CHLOROBENZENE	8260B	1,564,286	40,880,000	10 U	9.5 U	4.9 UJ
CHLOROETHANE	8260B	220,250	1,973,517	10 U	6.4 J	4.9 UJ
CHLOROFORM	8260B	104,709	938,230	10 U	9.5 U	4.9 UJ
CHLOROMETHANE	8260B	49,133	440,246	2 J	9.5 U	4.9 UJ
CIS-1,2-DICHLOROETHENE	8260B	782,143	20,440,000	10 U	9.5 U	4.9 UJ
CIS-1,3-DICHLOROPROPENE	8260B	NE	NE	10 U	9.5 U	4.9 UJ
DIBROMOCHLOROMETHANE	8260B	7,604	68,133	10 U	9.5 U	4.9 UJ
ETHYLBENZENE	8260B	7,821,429	204,400,000	1.2 J	3.1 J	4.9 UJ
METHYLENE CHLORIDE	8260B	85,163	763,093	13 J	19 U	9.9 UJ
STYRENE	8260B	15,642,857	408,800,000	10 U	9.5 U	4.9 UJ
TETRACHLOROETHENE	8260B	12,283	110,062	10 U	3.3 J	4.9 UJ
TOLUENE	8260B	15,642,857	408,800,000	6 J	25 J	4.2 J
TRANS-1,2-DICHLOROETHENE	8260B	1,564,286	40,880,000	10 U	9.5 U	4.9 UJ
TRANS-1,3-DICHLOROPROPENE	8260B	NE	NE	10 U	9.5 U	4.9 UJ
TRICHLOROETHENE	8260B	58,066	520,291	10 U	9.5 U	4.9 UJ
TRICHLOROFLUOROMETHANE	8260B	23,464,286	613,200,000	10 U	9.5 U	4.9 UJ
VINYL ACETATE	8260B	78,214,286	1,000,000,000	210 U	190 U	99 UJ
VINYL CHLORIDE	8260B	90	NE	10 U	9.5 U	4.9 UJ
XYLENES (TOTAL)	8260B	156,428,571	1,000,000,000	3.4 J	14 J	2.2 J

Table 3-1
(Continued)

Soil Sampling Analytical Results
Volatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID: 178-A03-01-01 Sample Date: 8/22/2001	Sample ID: 185-A04-02-01 Sample Date: 8/16/2001
1,1,1-TRICHLOROETHANE	8260B	21,900,000	572,320,000	6 U	9.7 U
1,1,2,2-TETRACHLOROETHANE	8260B	3,194	28,616	6 U	9.7 U
1,1,2-TRICHLOROETHANE	8260B	11,206	100,407	6 U	9.7 U
1,1-DICHLOROETHANE	8260B	7,821,429	204,400,000	6 U	9.7 U
1,1-DICHLOROETHENE	8260B	1,065	9,539	6 U	9.7 U
1,2-DICHLOROETHANE	8260B	7,019	62,892	6 U	9.7 U
1,2-DICHLOROPROPANE	8260B	9,393	84,165	6 U	9.7 U
2-BUTANONE (MEK)	8260B	46,928,571	1,000,000,000	60 U	16 J
2-CHLOROETHYL VINYL ETHER	8260B	NE	NE	60 U	97 U
2-HEXANONE (MBK)	8260B	3,128,571	81,760,000	60 U	97 U
4-METHYL-2-PENTANONE (MIBK)	8260B	6,257,149	163,520,000	60 UJ	97 U
ACETONE	8260B	7,821,429	204,400,000	92	170
BENZENE	8260B	11,613	104,058	1.9 J	1.2 J
BROMODICHLOROMETHANE	8260B	10,302	92,310	6 U	9.7 U
BROMOFORM	8260B	80,851	724,456	6 U	9.7 U
BROMOMETHANE	8260B	109,500	2,861,600	6 U	7.6 J
CARBON DISULFIDE	8260B	7,821,429	204,400,000	1.5 J	25 J
CARBON TETRACHLORIDE	8260B	4,913	44,025	6 U	9.7 U
CHLOROBENZENE	8260B	1,564,286	40,880,000	6 UJ	9.7 U
CHLOROETHANE	8260B	220,250	1,973,517	9.3	9.7 U
CHLOROFORM	8260B	104,709	938,230	6 U	9.7 U
CHLOROMETHANE	8260B	49,133	440,246	6 U	9.7 U
CIS-1,2-DICHLOROETHENE	8260B	782,143	20,440,000	6 U	9.7 U
CIS-1,3-DICHLOROPROPENE	8260B	NE	NE	6 U	9.7 U
DIBROMOCHLOROMETHANE	8260B	7,604	68,133	1.8 J	9.7 U
ETHYLBENZENE	8260B	7,821,429	204,400,000	1.8 J	9.7 U
METHYLENE CHLORIDE	8260B	85,163	763,093	12 U	19 U
STYRENE	8260B	15,642,857	408,800,000	6 U	9.7 U
TETRACHLOROETHENE	8260B	12,283	110,062	1.8 J	4.9 J
TOLUENE	8260B	15,642,857	408,800,000	3.9 J	1.6 J
TRANS-1,2-DICHLOROETHENE	8260B	1,564,286	40,880,000	6 U	9.7 U
TRANS-1,3-DICHLOROPROPENE	8260B	NE	NE	6 U	9.7 U
TRICHLOROETHENE	8260B	58,066	520,291	6 U	9.7 U
TRICHLOROFLUOROMETHANE	8260B	23,464,286	613,200,000	1.2 J	9.7 U
VINYL ACETATE	8260B	78,214,286	1,000,000,000	120 U	190 U
VINYL CHLORIDE	8260B	90	NE	6 UJ	9.7 U
XYLENES (TOTAL)	8260B	156,428,571	1,000,000,000	7.2	1.6 J

U- Constituent not detected. Detection limit indicated.
J- Estimated value.
R- Rejected value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.

Table 3-2

Soil Sampling Analytical Results
Semivolatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-A02-01-01	136-A08-03-01	136-A08-03-01DP	141-A02-01-01	143-A04-01-01
				Sample Date	8/20/2001	8/15/2001	8/15/2001	8/20/2001	11/16/2001
1,2,4-TRICHLOROBENZENE	8270C	782,143	20,440,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
1,2-DICHLOROBENZENE	8270C	370,000	370,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
1,3-DICHLOROBENZENE	8270C	2,346,429	61,320,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
1,4-DICHLOROBENZENE	8270C	26,614	238,467		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
1-METHYLNAPHTHALENE	8270C	NE	NE		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2,4,5-TRICHLOROPHENOL	8270C	7,821,429	204,400,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2,4,6-TRICHLOROPHENOL	8270C	58,066	520,291		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2,4-DICHLOROPHENOL	8270C	234,643	6,132,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2,4-DIMETHYLPHENOL	8270C	1,564,286	40,880,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2,4-DINITROPHENOL	8270C	156,429	4,088,000		17,000 U	35,000 U	35,000 U	17,000 U	20,000 U
2,4-DINITROTOLUENE	8270C	156,429	4,088,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2,6-DINITROTOLUENE	8270C	78,214	2,044,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2-CHLORONAPHTHALENE	8270C	6,257,143	163,520,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2-CHLOROPHENOL	8270C	391,071	10,220,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2-METHYLNAPHTHALENE	8270C	1,564,286	40,880,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2-METHYLPHENOL	8270C	3,910,714	102,200,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
2-NITROANILINE	8270C	3,492	50,338		7,200 U	14,000 U	14,000 U	6,900 U	8,300 U
2-NITROPHENOL	8270C	NE	NE		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
3,3'-DICHLOROBENZIDINE	8270C	1,419	12,718		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
3,4-METHYLPHENOL	8270C	NE	NE		7,200 U	14,000 U	14,000 U	6,900 U	8,300 U
3-NITROANILINE	8270C	NE	NE		7,200 U	14,000 U	14,000 U	6,900 U	8,300 U
4,6-DINITRO-2-METHYLPHENOL	8270C	78,214	2,044,000		7,200 U	14,000 U	14,000 U	6,900 U	8,300 U
4-BROMOFLUOROBENZENE	8270C	NE	NE		—	—	—	—	—
4-BROMOPHENYL PHENYL ETHER	8270C	NE	NE		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
4-CHLORO-3-METHYLPHENOL	8270C	NE	NE		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
4-CHLOROANILINE	8270C	312,857	8,176,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
4-CHLOROPHENYL PHENYL ETHER	8270C	NE	NE		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
4-NITROANILINE	8270C	NE	NE		7,200 U	14,000 U	14,000 U	6,900 U	8,300 U
4-NITROPHENOL	8270C	625,714	16,352,000		7,200 U	14,000 U	14,000 U	6,900 U	8,300 U
ACENAPHTHENE	8270C	4,692,857	122,640,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
ACENAPHTHYLENE	8270C	NE	NE		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
ANTHRACENE	8270C	23,464,286	613,200,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
BENZO(A)ANTHRACENE	8270C	875	7,840		770 J	7,200 U	1,800 J	3,400 U	770 J
BENZO(A)PYRENE	8270C	87	784		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
BENZO(B)FLUORANTHENE	8270C	875	7,840		3,600 U	7,200 U	7,100 U	3,400 U	740 J

Table 3-2

Soil Sampling Analytical Results
Semivolatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-A02-01-01	136-A08-03-01	136-A08-03-01DP	141-A02-01-01	143-A04-01-01
				Sample Date	8/20/2001	8/15/2001	8/15/2001	8/20/2001	11/16/2001
BENZO(G,H,I)PERYLENE	8270C	NE	NE		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
BENZO(K)FLUORANTHENE	8270C	8,750	78,400		3,600 U	7,200 U	7,100 U	3,400 U	740 J
BENZOIC ACID	8270C	312,857,143	1,000,000,000		17,000 U	35,000 U	35,000 U	17,000 U	20,000 U
BENZYL ALCOHOL	8270C	23,464,286	613,200,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
BIS(2-CHLOROETHOXY)METHANE	8270C	NE	NE		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
BIS(2-CHLOROETHYL)ETHER	8270C	581	5,203		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
BIS(2-CHLOROISOPROPYL)ETHER	8270C	9,125	81,760		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
BIS(2-ETHYLHEXYL)PHTHALATE	8270C	45,623	408,800		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
BUTYL BENZYL PHTHALATE	8270C	15,642,857	408,800,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
CHRYSENE	8270C	87,497	784,000		940 J	7,200 U	2,200 J	3,400 U	800 J
DIBENZ(A,H)ANTHRACENE	8270C	87	784		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
DIBENZOFURAN	8270C	312,857	8,176,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
DIETHYLPHTHALATE	8270C	62,571,429	1,000,000,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
DIMETHYLPHTHALATE	8270C	782,142,857	1,000,000,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
DI-N-BUTYLPHTHALATE	8270C	7,821,429	204,400,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
DI-N-OCTYLPHTHALATE	8270C	1,564,286	40,880,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
FLUORANTHENE	8270C	3,128,571	81,760,000		1,500 J	1,100 J	2,100 J	690 J	1,700 J
FLUORENE	8270C	3,128,571	81,760,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
HEXACHLOROBENZENE	8270C	399	3,577		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
HEXACHLOROBUTADIENE	8270C	8,189	73,374		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
HEXACHLOROCYCLOPENTADIENE	8270C	469,286	12,264,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
HEXACHLOROETHANE	8270C	45,623	408,800		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
INDENO(1,2,3-CD)PYRENE	8270C	87	7,840		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
ISOPHORONE	8270C	672,343	6,024,421		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
NAPHTHALENE	8270C	1,564,286	40,880,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
NITROBENZENE	8270C	39,107	1,022,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
N-NITROSO-DI-N-PROPYLAMINE	8270C	91	818		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
N-NITROSODIPHENYLAMINE	8270C	130,352	1,168,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
PENTACHLOROPHENOL	8270C	5,323	47,693		7,200 U	14,000 U	14,000 U	6,900 U	8,300 U
PHENANTHRENE	8270C	NE	NE		1,000 J	7,200 U	1,800 J	3,400 U	1,300 J
PHENOL	8270C	46,928,571	1,000,000,000		3,600 U	7,200 U	7,100 U	3,400 U	4,100 U
PYRENE	8270C	2,346,429	61,320,000		1,300 J	1,000 J	1,800 J	580 J	1,600 J

Table 3-2
(Continued)

Soil Sampling Analytical Results
Semivolatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-A01-01-01	145-A01-01-01 DP	145-F05-01-01	155-A06-01-01
				Sample Date	8/22/2001	8/22/2001	8/16/2001	8/15/2001
1,2,4-TRICHLOROBENZENE	8270C	782,143	20,440,000		8,500 U	8,600 U	6,900 U	3,700 U
1,2-DICHLOROBENZENE	8270C	370,000	370,000		8,500 U	8,600 U	6,900 U	3,700 U
1,3-DICHLOROBENZENE	8270C	2,346,429	61,320,000		8,500 U	8,600 U	6,900 U	3,700 U
1,4-DICHLOROBENZENE	8270C	26,614	238,467		8,500 U	8,600 U	6,900 U	3,700 U
1-METHYLNAPHTHALENE	8270C	NE	NE		8,500 U	8,600 U	6,900 U	3,700 U
2,4,5-TRICHLOROPHENOL	8270C	7,821,429	204,400,000		8,500 U	8,600 U	6,900 U	3,700 U
2,4,6-TRICHLOROPHENOL	8270C	58,066	520,291		8,500 U	8,600 U	6,900 U	3,700 U
2,4-DICHLOROPHENOL	8270C	234,643	6,132,000		8,500 U	8,600 U	6,900 U	3,700 U
2,4-DIMETHYLPHENOL	8270C	1,564,286	40,880,000		8,500 U	8,600 U	6,900 U	3,700 U
2,4-DINITROPHENOL	8270C	156,429	4,088,000		41,000 U	42,000 U	34,000 U	18,000 U
2,4-DINITROTOLUENE	8270C	156,429	4,088,000		8,500 U	8,600 U	6,900 U	3,700 U
2,6-DINITROTOLUENE	8270C	78,214	2,044,000		8,500 U	8,600 U	6,900 U	3,700 U
2-CHLORONAPHTHALENE	8270C	6,257,143	163,520,000		8,500 U	8,600 U	6,900 U	3,700 U
2-CHLOROPHENOL	8270C	391,071	10,220,000		8,500 U	8,600 U	6,900 U	3,700 U
2-METHYLNAPHTHALENE	8270C	1,564,286	40,880,000		8,500 U	8,600 U	2,700 J	3,700 U
2-METHYLPHENOL	8270C	3,910,714	102,200,000		8,500 U	8,600 U	6,900 U	3,700 U
2-NITROANILINE	8270C	3,492	50,338		17,000 U	17,000 U	14,000 U	7,300 U
2-NITROPHENOL	8270C	NE	NE		8,500 U	8,600 U	6,900 U	3,700 U
3,3'-DICHLOROBENZIDINE	8270C	1,419	12,718		8,500 U	8,600 U	6,900 U	3,700 U
3,4-METHYLPHENOL	8270C	NE	NE		17,000 U	17,000 U	14,000 U	7,300 U
3-NITROANILINE	8270C	NE	NE		17,000 U	17,000 U	14,000 U	7,300 U
4,6-DINITRO-2-METHYLPHENOL	8270C	78,214	2,044,000		17,000 U	17,000 U	14,000 U	7,300 U
4-BROMOFLUOROBENZENE	8270C	NE	NE		—	—	6,900 U	—
4-BROMOPHENYL PHENYL ETHER	8270C	NE	NE		8,500 U	8,600 U	—	3,700 U
4-CHLORO-3-METHYLPHENOL	8270C	NE	NE		8,500 U	8,600 U	6,900 U	3,700 U
4-CHLOROANILINE	8270C	312,857	8,176,000		8,500 U	8,600 U	6,900 U	3,700 U
4-CHLOROPHENYL PHENYL ETHER	8270C	NE	NE		8,500 U	8,600 U	6,900 U	3,700 U
4-NITROANILINE	8270C	NE	NE		17,000 U	17,000 U	14,000 U	7,300 U
4-NITROPHENOL	8270C	625,714	16,352,000		17,000 U	17,000 U	14,000 U	7,300 U
ACENAPHTHENE	8270C	4,692,857	122,640,000		8,500 U	8,600 U	6,900 U	3,700 U
ACENAPHTHYLENE	8270C	NE	NE		8,500 U	8,600 U	6,900 U	3,700 U
ANTHRACENE	8270C	23,464,286	613,200,000		8,500 U	8,600 U	6,900 U	550 J
BENZO(A)ANTHRACENE	8270C	875	7,840		3,400 J	3,500 J	1,000 J	1,900 J
BENZO(A)PYRENE	8270C	87	784		8,500 U	8,600 U	6,900 U	1,500 J
BENZO(B)FLUORANTHENE	8270C	875	7,840		3,600 J	3,500 J	6,900 U	1,500 J

Table 3-2
(Continued)

Soil Sampling Analytical Results
Semivolatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-A01-01-01	145-A01-01-01 DP	145-F05-01-01	155-A06-01-01
				Sample Date	8/22/2001	8/22/2001	8/16/2001	8/15/2001
BENZO(G,H,I)PERYLENE	8270C	NE	NE		8,500 U	8,600 U	6,900 U	3,700 U
BENZO(K)FLUORANTHENE	8270C	8,750	78,400		3,100 J	3,300 J	6,900 U	3,700 U
BENZOIC ACID	8270C	312,857,143	1,000,000,000		41,000 U	42,000 U	34,000 U	18,000 U
BENZYL ALCOHOL	8270C	23,464,286	613,200,000		8,500 U	8,600 U	6,900 U	3,700 U
BIS(2-CHLOROETHOXY)METHANE	8270C	NE	NE		8,500 U	8,600 U	6,900 U	3,700 U
BIS(2-CHLOROETHYL)ETHER	8270C	581	5,203		8,500 U	8,600 U	6,900 U	3,700 U
BIS(2-CHLOROISOPROPYL)ETHER	8270C	9,125	81,760		8,500 U	8,600 U	6,900 U	3,700 U
BIS(2-ETHYLHEXYL)PHTHALATE	8270C	45,623	408,800		8,500 U	8,600 U	6,900 U	3,700 U
BUTYL BENZYL PHTHALATE	8270C	15,642,857	408,800,000		8,500 U	8,600 U	6,900 U	3,700 U
CHRYSENE	8270C	87,497	784,000		4,300 J	4,400 J	6,900 U	2,300 J
DIBENZ(A,H)ANTHRACENE	8270C	87	784		8,500 U	8,600 U	6,900 U	3,700 U
DIBENZOFURAN	8270C	312,857	8,176,000		8,500 U	8,600 U	6,900 U	3,700 U
DIETHYLPHTHALATE	8270C	62,571,429	1,000,000,000		8,500 U	8,600 U	6,900 U	3,700 U
DIMETHYLPHTHALATE	8270C	782,142,857	1,000,000,000		8,500 U	8,600 U	6,900 U	3,700 U
DI-N-BUTYLPHTHALATE	8270C	7,821,429	204,400,000		8,500 U	8,600 U	6,900 U	3,700 U
DI-N-OCTYLPHTHALATE	8270C	1,564,286	40,880,000		8,500 U	8,600 U	6,900 U	3,700 U
FLUORANTHENE	8270C	3,128,571	81,760,000		5,100 J	4,500 J	1,100 J	4,800
FLUORENE	8270C	3,128,571	81,760,000		8,500 U	8,600 U	6,900 U	3,700 U
HEXACHLOROBENZENE	8270C	399	3,577		8,500 U	8,600 U	6,900 U	3,700 U
HEXACHLOROBUTADIENE	8270C	8,189	73,374		8,500 U	8,600 U	6,900 U	3,700 U
HEXACHLOROCYCLOPENTADIENE	8270C	469,286	12,264,000		8,500 U	8,600 U	6,900 U	3,700 U
HEXACHLOROETHANE	8270C	45,623	408,800		8,500 U	8,600 U	6,900 U	3,700 U
INDENO(1,2,3-CD)PYRENE	8270C	87	7,840		8,500 U	8,600 U	6,900 U	3,700 U
ISOPHORONE	8270C	672,343	6,024,421		8,500 U	8,600 U	6,900 U	3,700 U
NAPHTHALENE	8270C	1,564,286	40,880,000		8,500 U	8,600 U	1,000 J	3,700 U
NITROBENZENE	8270C	39,107	1,022,000		8,500 U	8,600 U	6,900 U	3,700 U
N-NITROSO-DI-N-PROPYLAMINE	8270C	91	818		8,500 U	8,600 U	6,900 U	3,700 U
N-NITROSODIPHENYLAMINE	8270C	130,352	1,168,000		8,500 U	8,600 U	6,900 U	3,700 U
PENTACHLOROPHENOL	8270C	5,323	47,693		17,000 U	17,000 U	14,000 U	7,300 U
PHENANTHRENE	8270C	NE	NE		3,200 J	2,900 J	2,400 J	3,500 J
PHENOL	8270C	46,928,571	1,000,000,000		8,500 U	8,600 U	6,900 U	3,700 U
PYRENE	8270C	2,346,429	61,320,000		6,000 J	5,400 J	6,900 U	3,500 J

Table 3-2
(Continued)

Soil Sampling Analytical Results
Semivolatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Sample ID		157-A05-01-01	158-A11-01-01	160-A01-01-01
		Sample Date		8/22/2001	8/15/2001	8/22/2001
		Res Action Level	I/C Action Level			
1,2,4-TRICHLOROBENZENE	8270C	782,143	20,440,000	7,300 U	6,900 U	7,700 U
1,2-DICHLOROBENZENE	8270C	370,000	370,000	7,300 U	6,900 U	7,700 U
1,3-DICHLOROBENZENE	8270C	2,346,429	61,320,000	7,300 U	6,900 U	7,700 U
1,4-DICHLOROBENZENE	8270C	26,614	238,467	7,300 U	6,900 U	7,700 U
1-METHYLNAPHTHALENE	8270C	NE	NE	7,300 U	6,900 U	7,700 U
2,4,5-TRICHLOROPHENOL	8270C	7,821,429	204,400,000	7,300 U	6,900 U	7,700 U
2,4,6-TRICHLOROPHENOL	8270C	58,066	520,291	7,300 U	6,900 U	7,700 U
2,4-DICHLOROPHENOL	8270C	234,643	6,132,000	7,300 U	6,900 U	7,700 U
2,4-DIMETHYLPHENOL	8270C	1,564,286	40,880,000	7,300 U	6,900 U	7,700 U
2,4-DINITROPHENOL	8270C	156,429	4,088,000	35,000 U	34,000 U	37,000 U
2,4-DINITROTOLUENE	8270C	156,429	4,088,000	7,300 UJ	6,900 U	7,700 U
2,6-DINITROTOLUENE	8270C	78,214	2,044,000	7,300 U	6,900 U	7,700 U
2-CHLORONAPHTHALENE	8270C	6,257,143	163,520,000	7,300 U	6,900 U	7,700 U
2-CHLOROPHENOL	8270C	391,071	10,220,000	7,300 U	6,900 U	7,700 U
2-METHYLNAPHTHALENE	8270C	1,564,286	40,880,000	7,300 U	6,900 U	7,700 U
2-METHYLPHENOL	8270C	3,910,714	102,200,000	7,300 U	6,900 U	7,700 U
2-NITROANILINE	8270C	3,492	50,338	15,000 U	14,000 U	15,000 U
2-NITROPHENOL	8270C	NE	NE	7,300 U	6,900 U	7,700 U
3,3'-DICHLOROBENZIDINE	8270C	1,419	12,718	7,300 U	6,900 U	7,700 U
3,4-METHYLPHENOL	8270C	NE	NE	15,000 U	14,000 U	15,000 U
3-NITROANILINE	8270C	NE	NE	15,000 U	14,000 U	15,000 U
4,6-DINITRO-2-METHYLPHENOL	8270C	78,214	2,044,000	15,000 U	14,000 U	15,000 U
4-BROMOFLUOROBENZENE	8270C	NE	NE	---	---	---
4-BROMOPHENYL PHENYL ETHER	8270C	NE	NE	7,300 U	6,900 U	7,700 U
4-CHLORO-3-METHYLPHENOL	8270C	NE	NE	7,300 UJ	6,900 U	7,700 U
4-CHLOROANILINE	8270C	312,857	8,176,000	7,300 U	6,900 U	7,700 U
4-CHLOROPHENYL PHENYL ETHER	8270C	NE	NE	7,300 U	6,900 U	7,700 U
4-NITROANILINE	8270C	NE	NE	15,000 U	14,000 U	15,000 U
4-NITROPHENOL	8270C	625,714	16,352,000	15,000 UJ	14,000 U	15,000 U
ACENAPHTHENE	8270C	4,692,857	122,640,000	7,300 U	6,900 U	7,700 U
ACENAPHTHYLENE	8270C	NE	NE	7,300 U	6,900 U	7,700 U
ANTHRACENE	8270C	23,464,286	613,200,000	7,300 U	6,900 U	7,700 U
BENZO(A)ANTHRACENE	8270C	875	7,840	2,400 J	6,900 U	1,100 J
BENZO(A)PYRENE	8270C	87	784	7,300 U	6,900 U	7,700 U
BENZO(B)FLUORANTHENE	8270C	875	7,840	1,800 J	6,900 U	7,700 U

Table 3-2
(Continued)

Soil Sampling Analytical Results
Semivolatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	157-A05-01-01	158-A11-01-01	160-A01-01-01
				Sample Date	8/22/2001	8/15/2001	8/22/2001
BENZO(G,H,I)PERYLENE	8270C	NE	NE		7,300 U	6,900 U	7,700 U
BENZO(K)FLUORANTHENE	8270C	8,750	78,400		1,600 J	6,900 U	7,700 U
BENZOIC ACID	8270C	312,857,143	1,000,000,000		35,000 U	34,000 U	37,000 U
BENZYL ALCOHOL	8270C	23,464,286	613,200,000		7,300 U	6,900 U	7,700 U
BIS(2-CHLOROETHOXY)METHANE	8270C	NE	NE		7,300 U	6,900 U	7,700 U
BIS(2-CHLOROETHYL)ETHER	8270C	581	5,203		7,300 U	6,900 U	7,700 U
BIS(2-CHLOROISOPROPYL)ETHER	8270C	9,125	81,760		7,300 U	6,900 U	7,700 U
BIS(2-ETHYLHEXYL)PHTHALATE	8270C	45,623	408,800		7,300 U	6,900 U	7,700 U
BUTYL BENZYL PHTHALATE	8270C	15,642,857	408,800,000		7,300 U	6,900 U	7,700 U
CHRYSENE	8270C	87,497	784,000		2,900 J	6,900 U	1,400 J
DIBENZ(A,H)ANTHRACENE	8270C	87	784		7,300 U	6,900 U	7,700 U
DIBENZOFURAN	8270C	312,857	8,176,000		7,300 U	6,900 U	7,700 U
DIETHYLPHTHALATE	8270C	62,571,429	1,000,000,000		7,300 U	6,900 U	7,700 U
DIMETHYLPHTHALATE	8270C	782,142,857	1,000,000,000		7,300 U	6,900 U	7,700 U
DI-N-BUTYLPHTHALATE	8270C	7,821,429	204,400,000		7,300 U	6,900 U	7,700 U
DI-N-OCTYLPHTHALATE	8270C	1,564,286	40,880,000		7,300 U	6,900 U	7,700 U
FLUORANTHENE	8270C	3,128,571	81,760,000		4,900 J	1,500 J	2,700 J
FLUORENE	8270C	3,128,571	81,760,000		7,300 U	6,900 U	7,700 U
HEXACHLOROBENZENE	8270C	399	3,577		7,300 U	6,900 U	7,700 U
HEXACHLOROBUTADIENE	8270C	8,189	73,374		7,300 U	6,900 U	7,700 U
HEXACHLOROCYCLOPENTADIENE	8270C	469,286	12,264,000		7,300 U	6,900 U	7,700 U
HEXACHLOROETHANE	8270C	45,623	408,800		7,300 U	6,900 U	7,700 U
INDENO(1,2,3-CD)PYRENE	8270C	87	7,840		1,000 J	6,900 U	7,700 U
ISOPHORONE	8270C	672,343	6,024,421		7,300 U	6,900 U	7,700 U
NAPHTHALENE	8270C	1,564,286	40,880,000		7,300 U	6,900 U	7,700 U
NITROBENZENE	8270C	39,107	1,022,000		7,300 U	6,900 U	7,700 U
N-NITROSO-DI-N-PROPYLAMINE	8270C	91	818		7,300 U	6,900 U	7,700 U
N-NITROSODIPHENYLAMINE	8270C	130,352	1,168,000		7,300 U	6,900 U	7,700 U
PENTACHLOROPHENOL	8270C	5,323	47,693		15,000 UJ	14,000 U	15,000 U
PHENANTHRENE	8270C	NE	NE		3,200 J	710 J	1,500 J
PHENOL	8270C	46,928,571	1,000,000,000		7,300 U	6,900 U	7,700 U
PYRENE	8270C	2,346,429	61,320,000		3,900 J	1,300 J	2,000 J

Table 3-2
(Continued)

Soil Sampling Analytical Results
Semivolatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID: 173-A08-01-01 Sample Date: 8/24/2001	178-A03-01-01 8/22/2001	185-A04-02-01 8/16/2001
1,2,4-TRICHLOROBENZENE	8270C	782,143	20,440,000	7,300 U	8,500 U	3,500 U
1,2-DICHLOROBENZENE	8270C	370,000	370,000	7,300 U	8,500 U	3,500 U
1,3-DICHLOROBENZENE	8270C	2,346,429	61,320,000	7,300 U	8,500 U	3,500 U
1,4-DICHLOROBENZENE	8270C	26,614	238,467	7,300 U	8,500 U	3,500 U
1-METHYLNAPHTHALENE	8270C	NE	NE	7,300 U	8,500 U	3,500 U
2,4,5-TRICHLOROPHENOL	*8270C*	*7,821,429*	*204,400,000*	*7,300 U*	*8,500 U*	*3,500 U*
2,4,6-TRICHLOROPHENOL	8270C	58,066	520,291	7,300 U	8,500 U	3,500 U
2,4-DICHLOROPHENOL	8270C	234,643	6,132,000	7,300 U	8,500 U	3,500 U
2,4-DIMETHYLPHENOL	8270C	1,564,286	40,880,000	7,300 U	8,500 U	3,500 U
2,4-DINITROPHENOL	8270C	156,429	4,088,000	35,000 U	41,000 U	17,000 U
2,4-DINITROTOLUENE	8270C	156,429	4,088,000	7,300 UJ	8,500 U	3,500 U
2,6-DINITROTOLUENE	8270C	78,214	2,044,000	7,300 U	8,500 U	3,500 U
2-CHLORONAPHTHALENE	8270C	6,257,143	163,520,000	7,300 U	8,500 U	3,500 U
2-CHLOROPHENOL	8270C	391,071	10,220,000	7,300 U	8,500 U	3,500 U
2-METHYLNAPHTHALENE	8270C	1,564,286	40,880,000	7,300 U	8,500 U	3,500 U
2-METHYLPHENOL	8270C	3,910,714	102,200,000	7,300 U	8,500 U	3,500 U
2-NITROANILINE	8270C	3,492	50,338	15,000 U	17,000 U	7,100 U
2-NITROPHENOL	8270C	NE	NE	7,300 U	8,500 U	3,500 U
3,3'-DICHLOROBENZIDINE	8270C	1,419	12,718	7,300 U	8,500 U	3,500 U
3,4-METHYLPHENOL	8270C	NE	NE	15,000 U	17,000 U	7,100 U
3-NITROANILINE	8270C	NE	NE	15,000 U	17,000 U	7,100 U
4,6-DINITRO-2-METHYLPHENOL	8270C	78,214	2,044,000	15,000 U	17,000 U	7,100 U
4-BROMOFLUOROBENZENE	8270C	NE	NE	—	—	3,500 U
4-BROMOPHENYL PHENYL ETHER	8270C	NE	NE	7,300 U	8,500 U	—
4-CHLORO-3-METHYLPHENOL	8270C	NE	NE	7,300 U	8,500 U	3,500 U
4-CHLOROANILINE	8270C	312,857	8,176,000	7,300 U	8,500 U	3,500 U
4-CHLOROPHENYL PHENYL ETHER	8270C	NE	NE	7,300 U	8,500 U	3,500 U
4-NITROANILINE	8270C	NE	NE	15,000 U	17,000 U	7,100 U
4-NITROPHENOL	8270C	625,714	16,352,000	15,000 U	17,000 U	7,100 U
ACENAPHTHENE	8270C	4,692,857	122,640,000	7,300 U	8,500 U	3,500 U
ACENAPHTHYLENE	8270C	NE	NE	7,300 U	8,500 U	3,500 U
ANTHRACENE	8270C	23,464,286	613,200,000	7,300 U	8,500 U	3,500 U
BENZO(A)ANTHRACENE	8270C	875	7,840	7,300 U	8,500 U	3,500 U
BENZO(A)PYRENE	8270C	87	784	7,300 U	8,500 U	450 J
BENZO(B)FLUORANTHENE	8270C	875	7,840	7,300 U	8,500 U	3,500 U

Table 3-2
(Continued)

Soil Sampling Analytical Results
Semivolatile Organic Compounds
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-A08-01-01	178-A03-01-01	185-A04-02-01
				Sample Date	8/24/2001	8/22/2001	8/16/2001
BENZO(G,H,I)PERYLENE	8270C	NE	NE		7,300 U	8,500 U	3,500 U
BENZO(K)FLUORANTHENE	8270C	8,750	78,400		7,300 U	8,500 U	3,500 U
BENZOIC ACID	8270C	312,857,143	1,000,000,000		35,000 U	41,000 U	17,000 U
BENZYL ALCOHOL	8270C	23,464,286	613,200,000		7,300 U	8,500 U	3,500 U
BIS(2-CHLOROETHOXY)METHANE	8270C	NE	NE		7,300 U	8,500 U	3,500 U
BIS(2-CHLOROETHYL)ETHER	8270C	581	5,203		7,300 U	8,500 U	3,500 U
BIS(2-CHLOROISOPROPYL)ETHER	8270C	9,125	81,760		7,300 U	8,500 U	3,500 U
BIS(2-ETHYLHEXYL)PHTHALATE	8270C	45,623	408,800		7,300 U	8,500 U	3,500 U
BUTYL BENZYL PHTHALATE	8270C	15,642,857	408,800,000		7,300 U	8,500 U	3,500 U
CHRYSENE	8270C	87,497	784,000		7,300 U	8,500 U	530 J
DIBENZ(A,H)ANTHRACENE	8270C	87	784		7,300 U	8,500 U	3,500 U
DIBENZOFURAN	8270C	312,857	8,176,000		7,300 U	8,500 U	3,500 U
DIETHYLPHTHALATE	8270C	62,571,429	1,000,000,000		7,300 U	8,500 U	3,500 U
DIMETHYLPHTHALATE	8270C	782,142,857	1,000,000,000		7,300 U	8,500 U	3,500 U
DI-N-BUTYLPHTHALATE	8270C	7,821,429	204,400,000		7,300 U	8,500 U	3,500 U
DI-N-OCTYLPHTHALATE	8270C	1,564,286	40,880,000		7,300 U	8,500 U	3,500 U
FLUORANTHENE	8270C	3,128,571	81,760,000		7,300 U	8,500 U	750 J
FLUORENE	8270C	3,128,571	81,760,000		7,300 U	8,500 U	3,500 U
HEXACHLOROBENZENE	8270C	399	3,577		7,300 U	8,500 U	3,500 U
HEXACHLOROBUTADIENE	8270C	8,189	73,374		7,300 U	8,500 U	3,500 U
HEXACHLOROCYCLOPENTADIENE	8270C	469,286	12,264,000		7,300 U	8,500 U	3,500 U
HEXACHLOROETHANE	8270C	45,623	408,800		7,300 U	8,500 U	3,500 U
INDENO(1,2,3-CD)PYRENE	8270C	87	7,840		7,300 U	8,500 U	3,500 U
ISOPHORONE	8270C	672,343	6,024,421		7,300 U	8,500 U	3,500 U
NAPHTHALENE	8270C	1,564,286	40,880,000		7,300 U	8,500 U	3,500 U
NITROBENZENE	8270C	39,107	1,022,000		7,300 U	8,500 U	3,500 U
N-NITROSO-DI-N-PROPYLAMINE	8270C	91	818		7,300 U	8,500 U	3,500 U
N-NITROSODIPHENYLAMINE	8270C	130,352	1,168,000		7,300 U	8,500 U	3,500 U
PENTACHLOROPHENOL	8270C	5,323	47,693		15,000 UJ	17,000 U	7,100 U
PHENANTHRENE	8270C	NE	NE		7,300 U	8,500 U	3,500 U
PHENOL	8270C	46,928,571	1,000,000,000		7,300 U	8,500 U	3,500 U
PYRENE	8270C	2,346,429	61,320,000		7,300 UJ	1,400 J	710 J

-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-3

Soil Sampling Analytical Results
Pesticides
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Sample ID		121-A02-01-01	136-A08-03-01	136-A08-03-01 DP	141-A02-01-01	143-A04-01-01
		Sample Date		8/20/2001	8/15/2001	8/15/2001	8/20/2001	11/16/2001
		Rec Action Level	I/C Action Level					
4,4-DDD	8081A	2,661	23,847	72 U	180 U	180 U	68 U	21 U
4,4-DDE	8081A	1,879	16,833	36 U	180 U	180 U	34 U	21 U
4,4-DDT	8081A	1,879	16,833	140 U	360 U	350 U	132 U	13 J
ALDRIN	8081A	38	337	36 U	180 U	180 U	34 U	21 U
ALPHA-BHC	8081A	101	908	36 U	180 U	180 U	34 U	21 U
ALPHA-ENDOSULFAN	8081A	NE	NE	36 U	180 U	180 U	34 U	21 U
BETA-BHC	8081A	355	3,180	36 U	180 U	180 U	34 U	21 U
BETA-ENDOSULFAN	8081A	NE	NE	36 U	180 U	180 U	34 U	21 U
DELTA-BHC	8081A	NE	NE	36 U	180 U	180 U	34 U	21 U
DIELDRIN	8081A	40	358	77	180 U	180 U	36	140
ENDOSULFAN SULFATE	8081A	NE	NE	36 U	180 U	180 U	34 U	21 U
ENDRIN	8081A	23,464	613,200	36 U	180 U	180 U	34 U	21 U
ENDRIN ALDEHYDE	8081A	NE	NE	36 U	180 U	180 U	34 U	21 U
ENDRIN KETONE	8081A	NE	NE	36 U	180 U	180 U	34 U	21 U
GAMMA-BHC (LINDANE)	8081A	491	4,402	36 U	180 U	180 U	34 U	21 U
HEPTACHLOR	8081A	142	1,272	36 U	180 U	180 U	34 U	21 U
HEPTACHLOR EPOXIDE	8081A	70	629	36 U	180 U	180 U	34 U	21 U
METHOXYCHLOR	8081A	391,071	10,220,000	360 U	900 U	890 U	340 U	100 U
TOTAL CHLORDANE-TECHNICAL	8081A	NE	NE	360 U	1,800 U	1,800 U	340 U	210 U
TOXAPHENE	8081A	581	5,203	1,800 U	9,000 U	8,900 U	1,700 U	1,000 U

Table 3-3
(Continued)

Soil Sampling Analytical Results
Pesticides
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Rec Action Level	Sample ID / Sample Date / I/C Action Level	145-A01-01-01 8/22/2001	145-A01-01-01 DP 8/22/2001	145-F05-01-01 8/16/2001	155-A06-01-01 8/15/2001
4,4-DDD	8081A	2,661	23,847	21 U	22 U	170 U	18 U
4,4-DDE	8081A	1,879	16,833	21 U	22 U	170 U	18 U
4,4-DDT	8081A	1,879	16,833	430 U	430 U	340 U	37 U
ALDRIN	8081A	38	337	21 U	22 U	170 U	18 U
ALPHA-BHC	8081A	101	908	21 U	22 U	170 U	18 U
ALPHA-ENDOSULFAN	8081A	NE	NE	21 U	22 U	170 U	18 U
BETA-BHC	8081A	355	3,180	21 U	22 U	170 U	18 U
BETA-ENDOSULFAN	8081A	NE	NE	21 U	22 U	170 U	18 U
DELTA-BHC	8081A	NE	NE	21 U	22 U	170 U	18 U
DIELDRIN	8081A	40	358	21 U	22 U	170 U	32 J
ENDOSULFAN SULFATE	8081A	NE	NE	21 U	22 U	170 U	18 U
ENDRIN	8081A	23,464	613,200	21 U	22 U	170 U	18 U
ENDRIN ALDEHYDE	8081A	NE	NE	21 U	22 U	170 U	18 U
ENDRIN KETONE	8081A	NE	NE	21 U	22 U	170 U	18 U
GAMMA-BHC (LINDANE)	8081A	491	4,402	21 U	22 U	170 U	18 U
HEPTACHLOR	8081A	142	1,272	21 U	22 U	170 U	18 U
HEPTACHLOR EPOXIDE	8081A	70	629	21 U	22 U	170 U	18 U
METHOXYCHLOR	8081A	391,071	10,220,000	1,100 U	1,100 U	860 U	92 U
TOTAL CHLORDANE-TECHNICAL	8081A	NE	NE	210 U	220 U	1,700 U	180 U
TOXAPHENE	8081A	581	5,203	1,100 U	1,100 U	8,600 U	920 U

Table 3-3
(Continued)

Soil Sampling Analytical Results
Pesticides
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Sample ID		157-A05-01-01	158-A11-01-01	160-A01-01-01
		Sample Date		8/22/2001	8/15/2001	8/22/2001
		Rec Action Level	I/C Action Level			
4,4-DDD	8081A	2,661	23,847	92 U	17 U	240 J
4,4-DDE	8081A	1,879	16,833	260	6 J	890
4,4-DDT	8081A	1,879	16,833	410	34 U	2,800
ALDRIN	8081A	38	337	92 U	17 U	380 U
ALPHA-BHC	8081A	101	908	92 U	17 U	380 U
ALPHA-ENDOSULFAN	8081A	NE	NE	92 U	17 U	380 U
BETA-BHC	8081A	355	3,180	92 U	17 U	380 U
BETA-ENDOSULFAN	8081A	NE	NE	92 U	17 U	380 U
DELTA-BHC	8081A	NE	NE	92 U	17 U	380 U
DIELDRIN	8081A	40	358	92 U	51 J	380 U
ENDOSULFAN SULFATE	8081A	NE	NE	92 U	17 U	380 U
ENDRIN	8081A	23,464	613,200	92 U	17 U	380 U
ENDRIN ALDEHYDE	8081A	NE	NE	92 U	17 U	380 U
ENDRIN KETONE	8081A	NE	NE	92 U	17 U	380 U
GAMMA-BHC (LINDANE)	8081A	491	4,402	92 U	17 U	380 U
HEPTACHLOR	8081A	142	1,272	92 U	17 U	380 U
HEPTACHLOR EPOXIDE	8081A	70	629	92 U	17 U	380 U
METHOXYCHLOR	8081A	391,071	10,220,000	920 U	86 U	1,900 U
TOTAL CHLORDANE-TECHNICAL	8081A	NE	NE	920 U	170 U	3,800 U
TOXAPHENE	8081A	581	5,203	4,600 U	860 U	19,000 U

Table 3-3
(Continued)

Soil Sampling Analytical Results
Pesticides
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Sample ID		173-A08-01-01	178-A03-01-01	185-A04-02-01
		Sample Date		8/24/2001	8/22/2001	8/16/2001
		Res Action Level	I/C Action Level			
4,4-DDD	8081A	2,661	23,847	92 U	21 U	180 U
4,4-DDE	8081A	1,879	16,833	92 U	10 J	180 U
4,4-DDT	8081A	1,879	16,833	55 J	420 U	350 U
ALDRIN	8081A	38	337	92 U	21 U	180 U
ALPHA-BHC	8081A	101	908	92 U	21 U	180 U
ALPHA-ENDOSULFAN	8081A	NE	NE	92 UJ	21 U	180 U
BETA-BHC	8081A	355	3,180	92 U	21 U	180 U
BETA-ENDOSULFAN	8081A	NE	NE	92 UJ	21 U	180 U
DELTA-BHC	8081A	NE	NE	92 U	21 U	180 U
DIELDRIN	8081A	40	358	**1,000**	220	180 U
ENDOSULFAN SULFATE	8081A	NE	NE	92 U	21 U	180 U
ENDRIN	8081A	23,464	613,200	92 UJ	21 U	180 U
ENDRIN ALDEHYDE	8081A	NE	NE	92 U	21 U	180 U
ENDRIN KETONE	8081A	NE	NE	92 U	21 U	180 U
GAMMA-BHC (LINDANE)	8081A	491	4,402	92 U	21 U	180 U
HEPTACHLOR	8081A	142	1,272	92 UJ	21 U	180 U
HEPTACHLOR EPOXIDE	8081A	70	629	92 U	5 J	180 U
METHOXYCHLOR	8081A	391,071	10,220,000	460 U	110 U	890 U
TOTAL CHLORDANE-TECHNICAL	8081A	NE	NE	920 U	100 J	1,800 U
TOXAPHENE	8081A	581	5,203	4,600 U	1,100 U	8,900 U

U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-4

Soil Sampling Analytical Results
Polychlorinated Biphenyls
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Sample ID		121-A02-01-01	136-A08-03-01	136-A08-03-01DP	141-A02-01-01	143-A04-01-01
		Sample Date		8/20/2001	8/15/2001	8/15/2001	8/20/2001	11/16/2001
		Res Action Level	I/C Action Level					
AROCLOR-1016	8082	5,475	81,760	18 U	110 J	110 J	17 U	21 U
AROCLOR-1221	8082	319	2,862	35 U	360 U	350 U	33 U	21 U
AROCLOR-1232	8082	319	2,862	35 U	360 U	350 U	33 U	21 U
AROCLOR-1242	8082	319	2,862	18 U	180 U	180 U	17 U	21 U
AROCLOR-1248	8082	319	2,862	18 U	180 U	180 U	17 U	21 U
AROCLOR-1254	8082	319	2,862	18 U	180 U	180 U	17 U	21 U
AROCLOR-1260	8082	319	2,862	60 J	850 J	1100 J	40 J	21

Table 3-4
(Continued)

Soil Sampling Analytical Results
Polychlorinated Biphenyls
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-A01-01-01	145-A01-01-01 DP	145-F05-01-01	155-A06-01-01
				Sample Date	8/22/2001	8/22/2001	8/16/2001	8/15/2001
AROCLOR-1016	8082	5,475	81,760		21 U	110 U	17 U	18 U
AROCLOR-1221	8082	319	2,862		43 U	220 U	34 U	37 U
AROCLOR-1232	8082	319	2,862		43 U	220 U	34 U	37 U
AROCLOR-1242	8082	319	2,862		21 U	110 U	17 U	18 U
AROCLOR-1248	8082	319	2,862		21 U	110 U	17 U	18 U
AROCLOR-1254	8082	319	2,862		21 U	110 U	17 U	18 U
AROCLOR-1260	8082	319	2,862		370 J	690 J	10 J	41

Table 3-4
(Continued)

Soil Sampling Analytical Results
Polychlorinated Biphenyls
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Sample ID		157-A05-01-01	158-A11-01-01	160-A01-01-01
		Sample Date		8/22/2001	8/15/2001	8/22/2001
		Res Action Level	I/C Action Level			
AROCLOR-1016	8082	5,475	81,760	18 U	5.3 J	19 U
AROCLOR-1221	8082	319	2,862	37 U	34 U	38 U
AROCLOR-1232	8082	319	2,862	37 U	34 U	38 U
AROCLOR-1242	8082	319	2,862	18 U	17 U	19 U
AROCLOR-1248	8082	319	2,862	18 U	17 U	19 U
AROCLOR-1254	8082	319	2,862	18 U	17 U	19 U
AROCLOR-1260	8082	319	2,862	200 J	31	220 J

Table 3-4
(Continued)

Soil Sampling Analytical Results
Polychlorinated Biphenyls
Mississippi River Gateway Initiative
East St. Louis, Illinois
(µg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-A08-01-01	178-A03-01-01	185-A04-02-01
				Sample Date	8/24/2001	8/22/2001	8/16/2001
AROCLOR-1016	8082	5,475	81,760		18 U	21 U	18 U
AROCLOR-1221	8082	319	2,862		37 U	42 U	35 U
AROCLOR-1232	8082	319	2,862		37 U	42 U	35 U
AROCLOR-1242	8082	319	2,862		18 U	21 U	18 U
AROCLOR-1248	8082	319	2,862		18 U	21 U	18 U
AROCLOR-1254	8082	319	2,862		18 U	21 U	18 U
AROCLOR-1260	8082	319	2,862		170 J	100	18 U

U- Constituent not detected. Detection limit indicated.
J- Estimated value.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances

Table 3-5

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-A01-01-01	121-A01-02-01	121-A02-01-01	121-A02-02-01	121-A03-01-01
				Sample Date	8/20/2001	8/20/2001	8/20/2001	8/20/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	18	33	—	—
ARSENIC	XRF	230	6,100		62.85 U	50.4 U	82.35 U	73.6	47.85 U
BARIUM	6010B	55,000	1,000,000		—	330	400	—	—
CADMIUM	6010B	390	10,000		—	4.9	18	—	—
CHROMIUM	6010B	3,900	1,000,000		—	20	430	—	—
CHROMIUM	XRF	3,900	1,000,000		1,510	424	1,370	1,484 U	1,240
COBALT	XRF	47,000	1,000,000		630 U	495 U	540 U	825	375 U
COPPER	XRF	31,000	820,000		150 U	102 U	210 U	180 U	129 U
IRON	XRF	230,000	1,000,000		28,595	25,498	30,592	65,075	20,288
LEAD	6010B	400	400		—	**490**	**850**	—	—
LEAD	XRF	400	400		369	302	**1,100**	272	**435**
MANGANESE	XRF	18,000	470,000		1,950 U	1,484 U	1,800 U	2,549 U	1,200 U
MERCURY	7471A	NE	NE		—	0.31 J	0.4 J	—	—
MERCURY	XRF	NE	NE		24.75 U	18.9 U	35.4 U	25.5 U	19.05 U
MOLYBDENUM	XRF	391	10,220		13.2 U	10.95 U	12.75 U	19.4	10.8 U
NICKEL	XRF	16,000	410,000		278.8	195 U	300 U	375 U	258.8
RUBIDIUM	XRF	NE	NE		51.3	86	36.9 U	103.3	60.1
SELENIUM	6010B	3,900	100,000		—	25	38	—	—
SILVER	6010B	3,900	100,000		—	5.6 U	3.3 J	—	—
STRONTIUM	XRF	46,924	100,000		86.2	84.2	103.6	106.6	71
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		496	287	1,080	432	475
ZIRCONIUM	XRF	NE	NE		99.1	112.3	44	84.4	94.2

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	121-A03-01-02 10/8/2001	121-A03-02-01 10/8/2001	121-A03-03-01 10/8/2001	121-A04-01-01 10/8/2001	121-B01-01-01 8/17/2001
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	49.05 U	58.8 U	33.3 U	30.9 U	39.9 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	1,210	1,960	660 U	360 U	996
COBALT	XRF	47,000	1,000,000	360 U	600 U	345 U	345 U	495 U
COPPER	XRF	31,000	820,000	120 U	210 U	102 U	85 U	122 U
IRON	XRF	230,000	1,000,000	19,098	43,878	16,896	8,467	20,198
LEAD	6010B	400	400	—	—	—	—	190
LEAD	XRF	400	400	**470**	**564**	110	52	48 U
MANGANESE	XRF	18,000	470,000	1,155 U	1,950 U	1,080 U	1,040	1,650 U
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	20.25 U	26.7 U	16.05 U	13.05 U	18.3 U
MOLYBDENUM	XRF	391	10,220	10.5 U	17.4	10.65 U	—	14.1 U
NICKEL	XRF	16,000	410,000	195 U	432	180 U	180 U	253.4
RUBIDIUM	XRF	NE	NE	64.8	87.8	78.3	98	58.8
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	68.9	83	80.8	85.3	112.9
URANIUM	XRF	16	409	—	—	—	22.65 U	—
ZINC	XRF	230,000	1,000,000	395	1,880	246	113	230
ZIRCONIUM	XRF	NE	NE	83.2	78.4	129.7	59.1	242

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-B02-01-01	121-C01-01-01	121-C02-01-01	121-C03-01-01	121-C04-01-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		52.35 U	38.25 U	66 U	69.3 U	70.05 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,620	1,240	1,270	735	1,430
COBALT	XRF	47,000	1,000,000		630 U	525 U	735 U	825 U	825 U
COPPER	XRF	31,000	820,000		145 U	114 U	180 U	180 U	235
IRON	XRF	230,000	1,000,000		24,896	22,899	24,794	35,482	44,288
LEAD	6010B	400	400		—	—	—	—	**520**
LEAD	XRF	400	400		104	45 U	140	269	340
MANGANESE	XRF	18,000	470,000		2,100 U	1,650 U	2,400 U	2,549 U	2,700 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		20.85 U	17.25 U	28.2 U	29.25 U	33.5
MOLYBDENUM	XRF	391	10,220		16.65 U	13.65 U	18.15 U	16.5 U	19.4
NICKEL	XRF	16,000	410,000		378.4	294.8	330 U	345 U	608.8
RUBIDIUM	XRF	NE	NE		45.9	77.3	72.1	65	80.6
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		74.1	73.9	55.1	72.2	56.9
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		170	161	283	321	643
ZIRCONIUM	XRF	NE	NE		158.5	186.7	96	57.2	45.1

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-D01-01-01	121-D02-01-01	121-E01-01-01	121-E02-01-01	121-E02-03-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		42 U	62.25 U	59.25 U	205.2	43.65 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,320	1,450	885 U	1,215 U	735 U
COBALT	XRF	47,000	1,000,000		555 U	1,380 U	1,050 U	1,510	870 U
COPPER	XRF	31,000	820,000		114 U	300 U	255 U	465 U	210 U
IRON	XRF	230,000	1,000,000		25,690	24,998	16,896	27,392	13,197
LEAD	6010B	400	400		—	240	—	**1,900**	—
LEAD	XRF	400	400		91	167	280	**3,299**	75
MANGANESE	XRF	18,000	470,000		1,800 U	9,000 U	6,898 U	9,600 U	5,698 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		16.65 U	41.55 U	39.15 U	98.85 U	28.95 U
MOLYBDENUM	XRF	391	10,220		12.6 U	12.3 U	11.55 U	11.7 U	9.45 U
NICKEL	XRF	16,000	410,000		331.2	510 U	405 U	600 U	330 U
RUBIDIUM	XRF	NE	NE		96.8	96.1	68.5	74.1	93.1
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		80.5	68.3	100.3	110.8	72.6
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		166	314	201	1,949	218
ZIRCONIUM	XRF	NE	NE		101.1	63.3	159.7	58.8	72

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-E02-04-01	121-F01-01-01	121-F02-01-01	121-F03-01-01	121-F04-01-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		62.7 U	45.45 U	49.95 U	53.7 U	51.15 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		870 U	735 U	810 U	870 U	765 U
COBALT	XRF	47,000	1,000,000		1,540	885 U	1,080	1,035 U	1,040
COPPER	XRF	31,000	820,000		255 U	210 U	225 U	255 U	240 U
IRON	XRF	230,000	1,000,000		17,600	11,699	14,195	13,888	12,698
LEAD	6010B	400	400		**640**	—	—	—	250
LEAD	XRF	400	400		**443**	65	154	113	184
MANGANESE	XRF	18,000	470,000		6,898 U	5,846 U	6,298 U	6,749 U	6,000 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		41.25 U	31.2 U	34.5 U	36.45 U	33.45 U
MOLYBDENUM	XRF	391	10,220		9.9 U	10.8 U	10.35 U	11.55 U	9.9 U
NICKEL	XRF	16,000	410,000		390 U	345 U	360 U	405 U	375 U
RUBIDIUM	XRF	NE	NE		73	64.4	70.4	86.5	80.4
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		87.1	78.4	78.6	77.3	82.7
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		401	141	222	216	350
ZIRCONIUM	XRF	NE	NE		66.9	154.4	133.3	122.9	112.1

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID Sample Date 121-G01-01-01 8/17/2001	121-G01-02-01 8/17/2001	121-G01-03-01 8/17/2001	121-G02-01-01 8/17/2001	121-G03-01-01 8/17/2001
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	98.8	111.3 U	60.3 U	44.55 U	46.35 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	1,360	2,450	1,540	1,640	788
COBALT	XRF	47,000	1,000,000	630 U	705 U	555 U	585 U	480 U
COPPER	XRF	31,000	820,000	150 U	7,290	2,749	135 U	107 U
IRON	XRF	230,000	1,000,000	30,080	34,278	22,195	24,589	20,096
LEAD	6010B	400	400	**1,300**	**1,100**	—	—	—
LEAD	XRF	400	400	**971**	**584**	50 U	67	188
MANGANESE	XRF	18,000	470,000	1,950 U	2,100 U	1,650 U	1,950 U	1,500 U
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	32.55 U	1640	682	18.75 U	17.4 U
MOLYBDENUM	XRF	391	10,220	13.5 U	13.65 U	12.6 U	15.15 U	12.3 U
NICKEL	XRF	16,000	410,000	341.2	495 U	345 U	255 U	227.6
RUBIDIUM	XRF	NE	NE	47	39.75 U	57.8	46.9	79.7
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	99	17.25 U	39.4	77.4	81.1
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	516	4,378	1,770	129	217
ZIRCONIUM	XRF	NE	NE	96.4	99	82.7	185.6	105.3

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-G04-01-01	121-G05-01-01	121-H01-01-01	121-H02-01-01	121-H03-01-01
				Sample Date	8/17/2001	10/8/2001	8/20/2001	8/20/2001	8/20/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		40.95 U	42.6 U	53.4 U	68.25 U	49.65 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		383	435 U	1,939	1,850	1,090
COBALT	XRF	47,000	1,000,000		480 U	420 U	585 U	690 U	795 U
COPPER	XRF	31,000	820,000		103 U	97 U	889	1,880	144 U
IRON	XRF	230,000	1,000,000		19,597	12,294	26,099	24,896	46,694
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		61	229	54 U	60 U	93
MANGANESE	XRF	18,000	470,000		1,500 U	1,050	1,950 U	2,100 U	2,400 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		16.65 U	18.15 U	237.8	498.8	19.2 U
MOLYBDENUM	XRF	391	10,220		13.05 U	—	13.35 U	17.6	13.95 U
NICKEL	XRF	16,000	410,000		195 U	225 U	285 U	375 U	315 U
RUBIDIUM	XRF	NE	NE		77.9	74.6	90.8	43.35 U	104.6
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		82	67	74.4	48	106.5
URANIUM	XRF	16	409		—	26.85 U		—	—
ZINC	XRF	230,000	1,000,000		179	188	818	1,380	291
ZIRCONIUM	XRF	NE	NE		164.7	126.9	120.5	102.4	86.6

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date: 121-H04-01-01 8/20/2001	121-H04-01-01 DP 8/20/2001	121-H05-01-01 10/8/2001	121-H05-01-02 10/8/2001	121-I01-01-01 8/20/2001
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	52.35 U	—	34.35 U	31.35 U	53.55 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	2,299	—	1,140	739	1,800
COBALT	XRF	47,000	1,000,000	510 U	—	315 U	285 U	570 U
COPPER	XRF	31,000	820,000	180 U	—	110 U	90 U	300
IRON	XRF	230,000	1,000,000	24,294	—	13,990	14,490	27,597
LEAD	6010B	400	400	98	93	—	—	—
LEAD	XRF	400	400	235	—	120	133	187
MANGANESE	XRF	18,000	470,000	1,650 U	—	1,020 U	900 U	1,800 U
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	25.05 U	—	15.75 U	14.4 U	59.1
MOLYBDENUM	XRF	391	10,220	13.95 U	—	12	9 U	12.45 U
NICKEL	XRF	16,000	410,000	377.2	—	234.2	150 U	287.4
RUBIDIUM	XRF	NE	NE	80.6	—	62.5	57.2	95
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	125.4	—	57.2	65.3	71.3
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	533	—	198	213	560
ZIRCONIUM	XRF	NE	NE	74.4	—	79.3	95.8	83.1

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-I02-01-01	121-I03-01-01	121-I04-01-01	121-I04-01-01 DP	121-I05-01-01
				Sample Date	8/20/2001	8/20/2001	8/20/2001	8/20/2001	8/20/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		48.75 U	52.95 U	48.15 U	—	59.6
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		946	405 U	2,640	—	1,890
COBALT	XRF	47,000	1,000,000		495 U	585 U	450 U	—	675 U
COPPER	XRF	31,000	820,000		1,330	137 U	142 U	—	143 U
IRON	XRF	230,000	1,000,000		19,789	20,800	21,798	—	34,483
LEAD	6010B	400	400		—	—	300	300	—
LEAD	XRF	400	400		45 U	110	221	—	51 U
MANGANESE	XRF	18,000	470,000		1,500 U	1,800 U	1,454 U	—	2,100 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		360.8	20.85 U	21.3 U	—	18.9 U
MOLYBDENUM	XRF	391	10,220		13.2 U	14.4 U	23	—	12.45 U
NICKEL	XRF	16,000	410,000		270 U	255 U	246	—	285 U
RUBIDIUM	XRF	NE	NE		70	78	108.8	—	78.5
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		88.7	97.4	82	—	89.1
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		817	231	274	—	398
ZIRCONIUM	XRF	NE	NE		146	67.2	121	—	41.1

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	121-I06-01-01 8/20/2001	121-I07-01-01 8/20/2001	121-I08-01-01 8/20/2001	121-I09-01-01 8/20/2001	121-I10-01-01 10/8/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		62.1 U	50.85 U	49.95 U	45.15 U	26.4 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		2,920	1,949	1,450	1,160	943
COBALT	XRF	47,000	1,000,000		915 U	570 U	585 U	555 U	270 U
COPPER	XRF	31,000	820,000		195 U	556	130 U	165 U	90 U
IRON	XRF	230,000	1,000,000		47,078	26,291	25,894	22,093	10,995
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		132	91	126	52 U	38 U
MANGANESE	XRF	18,000	470,000		2,849 U	1,800 U	1,800 U	1,800 U	885 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		29.55 U	135.3	20.55 U	21 U	13.05 U
MOLYBDENUM	XRF	391	10,220		16.65 U	12.9 U	13.35 U	13.95 U	10.5 U
NICKEL	XRF	16,000	410,000		684	270 U	315.2	298	155
RUBIDIUM	XRF	NE	NE		64.9	80.1	100.9	63.8	66.2
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		93.7	55.1	58.5	62.1	109.3
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		524	570	283	808	75
ZIRCONIUM	XRF	NE	NE		46.4	72.9	100.5	83.5	170.1

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-I10-01-02	121-I11-01-01	121-J01-01-01	121-J02-01-01	121-K01-01-01
				Sample Date	10/8/2001	10/8/2001	8/20/2001	8/20/2001	8/20/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		33.6 U	37.8 U	48 U	48.75 U	46.95 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,220	420 U	1,859	855 U	3,549
COBALT	XRF	47,000	1,000,000		345 U	405 U	480 U	495	631
COPPER	XRF	31,000	820,000		117 U	96 U	165 U	150 U	180 U
IRON	XRF	230,000	1,000,000		12,595	11,597	18,688	11,795	24,397
LEAD	6010B	400	400		—	—	—	49	—
LEAD	XRF	400	400		48 U	142	138	182	116
MANGANESE	XRF	18,000	470,000		1,140 U	1,440	2,339	2,120	2,499
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		15.75 U	15.6 U	24 U	23.4 U	22.05 U
MOLYBDENUM	XRF	391	10,220		14.8	—	25.6	18.8	27.7
NICKEL	XRF	16,000	410,000		195 U	210 U	408.8	225 U	495.6
RUBIDIUM	XRF	NE	NE		76.8	71.55 U	86.7	87.5	90.2
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		96.9	55.8	91.5	62.6	71.1
URANIUM	XRF	16	409		—	26.25 U	—	—	—
ZINC	XRF	230,000	1,000,000		67	253	260	373	330
ZIRCONIUM	XRF	NE	NE		152.4	79.8	143.9	128.2	103.2

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	121-K02-01-01 8/20/2001	121-K02-01-01 DP 8/20/2001	121-L01-01-01 8/20/2001	121-L02-01-01 8/20/2001	121-M01-01-01 8/20/2001
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	44.85 U	—	55.2 U	63 U	40.2 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	1,090	—	2,219	1,739	948
COBALT	XRF	47,000	1,000,000	420 U	—	675 U	690 U	580
COPPER	XRF	31,000	820,000	144 U	—	244	165 U	132 U
IRON	XRF	230,000	1,000,000	19,699	—	29,978	28,877	18,291
LEAD	6010B	400	400	220	230	—	**500**	200
LEAD	XRF	400	400	177	—	122	235	171
MANGANESE	XRF	18,000	470,000	1,470	—	2,100 U	2,250 U	3,459
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	21.6 U	—	53.1	25.5 U	18 U
MOLYBDENUM	XRF	391	10,220	13.5	—	20.2	16.05 U	11.85 U
NICKEL	XRF	16,000	410,000	240 U	—	495.6	300 U	225 U
RUBIDIUM	XRF	NE	NE	93.9	—	65.6	87.1	98.4
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	72.2	—	63.7	78.4	65.9
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	335	—	460	454	330
ZIRCONIUM	XRF	NE	NE	95.9	—	82.3	101.9	89.7

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-M01-01-01 DP	121-M02-01-01	121-N01-01-01	121-N02-01-01	121-O01-01-01
				Sample Date	8/20/2001	8/20/2001	8/20/2001	8/20/2001	8/20/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		—	46.8 U	96.45 U	67.65 U	38.25 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		—	387	3,328	4,579	900 U
COBALT	XRF	47,000	1,000,000		—	510 U	915 U	2,210	795
COPPER	XRF	31,000	820,000		—	122 U	6,746	285 U	133 U
IRON	XRF	230,000	1,000,000		—	22,195	42,086	65,792	16,090
LEAD	6010B	400	400		200	—	—	120	270
LEAD	XRF	400	400		—	142	66 U	117	134
MANGANESE	XRF	18,000	470,000		—	1,650 U	2,849 U	9,856	4,378
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		—	18.45 U	1540	31.8 U	18.6 U
MOLYBDENUM	XRF	391	10,220		—	12.9 U	17.7 U	61.1	17.1
NICKEL	XRF	16,000	410,000		—	230	585 U	585 U	210 U
RUBIDIUM	XRF	NE	NE		—	82.2	50.55 U	132.8	85
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		—	79.3	19.5 U	85.6	77.7
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		—	358	3,859	356	344
ZIRCONIUM	XRF	NE	NE		—	124.6	106.9	93	117.4

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-O02-01-01	121-P01-01-01	121-P02-01-01	121-Q01-01-01
				Sample Date	8/20/2001	8/20/2001	8/20/2001	8/20/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		240 U	48.3 U	52.65 U	57.3 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		5,949	1,050 U	1,390	2,819
COBALT	XRF	47,000	1,000,000		4,778	554	600 U	1,130
COPPER	XRF	31,000	820,000		33,690	165 U	134 U	225 U
IRON	XRF	230,000	1,000,000		91,853	21,299	28,698	33,178
LEAD	6010B	400	400		—	—	430	170
LEAD	XRF	400	400		131 U	160	170	115
MANGANESE	XRF	18,000	470,000		5,246 U	2,339	1,950 U	4,979
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		7520	22.65 U	21.15 U	27.3 U
MOLYBDENUM	XRF	391	10,220		23.25 U	18.4	13.5 U	26.9
NICKEL	XRF	16,000	410,000		1470 U	270 U	255 U	575.6
RUBIDIUM	XRF	NE	NE		64.95 U	77.9	92.3	76
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		29.85 U	95.2	99.5	74.4
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		19,494	257	350	236
ZIRCONIUM	XRF	NE	NE		78.1	129.2	117.4	85.9

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	121-Q02-01-01	121-R01-01-01	121-S01-01-01	121-S02-01-01
				Sample Date	8/20/2001	10/8/2001	10/8/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		50.4 U	45.45 U	35.85 U	39 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		878	510 U	405 U	420 U
COBALT	XRF	47,000	1,000,000		675 U	510 U	404	420 U
COPPER	XRF	31,000	820,000		143 U	109 U	91 U	94 U
IRON	XRF	230,000	1,000,000		32,589	17,498	10,400	11,398
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		101	231	91	139
MANGANESE	XRF	18,000	470,000		2,100 U	1,240	965	960 U
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		21.3 U	18.3 U	14.4 U	15.6 U
MOLYBDENUM	XRF	391	10,220		14.4 U	—	—	—
NICKEL	XRF	16,000	410,000		285 U	255 U	210 U	210 U
RUBIDIUM	XRF	NE	NE		95.7	117.5	73.65 U	88.3
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		60.1	70.4	106.4	104.3
URANIUM	XRF	16	409		—	27.45 U	27 U	26.85 U
ZINC	XRF	230,000	1,000,000		241	281	170	143
ZIRCONIUM	XRF	NE	NE		57.3	104.8	130.3	123.4

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	121-T01-01-01 10/8/2001	121-U01-01-01 10/8/2001	121-U01-02-01 10/8/2001	121-U02-01-01 10/8/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		31.65 U	54.15 U	45.6 U	29.25 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		804	495 U	660 U	1,520
COBALT	XRF	47,000	1,000,000		300 U	718	737	285 U
COPPER	XRF	31,000	820,000		100 U	108 U	120 U	102 U
IRON	XRF	230,000	1,000,000		12,800	16,998	23,898	12,000
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		69	522	157	56
MANGANESE	XRF	18,000	470,000		990 U	1,340	1,500 U	945 U
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		14.85 U	20.85 U	18.75 U	13.35 U
MOLYBDENUM	XRF	391	10,220		10.8 U	—	—	11.4 U
NICKEL	XRF	16,000	410,000		258.8	255 U	315 U	192.9
RUBIDIUM	XRF	NE	NE		77.8	72 U	90.75 U	56.3
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		89.8	104	60	82.2
URANIUM	XRF	16	409		—	26.1 U	33.6 U	—
ZINC	XRF	230,000	1,000,000		155	393	192	140
ZIRCONIUM	XRF	NE	NE		128	89.5	132.9	170.3

Table 3-5
(Continued)

Soil Sampling Analytical Results for Site 121
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID: 121-V01-01-01 / Sample Date: 10/8/2001	121-V02-01-01 / 10/8/2001	121-W01-01-01 / 10/8/2001	121-W02-01-01 / 10/8/2001
ARSENIC	6010B	230	6,100	--	--	--	--
ARSENIC	XRF	230	6,100	35.55 U	35.1 U	34.8 U	39.45 U
BARIUM	6010B	55,000	1,000,000	--	--	--	--
CADMIUM	6010B	390	10,000	--	--	--	--
CHROMIUM	6010B	3,900	1,000,000	--	--	--	--
CHROMIUM	XRF	3,900	1,000,000	946	2,869	420 U	435 U
COBALT	XRF	47,000	1,000,000	300 U	300 U	405 U	441
COPPER	XRF	31,000	820,000	105 U	108 U	131 U	110 U
IRON	XRF	230,000	1,000,000	13,197	13,798	12,595	13,696
LEAD	6010B	400	400	--	--	--	--
LEAD	XRF	400	400	180	178	125	181
MANGANESE	XRF	18,000	470,000	975 U	1,020 U	1,300	1,240
MERCURY	7471A	NE	NE	--	--	--	--
MERCURY	XRF	NE	NE	16.2 U	15.75 U	16.2 U	16.5 U
MOLYBDENUM	XRF	391	10,220	14.2	11.3	--	--
NICKEL	XRF	16,000	410,000	165 U	253.8	225 U	225 U
RUBIDIUM	XRF	NE	NE	61.9	58.8	79.3	117.5
SELENIUM	6010B	3,900	100,000	--	--	--	--
SILVER	6010B	3,900	100,000	--	--	--	--
STRONTIUM	XRF	46,924	100,000	58.2	61.2	69.7	79.2
URANIUM	XRF	16	409	--	--	24.9 U	24.9 U
ZINC	XRF	230,000	1,000,000	277	204	1,080	616
ZIRCONIUM	XRF	NE	NE	72.1	97.5	108.5	121.7

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-6

Extent of Lead Contaminated Soil Calculations for Site 121
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
121	121-1	121-A01 121-A02 121-A03 121-G01	12 6 12 12	10.5	0.315	1,634	1,961	618
	121-2	121-C04	6	6	0.18	660	792	143
	121-3	121-E02	24	24	0.72	360	432	311
	121-4	121-L02	6	6	0.18	119	143	26
	121-5	121-P02 121-U01	6 6	6	0.18	542	650	117
							SITE 121 TOTAL=	**1,214**

[1]- See Figure 3-1
m^2 - Square meters
yd^2- Square Yards
yd^3- Cubic Yards

Table 3-7

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-A01-01-01	136-A01-02-01	136-A02-01-01	136-A02-02-01	136-A03-01-01
				Sample Date	8/15/2001	8/15/2001	8/15/2001	8/15/2001	8/15/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		216	50.4 U	419.6	240 U	484
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		15,488	3,478	10,195	2,700 U	16,294
COBALT	XRF	47,000	1,000,000		3,749 U	795 U	3,600 U	2,250 U	6,446 U
COPPER	XRF	31,000	820,000		995	133 U	1,240	1,829	2,330
IRON	XRF	230,000	1,000,000		188,928	26,291	267,878	152,986	546,816
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		1,240.0	180.8	5,139.2	5,257.6	4,688.0
MANGANESE	XRF	18,000	470,000		6,000 U	1,334 U	6,000 U	3,749 U	10,349 U
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		195 U	48.45 U	270 U	210 U	390 U
MOLYBDENUM	XRF	391	10,220		52.5	20.25 U	40.05 U	33.6 U	49.65 U
NICKEL	XRF	16,000	410,000		1,950 U	420 U	1,800 U	1,250	3,149 U
RUBIDIUM	XRF	NE	NE		71.25 U	34.5 U	72 U	58.65 U	88.05 U
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		19.7	44.1	76.2	94.6	19.95 U
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		3,338	217	6,797	5,200	18,099
ZIRCONIUM	XRF	NE	NE		51.9 U	154.5	72.7	503.2	57.9 U

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date: 136-A03-02-01 8/15/2001	136-A04-01-01 8/15/2001	136-A04-01-01DP 8/15/2001	136-A04-02-01 8/15/2001	136-A04-02-02 8/15/2001
ARSENIC	6010B	230	6,100	---	67	67	---	---
ARSENIC	XRF	230	6,100	29.5	695.6	---	1,280	1,460
BARIUM	6010B	55,000	1,000,000	---	1,300	470	---	---
CADMIUM	6010B	390	10,000	---	72	25	---	---
CHROMIUM	6010B	3,900	1,000,000	---	280	170	---	---
CHROMIUM	XRF	3,900	1,000,000	600 U	3,549	---	13,696	4,538
COBALT	XRF	47,000	1,000,000	420 U	2,849 U	---	7,046 U	2,400 U
COPPER	XRF	31,000	820,000	86	2,970	---	10,598	2,979
IRON	XRF	230,000	1,000,000	11,296	295,936	---	1,069,875 U	199,987
LEAD	6010B	400	400	---	**120,000**	**52,000 J**	---	---
LEAD	XRF	400	400	32.4	**10,899.2**	---	**15,898**	**16,192**
MANGANESE	XRF	18,000	470,000	705 U	8,846 U	---	22,483	7,498 U
MERCURY	7471A	NE	NE	---	6.1	5.1 J	---	---
MERCURY	XRF	NE	NE	32.85 U	143.7 U	---	225 U	180 U
MOLYBDENUM	XRF	391	10,220	15.15 U	26.8	---	37 U	25.2 U
NICKEL	XRF	16,000	410,000	225 U	1,185 U	---	2,700 U	1,390
RUBIDIUM	XRF	NE	NE	16.05 U	79.95 U	---	122 U	94.05 U
SELENIUM	6010B	3,900	100,000	---	92	11 U	---	---
SILVER	6010B	3,900	100,000	---	12 J	28	---	---
STRONTIUM	XRF	46,924	100,000	3.6 U	127.7	---	59 U	58.4
URANIUM	XRF	16	409	---	---	---	---	---
ZINC	XRF	230,000	1,000,000	203	12,198	---	15,590	9,805
ZIRCONIUM	XRF	NE	NE	107.1	42.5	---	38 U	47

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-A05-01-01	136-A05-02-01	136-A06-01-01	136-A06-02-01
				Sample Date	8/15/2001	8/15/2001	8/15/2001	8/15/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		648	1,380	317	646.8
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		5,238	6,000 U	2,330	10,598
COBALT	XRF	47,000	1,000,000		3,600 U	5,246 U	2,100 U	3,749 U
COPPER	XRF	31,000	820,000		2,229	1,859	1,600	1,500
IRON	XRF	230,000	1,000,000		429,670	399,974	210,944	311,910
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		5868.8	14,298	3,978	7,654
MANGANESE	XRF	18,000	470,000		11,242 U	8,549 U	6,600 U	5,846 U
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		118.05 U	465 U	81.15 U	300 U
MOLYBDENUM	XRF	391	10,220		35.5	43.8 U	19.8 U	33 U
NICKEL	XRF	16,000	410,000		1,364 U	2,700 U	840 U	1,800 U
RUBIDIUM	XRF	NE	NE		76.2 U	111.3 U	56.1 U	74.7 U
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		86.7	23.55 U	86.5	19.7
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		7,629	7,738	4,979	11,699
ZIRCONIUM	XRF	NE	NE		58.8	61.95 U	72.6	43.95 U

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID Sample Date 136-A07-01-01 8/15/2001	136-A07-02-01 8/15/2001	136-A07-03-01 8/15/2001	136-A08-01-01 8/15/2001	136-A08-02-01 8/15/2001
ARSENIC	6010B	230	6,100	---	---	---	---	---
ARSENIC	XRF	230	6,100	381.4	612	790	285 U	549.2
BARIUM	6010B	55,000	1,000,000	---	---	---	---	---
CADMIUM	6010B	390	10,000	---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000	---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000	2,909	3,200	5,699	3,798	3,379
COBALT	XRF	47,000	1,000,000	2,100 U	2,250 U	2,700 U	2,400 U	1,650 U
COPPER	XRF	31,000	820,000	1,410	1,170	779	4,288	2,240
IRON	XRF	230,000	1,000,000	169,984	250,880	276,890	180,941	125,952
LEAD	6010B	400	400	---	---	---	---	---
LEAD	XRF	400	400	3,408	4,800	6,358	4,038	7,795
MANGANESE	XRF	18,000	470,000	6,600 U	6,898 U	8,098 U	7,200 U	5,098 U
MERCURY	7471A	NE	NE	---	---	---	---	---
MERCURY	XRF	NE	NE	83.25 U	85.2 U	109.35 U	875.2	246.8
MOLYBDENUM	XRF	391	10,220	22.5 U	19.2 U	23.1 U	24.3 U	20.85 U
NICKEL	XRF	16,000	410,000	885 U	885 U	1,090	1,020 U	690 U
RUBIDIUM	XRF	NE	NE	62.1 U	58.35 U	63.3 U	69.75 U	60.3 U
SELENIUM	6010B	3,900	100,000	---	---	---	---	---
SILVER	6010B	3,900	100,000	---	---	---	---	---
STRONTIUM	XRF	46,924	100,000	91.3	68	101	61.2	82
URANIUM	XRF	16	409	---	---	---	---	---
ZINC	XRF	230,000	1,000,000	4,240	6,848	8,538	5,549	3,840
ZIRCONIUM	XRF	NE	NE	49.4	111.5	74.9	73.8	212.8

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-A08-03-01	136-A09-01-01	136-A09-02-01	136-A09-03-01	136-A10-01-01
				Sample Date	8/15/2001	8/15/2001	8/15/2001	8/15/2001	10/9/2001
ARSENIC	6010B	230	6,100		130	—	—	—	—
ARSENIC	XRF	230	6,100		**6,586**	150 U	150 U	63.9 U	103.95 U
BARIUM	6010B	55,000	1,000,000		100	—	—	—	—
CADMIUM	6010B	390	10,000		6.8	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		41	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		4,048	2,960	1,570	721	1,215 U
COBALT	XRF	47,000	1,000,000		1,950 U	1,380 U	1,320 U	705 U	2,760
COPPER	XRF	31,000	820,000		1,350	2,139	856	165 U	240 U
IRON	XRF	230,000	1,000,000		148,992	90,266	117,965	24,896	66,150
LEAD	6010B	400	400		**60,000 J**	—	—	—	—
LEAD	XRF	400	400		**75,162**	**1,630**	**2,570**	186	**1,210**
MANGANESE	XRF	18,000	470,000		6,298 U	4,200 U	4,049 U	2,100 U	7,360
MERCURY	7471A	NE	NE		8.1	—	—	—	—
MERCURY	XRF	NE	NE		345 U	389.8	88.1	25.2 U	42.6 U
MOLYBDENUM	XRF	391	10,220		25.8 U	19.2 U	14.55 U	24.8	—
NICKEL	XRF	16,000	410,000		1,370	615 U	525 U	300 U	585 U
RUBIDIUM	XRF	NE	NE		290.6	48.9 U	57.6	36.3 U	102.45 U
SELENIUM	6010B	3,900	100,000		11 U	—	—	—	—
SILVER	6010B	3,900	100,000		2.9 J	—	—	—	—
STRONTIUM	XRF	46,924	100,000		74.1 U	113.5	64.4	25.7	104.8
URANIUM	XRF	16	409		—	—	—	—	37.65 U
ZINC	XRF	230,000	1,000,000		4,259	3,109	1,610	160	1,600
ZIRCONIUM	XRF	NE	NE		169.8	77.7	55.9	176.3	113.4

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	136-A10-02-01 10/9/2001	136-A11-01-01 10/9/2001	136-A11-02-01 10/9/2001	136-A11-03-01 10/9/2001
ARSENIC	6010B	230	6,100		---	29	---	---
ARSENIC	XRF	230	6,100		50.9	180 U	61.2 U	82.95 U
BARIUM	6010B	55,000	1,000,000		---	1,000	---	---
CADMIUM	6010B	390	10,000		---	29 J	---	---
CHROMIUM	6010B	3,900	1,000,000		---	250	---	---
CHROMIUM	XRF	3,900	1,000,000		630 U	3,600 U	1,484 U	1,950 U
COBALT	XRF	47,000	1,000,000		630 U	1,950 U	720 U	1,570
COPPER	XRF	31,000	820,000		143 U	585 U	270 U	285 U
IRON	XRF	230,000	1,000,000		25,293	236,954	53,350	98,560
LEAD	6010B	400	400		---	1,100 J	---	---
LEAD	XRF	400	400		241.4	2,600	468.8	869.6
MANGANESE	XRF	18,000	470,000		1,880	6,446 U	5,709	5,658
MERCURY	7471A	NE	NE		---	4.5	---	---
MERCURY	XRF	NE	NE		21.3 U	77.55 U	29.1 U	37.8 U
MOLYBDENUM	XRF	391	10,220		---	21.6 U	13.65 U	14.1 U
NICKEL	XRF	16,000	410,000		315 U	1,080	360 U	495 U
RUBIDIUM	XRF	NE	NE		82.95 U	61.2 U	32.4 U	35.85 U
SELENIUM	6010B	3,900	100,000		---	27 UJ	---	---
SILVER	6010B	3,900	100,000		---	27 U	---	---
STRONTIUM	XRF	46,924	100,000		86	84.2	42.4	40.5
URANIUM	XRF	16	409		30.75 U	---	---	---
ZINC	XRF	230,000	1,000,000		704	5,859	2,539	2,170
ZIRCONIUM	XRF	NE	NE		152.3	76.6	53	44.5

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-A12-01-01	136-A12-02-01	136-B01-01-01	136-B01-02-01	136-B01-03-01
				Sample Date	10/9/2001	10/9/2001	8/15/2001	8/15/2001	8/15/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		79.8 U	51.6 U	72.45 U	137.6	37.8 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		690 U	495 U	1,699	1,650 U	615 U
COBALT	XRF	47,000	1,000,000		660 U	480 U	1,095 U	1,410 U	900 U
COPPER	XRF	31,000	820,000		389	126 U	195 U	233	143 U
IRON	XRF	230,000	1,000,000		25,293	11,494	42,189	73,370	76,595
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		933.6	229.6	374	870.4	43.2 U
MANGANESE	XRF	18,000	470,000		1,650 U	1,125 U	1,800 U	2,250 U	2,849 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		31.8 U	22.2 U	74.7 U	89.55 U	17.25 U
MOLYBDENUM	XRF	391	10,220		—	—	22.65 U	21.6 U	17.7
NICKEL	XRF	16,000	410,000		360 U	270 U	555 U	720 U	330 U
RUBIDIUM	XRF	NE	NE		84.9 U	91.2 U	57.1	189.3	70.4
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		102.2	138.2	44.3	21.6	83.2
URANIUM	XRF	16	409		31.5 U	33.9 U	—	—	—
ZINC	XRF	230,000	1,000,000		1,470	195	1,200	1,510	516
ZIRCONIUM	XRF	NE	NE		59.9	77.2	105.2	101.4	15

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-B02-01-01	136-B02-02-01	136-B02-03-01	136-B02-04-01	136-B03-01-01
				Sample Date	8/15/2001	8/15/2001	8/15/2001	8/15/2001	10/9/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		73.95 U	106.2	69 U	152.1	63.3 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		1,899	1,650 U	942	1,610	720 U
COBALT	XRF	47,000	1,000,000		975 U	1,410 U	780 U	855 U	1,070
COPPER	XRF	31,000	820,000		180 U	240 U	180 U	1,680	165 U
IRON	XRF	230,000	1,000,000		30,387	78,797	52,787	56,064	29,184
LEAD	6010B	400	400		**1,800**	---	---	**2,300**	---
LEAD	XRF	400	400		**404**	**891**	**562**	**2,659**	**564**
MANGANESE	XRF	18,000	470,000		1,650 U	2,250 U	2,400 U	2,700 U	4,198
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		75.15 U	93.9 U	25.65 U	255	25.95 U
MOLYBDENUM	XRF	391	10,220		22.35 U	20.85 U	18.3	14.55 U	---
NICKEL	XRF	16,000	410,000		525 U	720 U	315 U	420 U	360 U
RUBIDIUM	XRF	NE	NE		41.55 U	98.1	48.6	41.7 U	85.65 U
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		47.1	29.5	61.3	98.8	78.9
URANIUM	XRF	16	409		---	---	---	---	**43.3**
ZINC	XRF	230,000	1,000,000		856	2,440	1,240	3,530	983
ZIRCONIUM	XRF	NE	NE		70.2	80.3	590	163.9	54.5

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-B03-02-01	136-B03-03-01	136-B03-04-01	136-B04-01-01	136-B04-02-01
				Sample Date	10/9/2001	10/9/2001	10/9/2001	10/9/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	—	—	8.8	—
ARSENIC	XRF	230	6,100		65.4 U	63 U	104.25 U	99.9 U	46.5 U
BARIUM	6010B	55,000	1,000,000		—	—	—	550	—
CADMIUM	6010B	390	10,000		—	—	—	9.7 J	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	26	—
CHROMIUM	XRF	3,900	1,000,000		870 U	750 U	1,155 U	1,020 U	1,185 U
COBALT	XRF	47,000	1,000,000		885 U	765 U	1,200 U	2,650	630 U
COPPER	XRF	31,000	820,000		230	267	210 U	450	141 U
IRON	XRF	230,000	1,000,000		46,285	39,091	71,680	54,682	48,589
LEAD	6010B	400	400		—	—	—	2,000 J	—
LEAD	XRF	400	400		537	537	1,340	1,460	233.4
MANGANESE	XRF	18,000	470,000		3,667	1,800 U	2,849 U	6,976	2,100 U
MERCURY	7471A	NE	NE		—	—	—	0.54 J	—
MERCURY	XRF	NE	NE		27.6 U	25.95 U	40.05 U	38.85 U	21.45 U
MOLYBDENUM	XRF	391	10,220		—	—	—	—	12.3 U
NICKEL	XRF	16,000	410,000		470	375 U	540 U	495 U	315 U
RUBIDIUM	XRF	NE	NE		86.25 U	84.15 U	107.4 U	92.4 U	73.4
SELENIUM	6010B	3,900	100,000		—	—	—	5.9 UJ	—
SILVER	6010B	3,900	100,000		—	—	—	1.6 J	—
STRONTIUM	XRF	46,924	100,000		56.4	80.4	96.4	107.9	87.2
URANIUM	XRF	16	409		31.65 U	30.75 U	53.3	35.8	—
ZINC	XRF	230,000	1,000,000		1,170	1,190	1,060	1,230	255
ZIRCONIUM	XRF	NE	NE		69.7	91.6	79	64.6	73.2

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	136-B04-03-01 10/8/2001	136-B05-01-01 10/9/2001	136-B06-01-01 10/9/2001	136-C01-01-01 8/15/2001	136-C02-01-01 8/15/2001
ARSENIC	6010B	230	6,100	---	---	---	---	---
ARSENIC	XRF	230	6,100	32.4 U	39.9 U	36.9 U	43.2 U	73.35 U
BARIUM	6010B	55,000	1,000,000	---	---	---	---	---
CADMIUM	6010B	390	10,000	---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000	---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000	1,290 U	525 U	495 U	1,110	1,720
COBALT	XRF	47,000	1,000,000	1,500	673	465 U	570 U	1,800 U
COPPER	XRF	31,000	820,000	133 U	114 U	109 U	135 U	405 U
IRON	XRF	230,000	1,000,000	64,870	15,398	12,397	20,493	32,000
LEAD	6010B	400	400	---	---	---	---	360
LEAD	XRF	400	400	45.75 U	64.6	50.6	52.5 U	240.8
MANGANESE	XRF	18,000	470,000	2,250 U	1,899	1,760	1,800 U	11,693 U
MERCURY	7471A	NE	NE	---	---	---	---	---
MERCURY	XRF	NE	NE	16.95 U	16.35 U	16.65 U	19.65 U	51.75 U
MOLYBDENUM	XRF	391	10,220	20.4	---	---	17.1 U	28.9
NICKEL	XRF	16,000	410,000	330 U	270 U	255 U	255 U	645 U
RUBIDIUM	XRF	NE	NE	50.4	146.8	87.15 U	72.7	69
SELENIUM	6010B	3,900	100,000	---	---	---	---	---
SILVER	6010B	3,900	100,000	---	---	---	---	---
STRONTIUM	XRF	46,924	100,000	81.4	113.9	73.5	73.6	71.9
URANIUM	XRF	16	409	---	30.75 U	32.85 U	---	---
ZINC	XRF	230,000	1,000,000	152	267	171	68 U	670
ZIRCONIUM	XRF	NE	NE	56.3	153.2	178.7	228.2	102.4

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-D01-01-01	136-D02-01-01	136-D03-01-01	136-D04-01-01	136-D05-01-01
				Sample Date	8/15/2001	8/15/2001	8/15/2001	8/15/2001	8/15/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		55.35 U	57 U	53.4 U	106.65 U	37.05 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		1,440	630	1,789	4,118	285 U
COBALT	XRF	47,000	1,000,000		705 U	540 U	660 U	1,100	375 U
COPPER	XRF	31,000	820,000		165 U	165 U	150 U	8,717	98 U
IRON	XRF	230,000	1,000,000		22,899	15,091	23,488	34,278	11,098
LEAD	6010B	400	400		---	460	---	---	---
LEAD	XRF	400	400		65.25 U	90.3	60.3 U	65.85 U	43.8 U
MANGANESE	XRF	18,000	470,000		2,250 U	1,800 U	2,250 U	2,700 U	1,200 U
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		20.7 U	24.3 U	23.25 U	2,000	15.9 U
MOLYBDENUM	XRF	391	10,220		19.65 U	18.75 U	22.7	18 U	15 U
NICKEL	XRF	16,000	410,000		363	270 U	285 U	645 U	165 U
RUBIDIUM	XRF	NE	NE		75.4	57.9	97	47.55 U	87.4
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		58.4	66.4	53.2	19.95 U	63
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		95	275	222	4,928	51 U
ZIRCONIUM	XRF	NE	NE		106.9	179.2	152.3	165.1	265.2

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	136-D06-01-01 8/15/2001	136-D07-01-01 8/15/2001	136-D08-01-01 8/15/2001	136-D09-01-01 8/15/2001
ARSENIC	6010B	230	6,100		---	---	---	---
ARSENIC	XRF	230	6,100		40.95 U	56.1 U	59.85 U	79.2 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		1,789	1,400	1,220	3,440
COBALT	XRF	47,000	1,000,000		540 U	810 U	540 U	780 U
COPPER	XRF	31,000	820,000		132 U	165 U	2,290	2,690
IRON	XRF	230,000	1,000,000		21,696	32,282	18,496	29,184
LEAD	6010B	400	400		---	---	---	---
LEAD	XRF	400	400		47.85 U	63.45 U	51.6 U	66 U
MANGANESE	XRF	18,000	470,000		1,800 U	2,549 U	1,650 U	2,549 U
MERCURY	7471A	NE	NE		---	---	---	---
MERCURY	XRF	NE	NE		18.75 U	24.75 U	525.6	654.8
MOLYBDENUM	XRF	391	10,220		15.6 U	17.85 U	16.5 U	19.5 U
NICKEL	XRF	16,000	410,000		383	472	330 U	465 U
RUBIDIUM	XRF	NE	NE		85.7	64.7	56.6	50.4 U
SELENIUM	6010B	3,900	100,000		---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---
STRONTIUM	XRF	46,924	100,000		96.1	84	75.5	54.8
URANIUM	XRF	16	409		---	---	---	---
ZINC	XRF	230,000	1,000,000		171	185	1,410	1,620
ZIRCONIUM	XRF	NE	NE		211.6	112.5	234.2	162.5

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-D10-01-01	136-D11-01-01	136-D12-01-01	136-D13-01-01
				Sample Date	10/8/2001	10/8/2001	10/8/2001	10/9/2001
ARSENIC	6010B	230	6,100		---	---	---	---
ARSENIC	XRF	230	6,100		33.75 U	26.4 U	29.1 U	37.05 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		600 U	555 U	495 U	405 U
COBALT	XRF	47,000	1,000,000		300 U	270 U	240 U	390 U
COPPER	XRF	31,000	820,000		117 U	99 U	93 U	111 U
IRON	XRF	230,000	1,000,000		12,000	10,195	7,840	10,496
LEAD	6010B	400	400		---	---	---	---
LEAD	XRF	400	400		106.5	37.65 U	51.8	136.3
MANGANESE	XRF	18,000	470,000		960 U	885 U	750 U	915 U
MERCURY	7471A	NE	NE		---	---	---	---
MERCURY	XRF	NE	NE		16.2 U	13.5 U	14.85 U	15.45 U
MOLYBDENUM	XRF	391	10,220		11.25 U	12.3 U	11.85 U	---
NICKEL	XRF	16,000	410,000		165 U	150 U	136 U	210 U
RUBIDIUM	XRF	NE	NE		73.5	45	72.5	80.7 U
SELENIUM	6010B	3,900	100,000		---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---
STRONTIUM	XRF	46,924	100,000		68.2	79.9	79.9	66.8
URANIUM	XRF	16	409		---	---	---	30.6 U
ZINC	XRF	230,000	1,000,000		390	179	186	440
ZIRCONIUM	XRF	NE	NE		145.1	253	283	202.2

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-E01-01-01	136-E02-01-01	136-E03-01-01	136-E04-01-01	136-E05-01-01
				Sample Date	8/16/2001	8/16/2001	8/16/2001	8/16/2001	8/16/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		70.05 U	52.95 U	51.6 U	52.05 U	49.95 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		1,530	810 U	885 U	855 U	1,100
COBALT	XRF	47,000	1,000,000		1,230 U	945 U	1,035 U	975 U	1,050 U
COPPER	XRF	31,000	820,000		2,899	285 U	270 U	270 U	255 U
IRON	XRF	230,000	1,000,000		17,088	13,798	15,898	12,595	16,397
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		66.3 U	146.2	144.7	97.8	58.3
MANGANESE	XRF	18,000	470,000		7,949 U	6,298 U	6,898 U	6,600 U	7,046 U
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		705.6	37.5 U	36.6 U	35.4 U	34.5 U
MOLYBDENUM	XRF	391	10,220		13.3	11.55 U	11.85 U	12.45 U	12
NICKEL	XRF	16,000	410,000		660 U	390 U	405 U	405 U	405 U
RUBIDIUM	XRF	NE	NE		33.75 U	72	69.6	59.9	73.8
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		51.8	88.7	92.8	75.3	68.3
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		1,840	536	488	286	184
ZIRCONIUM	XRF	NE	NE		117	157.9	189.1	137.2	84.4

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-E06-01-01	136-E07-01-01	136-E08-01-01	136-E09-01-01	136-E10-01-01
				Sample Date	8/16/2001	8/16/2001	8/16/2001	8/16/2001	8/16/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		55.35 U	66.3 U	71.55 U	51.3 U	32.85 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		2,320	1,970	2,840	1,570	338
COBALT	XRF	47,000	1,000,000		674	1,424 U	705 U	480 U	375 U
COPPER	XRF	31,000	820,000		1,939	360 U	2,789	1,699	106 U
IRON	XRF	230,000	1,000,000		25,498	26,291	29,798	19,098	15,693
LEAD	6010B	400	400		---	170	---	---	---
LEAD	XRF	400	400		49.35 U	215	60.45 U	44.7 U	39 U
MANGANESE	XRF	18,000	470,000		1,950 U	9,600 U	2,250 U	1,500 U	1,170 U
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		474	46.05 U	614.8	407.6	14.25 U
MOLYBDENUM	XRF	391	10,220		14.25 U	21.2	15.3 U	12.6 U	11.1 U
NICKEL	XRF	16,000	410,000		345 U	540 U	420 U	285 U	165 U
RUBIDIUM	XRF	NE	NE		37.7	72.7	39.9 U	32.7 U	61.1
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		47.7	93.9	43.4	68.5	81.9
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		1,240	742	2,080	1,390	498
ZIRCONIUM	XRF	NE	NE		97.6	106.9	54.2	119.7	160.5

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-F01-01-01	136-F02-01-01	136-G01-01-01	136-G02-01-01	136-G03-01-01
				Sample Date	8/16/2001	8/16/2001	8/15/2001	8/15/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	—	—	—	3.7 J
ARSENIC	XRF	230	6,100		49.35 U	49.05 U	210 U	67.05 U	52.8 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	420
CADMIUM	6010B	390	10,000		—	—	—	—	12 J
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	160
CHROMIUM	XRF	3,900	1,000,000		1,140	1,010	4,518	1,400	705 U
COBALT	XRF	47,000	1,000,000		960 U	495 U	1,800 U	1,320 U	645 U
COPPER	XRF	31,000	820,000		240 U	1,360	17,690	360 U	165 U
IRON	XRF	230,000	1,000,000		14,195	19,994	80,384	19,098	23,398
LEAD	6010B	400	400		11	—	—	210	500 J
LEAD	XRF	400	400		58.95 U	45.6 U	124.95 U	251.6	298.2
MANGANESE	XRF	18,000	470,000		6,600 U	1,500 U	5,549 U	9,000 U	3,240
MERCURY	7471A	NE	NE		—	—	—	—	5.3
MERCURY	XRF	NE	NE		33.15 U	353.2	4,099	47.25 U	22.5 U
MOLYBDENUM	XRF	391	10,220		12.8	13.2 U	25.65 U	13.95 U	—
NICKEL	XRF	16,000	410,000		390 U	270 U	1,230 U	540 U	330 U
RUBIDIUM	XRF	NE	NE		86.4	46.6	70.2 U	39 U	87.15 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	28 UJ
SILVER	6010B	3,900	100,000		—	—	—	—	28 U
STRONTIUM	XRF	46,924	100,000		119.3	90.7	32.85 U	102.1	98.4
URANIUM	XRF	16	409		—	—	—	—	32.25 U
ZINC	XRF	230,000	1,000,000		82 U	864	10,899	520	887
ZIRCONIUM	XRF	NE	NE		179.8	179.6	95	127.5	90.4

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-G04-01-01	136-H01-01-01	136-H02-01-01	136-H03-01-01	136-H04-01-01
				Sample Date	10/9/2001	8/15/2001	8/15/2001	8/15/2001	8/15/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		61.8 U	49.35 U	73.65 U	62.1 U	119.25 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		855 U	765 U	2,090	1,699	4,307
COBALT	XRF	47,000	1,000,000		1,020	885 U	690 U	1,320 U	975 U
COPPER	XRF	31,000	820,000		195 U	240 U	3,099	330 U	7,987
IRON	XRF	230,000	1,000,000		23,296	11,398	25,894	16,397	41,677
LEAD	6010B	400	400		—	—	370	—	—
LEAD	XRF	400	400		258.6	163.1	60.6 U	69.3 U	86.85 U
MANGANESE	XRF	18,000	470,000		4,758	6,000 U	2,100 U	8,846 U	3,149 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		26.85 U	33.9 U	729.6	43.95 U	1,850
MOLYBDENUM	XRF	391	10,220		—	11.1 U	19.2	15.6 U	18.6 U
NICKEL	XRF	16,000	410,000		405 U	360 U	405 U	540 U	675 U
RUBIDIUM	XRF	NE	NE		113.1 U	49.1	39.75 U	44.7	49.8 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		156.6	67.6	35.8	67.9	22.2 U
URANIUM	XRF	16	409		50	—	—	—	—
ZINC	XRF	230,000	1,000,000		733	288	1,989	147	4,867
ZIRCONIUM	XRF	NE	NE		95.8	148	150.3	148	141.6

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-I01-01-01	136-I01-02-01	136-I02-01-01	136-J01-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	6010B	230	6,100		5.8 U	—	—	—
ARSENIC	XRF	230	6,100		106.35 U	47.55 U	99.6 U	67.95 U
BARIUM	6010B	55,000	1,000,000		36	—	—	—
CADMIUM	6010B	390	10,000		4.4	—	—	—
CHROMIUM	6010B	3,900	1,000,000		21	—	—	—
CHROMIUM	XRF	3,900	1,000,000		16,493 U	6,446 U	12,298 U	7,200 U
COBALT	XRF	47,000	1,000,000		885 U	330 U	615 U	345 U
COPPER	XRF	31,000	820,000		426	107 U	240 U	134 U
IRON	XRF	230,000	1,000,000		187,904	23,296	39,091	17,997
LEAD	6010B	400	400		300 J	—	—	—
LEAD	XRF	400	400		1,460	196.8	479.2	357.4
MANGANESE	XRF	18,000	470,000		13,696	1,760	3,667	1,939
MERCURY	7471A	NE	NE		0.65 J	—	—	—
MERCURY	XRF	NE	NE		12.9 U	6 U	13.2 U	8.7 U
MOLYBDENUM	XRF	391	10,220		20.25 U	26.1 U	19.5 U	16.2 U
NICKEL	XRF	16,000	410,000		525 U	225 U	405 U	240 U
RUBIDIUM	XRF	NE	NE		69.4	50.85 U	38.25 U	57.5
SELENIUM	6010B	3,900	100,000		5.8 U	—	—	—
SILVER	6010B	3,900	100,000		5.8 U	—	—	—
STRONTIUM	XRF	46,924	100,000		131.9	55.5	62.3	75.3
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		1,620	207	1,020	493
ZIRCONIUM	XRF	NE	NE		87.2	39.6	61.1	144

Table 3-7
(Continued)

Soil Sampling Anaytical Results for Site 136
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	136-J02-01-01	136-K01-01-01	136-L01-01-01	136-M01-01-01	136-M02-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		51.15 U	32.55 U	32.25 U	38.85 U	28.2 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		6,600 U	4,500 U	4,200 U	4,800 U	3,749 U
COBALT	XRF	47,000	1,000,000		330 U	195 U	210 U	346	181
COPPER	XRF	31,000	820,000		140 U	87 U	82 U	98 U	87 U
IRON	XRF	230,000	1,000,000		17,088	9,658	10,400	12,397	7,584
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		146.8	91.7	51.8	89.4	35.55 U
MANGANESE	XRF	18,000	470,000		1,370	1,030	587	1,020	689
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		6.75 U	4.5 U	4.8 U	5.1 U	4.65 U
MOLYBDENUM	XRF	391	10,220		19.2 U	16.65 U	15.45 U	---	16.8 U
NICKEL	XRF	16,000	410,000		240 U	341.8	150 U	180 U	518.8
RUBIDIUM	XRF	NE	NE		68	88.5	90	---	113.5
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		102.1	101	69.2	---	80.3
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		419	149	165	315	118
ZIRCONIUM	XRF	NE	NE		62.2	121.4	140.3	---	108.6

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-8

Soil Sampling Analytical Results
Toxicity Characteristic Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/L)

Constituent	Analytical Method	Sample ID	136-A04-01-01	136-A08-03-01	136-I1-01-01	141-AD02-01-01
		Sample Date	8/15/2001	8/15/2001	4/16/2002	4/15/2002
		Screening Level				
ARSENIC, TCLP	6010BC	5	1 U	0.29 J	1 U	1 U
BARIUM, TCLP	6010BC	100	1 U	1 U	1 U	1 U
CADMIUM, TCLP	6010BC	1	0.37 J	1 U	1 U	1 U
CHROMIUM, TCLP	6010BC	5	1 U	1 U	1 U	1 U
LEAD, TCLP	6010BC	5	22	320	1 U	1 U
MERCURY, TCLP	7471AC	0.2	0.02 U	0.02 UJ	0.02 U	0.02 U
SELENIUM, TCLP	6010BC	1	1 U	0.095 J	1 U	1 U
SILVER, TCLP	6010BC	5	1 U	1 U	1 U	1 U

Table 3-8
(Continued)

Soil Sampling Analytical Results
Toxicity Characteristic Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/L)

Constituent	Analytical Method	Sample ID	141-AD02-01-01DP	155-O2-01-01	F-F2-01-01
		Sample Date	4/15/2002	4/15/2002	4/17/2002
		Screening Level			
ARSENIC, TCLP	6010BC	5	1 U	1 U	1 U
BARIUM, TCLP	6010BC	100	1 U	1 U	1 U
CADMIUM, TCLP	6010BC	1	1 U	1 U	1 U
CHROMIUM, TCLP	6010BC	5	1 U	1 U	1 U
LEAD, TCLP	6010BC	5	1 U	1 U	1 U
MERCURY, TCLP	7471AC	0.2	0.02 U	0.02 U	0.02 U
SELENIUM, TCLP	6010BC	1	1 U	1 U	1 U
SILVER, TCLP	6010BC	5	1 U	1 U	1 U

U- Constituent not detected. Detection limit indicated.
J Estimated value.
(shaded)- RCRA Screening Level Exceedances

Table 3-9

Extent of Lead Contaminated Soil Calculations for Site 136
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
136	136-1	136-A01	24	24.0	0.7	12,162	14,594	10,508
		136-A02	24					
		136-A03	24					
		136-A04	24					
		136-A05	24					
		136-A06	24					
		136-A07	24					
		136-A08	24					
		136-A09	24					
		136-A10	24					
		136-A11	24					
		136-A12	24					
	136-2	136-B01	12	16.5	0.495	814	977	484
		136-B02	24					
		136-B03	24					
		136-B04	6					
	136-3	136-D02	6	6	0.18	239	287	52
	136-4	136-G03	6	6	0.18	355	426	77
	136-5	136-I01	6	6	0.18	5,138	6,166	1,110
		136-I02	6					
							SITE 136 TOTAL=	**12,230**

[1] See Figure 3-2
m^2 - Square meters
yd^2 - Square Yards
yd^3 - Cubic Yards

Table 3-10

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-A01-01-01	141-A01-01-02	141-A01-01-03	141-A02-01-01
				Sample Date	8/20/2001*	8/21/2001	8/21/2001	8/20/2001
ARSENIC	6010B	230	6,100		11	—	—	12
ARSENIC	XRF	230	6,100		145.05 U	42.75 U	34.95 U	48.6 U
BARIUM	6010B	55,000	1,000,000		110	—	—	0.93 J
CADMIUM	6010B	390	10,000		1	—	—	0.52 U
CHROMIUM	6010B	3,900	1,000,000		11	—	—	5.2 U
CHROMIUM	XRF	3,900	1,000,000		4,080	1,800	1,040	750 U
COBALT	XRF	47,000	1,000,000		2,050	540 U	435 U	330 U
COPPER	XRF	31,000	820,000		16,691	132 U	105 U	180 U
IRON	XRF	230,000	1,000,000		28,877	18,995	15,693	8,678
LEAD	6010B	400	400		16	—	—	2.4 JB
LEAD	XRF	400	400		74.55 U	51.15 U	42.45 U	166.8
MANGANESE	XRF	18,000	470,000		2,700 U	1,800 U	1,394 U	1,125 U
MERCURY	7471A	NE	NE		0.13 J	—	—	0.21 J
MERCURY	XRF	NE	NE		3,779	18.15 U	16.05 U	23.4 U
MOLYBDENUM	XRF	391	10,220		20.4 U	16.95 U	14.25 U	27.4
NICKEL	XRF	16,000	410,000		855 U	286.6	226	225 U
RUBIDIUM	XRF	NE	NE		47.7 U	72.9	43.8	37.2 U
SELENIUM	6010B	3,900	100,000		5.4 U	—	—	5.2 U
SILVER	6010B	3,900	100,000		5.4 U	—	—	5.2 U
STRONTIUM	XRF	46,924	100,000		21 U	59.2	68.5	92.4
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		9,677	66.45 U	72.7	524.4
ZIRCONIUM	XRF	NE	NE		264.6	195	213.6	69.1

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-A02-01-02	141-A02-02-01	141-A02-03-01	141-B01-01-01	141-C01-01-01
				Sample Date	8/21/2001	8/20/2001	8/20/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		37.95 U	35.1 U	33.9 U	56.1 U	56.55 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,770	930	442	930 U	1,709
COBALT	XRF	47,000	1,000,000		360 U	622	375 U	1,065 U	645 U
COPPER	XRF	31,000	820,000		129 U	121 U	87 U	300 U	165 U
IRON	XRF	230,000	1,000,000		12,800	14,195	12,998	13,594	30,285
LEAD	6010B	400	400		—	—	—	110	—
LEAD	XRF	400	400		52.2 U	82.2	40.65 U	82.1	210.2
MANGANESE	XRF	18,000	470,000		1,200 U	2,410	1,200 U	7,200 U	2,100 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		18.6 U	17.25 U	13.8 U	40.05 U	23.85 U
MOLYBDENUM	XRF	391	10,220		15.7	14.3	12 U	12 U	13.8 U
NICKEL	XRF	16,000	410,000		210 U	210 U	165 U	435 U	382.6
RUBIDIUM	XRF	NE	NE		82.1	36.9	91.2	94.6	55.1
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		82.4	80.8	83.8	79.8	102.6
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		79.7	216.2	81.9	386.6	704.4
ZIRCONIUM	XRF	NE	NE		221.2	165.4	177.4	81.8	75.1

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-C02-01-01	141-D01-01-01	141-D01-02-01	141-D01-03-01	141-D01-04-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		69 U	75.45 U	63.3 U	65.7 U	69 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		2,130	990 U	1,110 U	1,095 U	1,800 U
COBALT	XRF	47,000	1,000,000		645 U	1,170 U	1,290 U	1,274 U	2,100 U
COPPER	XRF	31,000	820,000		1,420	390 U	345 U	831	390 U
IRON	XRF	230,000	1,000,000		33,178	15,194	25,997	27,878	66,150
LEAD	6010B	400	400		**410**	**460**	—	**820**	—
LEAD	XRF	400	400		227	**497.6**	355.2	**446.8**	349.2
MANGANESE	XRF	18,000	470,000		2,100 U	7,800 U	8,698 U	8,549 U	14,698 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		360.8	51.75 U	44.1 U	60	48.9 U
MOLYBDENUM	XRF	391	10,220		14.1 U	11.55 U	10.8 U	13.2	18.4
NICKEL	XRF	16,000	410,000		330 U	495 U	495 U	510 U	735 U
RUBIDIUM	XRF	NE	NE		59.2	51.3	60	66.6	76.7
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		114.6	127.5	101.5	72.6	77.8
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		1,490	990.4	868.8	955.2	774.8
ZIRCONIUM	XRF	NE	NE		136.1	24.3	74.4	88.5	42.8

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-D02-01-01	141-E01-01-01	141-E02-01-01	141-F01-01-01	141-F01-02-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		58.95 U	101.55 U	54.75 U	96.45 U	80.4 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,215 U	1,160	919	2,539	600 U
COBALT	XRF	47,000	1,000,000		1,394 U	1,010	570 U	855 U	900 U
COPPER	XRF	31,000	820,000		315 U	6,989	138 U	1,789	180 U
IRON	XRF	230,000	1,000,000		29,798	41,600	26,291	47,488	70,451
LEAD	6010B	400	400		—	—	**490**	**810**	**790**
LEAD	XRF	400	400		197.2	77.7 U	304.6	**648**	**803.6**
MANGANESE	XRF	18,000	470,000		9,600 U	2,400 U	1,800 U	2,700 U	2,849 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		40.35 U	1,630	21.15 U	474.8	28.65 U
MOLYBDENUM	XRF	391	10,220		13.3	14.4 U	12.3 U	15.45 U	13.05 U
NICKEL	XRF	16,000	410,000		510 U	525 U	240 U	420 U	360 U
RUBIDIUM	XRF	NE	NE		82.1	42 U	73.9	56.1	116.7
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		86	31.4	96.8	61.8	80.3
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		604.8	4,458	536.8	2,219	1,090
ZIRCONIUM	XRF	NE	NE		78.6	95.8	105.5	109.1	113.6

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-F01-03-01	141-F02-01-01	141-G01-01-01	141-G02-01-01	141-H01-01-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		132.15 U	42.75 U	40.5 U	43.8 U	127.65 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		3,418	663	785	345 U	1,680
COBALT	XRF	47,000	1,000,000		1,230 U	450 U	495 U	480 U	2,149
COPPER	XRF	31,000	820,000		10,899	111 U	122 U	126 U	14,592
IRON	XRF	230,000	1,000,000		84,275	19,597	19,392	15,898	23,693
LEAD	6010B	400	400		—	—	—	72	—
LEAD	XRF	400	400		95.4 U	160	47.1 U	49.35 U	68.25 U
MANGANESE	XRF	18,000	470,000		3,749 U	1,410 U	1,500 U	1,500 U	2,250 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		2,400	16.65 U	17.25 U	18.9 U	3,328
MOLYBDENUM	XRF	391	10,220		16.35 U	11.7 U	13.35 U	13.95 U	16.35 U
NICKEL	XRF	16,000	410,000		750 U	195 U	225 U	210 U	735 U
RUBIDIUM	XRF	NE	NE		47.85 U	68.8	69.3	60.8	42.9 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		37	84.2	77.9	66	17.7 U
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		6,835	298.4	210.4	295.2	8,595
ZIRCONIUM	XRF	NE	NE		80.2	146.6	79.5	64.5	136.8

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-H02-01-01	141-H03-01-01	141-H04-01-01	141-H05-01-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		32.55 U	35.4 U	48.15 U	43.65 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		586	613	780 U	735 U
COBALT	XRF	47,000	1,000,000		345 U	435 U	885 U	870 U
COPPER	XRF	31,000	820,000		114 U	113 U	240 U	225 U
IRON	XRF	230,000	1,000,000		12,499	15,590	10,298	11,898
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		37.8 U	43.95 U	56.1 U	116.4
MANGANESE	XRF	18,000	470,000		1,095 U	1,364 U	6,000 U	5,846 U
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		14.25 U	14.85 U	32.55 U	30 U
MOLYBDENUM	XRF	391	10,220		10.2 U	12.6 U	13.6	10.5 U
NICKEL	XRF	16,000	410,000		165 U	195 U	360 U	345 U
RUBIDIUM	XRF	NE	NE		58.7	71.8	87.2	55.8
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		73.2	97.5	56	68
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		524.8	222.4	145.1	286.4
ZIRCONIUM	XRF	NE	NE		83.9	114.8	191.5	134.8

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-H06-01-01	141-H07-01-01	141-H08-01-01	141-H09-01-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		49.5 U	47.1 U	70.5 U	56.85 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		750 U	795 U	1,110 U	975 U
COBALT	XRF	47,000	1,000,000		885 U	900 U	1,274 U	1,430
COPPER	XRF	31,000	820,000		255 U	225 U	375 U	300 U
IRON	XRF	230,000	1,000,000		9,645	12,800	10,995	14,592
LEAD	6010B	400	400		—	—	—	270
LEAD	XRF	400	400		124.5	95.2	80.1 U	171.1
MANGANESE	XRF	18,000	470,000		5,846 U	6,149 U	8,549 U	10,598
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		34.35 U	32.1 U	49.35 U	39.45 U
MOLYBDENUM	XRF	391	10,220		11.1 U	10.35 U	24.7	12.7
NICKEL	XRF	16,000	410,000		360 U	345 U	540 U	450 U
RUBIDIUM	XRF	NE	NE		47.9	90.6	76.6	79.4
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		77	65.2	68.9	74.8
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		410.4	300.2	203.2	600
ZIRCONIUM	XRF	NE	NE		99.8	89.5	97.2	75

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-I01-01-01	141-I02-01-01	141-I03-01-01	141-I04-01-01	141-I05-01-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		45.3 U	45 U	50.85 U	50.1 U	60.45 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		705 U	675 U	566	825 U	480 U
COBALT	XRF	47,000	1,000,000		810 U	810 U	660 U	960 U	720 U
COPPER	XRF	31,000	820,000		225 U	225 U	165 U	240 U	180 U
IRON	XRF	230,000	1,000,000		9,638	9,766	18,893	14,694	20,288
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		52.05 U	98.1	59.55 U	137.5	69 U
MANGANESE	XRF	18,000	470,000		5,400 U	5,246 U	2,100 U	6,600 U	2,250 U
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		31.95 U	30.15 U	24.15 U	33.15 U	26.7 U
MOLYBDENUM	XRF	391	10,220		13.8	10.65 U	20.55 U	10.5 U	19.05 U
NICKEL	XRF	16,000	410,000		330 U	330 U	300 U	375 U	315 U
RUBIDIUM	XRF	NE	NE		40.5	35.5	50.1	78	50.25 U
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		83.2	92	72.3	92.7	149.2
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		103.5	193.1	78.9 U	281.6	343.4
ZIRCONIUM	XRF	NE	NE		184.5	99.7	207.2	77.8	23.4

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-I06-01-01	141-I07-01-01	141-I08-01-01	141-I09-01-01	141-J01-01-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		36.3 U	55.2 U	138.9 U	60.6 U	51.15 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		910	870 U	4,419	2,040	315 U
COBALT	XRF	47,000	1,000,000		390 U	1,005 U	1,510	750 U	450 U
COPPER	XRF	31,000	820,000		145 U	255 U	12,800	180 U	105 U
IRON	XRF	230,000	1,000,000		11,098	12,397	39,885	36,096	19,699
LEAD	6010B	400	400		—	—	—	120	—
LEAD	XRF	400	400		41.4 U	115.2	82.5 U	154.5	289.2
MANGANESE	XRF	18,000	470,000		1,290 U	6,898 U	3,149 U	2,400 U	1,424 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		16.5 U	38.25 U	2,930	24.75 U	18.75 U
MOLYBDENUM	XRF	391	10,220		12.15 U	11.85 U	18.6 U	15.6 U	11.25 U
NICKEL	XRF	16,000	410,000		303.8	405 U	810 U	490	195 U
RUBIDIUM	XRF	NE	NE		28.05 U	61.5	50.55 U	90.2	85.7
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		41.5	96.2	24.9 U	102.7	75
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		704.4	266.8	7,718	445.6	242.8
ZIRCONIUM	XRF	NE	NE		61.9	58.8	92	80.3	85.1

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-J02-01-01	141-K01-01-01	141-K02-01-01	141-K02-02-01	141-K03-01-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		65.25 U	47.1 U	72.15 U	106.2 U	—
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		960 U	750 U	885 U	1,080 U	—
COBALT	XRF	47,000	1,000,000		1,110 U	855 U	1,005 U	4,547	—
COPPER	XRF	31,000	820,000		285 U	225 U	255 U	13,696	—
IRON	XRF	230,000	1,000,000		16,589	9,466	13,389	9,786	—
LEAD	6010B	400	400		**480**	—	**960**	260	—
LEAD	XRF	400	400		345.2	67.3	**509.2**	74.4 U	87.4
MANGANESE	XRF	18,000	470,000		7,498 U	5,698 U	6,898 U	25,088	—
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		43.35 U	31.65 U	47.4 U	3,469	—
MOLYBDENUM	XRF	391	10,220		13.7	11.7	11.7 U	39.5	—
NICKEL	XRF	16,000	410,000		435 U	345 U	390 U	1,080 U	—
RUBIDIUM	XRF	NE	NE		99.4	81.5	90.8	37.05 U	—
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		81.8	47.4	86.4	14.55 U	—
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		398.6	183.9	310.2	4,090	—
ZIRCONIUM	XRF	NE	NE		88.8	70.5	118.2	92	—

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-K04-01-01	141-L01-01-01	141-L02-01-01	141-M01-01-01	141-M02-01-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	10/8/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		43.95 U	56.55 U	79.2 U	28.35 U	33.9 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		—	2,659	2,080	510 U	585 U
COBALT	XRF	47,000	1,000,000		285 U	720 U	615 U	240 U	285 U
COPPER	XRF	31,000	820,000		97 U	210 U	2,760	96 U	99 U
IRON	XRF	230,000	1,000,000		10,995	21,389	27,290	9,824	14,093
LEAD	6010B	400	400		—	—	620	—	—
LEAD	XRF	400	400		354	64.35 U	319.6	115.4	228.2
MANGANESE	XRF	18,000	470,000		900 U	2,400 U	1,950 U	810 U	945 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		18.45 U	43	627.2	13.35 U	14.7 U
MOLYBDENUM	XRF	391	10,220		10.5 U	21.3 U	14.55 U	9.3 U	9 U
NICKEL	XRF	16,000	410,000		150 U	433.6	360 U	140.85 U	150 U
RUBIDIUM	XRF	NE	NE		73.5	46.05 U	50.5	40.6	34.5
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		105.4	45.7	85.8	70.3	55.2
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		185.1	230	1,890	238.6	338.4
ZIRCONIUM	XRF	NE	NE		136.6	154.2	159	120.6	62.3

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	141-N01-01-01 10/8/2001	141-N02-01-01 10/8/2001	141-O01-01-01 10/8/2001	141-O01-02-01 10/8/2001	141-O01-03-01 10/8/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		42.3 U	44.55 U	62.55 U	81.75 U	43.65 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		720 U	720 U	690 U	765 U	570 U
COBALT	XRF	47,000	1,000,000		375 U	360 U	1,800	1,620	1,060
COPPER	XRF	31,000	820,000		127 U	126 U	166	165 U	118 U
IRON	XRF	230,000	1,000,000		20,493	15,296	30,592	33,690	22,298
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		319.6	257	660.8	1,050	212.2
MANGANESE	XRF	18,000	470,000		1,215 U	1,170 U	3,648	4,707	3,000
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		18.75 U	20.55 U	24.45 U	34.4	18.45 U
MOLYBDENUM	XRF	391	10,220		10.8 U	13.6	---	---	---
NICKEL	XRF	16,000	410,000		195 U	195 U	345 U	375 U	285 U
RUBIDIUM	XRF	NE	NE		56.9	41.7	78 U	87 U	78.8
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		86.4	74.3	71.3	78	76.7
URANIUM	XRF	16	409		---	---	28.35 U	49	27.75 U
ZINC	XRF	230,000	1,000,000		542.8	368.6	984	961.6	526
ZIRCONIUM	XRF	NE	NE		110.9	82.8	96	75.4	108

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-O02-01-01	141-P01-01-01	141-P01-02-01	141-P01-03-01	141-P02-01-01
				Sample Date	10/8/2001	10/8/2001	10/8/2001	10/8/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		49.35 U	76.65 U	55.8 U	49.95 U	46.2 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		660 U	1,170 U	1,390	1,200 U	810 U
COBALT	XRF	47,000	1,000,000		1,500	658	826	834	420 U
COPPER	XRF	31,000	820,000		129 U	195 U	180 U	165 U	131 U
IRON	XRF	230,000	1,000,000		26,778	43,597	56,474	53,094	26,496
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		279.4	875.2	430	343.4	382.8
MANGANESE	XRF	18,000	470,000		3,738	1,950 U	2,250 U	2,539	1,394 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		21.15 U	33.3 U	26.25 U	23.4 U	20.55 U
MOLYBDENUM	XRF	391	10,220		—	12.75 U	15.3	15.8	12.1
NICKEL	XRF	16,000	410,000		330 U	330 U	345 U	315 U	225 U
RUBIDIUM	XRF	NE	NE		80.85 U	66.6	40.4	45.2	62.5
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		82.6	86.2	91.8	79.6	73.2
URANIUM	XRF	16	409		29.7 U	—	—	—	—
ZINC	XRF	230,000	1,000,000		540.8	1,090	832.8	671.6	522.4
ZIRCONIUM	XRF	NE	NE		127.4	61.3	58.2	47.6	82.8

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-P02-02-01	141-Q01-01-01	141-Q02-01-01	141-Q02-02-01	141-Q02-03-01
				Sample Date	10/8/2001	10/8/2001	10/8/2001	10/8/2001	10/8/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		37.95 U	45.15 U	55.05 U	76.95 U	79.35 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		705 U	465 U	555 U	990 U	780 U
COBALT	XRF	47,000	1,000,000		375 U	420 U	652	2,520	1,040
COPPER	XRF	31,000	820,000		107 U	125 U	132 U	180 U	150 U
IRON	XRF	230,000	1,000,000		20,595	7,040	16,397	55,962	37,299
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		218.2	59.6	382.8	**810.4**	**1,000**
MANGANESE	XRF	18,000	470,000		1,200 U	1,160	2,000	4,960	3,090
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		16.65 U	19.65 U	23.1 U	29.85 U	33.5
MOLYBDENUM	XRF	391	10,220		10.35 U	---	---	---	---
NICKEL	XRF	16,000	410,000		195 U	255 U	285 U	480 U	375 U
RUBIDIUM	XRF	NE	NE		61.2	85.2 U	79.05 U	93.45 U	86.1 U
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		70.8	165.3	55.6	89.5	86.1
URANIUM	XRF	16	409		---	30.9 U	29.1 U	**48.3**	**46.5**
ZINC	XRF	230,000	1,000,000		248.6	204.2	540.8	837.6	808
ZIRCONIUM	XRF	NE	NE		91.9	15.15 U	24.3	72.9	58.9

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-Q02-04-01	141-R01-01-01	141-R02-01-01	141-S01-01-01
				Sample Date	10/8/2001	10/9/2001	10/9/2001	10/8/2001
ARSENIC	6010B	230	6,100		4.4 J	—	—	—
ARSENIC	XRF	230	6,100		121.35 U	35.85 U	37.2 U	45.6 U
BARIUM	6010B	55,000	1,000,000		480	—	—	—
CADMIUM	6010B	390	10,000		11 J	—	—	—
CHROMIUM	6010B	3,900	1,000,000		18 J	—	—	—
CHROMIUM	XRF	3,900	1,000,000		960 U	405 U	360 U	615 U
COBALT	XRF	47,000	1,000,000		1,989	461	466	315 U
COPPER	XRF	31,000	820,000		210	89 U	96 U	109 U
IRON	XRF	230,000	1,000,000		51,482	9,779	7,328	14,592
LEAD	6010B	400	400		3,200 J	—	—	—
LEAD	XRF	400	400		2,349	133.1	131.6	405.6
MANGANESE	XRF	18,000	470,000		5,549	1,490	1,010	1,005 U
MERCURY	7471A	NE	NE		1.7	—	—	—
MERCURY	XRF	NE	NE		49.1	15.3 U	15.9 U	19.8 U
MOLYBDENUM	XRF	391	10,220		—	—	—	11.55 U
NICKEL	XRF	16,000	410,000		465 U	210 U	195 U	165 U
RUBIDIUM	XRF	NE	NE		91.65 U	73.8 U	72.6 U	58.5
SELENIUM	6010B	3,900	100,000		28 UJ	—	—	—
SILVER	6010B	3,900	100,000		28 U	—	—	—
STRONTIUM	XRF	46,924	100,000		99.3	65.1	51.2	94
URANIUM	XRF	16	409		32.25 U	27.45 U	27 U	—
ZINC	XRF	230,000	1,000,000		1,210	131.9	176.3	296.6
ZIRCONIUM	XRF	NE	NE		60.8	151.5	96.1	181.7

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-S01-02-01	141-S02-01-01	141-T01-01-01	141-T01-02-01
				Sample Date	10/8/2001	10/8/2001	10/9/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	—	8.9	—
ARSENIC	XRF	230	6,100		35.55 U	27.45 U	64.95 U	54.45 U
BARIUM	6010B	55,000	1,000,000		—	—	270	—
CADMIUM	6010B	390	10,000		—	—	7.7 J	—
CHROMIUM	6010B	3,900	1,000,000		—	—	22	—
CHROMIUM	XRF	3,900	1,000,000		570 U	540 U	645 U	765 U
COBALT	XRF	47,000	1,000,000		285 U	270 U	345 U	390 U
COPPER	XRF	31,000	820,000		96 U	90 U	143	125 U
IRON	XRF	230,000	1,000,000		12,595	11,398	16,794	21,888
LEAD	6010B	400	400		—	—	1,400 J	—
LEAD	XRF	400	400		167.1	41.4	976.8	518.8
MANGANESE	XRF	18,000	470,000		945 U	885 U	1,080 U	1,260 U
MERCURY	7471A	NE	NE		—	—	0.64	—
MERCURY	XRF	NE	NE		16.8 U	13.05 U	25.5 U	24 U
MOLYBDENUM	XRF	391	10,220		11.25 U	10.8 U	10.5 U	11.4 U
NICKEL	XRF	16,000	410,000		165 U	150 U	180 U	210 U
RUBIDIUM	XRF	NE	NE		34.1	57.9	60.3	82.8
SELENIUM	6010B	3,900	100,000		—	—	5.8 UJ	—
SILVER	6010B	3,900	100,000		—	—	1.4 J	—
STRONTIUM	XRF	46,924	100,000		98.5	80	88.8	94.7
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		203.8	89.6	522	391.8
ZIRCONIUM	XRF	NE	NE		196.2	216.4	105.9	138.7

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-T01-03-01	141-T02-01-01	141-U01-01-01	141-U01-02-01	141-U02-01-01
				Sample Date	10/8/2001	10/8/2001	10/9/2001	10/9/2001	10/9/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		39.75 U	30.6 U	51.6 U	44.25 U	33.6 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		630 U	495 U	495 U	570 U	315 U
COBALT	XRF	47,000	1,000,000		315 U	240 U	907	1,470	441
COPPER	XRF	31,000	820,000		108 U	96 U	135	117 U	79
IRON	XRF	230,000	1,000,000		13,299	9,459	15,898	19,290	6,694
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		225.2	139.7	399.8	156.5	155.4
MANGANESE	XRF	18,000	470,000		1,020 U	795 U	2,069	3,139	869
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		17.25 U	13.8 U	20.25 U	18.15 U	14.25 U
MOLYBDENUM	XRF	391	10,220		11.55 U	9.9 U	---	---	---
NICKEL	XRF	16,000	410,000		165 U	137.7 U	255 U	285 U	165 U
RUBIDIUM	XRF	NE	NE		92	64.2	97.3	121.1	64.65 U
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		94.5	76.4	79.7	99.6	42.5
URANIUM	XRF	16	409		---	---	26.85 U	29.25 U	24.45 U
ZINC	XRF	230,000	1,000,000		236	205.8	426.4	353.6	77.2
ZIRCONIUM	XRF	NE	NE		140	111.1	99.6	134.7	99.2

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-V01-01-01	141-V01-02-01	141-V01-02-01DP	141-V01-03-01	141-V01-04-01
				Sample Date	10/9/2001	10/9/2001	10/9/2001	10/9/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	14	13	—	—
ARSENIC	XRF	230	6,100		59.1 U	72.9 U	—	54.15 U	26.85 U
BARIUM	6010B	55,000	1,000,000		—	320	290	—	—
CADMIUM	6010B	390	10,000		—	5.5 J	4.9 J	—	—
CHROMIUM	6010B	3,900	1,000,000		—	23	18	—	—
CHROMIUM	XRF	3,900	1,000,000		525 U	645 U	—	765 U	555 U
COBALT	XRF	47,000	1,000,000		926	1,100	—	1,400	285 U
COPPER	XRF	31,000	820,000		125 U	150	—	134 U	88 U
IRON	XRF	230,000	1,000,000		17,997	26,496	—	38,579	12,198
LEAD	6010B	400	400		—	**1100 J**	**980 J**	—	—
LEAD	XRF	400	400		**513.6**	**902.4**	—	380.8	43.9
MANGANESE	XRF	18,000	470,000		1,909	2,019	—	3,648	900 U
MERCURY	7471A	NE	NE		—	6.4	6.4	—	—
MERCURY	XRF	NE	NE		23.4 U	28.2 U	—	21.75 U	12.6 U
MOLYBDENUM	XRF	391	10,220		—	—	—	—	10.05 U
NICKEL	XRF	16,000	410,000		270 U	330 U	—	360 U	147.3 U
RUBIDIUM	XRF	NE	NE		95.9	93.3	—	83.55 U	92.7
SELENIUM	6010B	3,900	100,000		—	5.8 UJ	5.7 UJ	—	—
SILVER	6010B	3,900	100,000		—	1.3 J	1.3 J	—	—
STRONTIUM	XRF	46,924	100,000		106.2	124.2	—	90.6	75.6
URANIUM	XRF	16	409		28.05 U	28.8 U	—	47	—
ZINC	XRF	230,000	1,000,000		559.2	848	—	510.4	111.2
ZIRCONIUM	XRF	NE	NE		91.9	79.6	—	53.9	110.8

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-V02-01-01	141-V02-02-01	141-W01-01-01	141-W02-01-01	141-X01-01-01
				Sample Date	10/8/2001	10/8/2001	10/8/2001	10/8/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		56.55 U	32.85 U	29.7 U	29.25 U	17.7 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		645 U	656	540 U	540 U	150 U
COBALT	XRF	47,000	1,000,000		330 U	300 U	270 U	270 U	143 U
COPPER	XRF	31,000	820,000		120 U	93 U	95 U	96 U	60
IRON	XRF	230,000	1,000,000		15,898	12,896	11,597	9,427	2,370
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		617.2	136.5	87.9	39.75 U	54.8
MANGANESE	XRF	18,000	470,000		1,065 U	945 U	885 U	855 U	330 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		23.7 U	15 U	14.4 U	14.7 U	7.95 U
MOLYBDENUM	XRF	391	10,220		10.35 U	11.1 U	10.65 U	11.1 U	—
NICKEL	XRF	16,000	410,000		180 U	165 U	190.7	148.5 U	91.2 U
RUBIDIUM	XRF	NE	NE		61.9	59.9	47.7	52.9	36.75 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		102.9	87.8	83.1	68.9	8.4 U
URANIUM	XRF	16	409		—	—	—	—	14.1 U
ZINC	XRF	230,000	1,000,000		398.2	126	167	85.4	105.2
ZIRCONIUM	XRF	NE	NE		98.2	147.2	133.9	122.3	5.4 U

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-X02-01-01	141-Y01-01-01	141-Y02-01-01	141-Z01-01-01	141-Z02-01-01
				Sample Date	10/9/2001	4/15/2002	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		46.8 U	46.95 U	73.65 U	61.5 U	43.05 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		465 U	5,400 U	7,646 U	6,298 U	5,549 U
COBALT	XRF	47,000	1,000,000		694	385	621	330 U	270 U
COPPER	XRF	31,000	820,000		102 U	108 U	145 U	127 U	109 U
IRON	XRF	230,000	1,000,000		14,899	19,494	34,099	17,600	14,490
LEAD	6010B	400	400		—	—	**930**	—	—
LEAD	XRF	400	400		349.8	241.6	**584.4**	305.8	127
MANGANESE	XRF	18,000	470,000		1,749	1,250	1,930	900 U	814
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		18.75 U	6 U	8.85 U	7.5 U	5.85 U
MOLYBDENUM	XRF	391	10,220		—	—	15.6 U	20.55 U	19.05 U
NICKEL	XRF	16,000	410,000		240 U	195 U	285 U	240 U	210 U
RUBIDIUM	XRF	NE	NE		89.4	—	122.1	103.3	92.2
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		85	—	60.7	49.8	50
URANIUM	XRF	16	409		25.65 U	—	—	—	—
ZINC	XRF	230,000	1,000,000		323.8	538	740.8	381.4	206.2
ZIRCONIUM	XRF	NE	NE		110	—	92.7	57.8	186.9

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-AA01-01-01	141-AA02-01-01	141-AA03-01-01	141-AB01-01-01	141-AB02-01-01
				Sample Date	4/15/2002	4/15/2002	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		31.35 U	30.9 U	28.65 U	44.1 U	36.75 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		3,449 U	3,600 U	3,749 U	4,200 U	3,000 U
COBALT	XRF	47,000	1,000,000		190	224	242	185	270
COPPER	XRF	31,000	820,000		64 U	85	69 U	112	71 U
IRON	XRF	230,000	1,000,000		11,494	13,094	8,198	8,410	11,597
LEAD	6010B	400	400		—	—	—	750 J	—
LEAD	XRF	400	400		204.8	164.6	63.2	336.2	409.6
MANGANESE	XRF	18,000	470,000		1,939	1,300	1,090	3,019	405 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		4.05 U	4.2 U	4.05 U	5.7 U	4.35 U
MOLYBDENUM	XRF	391	10,220		12.15 U	12.45 U	14.4 U	13.95 U	10.2 U
NICKEL	XRF	16,000	410,000		119.85 U	130.5 U	132 U	126.45 U	115.5 U
RUBIDIUM	XRF	NE	NE		73.6	75.4	76.2	81.2	55.6
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		57.5	65.3	39.7	50.9	82.2
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		225.4	234.6	112.7	239	622.4
ZIRCONIUM	XRF	NE	NE		141.9	135.1	125.3	98.8	91.2

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C. Action Level	141-AC01-01-01 4/15/2002	141-AC02-01-01 4/15/2002	141-AD01-01-01 4/15/2002	141-AD02-01-01 4/15/2002
ARSENIC	6010B	230	6,100	---	---	---	---
ARSENIC	XRF	230	6,100	35.4 U	31.95 U	41.55 U	64.2 U
BARIUM	6010B	55,000	1,000,000	---	---	---	---
CADMIUM	6010B	390	10,000	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000	4,649 U	4,049 U	4,500 U	5,098 U
COBALT	XRF	47,000	1,000,000	210 U	236	225 U	468
COPPER	XRF	31,000	820,000	81 U	267	87 U	102 U
IRON	XRF	230,000	1,000,000	11,296	9,958	13,094	32,896
LEAD	6010B	400	400	---	---	---	**1,700 J**
LEAD	XRF	400	400	87.7	106.2	177.9	**1,110**
MANGANESE	XRF	18,000	470,000	1,140	2,219	630 U	1,789
MERCURY	7471A	NE	NE	---	---	---	---
MERCURY	XRF	NE	NE	5.1 U	4.8 U	5.25 U	7.2 U
MOLYBDENUM	XRF	391	10,220	15.45 U	12.6 U	14.25 U	12.15 U
NICKEL	XRF	16,000	410,000	165 U	138.6 U	165 U	180 U
RUBIDIUM	XRF	NE	NE	87.9	23.4	99.8	101.4
SELENIUM	6010B	3,900	100,000	---	---	---	---
SILVER	6010B	3,900	100,000	---	---	---	---
STRONTIUM	XRF	46,924	100,000	63.4	19.8	51.9	68.2
URANIUM	XRF	16	409	---	---	---	---
ZINC	XRF	230,000	1,000,000	152.9	404.6	250.2	1,040
ZIRCONIUM	XRF	NE	NE	97.3	9.2	58.3	76.4

Table 3-10
(Continued)

Soil Sampling Analytical Results for Site 141
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	141-AD02-02-01	141-AE01-01-01	141-AE02-01-01
				Sample Date	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		--	--	--
ARSENIC	XRF	230	6,100		47.85 U	47.85 U	47.1 U
BARIUM	6010B	55,000	1,000,000		--	--	--
CADMIUM	6010B	390	10,000		--	--	--
CHROMIUM	6010B	3,900	1,000,000		--	--	--
CHROMIUM	XRF	3,900	1,000,000		4,949 U	5,400 U	5,246 U
COBALT	XRF	47,000	1,000,000		532	271	289
COPPER	XRF	31,000	820,000		97	102 U	106 U
IRON	XRF	230,000	1,000,000		38,298	13,389	16,090
LEAD	6010B	400	400		--	--	--
LEAD	XRF	400	400		**586.8**	279	242.4
MANGANESE	XRF	18,000	470,000		952	1,130	774
MERCURY	7471A	NE	NE		--	--	--
MERCURY	XRF	NE	NE		5.7 U	6.3 U	6.15 U
MOLYBDENUM	XRF	391	10,220		14.5	16.2 U	16.2 U
NICKEL	XRF	16,000	410,000		180 U	195 U	379.8
RUBIDIUM	XRF	NE	NE		65.4	70.6	107.7
SELENIUM	6010B	3,900	100,000		--	--	--
SILVER	6010B	3,900	100,000		--	--	--
STRONTIUM	XRF	46,924	100,000		66.8	37.1	49.8
URANIUM	XRF	16	409		--	--	--
ZINC	XRF	230,000	1,000,000		437.6	329.2	222.6
ZIRCONIUM	XRF	NE	NE		43.6	65.5	88.3

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
B-Constituent was detected in blank.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances
* 141-A01-01-01 laboratory sample was collected on 8/21/2001

Table 3-11

Extent of Lead Contaminated Soil Calculations for Site 141
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
141	141-1	141-C02 141-F01 141-Q02	6 12 24	14	0.42	2,689	3,227	1,355
	141-2	141-D01	18	18	0.54	602	722	390
	141-3	141-E02	6	6	0.18	344	413	74
	141-4	141-P01	12	12	0.36	662	794	286
	141-5	141-L02 141-O01	6 12	9	0.27	1,444	1,733	468
	141-6	141-S01	6	6	0.18	700	840	151
	141-7	141-J02 141-T01	6 12	9	0.27	1,108	1,330	359
	141-8	141-K02	6	6	0.18	385	462	83
	141-9	141-V01 141-V02	12 6	9	0.27	3,208	3,850	1,039
	141-10	141-Y02	6	6	0.18	424	509	92
	141-11	141-AD02	12	12	0.36	279	335	121
	141-12A	141-AB02	6	6	0.18	693	832	150
	141-12B	141-AB01	6	6	0.18	816	979	176
							SITE 141 TOTAL=	**4,744**

[1]- See Figure 3-3
m^2 - Square meters
yd^2- Square Yards
yd^3- Cubic Yards

Table 3-12

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-A01-01-01	143-A02-01-01	143-A03-01-01	143-A04-01-01	143-A05-01-01
				Sample Date	11/16/201	11/16/201	11/16/201	11/16/2001	11/16/2001
ARSENIC	6010B	230	6,100		—	—	—	15	—
ARSENIC	XRF	230	6,100		—	—	—	—	—
BARIUM	6010B	55,000	1,000,000		—	—	—	170	—
CADMIUM	6010B	390	10,000		—	—	—	3	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	16	—
CHROMIUM	XRF	3,900	1,000,000		—	—	—	—	—
COBALT	XRF	47,000	1,000,000		—	—	—	—	—
COPPER	XRF	31,000	820,000		—	—	—	—	—
IRON	XRF	230,000	1,000,000		—	—	—	—	—
LEAD	6010B	400	400		—	—	—	370	—
LEAD	XRF	400	400		98	219	307	315	225
MANGANESE	XRF	18,000	470,000		—	—	—	—	—
MERCURY	7471A	NE	NE		—	—	—	0.46 J	—
MERCURY	XRF	NE	NE		—	—	—	—	—
MOLYBDENUM	XRF	391	10,220		—	—	—	—	—
NICKEL	XRF	16,000	410,000		—	—	—	—	—
RUBIDIUM	XRF	NE	NE		—	—	—	—	—
SELENIUM	6010B	3,900	100,000		—	—	—	6.2 U	—
SILVER	6010B	3,900	100,000		—	—	—	6.2 U	—
STRONTIUM	XRF	46,924	100,000		—	—	—	—	—
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		—	—	—	—	—
ZIRCONIUM	XRF	NE	NE		—	—	—	—	—

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID Sample Date 143-A06-01-01 11/16/2001	143-A07-01-01 11/16/2001	143-A08-01-01 11/16/2001	143-A09-01-01 11/16/2001	143-A10-01-01 11/16/2001
ARSENIC	6010B	230	6,100	---	---	---	---	---
ARSENIC	XRF	230	6,100	---	---	---	---	---
BARIUM	6010B	55,000	1,000,000	---	---	---	---	---
CADMIUM	6010B	390	10,000	---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000	---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000	---	---	---	---	---
COBALT	XRF	47,000	1,000,000	---	---	---	---	---
COPPER	XRF	31,000	820,000	---	---	---	---	---
IRON	XRF	230,000	1,000,000	---	---	---	---	---
LEAD	6010B	400	400	---	---	---	---	---
LEAD	XRF	400	400	225 U	173	183	250	246
MANGANESE	XRF	18,000	470,000	---	---	---	---	---
MERCURY	7471A	NE	NE	---	---	---	---	---
MERCURY	XRF	NE	NE	---	---	---	---	---
MOLYBDENUM	XRF	391	10,220	---	---	---	---	---
NICKEL	XRF	16,000	410,000	---	---	---	---	---
RUBIDIUM	XRF	NE	NE	---	---	---	---	---
SELENIUM	6010B	3,900	100,000	---	---	---	---	---
SILVER	6010B	3,900	100,000	---	---	---	---	---
STRONTIUM	XRF	46,924	100,000	---	---	---	---	---
URANIUM	XRF	16	409	---	---	---	---	---
ZINC	XRF	230,000	1,000,000	---	---	---	---	---
ZIRCONIUM	XRF	NE	NE	---	---	---	---	---

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-A11-01-01	143-A12-01-01	143-A13-01-01	143-A14-01-01	143-A15-01-01
				Sample Date	11/16/2001	11/16/2001	11/16/2001	11/16/2001	11/16/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		—	—	—	—	—
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		—	—	—	—	—
COBALT	XRF	47,000	1,000,000		—	—	—	—	—
COPPER	XRF	31,000	820,000		—	—	—	—	—
IRON	XRF	230,000	1,000,000		—	—	—	—	—
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		240	U	124	289	241
MANGANESE	XRF	18,000	470,000		—	—	—	—	—
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		—	—	—	—	—
MOLYBDENUM	XRF	391	10,220		—	—	—	—	—
NICKEL	XRF	16,000	410,000		—	—	—	—	—
RUBIDIUM	XRF	NE	NE		—	—	—	—	—
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		—	—	—	—	—
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		—	—	—	—	—
ZIRCONIUM	XRF	NE	NE		—	—	—	—	—

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	143-A16-01-01 11/16/2001	143-A17-01-01 11/16/2001	143-A18-01-01 11/16/2001	143-B01-01-01 8/23/2001	143-B02-01-01 8/23/2001
ARSENIC	6010B	230	6,100	---	---	---	---	---
ARSENIC	XRF	230	6,100	---	---	---	44.4 U	55.5 U
BARIUM	6010B	55,000	1,000,000	---	---	---	---	---
CADMIUM	6010B	390	10,000	---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000	---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000	---	---	---	610	888
COBALT	XRF	47,000	1,000,000	---	---	---	480 U	510 U
COPPER	XRF	31,000	820,000	---	---	---	127 U	128 U
IRON	XRF	230,000	1,000,000	---	---	---	16,192	22,797
LEAD	6010B	400	400	---	---	---	---	360
LEAD	XRF	400	400	104	163	222	101	301
MANGANESE	XRF	18,000	470,000	---	---	---	1,470 U	1,650 U
MERCURY	7471A	NE	NE	---	---	---	---	---
MERCURY	XRF	NE	NE	---	---	---	18 U	21.15 U
MOLYBDENUM	XRF	391	10,220	---	---	---	13.2 U	12.75 U
NICKEL	XRF	16,000	410,000	---	---	---	210 U	314.8
RUBIDIUM	XRF	NE	NE	---	---	---	34.95 U	67
SELENIUM	6010B	3,900	100,000	---	---	---	---	---
SILVER	6010B	3,900	100,000	---	---	---	---	---
STRONTIUM	XRF	46,924	100,000	---	---	---	115.4	103.4
URANIUM	XRF	16	409	---	---	---	---	---
ZINC	XRF	230,000	1,000,000	---	---	---	416.4	344
ZIRCONIUM	XRF	NE	NE	---	---	---	76.2	119

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-C01-01-01	143-C01-02-01	143-C02-01-01	143-D01-01-01	143-D02-01-01
				Sample Date	8/23/2001	8/23/2001	8/23/2001	8/23/2001	8/23/2001
ARSENIC	6010B	230	6,100		—	—	—	—	6 J
ARSENIC	XRF	230	6,100		57.6 U	52.05 U	39.6 U	38.1 U	41.4 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	140 J
CADMIUM	6010B	390	10,000		—	—	—	—	2.3 J
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	16 J
CHROMIUM	XRF	3,900	1,000,000		300 U	421	658	3,210	1,699
COBALT	XRF	47,000	1,000,000		466	525 U	405 U	450 U	405 U
COPPER	XRF	31,000	820,000		169	124 U	203	137 U	130 U
IRON	XRF	230,000	1,000,000		19,699	24,896	17,600	19,994	17,088
LEAD	6010B	400	400		490	1,000	—	—	280 J
LEAD	XRF	400	400		508	257	64	53 U	148
MANGANESE	XRF	18,000	470,000		1,394 U	1,650 U	1,274 U	1,500 U	1,640
MERCURY	7471A	NE	NE		—	—	—	—	0.086 J
MERCURY	XRF	NE	NE		23.25 U	21 U	59.7	18.15 U	19.35 U
MOLYBDENUM	XRF	391	10,220		10.95 U	12 U	11.25 U	27.2	15.7
NICKEL	XRF	16,000	410,000		195 U	225 U	195 U	255 U	265.6
RUBIDIUM	XRF	NE	NE		52.1	59.3	71.4	82.3	93.7
SELENIUM	6010B	3,900	100,000		—	—	—	—	7.6 UJ
SILVER	6010B	3,900	100,000		—	—	—	—	7.6 UJ
STRONTIUM	XRF	46,924	100,000		103.6	101.7	116	103.9	100.4
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		577.2	426	353.2	106.7	176.3
ZIRCONIUM	XRF	NE	NE		126.3	108.3	143.2	246.2	166.1

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-E01-01-01	143-E01-01-01DP	143-E02-01-01	143-F01-01-01	143-F01-02-01
				Sample Date	8/23/2001	8/23/2001	8/23/2001	8/23/2001	8/23/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		48.3 U	—	34.05 U	63.9 U	51.3 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,440	—	1,130	369	332
COBALT	XRF	47,000	1,000,000		390 U	—	330 U	555 U	465 U
COPPER	XRF	31,000	820,000		131 U	—	114 U	131 U	120
IRON	XRF	230,000	1,000,000		17,792	—	12,998	27,187	22,298
LEAD	6010B	400	400		390	460	—	610	340
LEAD	XRF	400	400		289	—	48 U	509	328
MANGANESE	XRF	18,000	470,000		1,244 U	—	1,110 U	1,650 U	1,394 U
MERCURY	7471A	NE	NE		—	—		—	—
MERCURY	XRF	NE	NE		21 U	—	16.65 U	23.1 U	21 U
MOLYBDENUM	XRF	391	10,220		14	—	12.9 U	12.15 U	11.1 U
NICKEL	XRF	16,000	410,000		210 U	—	195 U	225 U	195 U
RUBIDIUM	XRF	NE	NE		68.1	—	74.7	102.2	90.3
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		130.9	—	140.1	123.7	118
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		261.8	—	105.8	494.4	376.4
ZIRCONIUM	XRF	NE	NE		153.9	—	153.2	146.9	142.8

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-F02-01-01	143-G01-01-01	143-G02-01-01	143-H01-01-01	143-H02-01-01
				Sample Date	8/23/2001	8/23/2001	8/23/2001	8/23/2001	8/23/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		54.9 U	58.35 U	54.15 U	56.7 U	67.2 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		868	1,500	345 U	938	814
COBALT	XRF	47,000	1,000,000		540 U	630 U	510 U	585 U	540 U
COPPER	XRF	31,000	820,000		135 U	210 U	165 U	149 U	156
IRON	XRF	230,000	1,000,000		23,296	32,486	24,090	25,498	26,778
LEAD	6010B	400	400		—	—	430	—	660
LEAD	XRF	400	400		257	285	326	226	606
MANGANESE	XRF	18,000	470,000		1,650 U	2,100 U	1,500 U	1,950 U	1,650 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		22.35 U	27.3 U	22.8 U	22.35 U	26.4 U
MOLYBDENUM	XRF	391	10,220		13.05 U	18.4	10.65 U	14.55 U	11.25 U
NICKEL	XRF	16,000	410,000		225 U	330 U	225 U	376.6	225 U
RUBIDIUM	XRF	NE	NE		87.3	56.7	49.1	58.5	47.9
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		107.3	99.6	83.1	75.1	60
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		431.2	590.4	1520	402.4	705.2
ZIRCONIUM	XRF	NE	NE		120.7	83.2	50.2	81.2	72.6

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-H02-01-02	143-H02-02-01	143-I01-01-01	143-I02-01-01	143-J01-01-01
				Sample Date	8/23/2001	8/23/2001	8/23/2001	8/23/2001	8/23/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		60.3 U	62.8	54.3 U	39.9 U	44.1 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		475	878	778	285 U	1,610
COBALT	XRF	47,000	1,000,000		495 U	510 U	510 U	435 U	405 U
COPPER	XRF	31,000	820,000		120 U	119 U	1,440	98 U	137 U
IRON	XRF	230,000	1,000,000		25,395	22,298	20,698	17,894	17,600
LEAD	6010B	400	400		---	**470**	---	130	---
LEAD	XRF	400	400		**528**	323	51 U	71	171
MANGANESE	XRF	18,000	470,000		1,500 U	1,650 U	1,650 U	1,304 U	1,334 U
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		22.5 U	21.15 U	330.6	15.75 U	21.3 U
MOLYBDENUM	XRF	391	10,220		10.8 U	12.9 U	13.8 U	11.7 U	12.9 U
NICKEL	XRF	16,000	410,000		210 U	237.4	285 U	180 U	225 U
RUBIDIUM	XRF	NE	NE		45.3	72.9	37.95 U	83.3	70.8
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		67.4	64.8	113.4	136.7	103.8
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		592	253	979.2	124.7	282.8
ZIRCONIUM	XRF	NE	NE		70.5	125.7	117.4	139.6	128.5

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-J02-01-01	143-K01-01-01	143-K01-02-01	143-K01-02-01DP	143-K01-03-01
				Sample Date	8/23/2001	8/23/2001	8/23/2001	8/23/2001	8/23/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		54.6 U	63.75 U	51.3 U	—	39.45 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		3,808	1,050 U	2,859	—	795 U
COBALT	XRF	47,000	1,000,000		465 U	495 U	435 U	—	390 U
COPPER	XRF	31,000	820,000		165 U	195 U	148 U	—	115 U
IRON	XRF	230,000	1,000,000		21,389	18,291	21,990	—	18,099
LEAD	6010B	400	400		410	360	160	190	—
LEAD	XRF	400	400		327	340	389	—	153
MANGANESE	XRF	18,000	470,000		1,500 U	1,650 U	2,309	—	1,260 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		23.7 U	29.7 U	22.05 U	—	17.55 U
MOLYBDENUM	XRF	391	10,220		16.4	16.35 U	16.2	—	15.7
NICKEL	XRF	16,000	410,000		465.2	285 U	279	—	210 U
RUBIDIUM	XRF	NE	NE		66.3	96.6	69.4	—	68
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		125	94.8	91.3	—	96.6
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		467.2	574.8	384.6	—	149.4
ZIRCONIUM	XRF	NE	NE		141	125	124.3	—	113

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID Sample Date 143-K02-01-01 8/23/2001	143-L01-01-01 8/23/2001	143-L01-02-01 8/23/2001	143-L02-01-01 8/23/2001	143-M01-01-01 10/10/2001
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	40.35 U	70.05 U	46.35 U	53.7 U	38.7 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	417	1,240	2,699	500	405 U
COBALT	XRF	47,000	1,000,000	435 U	557	435 U	540 U	390 U
COPPER	XRF	31,000	820,000	209	180 U	143 U	122 U	94 U
IRON	XRF	230,000	1,000,000	17,190	25,088	23,296	31,181	9,235
LEAD	6010B	400	400	—	770	250	—	—
LEAD	XRF	400	400	66	732	261	357	131
MANGANESE	XRF	18,000	470,000	1,350 U	1,810	1,484 U	1,650 U	1,020
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	35.4	29.25 U	20.1 U	20.7 U	15.9 U
MOLYBDENUM	XRF	391	10,220	12.75 U	14.1 U	14.3	11.4 U	—
NICKEL	XRF	16,000	410,000	195 U	270 U	302.6	225 U	210 U
RUBIDIUM	XRF	NE	NE	67.4	63.6	81.3	88.9	76.65 U
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	118.7	110.5	103.2	109.1	85.2
URANIUM	XRF	16	409	—	—	—	—	28.5 U
ZINC	XRF	230,000	1,000,000	247.4	690	439.2	476.4	138.6
ZIRCONIUM	XRF	NE	NE	207.6	122	150.9	114.2	141.3

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-M02-01-01	143-N01-01-01	143-N02-01-01	143-O01-01-01	143-O01-02-01
				Sample Date	10/10/2001	10/10/2001	10/10/2001	10/10/2001	10/10/2001
ARSENIC	6010B	230	6,100		—	—	—	13	—
ARSENIC	XRF	230	6,100		33.75 U	34.35 U	27.9 U	65.7 U	36.9 U
BARIUM	6010B	55,000	1,000,000		—	—	—	310 J	—
CADMIUM	6010B	390	10,000		—	—	—	7.5	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	23	—
CHROMIUM	XRF	3,900	1,000,000		390 U	480 U	420 U	600 U	420 U
COBALT	XRF	47,000	1,000,000		381	240 U	210 U	886	390 U
COPPER	XRF	31,000	820,000		89 U	91 U	77 U	134 U	94 U
IRON	XRF	230,000	1,000,000		8,538	9,408	7,808	24,397	9,517
LEAD	6010B	400	400		—	—	—	790 J	—
LEAD	XRF	400	400		53	213	101	704	68
MANGANESE	XRF	18,000	470,000		1,140	750 U	675 U	1,720	1,050
MERCURY	7471A	NE	NE		—	—	—	0.55 J	—
MERCURY	XRF	NE	NE		13.8 U	15.3 U	12.9 U	26.1 U	15 U
MOLYBDENUM	XRF	391	10,220		—	9.45 U	9 U	—	—
NICKEL	XRF	16,000	410,000		210 U	133.8 U	124.5 U	315 U	210 U
RUBIDIUM	XRF	NE	NE		87.8	60.3	44.8	82.8 U	84.45 U
SELENIUM	6010B	3,900	100,000		—	—	—	6 U	—
SILVER	6010B	3,900	100,000		—	—	—	6 U	—
STRONTIUM	XRF	46,924	100,000		74.2	88	76.3	111.4	143.8
URANIUM	XRF	16	409		27.6 U	—	—	30.45 U	31.2 U
ZINC	XRF	230,000	1,000,000		102.3	232.8	132.8	683.6	140
ZIRCONIUM	XRF	NE	NE		162.8	121.1	96.5	142.5	229.2

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	143-O02-01-01 10/10/2001	143-O02-02-01 10/10/2001	143-P01-01-01 10/9/2001	143-P02-01-01 10/9/2001	143-Q01-01-01 10/10/2001
ARSENIC	6010B	230	6,100	---	---	---	---	---
ARSENIC	XRF	230	6,100	52.5 U	37.8 U	28.35 U	29.55 U	34.65 U
BARIUM	6010B	55,000	1,000,000	---	---	---	---	---
CADMIUM	6010B	390	10,000	---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000	---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000	630 U	510 U	465 U	688	420 U
COBALT	XRF	47,000	1,000,000	330 U	255 U	225 U	255 U	483
COPPER	XRF	31,000	820,000	122 U	89 U	83 U	91 U	94 U
IRON	XRF	230,000	1,000,000	16,499	11,494	8,429	9,280	13,696
LEAD	6010B	400	400	---	---	---	---	---
LEAD	XRF	400	400	597	271	96	81	138
MANGANESE	XRF	18,000	470,000	1,065 U	825 U	735 U	795 U	1,120
MERCURY	7471A	NE	NE	---	---	---	---	---
MERCURY	XRF	NE	NE	21.9 U	16.35 U	13.5 U	14.25 U	14.25 U
MOLYBDENUM	XRF	391	10,220	10.35 U	10.05 U	9.3 U	11	---
NICKEL	XRF	16,000	410,000	180 U	142.05 U	127.5 U	142.35 U	225 U
RUBIDIUM	XRF	NE	NE	60.4	66.3	56.4	57.9	68.85 U
SELENIUM	6010B	3,900	100,000	---	---	---	---	---
SILVER	6010B	3,900	100,000	---	---	---	---	---
STRONTIUM	XRF	46,924	100,000	92.2	102	95.8	136.5	81.6
URANIUM	XRF	16	409	---	---	---	---	25.35 U
ZINC	XRF	230,000	1,000,000	515.6	204.1	109.7	140.4	195.2
ZIRCONIUM	XRF	NE	NE	114.9	135	107.1	121.8	95.2

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-Q02-01-01	143-R01-01-01	143-R02-01-01	143-S01-01-01
				Sample Date	10/10/2001	10/9/2001	10/10/2001	10/10/2001
ARSENIC	6010B	230	6,100		—	—	6.9	—
ARSENIC	XRF	230	6,100		35.55 U	26.7 U	31.05 U	32.7 U
BARIUM	6010B	55,000	1,000,000		—	—	280 J	—
CADMIUM	6010B	390	10,000		—	—	6.5	—
CHROMIUM	6010B	3,900	1,000,000		—	—	25	—
CHROMIUM	XRF	3,900	1,000,000		390 U	465 U	435 U	405 U
COBALT	XRF	47,000	1,000,000		418	240 U	210 U	375 U
COPPER	XRF	31,000	820,000		92 U	81 U	80 U	88 U
IRON	XRF	230,000	1,000,000		9,997	9,357	9,280	9,216
LEAD	6010B	400	400		—	—	800 J	—
LEAD	XRF	400	400		152	82	212	44 U
MANGANESE	XRF	18,000	470,000		1,280	750 U	690 U	978
MERCURY	7471A	NE	NE		—	—	0.39 J	—
MERCURY	XRF	NE	NE		15 U	12.6 U	14.1 U	13.5 U
MOLYBDENUM	XRF	391	10,220		—	8.85 U	7.8 U	—
NICKEL	XRF	16,000	410,000		195 U	130.05 U	120.3 U	210 U
RUBIDIUM	XRF	NE	NE		66.6 U	55.2	49.7	95.5
SELENIUM	6010B	3,900	100,000		—	—	6.5 U	—
SILVER	6010B	3,900	100,000		—	—	4.5 J	—
STRONTIUM	XRF	46,924	100,000		82.1	84.7	62.7	48.3
URANIUM	XRF	16	409		24.75 U	—	—	28.05 U
ZINC	XRF	230,000	1,000,000		224	161	211.2	71.6
ZIRCONIUM	XRF	NE	NE		84.6	93.2	55.5	145.4

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	143-S02-01-01 10/10/2001	143-T01-01-01 10/10/2001	143-T02-01-01 10/10/2001	143-U01-01-01 10/9/2001
ARSENIC	6010B	230	6,100	—	—	—	—
ARSENIC	XRF	230	6,100	33.6 U	30.9 U	36.15 U	25.95 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	435 U	405 U	480 U	420 U
COBALT	XRF	47,000	1,000,000	420 U	375 U	450 U	195 U
COPPER	XRF	31,000	820,000	96 U	84 U	97 U	74 U
IRON	XRF	230,000	1,000,000	10,995	10,899	12,096	8,147
LEAD	6010B	400	400	—	—	—	—
LEAD	XRF	400	400	46 U	67	48 U	122
MANGANESE	XRF	18,000	470,000	1,180	1,220	1,480	660 U
MERCURY	7471A	NE	NE	—	—	—	—
MERCURY	XRF	NE	NE	13.65 U	12.45 U	15 U	11.85 U
MOLYBDENUM	XRF	391	10,220	—	—	—	8.25 U
NICKEL	XRF	16,000	410,000	225 U	195 U	240 U	116.55 U
RUBIDIUM	XRF	NE	NE	98.3	72.75 U	85.65 U	50.2
SELENIUM	6010B	3,900	100,000	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—
STRONTIUM	XRF	46,924	100,000	95.5	71.9	68.5	63.1
URANIUM	XRF	16	409	28.35 U	27.45 U	32.25 U	—
ZINC	XRF	230,000	1,000,000	117.3	82.1	53.85 U	123.3
ZIRCONIUM	XRF	NE	NE	141.1	187.8	180.7	99.3

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-U02-01-01	143-V01-01-01	143-V01-01-01DP	143-V01-02-01
				Sample Date	10/9/2001	10/10/2001	10/10/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	14	14	—
ARSENIC	XRF	230	6,100		27.9 U	51.75 U	—	38.4 U
BARIUM	6010B	55,000	1,000,000		—	410 J	380 J	—
CADMIUM	6010B	390	10,000		—	11	9.6	—
CHROMIUM	6010B	3,900	1,000,000		—	26	18 J	—
CHROMIUM	XRF	3,900	1,000,000		525 U	930 U	—	975 U
COBALT	XRF	47,000	1,000,000		255 U	500	—	549
COPPER	XRF	31,000	820,000		94 U	150 U	—	150 U
IRON	XRF	230,000	1,000,000		9,280	31,386	—	40,986
LEAD	6010B	400	400		—	790 J	540 J	—
LEAD	XRF	400	400		48	436	—	167
MANGANESE	XRF	18,000	470,000		825 U	1,500 U	—	1,650 U
MERCURY	7471A	NE	NE		—	0.27 J	0.85	—
MERCURY	XRF	NE	NE		12.75 U	23.1 U	—	19.05 U
MOLYBDENUM	XRF	391	10,220		10.65 U	11.4 U	—	12.2
NICKEL	XRF	16,000	410,000		150 U	255 U	—	270 U
RUBIDIUM	XRF	NE	NE		57.9	48.8	—	57.9
SELENIUM	6010B	3,900	100,000		—	6.3 U	31 U	—
SILVER	6010B	3,900	100,000		—	6.3 U	31 U	—
STRONTIUM	XRF	46,924	100,000		76.4	81.3	—	88.1
URANIUM	XRF	16	409		—	—	—	
ZINC	XRF	230,000	1,000,000		86.3	784.8	—	747.6
ZIRCONIUM	XRF	NE	NE		131.7	75.6	—	79.7

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID Sample Date 143-V02-01-01 10/10/2001	143-V02-02-01 10/10/2001	143-W01-01-01 10/9/2001	143-W02-01-01 10/9/2001
ARSENIC	6010B	230	6,100	—	—	—	—
ARSENIC	XRF	230	6,100	48 U	39 U	33.75 U	28.2 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	465 U	435 U	555 U	465 U
COBALT	XRF	47,000	1,000,000	465 U	435 U	270 U	210 U
COPPER	XRF	31,000	820,000	105 U	107 U	99 U	81 U
IRON	XRF	230,000	1,000,000	16,589	11,898	9,306	7,328
LEAD	6010B	400	400	—	—	—	—
LEAD	XRF	400	400	392	99	95	101
MANGANESE	XRF	18,000	470,000	1,095 U	1,020 U	870 U	705 U
MERCURY	7471A	NE	NE	—	—	—	—
MERCURY	XRF	NE	NE	18.3 U	15.6 U	15.45 U	13.35 U
MOLYBDENUM	XRF	391	10,220	—	—	11.85 U	8.85 U
NICKEL	XRF	16,000	410,000	240 U	240 U	150 U	124.35 U
RUBIDIUM	XRF	NE	NE	84.3	121.2	50.6	50.7
SELENIUM	6010B	3,900	100,000	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—
STRONTIUM	XRF	46,924	100,000	86.1	139.4	101.4	84.4
URANIUM	XRF	16	409	25.35 U	29.25 U	—	—
ZINC	XRF	230,000	1,000,000	348.2	239.2	123.2	145.9
ZIRCONIUM	XRF	NE	NE	88.9	156.8	120	94.5

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-X01-01-01	143-X02-01-01	143-Y01-01-01	143-Y02-01-01
				Sample Date	4/15/2002	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		45.45 U	40.95 U	44.25 U	43.05 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		5,098 U	4,200 U	4,500 U	4,500 U
COBALT	XRF	47,000	1,000,000		270 U	470	240 U	303
COPPER	XRF	31,000	820,000		101 U	76 U	96 U	89 U
IRON	XRF	230,000	1,000,000		15,194	23,693	11,597	10,598
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		158	415	175	196
MANGANESE	XRF	18,000	470,000		977	1,470	652	624
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		6.15 U	4.8 U	5.7 U	5.25 U
MOLYBDENUM	XRF	391	10,220		17.55 U	16.8 U	21.1	17.85 U
NICKEL	XRF	16,000	410,000		180 U	150 U	180 U	180 U
RUBIDIUM	XRF	NE	NE		101	82.4	97.1	84.4
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		106.7	99.1	89.8	80.9
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		284.8	485.6	323.4	212.8
ZIRCONIUM	XRF	NE	NE		170	64.1	86.9	128.4

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-Z01-01-01	143-Z02-01-01	143-AA01-01-01	143-AA02-01-01
				Sample Date	4/15/2002	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		---	---	---	---
ARSENIC	XRF	230	6,100		54.15 U	40.5 U	49.05 U	30.75 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		5,098 U	4,500 U	4,800 U	4,500 U
COBALT	XRF	47,000	1,000,000		255 U	210 U	255	210 U
COPPER	XRF	31,000	820,000		116	86 U	100 U	75 U
IRON	XRF	230,000	1,000,000		12,595	8,698	12,000	10,598
LEAD	6010B	400	400		---	---	---	---
LEAD	XRF	400	400		259	159	228	42
MANGANESE	XRF	18,000	470,000		705 U	1,709	1,160	2,400
MERCURY	7471A	NE	NE		---	---	---	---
MERCURY	XRF	NE	NE		7.05 U	5.25 U	6.3 U	4.35 U
MOLYBDENUM	XRF	391	10,220		16.5 U	19.05 U	17.85 U	17.4 U
NICKEL	XRF	16,000	410,000		195 U	150 U	180 U	148.8 U
RUBIDIUM	XRF	NE	NE		112	97.3	72.3	105.4
SELENIUM	6010B	3,900	100,000		---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---
STRONTIUM	XRF	46,924	100,000		97.4	110.7	99.6	110.4
URANIUM	XRF	16	409		---	---	---	---
ZINC	XRF	230,000	1,000,000		228.8	162.1	266.4	84.6
ZIRCONIUM	XRF	NE	NE		199	173.4	174.8	133.4

Table 3-12
(Continued)

Soil Sampling Analytical Results for Site 143
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	143-AB01-01-01	143-AB02-01-01	143-AC01-01-01	143-AC02-01-01
				Sample Date	4/15/2002	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		--	--	--	--
ARSENIC	XRF	230	6,100		39.9 U	39.15 U	34.5 U	26.55 U
BARIUM	6010B	55,000	1,000,000		--	--	--	--
CADMIUM	6010B	390	10,000		--	--	--	--
CHROMIUM	6010B	3,900	1,000,000		--	--	--	--
CHROMIUM	XRF	3,900	1,000,000		4,049 U	3,749 U	4,349 U	3,300 U
COBALT	XRF	47,000	1,000,000		210 U	272	195 U	171
COPPER	XRF	31,000	820,000		85 U	82	78 U	70 U
IRON	XRF	230,000	1,000,000		9,235	12,595	8,538	7,526
LEAD	6010B	400	400		--	--	--	--
LEAD	XRF	400	400		152	346	92	33 U
MANGANESE	XRF	18,000	470,000		555 U	2,440	2,259	450 U
MERCURY	7471A	NE	NE		--	--	--	--
MERCURY	XRF	NE	NE		5.1 U	4.95 U	4.5 U	3.75 U
MOLYBDENUM	XRF	391	10,220		78.3 U	17.25 U	12.9 U	15.45 U
NICKEL	XRF	16,000	410,000		165 U	127.05 U	142.8 U	133.2 U
RUBIDIUM	XRF	NE	NE		133.95 U	93.3	98.2	108.7
SELENIUM	6010B	3,900	100,000		--	--	--	--
SILVER	6010B	3,900	100,000		--	--	--	--
STRONTIUM	XRF	46,924	100,000		46.65 U	114.6	129.5	91.6
URANIUM	XRF	16	409		--	--	--	--
ZINC	XRF	230,000	1,000,000		148.9	338.8	143.9	93.5
ZIRCONIUM	XRF	NE	NE		39.75 U	171.8	179.9	132.4

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-13

Extent of Lead Contaminated Soil Calculations for Site 143
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
143	143-1	143-C01	12	12	0.36	609	731	263
	143-2	143-E01	6	6	0.18	195	234	42
	143-3	143-O02 143-O01 143-F01	6 6 6	6	0.18	4,746	5,695	1,025
	143-4	143-X02	6	6	0.18	420	504	91
	143-5	143-L01	6	6	0.18	653	784	141
	143-6	143-J02 143-V01	6 6	6	0.18	2,914	3,497	629
	143-7	143-H02	12	12	0.36	740	888	320
	143-8	143-R02	6	6	0.18	306	367	66
	143-9	143-G02	6	6	0.18	310	372	67
							SITE 143 TOTAL=	**2,644**

[1]- See Figure 3-4
m^2 - Square meters
yd^2- Square Yards
yd^3- Cubic Yards

Table 3-14

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-A01-01-01	145-A01-01-01 DP	145-A02-01-01	145-B01-01-01	145-B02-01-01
				Sample Date	8/22/2001	8/22/2001	8/22/2001	8/16/2001	8/16/2001
ARSENIC	6010B	230	6,100		14	24	—	—	—
ARSENIC	XRF	230	6,100		60.9 U	—	46.2 U	44.4 U	64.2 U
BARIUM	6010B	55,000	1,000,000		140	130	—	—	—
CADMIUM	6010B	390	10,000		14	13	—	—	—
CHROMIUM	6010B	3,900	1,000,000		52	37	—	—	—
CHROMIUM	XRF	3,900	1,000,000		2,250 U	—	1,274 U	1,330	1,230 U
COBALT	XRF	47,000	1,000,000		4,800	—	721	600 U	1,394 U
COPPER	XRF	31,000	820,000		240 U	—	180 U	130 U	315 U
IRON	XRF	230,000	1,000,000		77,670	—	10,099	33,280	24,794
LEAD	6010B	400	400		260	250	—	—	—
LEAD	XRF	400	400		266	—	64 U	148	226
MANGANESE	XRF	18,000	470,000		23,296	—	5,920	1,950 U	9,600 U
MERCURY	7471A	NE	NE		0.32 J	0.21 J	—	—	—
MERCURY	XRF	NE	NE		28.5 U	—	25.05 U	18.3 U	42.6 U
MOLYBDENUM	XRF	391	10,220		23.1	—	16.8 U	13.2 U	12.6 U
NICKEL	XRF	16,000	410,000		525 U	—	304.4	336.8	510 U
RUBIDIUM	XRF	NE	NE		45.15 U	—	45.9 U	76	71.9
SELENIUM	6010B	3,900	100,000		20 J	18 J	—	—	—
SILVER	6010B	3,900	100,000		32 U	32 U	—	—	—
STRONTIUM	XRF	46,924	100,000		101	—	157.7	114	86.9
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		558.8	—	146.5	498	241.8
ZIRCONIUM	XRF	NE	NE		48.3	—	22.2 U	152.2	53.1

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	145-B03-01-01 8/16/2001	145-B04-01-01 8/16/2001	145-C01-01-01 8/16/2001	145-C01-02-01 10/9/2001	145-C02-01-01 8/16/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		49.8 U	65.25 U	135 U	34.35 U	46.5 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,690	1,500 U	4,307	375 U	1,100
COBALT	XRF	47,000	1,000,000		660 U	1,800 U	1,200 U	375 U	960 U
COPPER	XRF	31,000	820,000		320	330 U	10,496	90 U	240 U
IRON	XRF	230,000	1,000,000		35,482	47,488	67,584	10,298	14,490
LEAD	6010B	400	400		—	400	—	—	27
LEAD	XRF	400	400		107	290	97 U	93	57 U
MANGANESE	XRF	18,000	470,000		2,100 U	12,298 U	3,749 U	870 U	6,600 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		58.7	44.1 U	2,269	14.1 U	31.2 U
MOLYBDENUM	XRF	391	10,220		14.7	11.4 U	27	—	11.8
NICKEL	XRF	16,000	410,000		285 U	600 U	780 U	195 U	390 U
RUBIDIUM	XRF	NE	NE		52.3	67.4	52.35 U	73.5 U	82.9
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		78.8	86.8	22.2 U	107.1	102
URANIUM	XRF	16	409		—	—	—	27 U	—
ZINC	XRF	230,000	1,000,000		526.4	446.8	6,989	147.8	134.5
ZIRCONIUM	XRF	NE	NE		109.7	42	59.9	117.5	112.1

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-D01-01-01	145-D01-02-01	145-D01-03-01	145-D01-04-01	145-D02-01-01
				Sample Date	8/16/2001	8/16/2001	8/16/2001	8/16/2001	8/16/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		65.85 U	79.8 U	71.85 U	64.05 U	255 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		975 U	1,364 U	2,160	900 U	6,976
COBALT	XRF	47,000	1,000,000		1,110 U	1,500 U	855 U	1,005 U	4,410
COPPER	XRF	31,000	820,000		285 U	300 U	149 U	255 U	37,683
IRON	XRF	230,000	1,000,000		19,098	37,376	61,184	17,792	71,680
LEAD	6010B	400	400		**490**	**750**	—	—	—
LEAD	XRF	400	400		389	**700**	**529**	384	148 U
MANGANESE	XRF	18,000	470,000		7,646 U	10,800 U	2,700 U	7,046 U	4,649 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		44.7 U	53.4 U	28.5 U	42.3 U	8364.8
MOLYBDENUM	XRF	391	10,220		13.9	13.8	13.35 U	10.65 U	23.4 U
NICKEL	XRF	16,000	410,000		435 U	540 U	444.8	390 U	1,484 U
RUBIDIUM	XRF	NE	NE		66.7	79.6	81.2	72.6	66 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		83.9	94.7	95	85.8	30.3 U
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		428	571.2	444.4	368.4	22,592
ZIRCONIUM	XRF	NE	NE		117.8	66.7	86.6	97.5	141.6

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	145-D03-01-01 10/9/2001	145-E01-01-01 8/16/2001	145-E02-01-01 8/16/2001	145-E03-01-01 10/9/2001	145-E04-01-01 10/9/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		50.55 U	60.9 U	72.15 U	50.25 U	46.2 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		540 U	825 U	1,400	870 U	825 U
COBALT	XRF	47,000	1,000,000		510 U	945 U	810 U	450 U	769
COPPER	XRF	31,000	820,000		134	345 U	1,040	141 U	141 U
IRON	XRF	230,000	1,000,000		16,691	13,197	45,286	24,397	25,600
LEAD	6010B	400	400		—	—	**550**	—	—
LEAD	XRF	400	400		286	297	289	352	**405**
MANGANESE	XRF	18,000	470,000		1,244 U	6,446 U	2,549 U	1,454 U	1,850
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		20.85 U	44.1 U	213.8	21.75 U	19.95 U
MOLYBDENUM	XRF	391	10,220		—	10.2 U	15.15 U	12.3 U	10.5 U
NICKEL	XRF	16,000	410,000		270 U	420 U	375 U	240 U	225 U
RUBIDIUM	XRF	NE	NE		85.5 U	66.8	82.5	49	69.6
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		65.3	90.8	68.7	88	74.7
URANIUM	XRF	16	409		32.1 U	—	—	—	—
ZINC	XRF	230,000	1,000,000		367.4	1,160	1,150	449.6	765.6
ZIRCONIUM	XRF	NE	NE		127.3	31.5	101.7	113.9	93.4

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-E04-02-01	145-E04-03-01	145-E05-01-01	145-E06-01-01	145-E06-02-01
				Sample Date	10/9/2001	10/9/2001	10/9/2001	10/9/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		47.7 U	40.35 U	43.65 U	49.65 U	78.3 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		840 U	885 U	825 U	780 U	960 U
COBALT	XRF	47,000	1,000,000		584	667	538	604	990 U
COPPER	XRF	31,000	820,000		130 U	121 U	134 U	137 U	195 U
IRON	XRF	230,000	1,000,000		28,186	30,182	24,397	25,690	56,166
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		427	218	280	516	852
MANGANESE	XRF	18,000	470,000		1,680	1,580	1,410 U	1,304 U	2,640
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		20.85 U	19.05 U	20.85 U	21.6 U	30.9 U
MOLYBDENUM	XRF	391	10,220		10.5 U	11.4 U	13.3	9.75 U	—
NICKEL	XRF	16,000	410,000		225 U	240 U	225 U	210 U	450 U
RUBIDIUM	XRF	NE	NE		65.8	73.1	70.9	60.4	93.45 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		76.5	98.4	71.8	65.3	104.3
URANIUM	XRF	16	409		—	—	—	—	34.5 U
ZINC	XRF	230,000	1,000,000		493.2	296.8	463.2	738	1,430
ZIRCONIUM	XRF	NE	NE		106.3	113.3	88.6	64.1	123.9

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID Sample Date	145-E06-03-01 10/9/2001	145-E06-04-01 10/9/2001	145-E07-01-01 10/9/2001	145-E07-02-01 10/9/2001	145-E07-03-01 10/9/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		72 U	88.65 U	68.4 U	66.15 U	64.35 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		930 U	1,500 U	1,140 U	1,304 U	3,000 U
COBALT	XRF	47,000	1,000,000		960 U	1,500 U	1,170	1,450	4,278
COPPER	XRF	31,000	820,000		165 U	353	180 U	180 U	270 U
IRON	XRF	230,000	1,000,000		55,450	114,995	44,493	59,955	232,858
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		**659**	**795**	**822**	**697**	344
MANGANESE	XRF	18,000	470,000		2,250 U	3,600 U	2,770	2,250 U	11,795
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		28.35 U	36.15 U	29.25 U	28.95 U	28.8 U
MOLYBDENUM	XRF	391	10,220		—	—	16.2	20.2	15.9 U
NICKEL	XRF	16,000	410,000		435 U	675 U	300 U	345 U	765 U
RUBIDIUM	XRF	NE	NE		94.95 U	114.3 U	62	75.4	40.5 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		118.1	94.5	85.6	85.3	76.3
URANIUM	XRF	16	409		**38.7**	**68.7**	—	—	—
ZINC	XRF	230,000	1,000,000		878.4	1,200	1,080	739.6	484.8
ZIRCONIUM	XRF	NE	NE		93.6	72.6	71	61.9	72.7

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-E07-04-01	145-E08-01-01	145-E08-02-01	145-E08-03-01	145-E08-04-01
				Sample Date	10/9/2001	10/9/2001	10/9/2001	10/9/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	—	13 J	—	—
ARSENIC	XRF	230	6,100		61.95 U	58.95 U	107.25 U	56.7 U	39.3 U
BARIUM	6010B	55,000	1,000,000		—	—	780	—	—
CADMIUM	6010B	390	10,000		—	—	14	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	27 J	—	—
CHROMIUM	XRF	3,900	1,000,000		2,849 U	780 U	1,035 U	885 U	765 U
COBALT	XRF	47,000	1,000,000		2,210	843	540 U	720	630
COPPER	XRF	31,000	820,000		255 U	150 U	195 U	147 U	120 U
IRON	XRF	230,000	1,000,000		209,920	27,290	41,779	28,595	19,891
LEAD	6010B	400	400		—	—	5,400	—	—
LEAD	XRF	400	400		258	886	2,619	574	192
MANGANESE	XRF	18,000	470,000		9,946	2,050	1,800 U	1,580	1,810
MERCURY	7471A	NE	NE		—	—	0.59 U	—	—
MERCURY	XRF	NE	NE		28.8 U	24.6 U	43.5 U	24 U	17.1 U
MOLYBDENUM	XRF	391	10,220		15.6 U	9 U	18.9	11.7 U	11.4 U
NICKEL	XRF	16,000	410,000		720 U	225 U	395.8	240 U	210 U
RUBIDIUM	XRF	NE	NE		43.65 U	48.3	56.1	94.8	105.2
SELENIUM	6010B	3,900	100,000		—	—	29 U	—	—
SILVER	6010B	3,900	100,000		—	—	29 U	—	—
STRONTIUM	XRF	46,924	100,000		72.6	59.7	71.3	94	90.3
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		412.4	1,380	1,360	651.6	367.8
ZIRCONIUM	XRF	NE	NE		68.8	37.5	72	114.4	140.5

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-F01-01-01	145-F02-01-01	145-F02-02-01	145-F02-03-01	145-F02-04-01
				Sample Date	8/16/2001	8/16/2001	8/16/2001	8/16/2001	8/16/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		83.4 U	87.9 U	68.1 U	55.65 U	93.45 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,770	2,549	300 U	312	767
COBALT	XRF	47,000	1,000,000		1,140 U	975 U	405 U	390 U	585 U
COPPER	XRF	31,000	820,000		3,459	521	121 U	121 U	195 U
IRON	XRF	230,000	1,000,000		82,586	59,955	15,091	13,696	22,195
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		83	**618**	**706**	367	**954**
MANGANESE	XRF	18,000	470,000		3,449 U	3,000 U	1,290 U	1,200 U	1,950 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		737.2	75	24.9 U	22.05 U	33.9 U
MOLYBDENUM	XRF	391	10,220		14.85 U	14.55 U	10.35 U	10.35 U	12.75 U
NICKEL	XRF	16,000	410,000		525 U	405 U	180 U	180 U	270 U
RUBIDIUM	XRF	NE	NE		42.75 U	41.85 U	30.9	29.55 U	33.75 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		44.8	106.1	86.4	98.2	36.7
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		2,730	1,170	532.8	460.8	1,180
ZIRCONIUM	XRF	NE	NE		37.4	37.9	28.4	10.95 U	12 U

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-F03-01-01	145-F03-02-01	145-F04-01-01	145-F04-02-01	145-F04-03-01
				Sample Date	8/16/2001	8/16/2001	8/16/2001	8/16/2001	8/16/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		67.2 U	44.4 U	95.55 U	138.6	75 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,244 U	636	1,800 U	2,379	555 U
COBALT	XRF	47,000	1,000,000		1,424 U	720 U	2,250 U	870 U	840 U
COPPER	XRF	31,000	820,000		360 U	125 U	1,090	1,180	579
IRON	XRF	230,000	1,000,000		32,179	45,389	56,474	61,184	66,867
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		422	122	644	1,050	795
MANGANESE	XRF	18,000	470,000		9,898 U	2,250 U	14,842 U	2,700 U	2,549 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		47.55 U	18.15 U	66.9 U	243	27.15 U
MOLYBDENUM	XRF	391	10,220		11.25 U	12.15 U	13.5 U	15.5	10.8 U
NICKEL	XRF	16,000	410,000		525 U	270 U	795 U	375 U	330 U
RUBIDIUM	XRF	NE	NE		53.9	34.1	45.75 U	33.6 U	48.4
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		97.9	103.5	149.3	59.1	74.7
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		1,100	249	829.6	1,240	656.8
ZIRCONIUM	XRF	NE	NE		62.8	63	47.4	24.4	25.8

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-F04-04-01	145-F05-01-01	145-F05-02-01	145-F05-03-01	145-F05-04-01
				Sample Date	8/16/2001	8/16/2001	8/16/2001	8/16/2001	8/16/2001
ARSENIC	6010B	230	6,100		—	75	32	—	—
ARSENIC	XRF	230	6,100		74.25 U	225 U	**236.6**	72.9 U	59.4 U
BARIUM	6010B	55,000	1,000,000		—	1800	660	—	—
CADMIUM	6010B	390	10,000		—	32	16	—	—
CHROMIUM	6010B	3,900	1,000,000		—	1200	600	—	—
CHROMIUM	XRF	3,900	1,000,000		1,789	**4,518**	1,320	883	990
COBALT	XRF	47,000	1,000,000		705 U	4,349 U	1,260 U	765 U	795 U
COPPER	XRF	31,000	820,000		3,760	3,978	2,440	1,230	618
IRON	XRF	230,000	1,000,000		46,899	139,981	123,904	57,600	60,672
LEAD	6010B	400	400		—	**5,800**	**1,900**	—	—
LEAD	XRF	400	400		260	**3,269**	**2,069**	**660**	**444**
MANGANESE	XRF	18,000	470,000		2,250 U	29,990 U	3,900 U	2,400 U	2,400 U
MERCURY	7471A	NE	NE		—	1.8	0.31 J	—	—
MERCURY	XRF	NE	NE		845.6	149.1 U	45.3 U	170.6	22.2 U
MOLYBDENUM	XRF	391	10,220		10.8 U	37.8	12.9 U	10.2 U	10.35 U
NICKEL	XRF	16,000	410,000		390 U	1,650 U	525 U	330 U	315 U
RUBIDIUM	XRF	NE	NE		27.75 U	83.55 U	48 U	36 U	34.05 U
SELENIUM	6010B	3,900	100,000		—	5.2 U	53 U	—	—
SILVER	6010B	3,900	100,000		—	5.2 U	4.8 J	—	—
STRONTIUM	XRF	46,924	100,000		12 U	387	309.6	196.3	161
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		2,429	3,010	1,030	624.4	234.8
ZIRCONIUM	XRF	NE	NE		13.5	32.8	33.8	11.55 U	11.85 U

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-F06-01-01	145-F07-01-01	145-F07-02-01	145-F08-01-01
				Sample Date	8/16/2001	8/16/2001	8/16/2001	8/16/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		52.5 U	121.05 U	180 U	73.65 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		495 U	1,800 U	1,950 U	1,350
COBALT	XRF	47,000	1,000,000		765 U	1,950 U	9,325	1,155 U
COPPER	XRF	31,000	820,000		210 U	495 U	17,498	678
IRON	XRF	230,000	1,000,000		51,994	56,371	44,979	16,589
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		264	1,659	114 U	414
MANGANESE	XRF	18,000	470,000		2,400 U	13,949 U	14,995 U	7,646 U
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		21.15 U	81.9 U	6,829	169.3
MOLYBDENUM	XRF	391	10,220		11.1 U	12.3 U	14.85 U	14.6
NICKEL	XRF	16,000	410,000		315 U	735 U	1,650 U	570 U
RUBIDIUM	XRF	NE	NE		65.7	52.6	51.15 U	34.95 U
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		61.8	101	23.4 U	97.9
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		2,069	1,850	8,544	2,450
ZIRCONIUM	XRF	NE	NE		19.7	40.9	69.1	11.1 U

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID Sample Date 145-F08-02-01 8/16/2001	145-F09-01-01 8/16/2001	145-F09-02-01 8/16/2001	145-G01-01-01 10/9/2001
ARSENIC	6010B	230	6,100	—	—	—	—
ARSENIC	XRF	230	6,100	93.3 U	73.35 U	45.3 U	54.9
BARIUM	6010B	55,000	1,000,000	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	6,816	2,859	2,640	480 U
COBALT	XRF	47,000	1,000,000	9,056	2,400 U	1,424 U	495 U
COPPER	XRF	31,000	820,000	600 U	465 U	255 U	118 U
IRON	XRF	230,000	1,000,000	170,906	81,050	36,378	17,600
LEAD	6010B	400	400	—	—	—	—
LEAD	XRF	400	400	323	354	103	298
MANGANESE	XRF	18,000	470,000	29,990 U	16,493 U	9,446 U	1,155 U
MERCURY	7471A	NE	NE	—	—	—	—
MERCURY	XRF	NE	NE	66.15 U	54.15 U	31.65 U	20.55 U
MOLYBDENUM	XRF	391	10,220	15.9 U	17.7	11.4	—
NICKEL	XRF	16,000	410,000	1,410 U	810 U	495 U	255 U
RUBIDIUM	XRF	NE	NE	47.1 U	57.9	41.9	78.6 U
SELENIUM	6010B	3,900	100,000	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—
STRONTIUM	XRF	46,924	100,000	88.9	79.6	55.6	140.3
URANIUM	XRF	16	409	—	—	—	28.8 U
ZINC	XRF	230,000	1,000,000	616	1,310	210	382
ZIRCONIUM	XRF	NE	NE	15.3 U	60.6	14.5	87

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-G02-01-01	145-G02-02-01	145-G02-03-01	145-G02-04-01
				Sample Date	10/9/2001	10/9/2001	10/9/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		91.5 U	65.55 U	56.55 U	70.05 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		735 U	690 U	555 U	630 U
COBALT	XRF	47,000	1,000,000		750 U	705 U	555 U	615 U
COPPER	XRF	31,000	820,000		165 U	171	123 U	136 U
IRON	XRF	230,000	1,000,000		35,891	34,483	22,694	29,875
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		1,340	703	551	953
MANGANESE	XRF	18,000	470,000		1,800 U	1,650 U	1,290 U	1,484 U
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		34.2 U	25.95 U	21.9 U	25.65 U
MOLYBDENUM	XRF	391	10,220		—	—	—	—
NICKEL	XRF	16,000	410,000		360 U	330 U	270 U	328.4
RUBIDIUM	XRF	NE	NE		88.05 U	79.5	73.8 U	73.2 U
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		90.8	91.9	104.6	66
URANIUM	XRF	16	409		47	28.65 U	26.85 U	28.9
ZINC	XRF	230,000	1,000,000		811.6	728	606.4	733.2
ZIRCONIUM	XRF	NE	NE		48.8	88.2	70	42.6

Table 3-14
(Continued)

Soil Sampling Analytical Results for Site 145
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	145-H01-01-01	145-H01-02-01	145-H01-03-01	145-H02-01-01
				Sample Date	10/9/2001	10/9/2001	10/9/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		53.1 U	66.15 U	46.8 U	36.15 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		585 U	690 U	750 U	405 U
COBALT	XRF	47,000	1,000,000		585 U	721	765 U	390 U
COPPER	XRF	31,000	820,000		221	171	132 U	111 U
IRON	XRF	230,000	1,000,000		22,989	30,182	37,376	10,195
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		**420**	**606**	218	116
MANGANESE	XRF	18,000	470,000		1,530	1,650 U	2,229	984
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		22.2 U	26.25 U	19.5 U	15.6 U
MOLYBDENUM	XRF	391	10,220		—	—	—	—
NICKEL	XRF	16,000	410,000		300 U	360 U	360 U	210 U
RUBIDIUM	XRF	NE	NE		74.7 U	88.2 U	83.4 U	66.3 U
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		89.7	109.6	87.1	82.3
URANIUM	XRF	16	409		27.3 U	**32.3**	**40.7**	24.3 U
ZINC	XRF	230,000	1,000,000		983.2	643.6	363.8	564.8
ZIRCONIUM	XRF	NE	NE		90	94.8	64.7	41.6

XRF - X-ray fluorescence.
— - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-15

Extent of Lead Contaminated Soil Calculations for Site 145
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
145	145-1	145-F02	24	14	0.42	11,540	13,848	5,816
		145-F03	6					
		145-F04	18					
		145-F05	24					
		145-F07	6					
		145-F08	6					
	145-2	145-H01	12	12	0.36	1,100	1,320	475
	145-3	145-D01	18	18	0.54	66	79	43
	145-4	145-G02	24	24	0.72	1,080	1,296	933
	145-5	145-E02	6	14.4	0.432	5,528	6,634	2,866
		145-E04	12					
		145-E06	24					
		145-E07	12					
		145-E08	18					
							SITE 145 TOTAL=	**10,133**

[1]- See Figure 3-5
m^2 - Square meters
yd^2- Square Yards
yd^3- Cubic Yards

Table 3-16

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-A01-01-01	155-A02-01-01	155-A03-01-01	155-A04-01-01	155-A05-01-01
				Sample Date	8/14/2001	8/14/2001	8/14/2001	8/14/2001	8/14/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		43.2 U	57 U	54.15 U	51.3 U	54 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		550	1,779	723	1,110	2,320
COBALT	XRF	47,000	1,000,000		435 U	1,170 U	675 U	495 U	570 U
COPPER	XRF	31,000	820,000		130 U	180 U	165 U	142 U	165 U
IRON	XRF	230,000	1,000,000		9,709	91,392	24,192	12,595	15,296
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		49.8 U	100.8	62.7 U	60.9 U	61.5 U
MANGANESE	XRF	18,000	470,000		1,364 U	3,600 U	2,100 U	1,650 U	1,800 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		21.15 U	24 U	24.45 U	22.65 U	24.75 U
MOLYBDENUM	XRF	391	10,220		14.7 U	15.45 U	16.05 U	15.6 U	17.55 U
NICKEL	XRF	16,000	410,000		210 U	717.2	300 U	255 U	380
RUBIDIUM	XRF	NE	NE		41.1 U	80.1	45.8	45.15 U	46.95 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		195	137.7	115.1	146.1	194.7
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		78	251	224	152	89
ZIRCONIUM	XRF	NE	NE		16.5 U	56.9	44.8	19.3	17.7 U

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-A06-01-01	155-A07-01-01	155-A08-01-01	155-A09-01-01
				Sample Date	8/14/2001*	8/14/2001	8/14/2001	8/14/2001
ARSENIC	6010B	230	6,100		13	---	---	---
ARSENIC	XRF	230	6,100		52.95 U	38.85 U	35.7 U	42.15 U
BARIUM	6010B	55,000	1,000,000		120	---	---	---
CADMIUM	6010B	390	10,000		2.6	---	---	---
CHROMIUM	6010B	3,900	1,000,000		85	---	---	---
CHROMIUM	XRF	3,900	1,000,000		1,520	1,130	888	960 U
COBALT	XRF	47,000	1,000,000		600 U	555 U	585 U	630 U
COPPER	XRF	31,000	820,000		146 U	111 U	91 U	122 U
IRON	XRF	230,000	1,000,000		22,490	10,694	19,392	12,698
LEAD	6010B	400	400		100 J	---	---	---
LEAD	XRF	400	400		123.4	42.75 U	88	50.4 U
MANGANESE	XRF	18,000	470,000		1,950 U	960 U	975 U	1,110 U
MERCURY	7471A	NE	NE		0.26 J	---	---	---
MERCURY	XRF	NE	NE		20.55 U	46.95 U	36.75 U	49.5 U
MOLYBDENUM	XRF	391	10,220		15.15 U	19.2 U	15.45 U	22.35 U
NICKEL	XRF	16,000	410,000		439.2	330 U	315 U	375 U
RUBIDIUM	XRF	NE	NE		45	34.5 U	32.9	35.1 U
SELENIUM	6010B	3,900	100,000		11 U	---	---	---
SILVER	6010B	3,900	100,000		11 U	---	---	---
STRONTIUM	XRF	46,924	100,000		102.7	53.4	24.9	22.3
URANIUM	XRF	16	409		---	---	---	---
ZINC	XRF	230,000	1,000,000		233	80	191	167
ZIRCONIUM	XRF	NE	NE		31.3	22.8 U	39.5	49.6

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Sample ID		155-B01-01-01	155-B02-01-01	155-B02-02-01	155-B02-03-01	155-B03-01-01
		Sample Date		8/14/2001	8/14/2001	8/14/2001	8/14/2001	8/14/2001
		Res Action Level	I/C Action Level					
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	57.45 U	76.8 U	69 U	31.65 U	52.5 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	4,909	1,290 U	1,500 U	930 U	1,140 U
COBALT	XRF	47,000	1,000,000	1,050 U	960 U	1,340	630 U	1,040
COPPER	XRF	31,000	820,000	180 U	141 U	165 U	95 U	117 U
IRON	XRF	230,000	1,000,000	24,499	34,688	42,598	18,291	23,590
LEAD	6010B	400	400	—	460	990	—	—
LEAD	XRF	400	400	68.7 U	638	392	40.05 U	314.4
MANGANESE	XRF	18,000	470,000	1,800 U	3,850	3,050	1,080 U	3,488
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	60.9 U	69 U	64.05 U	35.7 U	49.5 U
MOLYBDENUM	XRF	391	10,220	30.75 U	20.7 U	20.55 U	19.5 U	18 U
NICKEL	XRF	16,000	410,000	585 U	510 U	570 U	345 U	405 U
RUBIDIUM	XRF	NE	NE	45.3 U	46.6	66.5	89.9	53.7
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	11.3	24.6	32.8	36.8	22.9
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	189	430	430	95	312
ZIRCONIUM	XRF	NE	NE	110.3	93.1	100.3	202.6	132

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	155-B04-01-02 10/8/2001	155-C01-01-01 8/14/2001	155-C02-01-01 8/14/2001	155-D01-01-01 8/14/2001	155-D02-01-01 8/14/2001
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	41.4 U	45.6 U	55.5 U	43.65 U	47.55 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	600 U	1,280	2,010	430	315 U
COBALT	XRF	47,000	1,000,000	300 U	750 U	795 U	480 U	450 U
COPPER	XRF	31,000	820,000	111 U	123 U	143 U	120 U	125 U
IRON	XRF	230,000	1,000,000	11,699	18,189	21,094	15,795	13,389
LEAD	6010B	400	400	—	—	270	—	190
LEAD	XRF	400	400	261.4	54.3 U	182.8	48.75 U	62.4
MANGANESE	XRF	18,000	470,000	975 U	1,304 U	1,380 U	1,470 U	1,394 U
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	17.7 U	48.9 U	57 U	18.9 U	21.45 U
MOLYBDENUM	XRF	391	10,220	10.65 U	25.05 U	23.4 U	14.25 U	13.65 U
NICKEL	XRF	16,000	410,000	180 U	405 U	435 U	210 U	210 U
RUBIDIUM	XRF	NE	NE	36	70.6	36 U	55.5	68.5
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	103	29.8	20.8	66.4	68.6
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	226	138	243	187	187
ZIRCONIUM	XRF	NE	NE	73.3	288.4	198.3	129.5	91.6

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-E01-01-01	155-E02-01-01	155-E02-02-01	155-F01-01-01	155-F02-01-01
				Sample Date	8/14/2001	8/14/2001	8/14/2001	8/14/2001	8/14/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		62.1 U	66.75 U	52.7	65.7 U	51.15 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,360	1,440	1,170	10,496	1,020
COBALT	XRF	47,000	1,000,000		645 U	555 U	480 U	2,400 U	540 U
COPPER	XRF	31,000	820,000		195 U	137 U	110 U	255 U	165 U
IRON	XRF	230,000	1,000,000		19,290	22,400	19,290	137,933	25,792
LEAD	6010B	400	400		—	310	160	—	—
LEAD	XRF	400	400		115.1	395	72.2	79.95 U	239.2
MANGANESE	XRF	18,000	470,000		2,100 U	1,800 U	1,500 U	3,749 U	1,650 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		30.3 U	26.25 U	17.7 U	72.6 U	21.45 U
MOLYBDENUM	XRF	391	10,220		18.3 U	14.7 U	12.45 U	31.95 U	11.4 U
NICKEL	XRF	16,000	410,000		300 U	255.8	261.6	1,430	240 U
RUBIDIUM	XRF	NE	NE		45 U	58.5	50.5	118.7	50.6
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		81.7	76.7	82.5	54.3	102.3
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		295	275	154	309	1,410
ZIRCONIUM	XRF	NE	NE		106.8	156.8	150.7	113.7	45

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-F03-01-01	155-F03-02-01	155-F04-01-01	155-G01-01-01	155-G02-01-01
				Sample Date	8/14/2001	8/14/2001	8/14/2001	8/15/2001	8/15/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		70.8 U	29.25 U	72.8	63 U	70.35 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		2,139	326	2,700 U	900 U	990 U
COBALT	XRF	47,000	1,000,000		915 U	375 U	2,400 U	1,050 U	1,155 U
COPPER	XRF	31,000	820,000		453	82 U	240 U	270 U	315 U
IRON	XRF	230,000	1,000,000		56,986	14,298	167,936	16,090	16,589
LEAD	6010B	400	400		170	49	---	---	270
LEAD	XRF	400	400		357.8	36.9 U	172.6	280	382.2
MANGANESE	XRF	18,000	470,000		3,000 U	1,140 U	3,749 U	7,046 U	7,646 U
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		40.2	13.05 U	70.65 U	41.7 U	48 U
MOLYBDENUM	XRF	391	10,220		16.1	10.5 U	24.3 U	11.55 U	11.7 U
NICKEL	XRF	16,000	410,000		390 U	165 U	1,125 U	405 U	465 U
RUBIDIUM	XRF	NE	NE		47.5	76.5	38.7 U	99.8	40
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		137.5	119.4	25.3	97.5	122.9
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		981	82	491	440	645
ZIRCONIUM	XRF	NE	NE		56.2	109.4	26.25 U	125.4	76.6

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-G02-01-01DP	155-G02-02-01	155-H01-01-01	155-H02-01-01	155-I01-01-01
				Sample Date	8/15/2001	8/15/2001	8/14/2001	8/14/2001	8/15/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		—	58.05 U	78.9 U	65.55 U	48 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		—	1,424 U	5,290	4,640	942
COBALT	XRF	47,000	1,000,000		—	1,650 U	1,185 U	1,050 U	585 U
COPPER	XRF	31,000	820,000		—	1,060	210 U	210 U	140 U
IRON	XRF	230,000	1,000,000		—	33,587	28,493	21,888	26,982
LEAD	6010B	400	400		93	92	350	—	140
LEAD	XRF	400	400		—	89	185	73.8 U	137.7
MANGANESE	XRF	18,000	470,000		—	11,242 U	2,100 U	1,800 U	1,950 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		—	51.6 U	85.2 U	73.5 U	19.8 U
MOLYBDENUM	XRF	391	10,220		—	14.2	33.3 U	33.15 U	13.95 U
NICKEL	XRF	16,000	410,000		—	705 U	645 U	600 U	342.6
RUBIDIUM	XRF	NE	NE		—	35.85 U	66.2	54.5	34.2 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		—	115.1	35.6	20.6	93.5
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		—	2,120	349	263	296
ZIRCONIUM	XRF	NE	NE		—	53.7	171.1	113.4	135

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-I01-01-01DP	155-I02-01-01	155-J01-01-01	155-J02-01-01	155-K01-01-01
				Sample Date	8/15/2001	8/15/2001	8/15/2001	8/15/2001	10/8/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		---	74.7 U	195 U	56.55 U	39.45 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		---	2,970	5,738	870 U	435 U
COBALT	XRF	47,000	1,000,000		---	750 U	2,280	1,080	625
COPPER	XRF	31,000	820,000		---	3,610	19,392	270 U	107 U
IRON	XRF	230,000	1,000,000		---	37,094	47,488	12,998	11,098
LEAD	6010B	400	400		240	---	---	280	---
LEAD	XRF	400	400		---	62.7 U	114 U	249.4	149.7
MANGANESE	XRF	18,000	470,000		---	2,400 U	3,900 U	6,600 U	1,360
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		---	844	4,499	39.6 U	15.75 U
MOLYBDENUM	XRF	391	10,220		---	15.75 U	23.7 U	11.25 U	---
NICKEL	XRF	16,000	410,000		---	435 U	1,125 U	405 U	240 U
RUBIDIUM	XRF	NE	NE		---	43.35 U	56.85 U	51.3	81.6 U
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		---	65.9	26.25 U	85.2	88.8
URANIUM	XRF	16	409		---	---	---	---	35.4
ZINC	XRF	230,000	1,000,000		---	2,320	11,597	306	262
ZIRCONIUM	XRF	NE	NE		---	162.2	122.7	121.4	110.5

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-K02-01-01	155-L01-01-01	155-L01-02-01	155-L02-01-01	155-M01-01-01
				Sample Date	10/8/2001	10/8/2001	10/8/2001	10/8/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	8.1	—	—	—
ARSENIC	XRF	230	6,100		56.1 U	56.1 U	49.35 U	30.3 U	34.5 U
BARIUM	6010B	55,000	1,000,000		—	470 J	—	—	—
CADMIUM	6010B	390	10,000		—	9.1	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	36	—	—	—
CHROMIUM	XRF	3,900	1,000,000		465 U	495 U	630 U	1,480	360 U
COBALT	XRF	47,000	1,000,000		520	684	779	330 U	608
COPPER	XRF	31,000	820,000		133 U	120 U	132 U	97 U	84 U
IRON	XRF	230,000	1,000,000		8,307	16,192	23,194	12,800	10,694
LEAD	6010B	400	400		—	860 J	—	—	—
LEAD	XRF	400	400		309.4	468	262.2	46.3	166.3
MANGANESE	XRF	18,000	470,000		1,050 U	1,690	2,899	1,065 U	974
MERCURY	7471A	NE	NE		—	1.1	—	—	—
MERCURY	XRF	NE	NE		22.65 U	22.8 U	20.7 U	15.9 U	14.7 U
MOLYBDENUM	XRF	391	10,220		—	—	—	17.5	—
NICKEL	XRF	16,000	410,000		270 U	255 U	315 U	180 U	195 U
RUBIDIUM	XRF	NE	NE		88.05 U	78.4	86.25 U	41.6	61.05 U
SELENIUM	6010B	3,900	100,000		—	6.2 UJ	—	—	—
SILVER	6010B	3,900	100,000		—	4.6 J	—	—	—
STRONTIUM	XRF	46,924	100,000		76.2	129.6	108.7	71.2	51.8
URANIUM	XRF	16	409		32.55 U	27.6 U	36.2	—	22.65 U
ZINC	XRF	230,000	1,000,000		241	492	510	96	231
ZIRCONIUM	XRF	NE	NE		64.9	101.5	121.9	150.7	74.3

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-M02-01-01	155-N01-01-01	155-N02-01-01	155-O01-01-01	155-O02-01-01
				Sample Date	10/8/2001	10/8/2001	10/8/2001	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		---	9.4	---	---	---
ARSENIC	XRF	230	6,100		37.8 U	48.75 U	36 U	42.6 U	55.2 U
BARIUM	6010B	55,000	1,000,000		---	410	---	---	---
CADMIUM	6010B	390	10,000		---	6.7 J	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	23	---	---	---
CHROMIUM	XRF	3,900	1,000,000		435 U	900 U	615 U	5,400 U	3,149 U
COBALT	XRF	47,000	1,000,000		619	450 U	300 U	255 U	219
COPPER	XRF	31,000	820,000		100 U	148 U	103 U	103 U	1,510
IRON	XRF	230,000	1,000,000		10,496	19,891	12,499	11,898	12,397
LEAD	6010B	400	400		---	380 J	---	---	160 J
LEAD	XRF	400	400		104.3	180.5	134.6	52.65 U	987.2
MANGANESE	XRF	18,000	470,000		1,110	1,470 U	990 U	720 U	660
MERCURY	7471A	NE	NE		---	0.28 J	---	---	---
MERCURY	XRF	NE	NE		15.9 U	23.25 U	17.25 U	6 U	6.15 U
MOLYBDENUM	XRF	391	10,220		---	14.1 U	10.8 U	11	21.15 U
NICKEL	XRF	16,000	410,000		225 U	240 U	165 U	195 U	150 U
RUBIDIUM	XRF	NE	NE		94.5	72.2	83.1	64.8	157.6
SELENIUM	6010B	3,900	100,000		---	6.3 UJ	---	---	---
SILVER	6010B	3,900	100,000		---	1.3 J	---	---	---
STRONTIUM	XRF	46,924	100,000		60.2	74.5	95.3	40.9	77.2
URANIUM	XRF	16	409		27.75 U	---	---	---	---
ZINC	XRF	230,000	1,000,000		153	311	213	127	1,020
ZIRCONIUM	XRF	NE	NE		112.7	98.2	131.6	47.3	163.5

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-P01-01-01	155-P02-01-01	155-Q01-01-01	155-Q02-01-01	155-R01-01-01
				Sample Date	4/15/2002	4/15/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		50.25 U	49.2 U	26.25 U	35.85 U	38.7 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		4,049 U	5,878	3,749 U	4,200 U	4,649 U
COBALT	XRF	47,000	1,000,000		357	254	180 U	210 U	240 U
COPPER	XRF	31,000	820,000		77 U	119 U	69 U	82 U	86 U
IRON	XRF	230,000	1,000,000		16,090	16,294	7,366	9,978	13,094
LEAD	6010B	400	400		—	940	33 J	—	—
LEAD	XRF	400	400		640.8	620	33.15 U	99.7	111.9
MANGANESE	XRF	18,000	470,000		1,210	1,070	640	854	645 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		5.55 U	6 U	3.9 U	4.65 U	4.8 U
MOLYBDENUM	XRF	391	10,220		12 U	13.2 U	17.7 U	14.7 U	16.05 U
NICKEL	XRF	16,000	410,000		150 U	2,829	138 U	150 U	180 U
RUBIDIUM	XRF	NE	NE		77.7	101.9	57.5	77.7	77
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		62.7	90.5	51.8	35.8	88.5
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		358	554	44	157	192
ZIRCONIUM	XRF	NE	NE		201.4	155.7	78	110	145.7

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID Sample Date 155-R02-01-01 4/16/2002	155-S01-01-01 4/15/2002	155-S02-01-01 4/15/2002	155-T01-01-01 4/16/2002	155-T01-01-02 4/16/2002
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	58.2 U	37.2 U	39.6 U	48.75 U	51.75 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	7,046 U	5,400 U	3,900 U	2,700 U	5,698 U
COBALT	XRF	47,000	1,000,000	360 U	270 U	291	163	285 U
COPPER	XRF	31,000	820,000	146 U	90 U	79 U	66 U	121 U
IRON	XRF	230,000	1,000,000	18,688	17,190	9,875	8,026	10,400
LEAD	6010B	400	400	—	—	—	—	—
LEAD	XRF	400	400	187.2	66.5	222	840.8	94.2
MANGANESE	XRF	18,000	470,000	1,005 U	1,220	525 U	445	765 U
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	8.1 U	5.25 U	4.95 U	5.4 U	7.2 U
MOLYBDENUM	XRF	391	10,220	15.3 U	12 U	2,849 U	—	14.4 U
NICKEL	XRF	16,000	410,000	255 U	195 U	146 U	104.7 U	225 U
RUBIDIUM	XRF	NE	NE	97.2	64	2,849 U	—	50.5
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	45.8	55.2	1,800 U	—	53.2
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	481	143	277	480	143
ZIRCONIUM	XRF	NE	NE	84.7	60.8	1,950 U	—	70

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-T02-01-01	155-T03-01-01	155-T04-01-01	155-T05-01-01	155-U01-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		31.5 U	35.25 U	45.45 U	39 U	29.4 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		3,600 U	4,349 U	4,349 U	5,400 U	4,049 U
COBALT	XRF	47,000	1,000,000		165 U	210 U	225	345	195 U
COPPER	XRF	31,000	820,000		74 U	85 U	83 U	99 U	76 U
IRON	XRF	230,000	1,000,000		6,467	9,370	14,592	15,296	9,939
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		73	62.7	284.8	48.15 U	37.05 U
MANGANESE	XRF	18,000	470,000		478	585 U	1,140	843	604
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		4.5 U	5.25 U	5.55 U	5.55 U	4.65 U
MOLYBDENUM	XRF	391	10,220		10.2 U	23.7 U	16.2 U	13.95 U	21.6 U
NICKEL	XRF	16,000	410,000		133.5 U	165 U	165 U	210 U	150 U
RUBIDIUM	XRF	NE	NE		58.2	75.7	59.5	122.5	89.6
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		36.4	51.4	43	51.2	81.5
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		143	177	359	194	163
ZIRCONIUM	XRF	NE	NE		85.2	105.4	97.3	98.5	78.4

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-U02-01-01	155-V01-01-01	155-V02-01-01	155-V03-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	6010B	230	6,100		---	---	---	---
ARSENIC	XRF	230	6,100		37.8 U	29.7 U	36.15 U	37.5 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		4,949 U	3,600 U	4,200 U	4,049 U
COBALT	XRF	47,000	1,000,000		275	180 U	210 U	195 U
COPPER	XRF	31,000	820,000		91 U	70 U	84 U	86 U
IRON	XRF	230,000	1,000,000		10,496	6,944	8,659	9,606
LEAD	6010B	400	400		---	---	---	---
LEAD	XRF	400	400		90.8	38.1 U	58.8	137.7
MANGANESE	XRF	18,000	470,000		966	510	570 U	558
MERCURY	7471A	NE	NE		---	---	---	---
MERCURY	XRF	NE	NE		5.25 U	4.35 U	5.4 U	4.95 U
MOLYBDENUM	XRF	391	10,220		15 U	18 U	270 U	17.7 U
NICKEL	XRF	16,000	410,000		180 U	139.2 U	165 U	165 U
RUBIDIUM	XRF	NE	NE		88.9	120.7	630 U	77.5
SELENIUM	6010B	3,900	100,000		---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---
STRONTIUM	XRF	46,924	100,000		52.2	50.4	165 U	84.7
URANIUM	XRF	16	409		---	---	---	---
ZINC	XRF	230,000	1,000,000		156	85	135	229
ZIRCONIUM	XRF	NE	NE		130.1	87.3	150 U	149.1

Table 3-16
(Continued)

Soil Sampling Analytical Results for Site 155
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	155-W01-01-01	155-W02-01-01	155-X01-01-01	155-X02-01-01
				Sample Date	4/15/2002	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		--	--	--	--
ARSENIC	XRF	230	6,100		39.45 U	44.85 U	28.65 U	37.8 U
BARIUM	6010B	55,000	1,000,000		--	--	--	--
CADMIUM	6010B	390	10,000		--	--	--	--
CHROMIUM	6010B	3,900	1,000,000		--	--	--	--
CHROMIUM	XRF	3,900	1,000,000		4,349 U	4,800 U	3,900 U	3,449 U
COBALT	XRF	47,000	1,000,000		225 U	195 U	180 U	235
COPPER	XRF	31,000	820,000		94	161	72 U	73 U
IRON	XRF	230,000	1,000,000		11,898	9,958	9,638	16,397
LEAD	6010B	400	400		--	--	--	--
LEAD	XRF	400	400		157.2	261.6	54.9	384.6
MANGANESE	XRF	18,000	470,000		1,060	4,378	709	746
MERCURY	7471A	NE	NE		--	--	--	--
MERCURY	XRF	NE	NE		5.1 U	6 U	3.9 U	4.8 U
MOLYBDENUM	XRF	391	10,220		14.4 U	16.05 U	13.35 U	15 U
NICKEL	XRF	16,000	410,000		165 U	143.25 U	139.8 U	130.35 U
RUBIDIUM	XRF	NE	NE		66.9	90.3	42.7	76.6
SELENIUM	6010B	3,900	100,000		--	--	--	--
SILVER	6010B	3,900	100,000		--	--	--	--
STRONTIUM	XRF	46,924	100,000		58.5	46.4	38.3	60
URANIUM	XRF	16	409		--	--	--	--
ZINC	XRF	230,000	1,000,000		240	319	145	569
ZIRCONIUM	XRF	NE	NE		133.6	89.7	26.1	140.8

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances
* Laboratory sample for 155-A06-01-01 was collected on 8/15/2001

Table 3-17

Extent of Lead Contaminated Soil Calculations for Site 155
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
155	155-1	155-B02	12	12	0.36	393	472	170
	155-2	155-L01	6	6	0.18	261	313	56
	155-3A	155-P02	6	6	0.18	72	86	16
	155-3B	155-P01	6	6	0.18	88	106	19
	155-4	155-O02	6	6	0.18	203	244	44
							SITE 155 TOTAL=	**305**

[1] See Figure 3-6
m^2 - Square meters
yd^2 - Square Yards
yd^3 - Cubic Yards

Table 3-18

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Sample ID		157-A01-01-01	157-A01-02-01	157-A01-03-01	157-A01-04-01	157-A02-01-01
		Sample Date		8/22/2001	8/22/2001	8/22/2001	8/22/2001	8/22/2001
		Res Action Level	I/C Action Level					
ARSENIC	6010B	230	6,100	—	—	23	—	—
ARSENIC	XRF	230	6,100	84.3	111.5	104.5	47.4 U	40.95 U
BARIUM	6010B	55,000	1,000,000	—	—	190	—	—
CADMIUM	6010B	390	10,000	—	—	4.1	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	6.6 J	—	—
CHROMIUM	XRF	3,900	1,000,000	465 U	510 U	510 U	405 U	720 U
COBALT	XRF	47,000	1,000,000	690 U	1,140	780 U	600 U	774
COPPER	XRF	31,000	820,000	165 U	165 U	144 U	114 U	142 U
IRON	XRF	230,000	1,000,000	50,099	57,754	56,371	35,200	11,200
LEAD	6010B	400	400	—	—	700	—	—
LEAD	XRF	400	400	370	546	690	248	250
MANGANESE	XRF	18,000	470,000	2,100 U	2,400 U	2,400 U	1,950 U	3,827
MERCURY	7471A	NE	NE	—	—	0.11 J	—	—
MERCURY	XRF	NE	NE	22.5 U	26.1 U	26.4 U	18 U	19.65 U
MOLYBDENUM	XRF	391	10,220	9.9 U	10.65 U	11.1 U	11.1 U	13.9
NICKEL	XRF	16,000	410,000	270 U	300 U	300 U	240 U	195 U
RUBIDIUM	XRF	NE	NE	31.7	51.2	59.9	50	41.2
SELENIUM	6010B	3,900	100,000	—	—	27 U	—	—
SILVER	6010B	3,900	100,000	—	—	27 U	—	—
STRONTIUM	XRF	46,924	100,000	77.6	85.9	84.7	82.9	83.5
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	1,220	1,400	604	306	587
ZIRCONIUM	XRF	NE	NE	16.4	37.7	40.8	74.7	117.8

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	157-A03-01-01	157-A04-01-01	157-A04-02-01	157-A05-01-01	157-A05-02-01
				Sample Date	8/22/2001	8/22/2001	8/22/2001	8/22/2001	8/22/2001
ARSENIC	6010B	230	6,100		—	—	—	17	—
ARSENIC	XRF	230	6,100		53.7 U	83.85 U	40.2 U	119.4 U	72.15 U
BARIUM	6010B	55,000	1,000,000		—	—	—	360	—
CADMIUM	6010B	390	10,000		—	—	—	14	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	23 J	—
CHROMIUM	XRF	3,900	1,000,000		390 U	1,650 U	1,095 U	690 U	690 U
COBALT	XRF	47,000	1,000,000		570 U	3,170	1,420	1,020 U	1,035 U
COPPER	XRF	31,000	820,000		145 U	462	145 U	300 U	195 U
IRON	XRF	230,000	1,000,000		31,078	36,378	19,494	70,400	91,187
LEAD	6010B	400	400		—	—	—	**860**	—
LEAD	XRF	400	400		356	**792**	164	**1,720**	**584**
MANGANESE	XRF	18,000	470,000		1,800 U	16,397	8,179	3,149 U	3,300 U
MERCURY	7471A	NE	NE		—	—	—	0.17 J	—
MERCURY	XRF	NE	NE		20.55 U	47.2	19.5 U	45 U	28.65 U
MOLYBDENUM	XRF	391	10,220		10.95 U	20	22.3	13.8 U	12.9
NICKEL	XRF	16,000	410,000		240 U	405 U	271.8	420 U	405 U
RUBIDIUM	XRF	NE	NE		64.6	109.1	97.3	67.4	60.8
SELENIUM	6010B	3,900	100,000		—	—	—	8 J	—
SILVER	6010B	3,900	100,000		—	—	—	27 U	—
STRONTIUM	XRF	46,924	100,000		75.9	78.2	88.4	137.7	90.1
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		896	1,620	283	3,658	1,170
ZIRCONIUM	XRF	NE	NE		61.7	79.8	133	66	43.2

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	157-A05-03-01	157-A05-04-01	157-A06-01-01	157-B01-01-01	157-B01-02-01
				Sample Date	8/22/2001	8/22/2001	8/22/2001	8/22/2001	8/22/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		70.2 U	60.45 U	50.85 U	52.05 U	46.2 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		660 U	742	1,334 U	1,170 U	945 U
COBALT	XRF	47,000	1,000,000		960 U	795 U	2,850	2,379	1,709
COPPER	XRF	31,000	820,000		180 U	150 U	195 U	194	140 U
IRON	XRF	230,000	1,000,000		73,165	56,883	27,187	17,997	19,200
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		552	383	260	366	280
MANGANESE	XRF	18,000	470,000		3,000 U	2,549 U	14,490	12,198	7,078
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		27.15 U	23.25 U	35.2	50.2	22.05 U
MOLYBDENUM	XRF	391	10,220		15.9	12.15 U	36.8	24.1	20.6
NICKEL	XRF	16,000	410,000		375 U	315 U	315 U	285 U	240 U
RUBIDIUM	XRF	NE	NE		71.5	71.7	95.2	86.7	93.9
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		89.5	93.7	105.8	78.4	86.4
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		1,150	659	775	614	432
ZIRCONIUM	XRF	NE	NE		54.5	90.1	102.2	107.1	121.9

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date: 157-B02-01-01 8/22/2001	157-B02-02-01 8/22/2001	157-B02-03-01 8/22/2001	157-C01-01-01 8/22/2001	157-C02-01-01 8/22/2001
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	56.1 U	60 U	37.8 U	43.35 U	63.6 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	1,215 U	270 U	285 U	1,005 U	1,274 U
COBALT	XRF	47,000	1,000,000	2,859	405 U	390 U	1,240	3,120
COPPER	XRF	31,000	820,000	277	99 U	104 U	165 U	488
IRON	XRF	230,000	1,000,000	19,891	17,293	10,298	11,200	19,994
LEAD	6010B	400	400	**470**	130	—	—	**1,200**
LEAD	XRF	400	400	**452**	**626**	47 U	145	**543**
MANGANESE	XRF	18,000	470,000	14,694	1,260 U	1,260 U	6,586	15,693
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	46.2	21.9 U	15.9 U	21.75 U	62.4
MOLYBDENUM	XRF	391	10,220	27.2	10.8 U	13.65 U	30.9	31.5
NICKEL	XRF	16,000	410,000	285 U	180 U	180 U	240 U	315 U
RUBIDIUM	XRF	NE	NE	78.7	83.5	74.3	81.7	111.4
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	92.2	99.9	102.1	75.4	94.5
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	870	337	110	397	1,320
ZIRCONIUM	XRF	NE	NE	102.3	147	137.2	199.7	128.5

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Sample ID		157-C02-02-01	157-C02-03-01	157-D01-01-01	157-D02-01-01	157-D03-01-01
		Sample Date		8/22/2001	8/22/2001	8/22/2001	8/22/2001	10/9/2001
		Res Action Level	I/C Action Level					
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	53.4 U	40.35 U	70.05 U	47.1 U	40.5 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	1,035 U	1,005 U	540 U	390 U	720 U
COBALT	XRF	47,000	1,000,000	2,309	1,909	780 U	540 U	375 U
COPPER	XRF	31,000	820,000	150 U	130 U	1,200	128 U	120 U
IRON	XRF	230,000	1,000,000	21,491	21,094	46,797	23,693	22,298
LEAD	6010B	400	400	310	—	430	—	—
LEAD	XRF	400	400	484	188	342	159	276
MANGANESE	XRF	18,000	470,000	10,598	7,866	2,400 U	1,650 U	1,215 U
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	34.9	22.2	258.4	19.35 U	18 U
MOLYBDENUM	XRF	391	10,220	19	20.7	13.35 U	12.75 U	10.2 U
NICKEL	XRF	16,000	410,000	255 U	240 U	360 U	225 U	195 U
RUBIDIUM	XRF	NE	NE	82.1	79.7	83.7	83.5	61.3
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	101.3	102.8	80.9	85	67.1
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	552	296	1,960	406	425
ZIRCONIUM	XRF	NE	NE	124.5	131.1	91.3	139	76.2

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	157-D04-01-01	157-D04-02-01	157-D04-03-01	157-D04-04-01	157-E01-01-01
				Sample Date	10/9/2001	10/9/2001	10/9/2001	10/9/2001	8/23/2001
ARSENIC	6010B	230	6,100		—	—	—	3.6 J	—
ARSENIC	XRF	230	6,100		72.3 U	121.6	94.2 U	75.9 U	80.4 U
BARIUM	6010B	55,000	1,000,000		—	—	—	440	—
CADMIUM	6010B	390	10,000		—	—	—	11 J	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	38 J	—
CHROMIUM	XRF	3,900	1,000,000		870 U	1,350 U	900 U	615 U	895
COBALT	XRF	47,000	1,000,000		450 U	1,160	750	336	705 U
COPPER	XRF	31,000	820,000		165 U	195 U	165 U	130 U	195 U
IRON	XRF	230,000	1,000,000		25,498	68,454	34,278	15,795	34,995
LEAD	6010B	400	400		—	—	—	**3,000 J**	**1,100**
LEAD	XRF	400	400		**987**	**2,789**	**2,120**	**1,530**	**616**
MANGANESE	XRF	18,000	470,000		1,454 U	2,400 U	1,500 U	1,020 U	2,100 U
MERCURY	7471A	NE	NE		—	—	—	4.4	—
MERCURY	XRF	NE	NE		30.15 U	47.4 U	36.9 U	30 U	30.75 U
MOLYBDENUM	XRF	391	10,220		11.25 U	11.1 U	10.05 U	8.85 U	14.4 U
NICKEL	XRF	16,000	410,000		240 U	360 U	255 U	180 U	300 U
RUBIDIUM	XRF	NE	NE		32.25 U	37.5 U	32.7 U	28.5 U	69.4
SELENIUM	6010B	3,900	100,000		—	—	—	31 UJ	—
SILVER	6010B	3,900	100,000		—	—	—	31 U	—
STRONTIUM	XRF	46,924	100,000		75.3	45.7	81.2	82	100.4
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		900	991	1,020	751	1,320
ZIRCONIUM	XRF	NE	NE		65	33.4	35.4	16.1	93.4

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Sample ID		157-E01-01-01DP	157-E01-02-01	157-E01-03-01	157-E02-01-01	157-E02-02-01
		Sample Date		8/23/2001	8/23/2001	8/23/2001	8/23/2001	8/23/2001
		Res Action Level	I/C Action Level					
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	—	62.85 U	48.15 U	75.3 U	80.2
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	—	402	970	435 U	1,680
COBALT	XRF	47,000	1,000,000	—	495 U	480 U	660 U	480 U
COPPER	XRF	31,000	820,000	—	107 U	134 U	195 U	180 U
IRON	XRF	230,000	1,000,000	—	26,291	19,200	29,594	27,776
LEAD	6010B	400	400	750	860	—	—	—
LEAD	XRF	400	400	—	656	123	531	634
MANGANESE	XRF	18,000	470,000	—	1,484 U	1,500 U	1,950 U	1,650 U
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	—	22.35 U	19.65 U	28.2 U	28.05 U
MOLYBDENUM	XRF	391	10,220	—	10.65 U	13.8 U	13.65 U	12.3 U
NICKEL	XRF	16,000	410,000	—	195 U	273	285 U	255 U
RUBIDIUM	XRF	NE	NE	—	59.5	63.3	55.8	84.5
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	—	62.8	94.8	93.5	88.6
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	—	326	389	1,410	952
ZIRCONIUM	XRF	NE	NE	—	93.3	93.3	70.8	94.9

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	157-E02-03-01	157-E02-04-01	157-E03-01-01	157-F01-01-01	157-F02-01-01
				Sample Date	8/23/2001	8/23/2001	10/9/2001	8/23/2001	8/23/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		56.1 U	45.75 U	36 U	51.3 U	53.25 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,659	1,819	390 U	345 U	345 U
COBALT	XRF	47,000	1,000,000		480 U	465 U	375 U	480 U	495 U
COPPER	XRF	31,000	820,000		180 U	150 U	109 U	126 U	129 U
IRON	XRF	230,000	1,000,000		27,392	22,989	9,997	21,389	24,090
LEAD	6010B	400	400		—	—	—	—	**430**
LEAD	XRF	400	400		**433**	203	142	275	335
MANGANESE	XRF	18,000	470,000		1,650 U	1,500 U	1,090	1,500 U	1,500 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		24.3 U	21.6 U	15.9 U	18.75 U	20.55 U
MOLYBDENUM	XRF	391	10,220		12.3 U	13.2 U	—	11.85 U	11.4 U
NICKEL	XRF	16,000	410,000		261.6	255 U	210 U	210 U	210 U
RUBIDIUM	XRF	NE	NE		81.9	73.4	73.65 U	67.1	71
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		94.4	106.8	65.2	88.9	81.1
URANIUM	XRF	16	409		—	—	27.75 U	—	—
ZINC	XRF	230,000	1,000,000		865	394	548	576	588
ZIRCONIUM	XRF	NE	NE		101.4	108	173	119	127.9

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	157-G01-01-01	157-G01-02-01	157-G01-02-02	157-G01-03-01	157-G01-04-01
				Sample Date	8/23/2001	8/23/2001	10/9/2001	8/23/2001	8/23/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		70.05 U	51.6 U	38.4 U	59.1 U	31.05 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,020 U	4,138	630 U	4,698	842
COBALT	XRF	47,000	1,000,000		736	555 U	330 U	495 U	285 U
COPPER	XRF	31,000	820,000		180 U	180 U	110 U	180 U	101 U
IRON	XRF	230,000	1,000,000		33,894	40,576	17,997	27,981	10,995
LEAD	6010B	400	400		2,100	—	—	1,700	—
LEAD	XRF	400	400		756	394	306	481	62
MANGANESE	XRF	18,000	470,000		1,800 U	1,800 U	1,065 U	1,650 U	960 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		29.55 U	22.5 U	17.25 U	26.55 U	14.55 U
MOLYBDENUM	XRF	391	10,220		12.75 U	20.6	9.75 U	21.8	11.7 U
NICKEL	XRF	16,000	410,000		285 U	426.8	165 U	419.6	165 U
RUBIDIUM	XRF	NE	NE		84.3	72	40.4	56.5	86.2
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		90	98.5	72.3	95.3	133.2
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		1,110	771	500	629	184
ZIRCONIUM	XRF	NE	NE		96.7	144.1	103.2	136.6	198.5

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date: 157-G02-01-01 8/23/2001	157-G02-02-02 10/9/2001	157-G03-01-01 10/10/2001	157-G03-01-01DP 10/10/2001	157-G04-01-01 10/9/2001
ARSENIC	6010B	230	6,100	—	—	38	35	—
ARSENIC	XRF	230	6,100	46.2 U	30.9 U	42 U	—	43.2 U
BARIUM	6010B	55,000	1,000,000	—	—	300 J	280 J	—
CADMIUM	6010B	390	10,000	—	—	40	41	—
CHROMIUM	6010B	3,900	1,000,000	—	—	39	38	—
CHROMIUM	XRF	3,900	1,000,000	2,099	589	450 U	—	570 U
COBALT	XRF	47,000	1,000,000	390 U	270 U	820	—	300 U
COPPER	XRF	31,000	820,000	180 U	102 U	210	—	131 U
IRON	XRF	230,000	1,000,000	11,494	12,000	19,290	—	11,597
LEAD	6010B	400	400	—	—	910 J	800 J	—
LEAD	XRF	400	400	104	143	365	—	324
MANGANESE	XRF	18,000	470,000	1,334 U	855 U	2,250	—	930 U
MERCURY	7471A	NE	NE	—	—	0.58	0.53 J	—
MERCURY	XRF	NE	NE	23.1 U	13.95 U	19.7	—	20.55 U
MOLYBDENUM	XRF	391	10,220	27.9	9.6 U	—	—	10.65 U
NICKEL	XRF	16,000	410,000	322.4	145.8 U	240 U	—	165 U
RUBIDIUM	XRF	NE	NE	39.9	47.5	84.8	—	45.3
SELENIUM	6010B	3,900	100,000	—	—	5.8 U	5.9 U	—
SILVER	6010B	3,900	100,000	—	—	5.8	5.1 J	—
STRONTIUM	XRF	46,924	100,000	33.5	56.6	65	—	57.5
URANIUM	XRF	16	409	—	—	21.75 U	—	—
ZINC	XRF	230,000	1,000,000	336	405	1,450	—	674
ZIRCONIUM	XRF	NE	NE	68.8	115.7	97.4	—	81.4

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	157-H01-01-01	157-H02-01-01	157-I01-01-01	157-I02-01-01
				Sample Date	8/23/2001	8/23/2001	10/10/2001	10/10/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		47.7 U	47.25 U	30.6 U	40.95 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		602	2,040	405 U	495 U
COBALT	XRF	47,000	1,000,000		495 U	510 U	405 U	480 U
COPPER	XRF	31,000	820,000		134 U	165 U	87 U	110 U
IRON	XRF	230,000	1,000,000		22,093	19,200	10,899	14,093
LEAD	6010B	400	400		240	—	—	—
LEAD	XRF	400	400		199	65 U	41 U	94
MANGANESE	XRF	18,000	470,000		1,500 U	1,650 U	1,120	1,140 U
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		19.5 U	24.75 U	12.3 U	17.85 U
MOLYBDENUM	XRF	391	10,220		12 U	18.2	—	—
NICKEL	XRF	16,000	410,000		210 U	285 U	210 U	255 U
RUBIDIUM	XRF	NE	NE		72.7	96.2	76.35 U	84.9 U
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		85.6	95.8	60.7	101.3
URANIUM	XRF	16	409		—	—	28.95 U	31.8 U
ZINC	XRF	230,000	1,000,000		670	117	100	233
ZIRCONIUM	XRF	NE	NE		106.3	128.2	170.5	181.8

Table 3-18
(Continued)

Soil Sampling Analytical Results for Site 157
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date: 157-J01-01-01 10/9/2001	157-J01-02-01 10/9/2001	157-J02-01-01 10/9/2001
ARSENIC	6010B	230	6,100	--	--	--
ARSENIC	XRF	230	6,100	74.1 U	42 U	35.1 U
BARIUM	6010B	55,000	1,000,000	--	--	--
CADMIUM	6010B	390	10,000	--	--	--
CHROMIUM	6010B	3,900	1,000,000	--	--	--
CHROMIUM	XRF	3,900	1,000,000	630 U	510 U	420 U
COBALT	XRF	47,000	1,000,000	570 U	465 U	405 U
COPPER	XRF	31,000	820,000	144 U	106 U	98 U
IRON	XRF	230,000	1,000,000	17,395	12,397	10,598
LEAD	6010B	400	400	--	--	--
LEAD	XRF	400	400	**832**	125	144
MANGANESE	XRF	18,000	470,000	2,050	1,789	1,120
MERCURY	7471A	NE	NE	--	--	--
MERCURY	XRF	NE	NE	28.95 U	16.95 U	14.55 U
MOLYBDENUM	XRF	391	10,220	--	--	--
NICKEL	XRF	16,000	410,000	300 U	255 U	225 U
RUBIDIUM	XRF	NE	NE	86.85 U	86.85 U	73.35 U
SELENIUM	6010B	3,900	100,000	--	--	--
SILVER	6010B	3,900	100,000	--	--	--
STRONTIUM	XRF	46,924	100,000	64.2	65.3	61.6
URANIUM	XRF	16	409	32.1 U	32.55 U	27.75 U
ZINC	XRF	230,000	1,000,000	568	128	193
ZIRCONIUM	XRF	NE	NE	129.8	211.2	145.8

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD- Industrial/ Commercial the Action Level Exceedances

Table 3-19

Extent of Lead Contaminated Soil Calculations for Site 157
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
157	157-1A	157-A01	18	18	0.54	632	758	410
	157-1B	157-A04	6	12	0.36	1,077	1,292	465
		157-A05	18					
	157-2	157-B02	12	10	0.3	1,045	1,254	376
		157-C02	12					
		157-J01	6					
	157-3	157-F02	6	6	0.18	275	330	59
	157-4	157-E01	12	15	0.45	520	624	281
		157-E02	18					
	157-5	157-D01	6	6	0.18	319	383	69
	157-6	157-D04	24	24	0.72	178	214	154
	157-7	157-G01	18	12	0.36	252	302	109
		157-G03	6					
							SITE 157 TOTAL=	**1,923**

[1] See Figure 3-7
m^2 - Square meters
yd^2 - Square Yards
yd^3 - Cubic Yards

Table 3-20

Soil Sampling Analytical Results for Site 158
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	158-A01-01-01	158-A02-01-01	158-A03-01-01	158-A04-01-01	158-A05-01-01
				Sample Date	8/13/2001	8/13/2001	8/13/2001	8/13/2001	8/13/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		43.8 U	34.95 U	54.3 U	49.95 U	45.9 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		435 U	225 U	844	1,020	653
COBALT	XRF	47,000	1,000,000		645 U	315 U	600 U	795 U	480 U
COPPER	XRF	31,000	820,000		124 U	86 U	165 U	165 U	131 U
IRON	XRF	230,000	1,000,000		29,286	9,024	16,294	38,400	12,698
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		61	41 U	61 U	85	52 U
MANGANESE	XRF	18,000	470,000		1,950 U	990 U	1,950 U	2,549 U	1,500 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		19.35 U	14.7 U	25.2 U	21.75 U	22.05 U
MOLYBDENUM	XRF	391	10,220		12.75 U	10.5 U	16.8 U	14.55 U	14.25 U
NICKEL	XRF	16,000	410,000		255 U	147.9 U	285 U	330 U	225 U
RUBIDIUM	XRF	NE	NE		36.4	61.3	40.8 U	38.1 U	36.6 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		71.1	107.2	116.6	89	89.3
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		203	86.5	162.4	328.6	124.4
ZIRCONIUM	XRF	NE	NE		12.9 U	23.7	16.65 U	23.9	19.5

Table 3-20
(Continued)

Soil Sampling Analytical Results for Site 158
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	158-A06-01-01 / 8/13/2001	158-A07-01-01 / 8/13/2001	158-A08-01-01 / 8/13/2001	158-A09-01-01 / 8/13/2001	158-A10-01-01 / 8/13/2001
ARSENIC	6010B	230	6,100	---	---	---	---	---
ARSENIC	XRF	230	6,100	50.7 U	64.35 U	56.4 U	47.4 U	52.5 U
BARIUM	6010B	55,000	1,000,000	---	---	---	---	---
CADMIUM	6010B	390	10,000	---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000	---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000	346	405 U	405 U	450 U	450 U
COBALT	XRF	47,000	1,000,000	480 U	555 U	570 U	668	660 U
COPPER	XRF	31,000	820,000	131 U	165 U	150 U	137 U	306
IRON	XRF	230,000	1,000,000	16,000	12,800	22,694	27,699	30,797
LEAD	6010B	400	400	---	---	---	---	---
LEAD	XRF	400	400	139	120	217	101	187
MANGANESE	XRF	18,000	470,000	1,500 U	1,800 U	1,800 U	1,950 U	2,100 U
MERCURY	7471A	NE	NE	---	---	---	---	---
MERCURY	XRF	NE	NE	19.65 U	27.6 U	22.35 U	20.25 U	21.3 U
MOLYBDENUM	XRF	391	10,220	12.6 U	18 U	13.2 U	12.9 U	12.9 U
NICKEL	XRF	16,000	410,000	210 U	270 U	240 U	255 U	285 U
RUBIDIUM	XRF	NE	NE	66.9	46.65 U	60.5	44.1	45.3
SELENIUM	6010B	3,900	100,000	---	---	---	---	---
SILVER	6010B	3,900	100,000	---	---	---	---	---
STRONTIUM	XRF	46,924	100,000	117.6	114.1	98.4	91.3	96.5
URANIUM	XRF	16	409	---	---	---	---	---
ZINC	XRF	230,000	1,000,000	268.6	305.4	534	286.4	543.2
ZIRCONIUM	XRF	NE	NE	44	26	48.2	17.1	17.8

Table 3-20
(Continued)

Soil Sampling Analytical Results for Site 158
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	158-A11-01-01	158-A12-01-01	158-A13-01-01	158-A14-01-01
				Sample Date	8/13/2001**	8/13/2001	8/13/2001	8/13/2001
ARSENIC	6010B	230	6,100		6.6	—	—	—
ARSENIC	XRF	230	6,100		72.45 U	57.45 U	124.65 U	54.75 U
BARIUM	6010B	55,000	1,000,000		120	—	—	—
CADMIUM	6010B	390	10,000		2.5	—	—	—
CHROMIUM	6010B	3,900	1,000,000		16	—	—	—
CHROMIUM	XRF	3,900	1,000,000		555 U	390 U	3,440	390 U
COBALT	XRF	47,000	1,000,000		735 U	555 U	1,590	570 U
COPPER	XRF	31,000	820,000		225 U	165 U	4,400	197
IRON	XRF	230,000	1,000,000		27,494	14,899	60,979	28,186
LEAD	6010B	400	400		150 J	—	—	—
LEAD	XRF	400	400		318	99	96 U	316
MANGANESE	XRF	18,000	470,000		2,400 U	1,650 U	5,658	1,800 U
MERCURY	7471A	NE	NE		0.17 J	—	—	—
MERCURY	XRF	NE	NE		30.3 U	25.95 U	1,040	23.1 U
MOLYBDENUM	XRF	391	10,220		15.6 U	15.6 U	37.7	10.95 U
NICKEL	XRF	16,000	410,000		330 U	255 U	750 U	240 U
RUBIDIUM	XRF	NE	NE		39.15 U	62	58.95 U	72
SELENIUM	6010B	3,900	100,000		5.2 U	—	—	—
SILVER	6010B	3,900	100,000		5.2 U	—	—	—
STRONTIUM	XRF	46,924	100,000		63.8	86.3	34	111
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		988.8	464.8	2,890	1,659
ZIRCONIUM	XRF	NE	NE		21.6	40.8	22.05 U	52.7

Table 3-20
(Continued)

Soil Sampling Analytical Results for Site 158
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	158-A15-01-01 8/13/2001	158-A16-01-01 8/13/2001	158-A17-01-01 8/13/2001	158-A18-01-01 8/13/2001	158-B01-01-01 8/14/2001
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	34.35 U	48.45 U	—	42.3 U	42.9
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	330 U	360 U	—	270 U	936
COBALT	XRF	47,000	1,000,000	507	549	—	405 U	450 U
COPPER	XRF	31,000	820,000	92 U	121 U	—	127 U	99 U
IRON	XRF	230,000	1,000,000	14,989	24,090	—	15,194	22,298
LEAD	6010B	400	400	—	—	—	—	—
LEAD	XRF	400	400	40 U	233	294	157	100
MANGANESE	XRF	18,000	470,000	1,949	2,229	—	1,244 U	1,410 U
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	13.95 U	18.9 U	—	18.15 U	15.9 U
MOLYBDENUM	XRF	391	10,220	13.05 U	10.65 U	—	10.05 U	10.8 U
NICKEL	XRF	16,000	410,000	180 U	225 U	—	180 U	289.2
RUBIDIUM	XRF	NE	NE	45.2	30 U	—	28.5 U	94.2
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	103.2	96.3	—	92.4	90
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	69.4	397.2	—	702	234
ZIRCONIUM	XRF	NE	NE	175.9	27	—	10.95 U	92.9

Table 3-20
(Continued)

Soil Sampling Analytical Results for Site 158
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	158-B02-01-01	158-B03-01-01	158-B04-01-01	158-B05-01-01	158-B06-01-01
				Sample Date	8/14/2001	8/14/2001	8/14/2001	8/14/2001	8/14/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		58.2 U	45.6 U	61.5 U	97.8 U	51.6 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,290	1,130	540 U	2,880	2,309
COBALT	XRF	47,000	1,000,000		705 U	630 U	825 U	1,095 U	795 U
COPPER	XRF	31,000	820,000		150 U	129 U	150 U	5,949	202
IRON	XRF	230,000	1,000,000		36,992	34,483	49,997	72,090	46,285
LEAD	6010B	400	400		—	—	240	—	—
LEAD	XRF	400	400		250	132	278	73 U	119
MANGANESE	XRF	18,000	470,000		2,250 U	1,950 U	2,549 U	3,449 U	2,549 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		22.5 U	17.85 U	24.3 U	1,360	30
MOLYBDENUM	XRF	391	10,220		13.65 U	12 U	13.05 U	14.4 U	12.75 U
NICKEL	XRF	16,000	410,000		285 U	255 U	315 U	600 U	425.2
RUBIDIUM	XRF	NE	NE		48.2	71.9	36.15 U	42.15 U	31.35 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		90.8	72.4	90.8	28.4	52.3
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		462.4	295.6	460.4	3,907	471.6
ZIRCONIUM	XRF	NE	NE		70.3	65	42.4	29.5	12.75 U

Table 3-20
(Continued)

Soil Sampling Analytical Results for Site 158
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	158-B07-01-01 8/14/2001	158-B08-01-01 8/14/2001	158-B09-01-01 8/14/2001	158-B09-01-02 10/8/2001	158-B10-01-01 10/8/2001
ARSENIC	6010B	230	6,100		---	---	---	11 J	---
ARSENIC	XRF	230	6,100		47.3	61.35 U	108.75 U	41.4 U	43.2 U
BARIUM	6010B	55,000	1,000,000		---	---	---	200	---
CADMIUM	6010B	390	10,000		---	---	---	10 J	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	15 J	---
CHROMIUM	XRF	3,900	1,000,000		375 U	1,310	2,909	600 U	3,600
COBALT	XRF	47,000	1,000,000		585 U	1,230 U	1,110 U	1,010	585 U
COPPER	XRF	31,000	820,000		125 U	195 U	9,939	126 U	165 U
IRON	XRF	230,000	1,000,000		32,998	84,685	73,062	22,694	35,277
LEAD	6010B	400	400		---	---	---	**420 J**	---
LEAD	XRF	400	400		145	144	68 U	163	138
MANGANESE	XRF	18,000	470,000		1,800 U	3,900 U	3,449 U	2,440	1,950 U
MERCURY	7471A	NE	NE		---	---	---	*0.46 J*	---
MERCURY	XRF	NE	NE		17.4 U	26.1 U	2,179	17.7 U	20.4 U
MOLYBDENUM	XRF	391	10,220		9.75 U	16.05 U	14.4 U	---	13.1
NICKEL	XRF	16,000	410,000		240 U	465 U	675 U	300 U	455.2
RUBIDIUM	XRF	NE	NE		24.15 U	41.8	36.9 U	73.5 U	50.4
SELENIUM	6010B	3,900	100,000		---	---	---	30 UJ	---
SILVER	6010B	3,900	100,000		---	---	---	30 U	---
STRONTIUM	XRF	46,924	100,000		47.2	42.7	16.35 U	68.2	85.2
URANIUM	XRF	16	409		---	---	---	27.3 U	---
ZINC	XRF	230,000	1,000,000		521.2	453.6	5,699	490.4	290.4
ZIRCONIUM	XRF	NE	NE		10.35 U	14.1 U	35	41.5	32.9

Table 3-20
(Continued)

Soil Sampling Analytical Results for Site 158
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	158-B10-01-02	158-B10-02-02	158-C01-01-01	158-C02-01-01	158-D01-01-01
				Sample Date	10/8/2001	10/8/2001	8/14/2001	8/14/2001	8/14/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		39.3 U	36.3 U	42.9 U	38.4 U	67.2 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		870 U	585 U	1,350	840 U	1,570
COBALT	XRF	47,000	1,000,000		465 U	300 U	675 U	585 U	675 U
COPPER	XRF	31,000	820,000		135 U	108 U	111 U	98 U	504
IRON	XRF	230,000	1,000,000		26,394	14,093	24,794	16,294	28,083
LEAD	6010B	400	400		—	—	160	—	440
LEAD	XRF	400	400		142	222	137	71	210
MANGANESE	XRF	18,000	470,000		1,470 U	975 U	1,140 U	1,005 U	2,100 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		18.3 U	15.75 U	44.1 U	39.45 U	111.4
MOLYBDENUM	XRF	391	10,220		11.4 U	9.75 U	18.6 U	18.3 U	15.9 U
NICKEL	XRF	16,000	410,000		240 U	165 U	360 U	315 U	330 U
RUBIDIUM	XRF	NE	NE		33	67.1	73.7	54.2	58.3
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		77.5	102.4	46	18.7	75.8
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		279	342.2	395	160.3	700.4
ZIRCONIUM	XRF	NE	NE		45.1	88.7	179.3	140.4	91.5

Table 3-20
(Continued)

Soil Sampling Analytical Results for Site 158
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	158-D01-01-02 8/14/2001	158-D02-01-01 8/14/2001	158-E01-01-01 8/15/2001	158-E02-01-01 8/15/2001	158-F01-01-01 8/21/2001
ARSENIC	6010B	230	6,100	---	---	---	---	---
ARSENIC	XRF	230	6,100	36.3 U	46.5 U	52.35 U	52.2 U	45.15 U
BARIUM	6010B	55,000	1,000,000	---	---	---	---	---
CADMIUM	6010B	390	10,000	---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000	---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000	585 U	1,380	825 U	1,180	930 U
COBALT	XRF	47,000	1,000,000	300 U	585 U	945 U	585 U	1,130
COPPER	XRF	31,000	820,000	108 U	136 U	255 U	431	134 U
IRON	XRF	230,000	1,000,000	14,093	21,197	13,094	23,693	10,400
LEAD	6010B	400	400	---	---	170	---	290
LEAD	XRF	400	400	222	53 U	205	87	207
MANGANESE	XRF	18,000	470,000	975 U	1,800 U	6,298 U	1,800 U	5,149
MERCURY	7471A	NE	NE	---	---	---		---
MERCURY	XRF	NE	NE	15.75 U	20.25 U	36.3 U	104.2	21.9 U
MOLYBDENUM	XRF	391	10,220	9.75 U	15.9 U	10.8 U	14.4 U	27.3
NICKEL	XRF	16,000	410,000	165 U	255 U	375 U	270 U	225 U
RUBIDIUM	XRF	NE	NE	67.1	57.5	46.1	59.9	58.4
SELENIUM	6010B	3,900	100,000	---	---	---	---	---
SILVER	6010B	3,900	100,000	---	---	---	---	---
STRONTIUM	XRF	46,924	100,000	102	74.8	100.1	94.5	96.4
URANIUM	XRF	16	409	---	---	---	---	---
ZINC	XRF	230,000	1,000,000	342	146.7	387.8	512	255.6
ZIRCONIUM	XRF	NE	NE	88.7	173.4	91.2	148.3	122.9

Table 3-20
(Continued)

Soil Sampling Analytical Results for Site 158
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	158-F02-01-01	158-G01-01-01	158-G02-01-01	158-H01-01-01
				Sample Date	8/21/2001	10/8/2001	10/8/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	—	7.1	—
ARSENIC	XRF	230	6,100		39.9 U	50.1 U	44.55 U	42.75 U
BARIUM	6010B	55,000	1,000,000		—	—	190	—
CADMIUM	6010B	390	10,000		—	—	4.1 J	—
CHROMIUM	6010B	3,900	1,000,000		—	—	15 J	—
CHROMIUM	XRF	3,900	1,000,000		1,095 U	660 U	540 U	525 U
COBALT	XRF	47,000	1,000,000		1,140	773	480 U	495 U
COPPER	XRF	31,000	820,000		150 U	128 U	110 U	111 U
IRON	XRF	230,000	1,000,000		12,698	19,200	13,798	16,192
LEAD	6010B	400	400		—	—	250	—
LEAD	XRF	400	400		95	209	213	197
MANGANESE	XRF	18,000	470,000		6,147	2,970	2,309	1,185 U
MERCURY	7471A	NE	NE		—	—	0.65	—
MERCURY	XRF	NE	NE		19.8 U	20.7 U	18 U	17.1 U
MOLYBDENUM	XRF	391	10,220		21.1	—	—	—
NICKEL	XRF	16,000	410,000		255 U	315 U	270 U	255 U
RUBIDIUM	XRF	NE	NE		83.9	88.2 U	83.55 U	83.4 U
SELENIUM	6010B	3,900	100,000		—	—	6 UJ	—
SILVER	6010B	3,900	100,000		—	—	1.2 J	—
STRONTIUM	XRF	46,924	100,000		92.5	86.7	72.1	66.4
URANIUM	XRF	16	409		—	32.55 U	31.2 U	42.3
ZINC	XRF	230,000	1,000,000		227.2	243.2	186.8	291.6
ZIRCONIUM	XRF	NE	NE		136.5	108.4	145.1	114.4

Table 3-20
(Continued)

Soil Sampling Analytical Results for Site 158
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	158-H02-01-01 10/8/2001	158-I01-01-01 10/8/2001	158-I02-01-01 10/8/2001
ARSENIC	6010B	230	6,100		—	—	—
ARSENIC	XRF	230	6,100		42.75 U	31.35 U	30.3 U
BARIUM	6010B	55,000	1,000,000		—	—	—
CADMIUM	6010B	390	10,000		—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—
CHROMIUM	XRF	3,900	1,000,000		495 U	600 U	570 U
COBALT	XRF	47,000	1,000,000		450 U	308	270 U
COPPER	XRF	31,000	820,000		102 U	98 U	101 U
IRON	XRF	230,000	1,000,000		13,798	12,499	10,298
LEAD	6010B	400	400		—	—	—
LEAD	XRF	400	400		205	90	64
MANGANESE	XRF	18,000	470,000		1,080 U	960 U	1,010
MERCURY	7471A	NE	NE		—	—	—
MERCURY	XRF	NE	NE		17.25 U	15.9 U	16.05 U
MOLYBDENUM	XRF	391	10,220		—	10.65 U	11
NICKEL	XRF	16,000	410,000		240 U	165 U	150 U
RUBIDIUM	XRF	NE	NE		102.3	54.2	39.8
SELENIUM	6010B	3,900	100,000		—	—	—
SILVER	6010B	3,900	100,000		—	—	—
STRONTIUM	XRF	46,924	100,000		94.9	77.6	72.6
URANIUM	XRF	16	409		28.5 U	—	—
ZINC	XRF	230,000	1,000,000		229.2	191.4	207.2
ZIRCONIUM	XRF	NE	NE		146.9	106.8	119

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances
** 158A11-01-01 laboratory sample was collected on 8/15/2002

Table 3-21

Extent of Lead Contaminated Soil Calculations for Site 158
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
158	158-1	158-B09	6	6	0.18	2,329	2,795	503
158	158-2	158-D01	6	6	0.18	222	266	48
							SITE 158 TOTAL=	**551**

[1] See Figure 3-8
m^2 - Square meters
yd^2 - Square Yards
yd^3 - Cubic Yards

Table 3-22

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-A01-01-01	160-A01-01-02	160-A01-02-01	160-A02-01-01	160-B01-01-01
				Sample Date	8/22/2001	8/22/2001	8/22/2001	8/22/2001	8/14/2001
ARSENIC	6010B	230	6,100		10	—	12	—	—
ARSENIC	XRF	230	6,100		65.1 U	90.3 U	45.45 U	44.25 U	42.6 U
BARIUM	6010B	55,000	1,000,000		260	—	290	—	—
CADMIUM	6010B	390	10,000		7.9	—	6.1	—	—
CHROMIUM	6010B	3,900	1,000,000		22	—	33	—	—
CHROMIUM	XRF	3,900	1,000,000		360 U	930 U	1,244 U	330 U	982
COBALT	XRF	47,000	1,000,000		525 U	504	810	465 U	510 U
COPPER	XRF	31,000	820,000		165 U	420 U	165 U	116 U	121 U
IRON	XRF	230,000	1,000,000		26,291	18,496	52,582	16,589	20,595
LEAD	6010B	400	400		670	—	330	—	—
LEAD	XRF	400	400		601	1,380	241	51 U	48 U
MANGANESE	XRF	18,000	470,000		1,650 U	1,979	2,120	1,470 U	1,650 U
MERCURY	7471A	NE	NE		0.85	—	0.22 J	—	—
MERCURY	XRF	NE	NE		24.6 U	45.45 U	20.55 U	18.6 U	17.7 U
MOLYBDENUM	XRF	391	10,220		10.35 U	12.15 U	15.6	13.05 U	14.1 U
NICKEL	XRF	16,000	410,000		225 U	315 U	330 U	210 U	313.4
RUBIDIUM	XRF	NE	NE		64.7	48.4	51	71.1	65.3
SELENIUM	6010B	3,900	100,000		10 J	—	15 J	—	—
SILVER	6010B	3,900	100,000		29 U	—	29 U	—	—
STRONTIUM	XRF	46,924	100,000		71.2	52.6	68.4	93	64.7
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		1,460	8,109	615	192	128
ZIRCONIUM	XRF	NE	NE		53.3	50	81.1	79.7	153.9

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-B02-01-01	160-B03-01-01	160-B04-01-01	160-C01-01-01	160-C02-01-01
				Sample Date	8/14/2001	8/14/2001	8/14/2001	8/14/2001	8/14/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		45.75 U	52.35 U	51.6 U	47.25 U	43.95 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		375 U	949	769	1,070	1,410
COBALT	XRF	47,000	1,000,000		540 U	570 U	540 U	540 U	495 U
COPPER	XRF	31,000	820,000		141 U	143 U	135 U	125 U	114 U
IRON	XRF	230,000	1,000,000		20,800	20,890	24,090	21,389	24,000
LEAD	6010B	400	400		—	—	230	—	240
LEAD	XRF	400	400		52 U	91	237	135	169
MANGANESE	XRF	18,000	470,000		1,650 U	1,800 U	1,650 U	1,800 U	1,650 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		22.7	21 U	19.95 U	18.9 U	16.2 U
MOLYBDENUM	XRF	391	10,220		15.15 U	14.7 U	11.4 U	13.05 U	11.7 U
NICKEL	XRF	16,000	410,000		240 U	255 U	225 U	333.2	300.6
RUBIDIUM	XRF	NE	NE		70	59	31.95 U	66.4	46.4
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		64.1	74.8	101.4	92.2	116.5
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		254	243	499	240	377
ZIRCONIUM	XRF	NE	NE		185.3	61.8	28.7	77.9	82.1

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-D01-01-01	160-D02-01-01	160-E01-01-01	160-E02-01-01	160-E02-02-01
				Sample Date	8/21/2001	8/21/2001	8/14/2001	8/14/2001	8/14/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		42.75 U	43.2 U	53.7 U	85.8 U	64.05 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		514	801	360 U	1,640	486
COBALT	XRF	47,000	1,000,000		450 U	480 U	510 U	630 U	645 U
COPPER	XRF	31,000	820,000		103 U	136	200	254	131 U
IRON	XRF	230,000	1,000,000		18,291	23,795	18,496	29,491	34,893
LEAD	6010B	400	400		—	210	—	1,000	—
LEAD	XRF	400	400		138	146	165	842	481
MANGANESE	XRF	18,000	470,000		1,364 U	1,500 U	1,650 U	1,950 U	1,950 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		16.95 U	47.2	41.1	61.2	23.85 U
MOLYBDENUM	XRF	391	10,220		12.6 U	11.55 U	13.35 U	14.1 U	12.6 U
NICKEL	XRF	16,000	410,000		195 U	210 U	225 U	285 U	255 U
RUBIDIUM	XRF	NE	NE		60.1	69.1	61.5	61.4	70.8
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		110.2	88.1	81.5	86.8	69.2
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		266	413	337	470	338
ZIRCONIUM	XRF	NE	NE		192.1	113.8	98.1	138.2	82.2

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-E02-03-01	160-E02-04-01	160-F01-01-01	160-F02-01-01	160-G01-01-01
				Sample Date	8/14/2001	8/14/2001	8/14/2001	8/14/2001	8/21/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		80.7 U	67.35 U	52.8 U	69.9 U	42.45 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		525 U	570 U	390 U	408	885 U
COBALT	XRF	47,000	1,000,000		1,040	840 U	570 U	540 U	535
COPPER	XRF	31,000	820,000		512	188	135 U	984	139 U
IRON	XRF	230,000	1,000,000		50,099	59,085	18,394	19,098	16,896
LEAD	6010B	400	400		**970**	—	—	87	260
LEAD	XRF	400	400		**861**	**529**	113	265	199
MANGANESE	XRF	18,000	470,000		2,400 U	2,549 U	1,800 U	1,650 U	2,699
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		29.1 U	24.9 U	20.55 U	177.7	20.4 U
MOLYBDENUM	XRF	391	10,220		12.45 U	12.3 U	15.15 U	15.75 U	12.6 U
NICKEL	XRF	16,000	410,000		315 U	330 U	240 U	285 U	225 U
RUBIDIUM	XRF	NE	NE		81	77.1	88.2	40.05 U	73.8
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		74.1	83.1	37.4	102	102.7
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		592	578	170	756	364
ZIRCONIUM	XRF	NE	NE		64.2	49.9	71.2	168.2	121.6

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-G02-01-01	160-H01-01-01	160-H02-01-01	160-I01-01-01	160-I02-01-01
				Sample Date	8/21/2001	8/21/2001	8/21/2001	8/21/2001	8/21/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		49.8 U	36.15 U	42 U	53.1 U	39.15 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		5,418	780 U	1,290 U	1,650 U	1,155 U
COBALT	XRF	47,000	1,000,000		567	409	1,350	1,850	1,330
COPPER	XRF	31,000	820,000		195 U	122 U	165 U	210 U	144 U
IRON	XRF	230,000	1,000,000		24,000	10,995	16,192	16,499	13,798
LEAD	6010B	400	400		—	—	34	30	—
LEAD	XRF	400	400		146	59	57 U	105	56 U
MANGANESE	XRF	18,000	470,000		3,269	1,909	7,789	10,195	7,328
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		23.7 U	18.6 U	19.95 U	27.3 U	19.5 U
MOLYBDENUM	XRF	391	10,220		33.9	19	31	34.6	25.6
NICKEL	XRF	16,000	410,000		499.2	195 U	285 U	360 U	255 U
RUBIDIUM	XRF	NE	NE		98.2	62.3	90.1	69.5	90.8
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		102.5	114	71.1	79.1	85
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		354	160	270	252	89
ZIRCONIUM	XRF	NE	NE		127.8	144.5	172.9	138.6	220.6

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-J01-01-01	160-J02-01-01	160-K01-01-01	160-K02-01-01	160-K02-01-01DP
				Sample Date	8/21/2001	8/21/2001	8/21/2001	8/21/2001	8/21/2001
ARSENIC	6010B	230	6,100		—	3.8 J	—	—	—
ARSENIC	XRF	230	6,100		35.7 U	41.1 U	46.35 U	48.9 U	—
BARIUM	6010B	55,000	1,000,000		—	230	—	—	—
CADMIUM	6010B	390	10,000		—	8.5	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	13	—	—	—
CHROMIUM	XRF	3,900	1,000,000		2,859	1,360	766	983	—
COBALT	XRF	47,000	1,000,000		405 U	362	585	510 U	—
COPPER	XRF	31,000	820,000		128 U	126 U	129 U	141 U	—
IRON	XRF	230,000	1,000,000		18,189	12,800	21,798	20,390	—
LEAD	6010B	400	400		—	330	—	170	240
LEAD	XRF	400	400		59	213	74	149	—
MANGANESE	XRF	18,000	470,000		1,630	1,095 U	1,800 U	1,650 U	—
MERCURY	7471A	NE	NE		—	0.31 J	—	—	—
MERCURY	XRF	NE	NE		17.4 U	19.35 U	19.2 U	20.4 U	—
MOLYBDENUM	XRF	391	10,220		19	11.85 U	13.8 U	12.6 U	—
NICKEL	XRF	16,000	410,000		225 U	180 U	240 U	225 U	—
RUBIDIUM	XRF	NE	NE		56.7	59	106.2	101.3	—
SELENIUM	6010B	3,900	100,000		—	5.3 U	—	—	—
SILVER	6010B	3,900	100,000		—	5.3 U	—	—	—
STRONTIUM	XRF	46,924	100,000		84.5	97.2	74.1	89.7	—
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		189	373	319	624	—
ZIRCONIUM	XRF	NE	NE		279.4	138.8	104.9	97.3	—

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-L01-01-01	160-L02-01-01	160-M01-01-01	160-M02-01-01	160-N01-01-01
				Sample Date	8/22/2001	8/22/2001	8/21/2001	8/21/2001	8/21/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		36.75 U	48.45 U	44.55 U	39.45 U	43.35 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		720 U	330 U	345 U	330 U	780 U
COBALT	XRF	47,000	1,000,000		365	480 U	480 U	750	375 U
COPPER	XRF	31,000	820,000		121 U	123 U	142 U	97 U	135 U
IRON	XRF	230,000	1,000,000		13,798	14,899	16,192	18,598	13,888
LEAD	6010B	400	400		100	—	200	—	—
LEAD	XRF	400	400		113	87	106	53	144
MANGANESE	XRF	18,000	470,000		1,709	1,470 U	1,500 U	1,454 U	1,230 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		18.45 U	19.95 U	20.55 U	15.3 U	19.5 U
MOLYBDENUM	XRF	391	10,220		19.7	13.65 U	13.65 U	11.85 U	13.5 U
NICKEL	XRF	16,000	410,000		195 U	210 U	225 U	195 U	210 U
RUBIDIUM	XRF	NE	NE		64.3	56.6	50.9	110.6	59.2
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		79.2	102.1	70.4	87.9	68.8
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		246	214	452	177	242
ZIRCONIUM	XRF	NE	NE		199.6	76.2	111.3	120.3	97.4

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-N02-01-01	160-O01-01-01	160-O02-01-01	160-O02-02-01
				Sample Date	8/21/2001	8/21/2001	8/21/2001	8/21/2001
ARSENIC	6010B	230	6,100		—	—	4 J	—
ARSENIC	XRF	230	6,100		52.2 U	42.15 U	129	49.35 U
BARIUM	6010B	55,000	1,000,000		—	—	71	—
CADMIUM	6010B	390	10,000		—	—	2.1	—
CHROMIUM	6010B	3,900	1,000,000		—	—	13	—
CHROMIUM	XRF	3,900	1,000,000		849	3,709	3,280	3,179
COBALT	XRF	47,000	1,000,000		630 U	435 U	390 U	450 U
COPPER	XRF	31,000	820,000		207	145 U	142 U	148 U
IRON	XRF	230,000	1,000,000		29,798	20,890	17,498	23,194
LEAD	6010B	400	400		330	—	110	240
LEAD	XRF	400	400		156	182	1,040	313
MANGANESE	XRF	18,000	470,000		1,950 U	1,454 U	1,304 U	1,500 U
MERCURY	7471A	NE	NE		—	—	0.076 J	—
MERCURY	XRF	NE	NE		33.7	18.45 U	33.45 U	20.55 U
MOLYBDENUM	XRF	391	10,220		13.8 U	19.8	19.3	12.6 U
NICKEL	XRF	16,000	410,000		270 U	395.8	225.8	413.2
RUBIDIUM	XRF	NE	NE		72.7	73.6	42	81.6
SELENIUM	6010B	3,900	100,000		—	—	5.2 U	—
SILVER	6010B	3,900	100,000		—	—	0.71 J	—
STRONTIUM	XRF	46,924	100,000		84.4	105	47.9	94.2
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		391	317	355	342
ZIRCONIUM	XRF	NE	NE		108.2	155.8	47.2	107.6

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-P01-01-01	160-P02-01-01	160-P03-01-01	160-P04-01-01
				Sample Date	8/21/2001	8/21/2001	10/8/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		62.4 U	50.1 U	45.9 U	32.4 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		889	2,280	555 U	570 U
COBALT	XRF	47,000	1,000,000		600 U	405 U	495 U	285 U
COPPER	XRF	31,000	820,000		134 U	143 U	118 U	98 U
IRON	XRF	230,000	1,000,000		26,880	15,398	13,888	12,096
LEAD	6010B	400	400		430	—	—	—
LEAD	XRF	400	400		314	233	179	124
MANGANESE	XRF	18,000	470,000		1,950 U	1,304 U	1,580	930 U
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		24.6 U	22.65 U	18.6 U	15.45 U
MOLYBDENUM	XRF	391	10,220		14.4 U	19.5	—	10.05 U
NICKEL	XRF	16,000	410,000		255 U	225 U	270 U	150 U
RUBIDIUM	XRF	NE	NE		102.4	51.2	85.5 U	82.5
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		87.1	95	64.4	77.8
URANIUM	XRF	16	409		—	—	36.4	—
ZINC	XRF	230,000	1,000,000		282	249	245	205
ZIRCONIUM	XRF	NE	NE		111.3	119.1	92	89.5

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-Q01-01-01	160-Q01-01-02	160-Q01-01-03	160-Q01-02-01	160-Q02-01-01
				Sample Date	8/21/2001	8/21/2001	8/21/2001	10/8/2001	8/21/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		103.8 U	108	40.95 U	27.9 U	35.4 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,630	4,627	2,569	450 U	270 U
COBALT	XRF	47,000	1,000,000		1,110	1,190	405 U	225 U	390 U
COPPER	XRF	31,000	820,000		11,098	9,555	132 U	81 U	105 U
IRON	XRF	230,000	1,000,000		24,998	35,891	18,893	8,755	13,888
LEAD	6010B	400	400		—	—	—	—	140
LEAD	XRF	400	400		64 U	67 U	144	138	50
MANGANESE	XRF	18,000	470,000		1,950 U	2,549 U	1,460	720 U	1,215 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		2,450	2,130	19.95 U	12.9 U	14.55 U
MOLYBDENUM	XRF	391	10,220		14.55 U	16.65 U	16.9	8.85 U	11.1 U
NICKEL	XRF	16,000	410,000		585 U	630 U	231	126.3 U	180 U
RUBIDIUM	XRF	NE	NE		41.4 U	43.35 U	89.6	56.7	58.8
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		18 U	19.8 U	92.6	73	67.5
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		6,509	5,680	219	174	262
ZIRCONIUM	XRF	NE	NE		118.1	118	136	102.1	75.7

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-R01-01-01	160-R02-01-01	160-S01-01-01	160-S02-01-01	160-T01-01-01
				Sample Date	8/21/2001	8/21/2001	10/8/2001	10/8/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		65.55 U	61.05 U	35.85 U	31.95 U	28.2 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,340	2,000	405 U	435	510 U
COBALT	XRF	47,000	1,000,000		915 U	615 U	405 U	360 U	240 U
COPPER	XRF	31,000	820,000		195 U	1,699	95 U	88 U	86 U
IRON	XRF	230,000	1,000,000		53,299	23,091	11,898	8,256	9,760
LEAD	6010B	400	400		300	—	—	—	—
LEAD	XRF	400	400		240	52 U	118	84	101
MANGANESE	XRF	18,000	470,000		2,849 U	1,950 U	1,040	825 U	810 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		28.8 U	452.8	14.55 U	13.65 U	13.35 U
MOLYBDENUM	XRF	391	10,220		16.05 U	15.15 U	—	—	9.6 U
NICKEL	XRF	16,000	410,000		415.6	345 U	210 U	195 U	135.75 U
RUBIDIUM	XRF	NE	NE		113.3	37.95 U	101	68.7 U	61.9
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		81.3	53.2	68.1	32	86.8
URANIUM	XRF	16	409		—	—	25.8 U	25.65 U	—
ZINC	XRF	230,000	1,000,000		572	1,300	189	148	119
ZIRCONIUM	XRF	NE	NE		81.1	121.5	110.7	78.2	128.3

Table 3-22
(Continued)

Soil Sampling Analytical Results for Site 160
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	160-T02-01-01	160-U01-01-01	160-U02-01-01	160-V01-01-01	160-V02-01-01
				Sample Date	10/8/2001	10/8/2001	10/8/2001	10/8/2001	10/8/2001
ARSENIC	6010B	230	6,100		—	—	—	7.9	—
ARSENIC	XRF	230	6,100		35.4 U	37.65 U	29.4 U	41.55 U	35.4 U
BARIUM	6010B	55,000	1,000,000		—	—	—	64	—
CADMIUM	6010B	390	10,000		—	—	—	0.8 J	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	9	—
CHROMIUM	XRF	3,900	1,000,000		585 U	645 U	525 U	255 U	405 U
COBALT	XRF	47,000	1,000,000		285 U	330 U	255 U	240 U	405 U
COPPER	XRF	31,000	820,000		103 U	113 U	95 U	117	93 U
IRON	XRF	230,000	1,000,000		9,997	14,400	11,597	3,269	9,965
LEAD	6010B	400	400		—	—	—	**490 J**	—
LEAD	XRF	400	400		107	188	97	292	47 U
MANGANESE	XRF	18,000	470,000		930 U	1,050 U	855 U	540 U	945 U
MERCURY	7471A	NE	NE		—	—	—	0.24 J	—
MERCURY	XRF	NE	NE		15.9 U	16.2 U	14.25 U	17.4 U	15 U
MOLYBDENUM	XRF	391	10,220		12.7	13	9.45 U	—	—
NICKEL	XRF	16,000	410,000		165 U	180 U	145.8 U	165 U	225 U
RUBIDIUM	XRF	NE	NE		58.4	78.9	99.1	59.4 U	84.6 U
SELENIUM	6010B	3,900	100,000		—	—	—	5.2 UJ	—
SILVER	6010B	3,900	100,000		—	—	—	0.83 J	—
STRONTIUM	XRF	46,924	100,000		102.4	94.7	65.8	13.2 U	82.1
URANIUM	XRF	16	409		—	—	—	22.65 U	31.8 U
ZINC	XRF	230,000	1,000,000		143	240	260	156	50 U
ZIRCONIUM	XRF	NE	NE		162.7	175	95	9.15 U	209

XRF - X-ray fluorescence.
— - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-23

Extent of Lead Contaminated Soil Calculations for Site 160
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
160	160-1	160-A01 160-E02	6 24	15	0.45	550	660	297
	160-2	160-O02	6	6	0.18	101	121	22
	160-3	160-P01	6	6	0.18	253	304	55
	160-4	160-V01	6	6	0.18	131	157	28
							SITE 160 TOTAL=	**402**

[1]- See Figure 3-9
m^2 - Square meters
yd^2 - Square Yards
yd^3 - Cubic Yards

Table 3-24

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-A01-01-01	173-A01-02-01	173-A02-01-01	173-A03-01-01	173-A03-02-01
				Sample Date	8/24/2001	8/24/2001	8/24/2001	8/24/2001	8/24/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		48.15 U	38.4 U	107.85 U	85.2 U	33.6 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		765 U	4,438	2,250 U	1,330	2,840
COBALT	XRF	47,000	1,000,000		405 U	510 U	1,770	821	752
COPPER	XRF	31,000	820,000		195 U	150 U	405 U	285 U	146 U
IRON	XRF	230,000	1,000,000		25,690	25,498	145,920	42,394	54,989
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		448	54 U	1,669	1,170	46 U
MANGANESE	XRF	18,000	470,000		1,290 U	1,800 U	3,900 U	2,100 U	2,250 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		23.25 U	19.2 U	49.5 U	36.45 U	17.1 U
MOLYBDENUM	XRF	391	10,220		9.75 U	19.7	13.2 U	15.4	24.8
NICKEL	XRF	16,000	410,000		225 U	479.6	645.2	330 U	332.4
RUBIDIUM	XRF	NE	NE		27.45 U	111	36.45 U	36.3 U	54.1
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		76	90	24	56.6	64.2
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		2,280	171	5,450	3,170	168
ZIRCONIUM	XRF	NE	NE		68.4	119.3	22.65 U	49.4	48.7

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID Sample Date 173-A04-01-01 8/24/2001	173-A04-02-01 8/24/2001	173-A04-03-01 8/24/2001	173-A05-01-01 8/24/2001	173-A05-02-01 8/24/2001
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	82.5 U	97.2	47.85 U	87.45 U	55.95 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	3,250	506	930	722	3,318
COBALT	XRF	47,000	1,000,000	675 U	645 U	570 U	795 U	435 U
COPPER	XRF	31,000	820,000	445	180 U	129 U	255 U	149 U
IRON	XRF	230,000	1,000,000	45,978	37,786	24,589	55,552	22,989
LEAD	6010B	400	400	—	—	—	—	—
LEAD	XRF	400	400	**946**	**716**	62	**1,040**	**440**
MANGANESE	XRF	18,000	470,000	2,250 U	1,950 U	1,800 U	2,400 U	1,500 U
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	38.55 U	27.75 U	18.9 U	33.9 U	23.85 U
MOLYBDENUM	XRF	391	10,220	13.5 U	10.95 U	14.1 U	11.25 U	12.15 U
NICKEL	XRF	16,000	410,000	424	270 U	418	330 U	382.8
RUBIDIUM	XRF	NE	NE	37.8 U	60.5	90	32.25 U	40
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	64.5	77.1	60	79.8	75.8
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	3,328	1,350	189	3,578	388
ZIRCONIUM	XRF	NE	NE	44.8	49.9	64.8	12.3 U	67.1

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-A05-03-01	173-A06-01-01	173-A06-02-01	173-A07-01-01	173-A07-02-01
				Sample Date	8/24/2001	8/24/2001	8/24/2001	8/24/2001	8/24/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		45.9 U	149.2	58.2 U	83.1 U	49.65 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		2,349	540 U	1,170	555 U	2,400
COBALT	XRF	47,000	1,000,000		405 U	810 U	615 U	840 U	465 U
COPPER	XRF	31,000	820,000		123 U	315 U	337	270 U	165 U
IRON	XRF	230,000	1,000,000		20,992	46,490	23,296	36,582	26,880
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		280	1,450	122	440	354
MANGANESE	XRF	18,000	470,000		1,380 U	2,400 U	1,950 U	2,549 U	1,699
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		19.65 U	42.75 U	79.5	35.1 U	22.95 U
MOLYBDENUM	XRF	391	10,220		12.4	12.6 U	15.3 U	16.8 U	16.2
NICKEL	XRF	16,000	410,000		379.2	375 U	285 U	360 U	255 U
RUBIDIUM	XRF	NE	NE		77.1	33.75 U	38.4	39.3 U	60
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		80.8	41.3	51.6	44.9	66.6
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		221	4,659	422	1,909	712
ZIRCONIUM	XRF	NE	NE		103.2	22.1	64.7	31.9	69.4

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-A07-02-02	173-A08-01-01	173-A08-02-01	173-A09-01-01	173-A09-02-01
				Sample Date	8/24/2001	8/24/2001	8/24/2001	8/24/2001	8/24/2001
ARSENIC	6010B	230	6,100		—	11 J	12 J	—	—
ARSENIC	XRF	230	6,100		56.7 U	1,290	129.8	60.15 U	42.75 U
BARIUM	6010B	55,000	1,000,000		—	450 J	170 J	—	—
CADMIUM	6010B	390	10,000		—	9 J	6 J	—	—
CHROMIUM	6010B	3,900	1,000,000		—	43 J	8.9 J	—	—
CHROMIUM	XRF	3,900	1,000,000		4,410	594	1,190	684	615 U
COBALT	XRF	47,000	1,000,000		690 U	750 U	570 U	555 U	300 U
COPPER	XRF	31,000	820,000		195 U	300 U	149 U	195 U	107 U
IRON	XRF	230,000	1,000,000		48,179	33,792	25,894	30,694	10,899
LEAD	6010B	400	400		—	11,000 J	1,700 J	—	—
LEAD	XRF	400	400		340	21,094	1,180	507	300
MANGANESE	XRF	18,000	470,000		2,250 U	2,250 U	1,800 U	1,650 U	960 U
MERCURY	7471A	NE	NE		—	0.57	0.25 J	—	—
MERCURY	XRF	NE	NE		25.5 U	139.65 U	36.3 U	25.05 U	17.4 U
MOLYBDENUM	XRF	391	10,220		21.9	14.7 U	11.85 U	10.8 U	11.25 U
NICKEL	XRF	16,000	410,000		426	360 U	361	240 U	165 U
RUBIDIUM	XRF	NE	NE		38.25 U	69.15 U	36.6	28.2 U	73.5
SELENIUM	6010B	3,900	100,000		—	5.5 UJ	5.5 UJ	—	—
SILVER	6010B	3,900	100,000		—	5.5 UJ	5.5 UJ	—	—
STRONTIUM	XRF	46,924	100,000		88.9	38.8	72.6	69.9	129.1
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		664	2,490	470	2,339	232
ZIRCONIUM	XRF	NE	NE		100	19.2 U	23.3	60.4	132.5

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-B01-01-01	173-B01-02-01	173-B02-01-01	173-C01-01-01	173-C02-01-01
				Sample Date	8/24/2001	8/24/2001	8/24/2001	8/24/2001	8/24/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		663.6	73.5 U	40.65 U	44.1 U	43.35 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,659	2,200	282	1,460	1,490
COBALT	XRF	47,000	1,000,000		1,950 U	600 U	315 U	360 U	315 U
COPPER	XRF	31,000	820,000		7,309	3,029	150 U	195 U	165 U
IRON	XRF	230,000	1,000,000		131,994	22,797	11,795	16,294	13,990
LEAD	6010B	400	400		15,000	140	—	—	460
LEAD	XRF	400	400		9,088	63 U	222	236	309
MANGANESE	XRF	18,000	470,000		23,398	1,800 U	990 U	1,200 U	1,050 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		180 U	768.8	17.4 U	21.45 U	20.25 U
MOLYBDENUM	XRF	391	10,220		24.6 U	14.25 U	9.45 U	12.4	12.7
NICKEL	XRF	16,000	410,000		1,500 U	390 U	165 U	210 U	210.4
RUBIDIUM	XRF	NE	NE		180 U	45.75 U	35.9	51.9	60.9
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		3,898	208.4	118.7	111.3	106.6
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		108,954	3,210	1,859	1,380	1,280
ZIRCONIUM	XRF	NE	NE		55.35 U	79.8	93.6	94.9	114.4

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	173-D01-01-01 8/24/2001*	173-D01-02-01 10/9/2001	173-D02-01-01 8/24/2001	173-E01-01-01 8/24/2001
ARSENIC	6010B	230	6,100	5.8 J	—	—	—
ARSENIC	XRF	230	6,100	37.35 U	33.6 U	41.1 U	31.35 U
BARIUM	6010B	55,000	1,000,000	150	—	—	—
CADMIUM	6010B	390	10,000	9.7 J	—	—	—
CHROMIUM	6010B	3,900	1,000,000	16	—	—	—
CHROMIUM	XRF	3,900	1,000,000	3,629	345 U	255 U	555 U
COBALT	XRF	47,000	1,000,000	375 U	330 U	375 U	270 U
COPPER	XRF	31,000	820,000	147 U	100 U	182	122 U
IRON	XRF	230,000	1,000,000	13,491	7,949	13,888	11,398
LEAD	6010B	400	400	100 J	—	220	180
LEAD	XRF	400	400	85	71	121	131
MANGANESE	XRF	18,000	470,000	1,260 U	780 U	1,125 U	885 U
MERCURY	7471A	NE	NE	0.092 J	—	—	—
MERCURY	XRF	NE	NE	18.6 U	13.65 U	38	15.3 U
MOLYBDENUM	XRF	391	10,220	17	—	10.95 U	9.75 U
NICKEL	XRF	16,000	410,000	320.4	195 U	165 U	215
RUBIDIUM	XRF	NE	NE	31.8 U	74.5	52.8	45.9
SELENIUM	6010B	3,900	100,000	5.9 UJ	—	—	—
SILVER	6010B	3,900	100,000	1.5 J	—	—	—
STRONTIUM	XRF	46,924	100,000	82.8	117.9	80	82.3
URANIUM	XRF	16	409	—	26.4 U	—	—
ZINC	XRF	230,000	1,000,000	354	367	600	632
ZIRCONIUM	XRF	NE	NE	112.2	136.7	115.5	82.2

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-E02-01-01	173-F01-01-01	173-F02-01-01	173-G01-01-01	173-G01-02-01
				Sample Date	8/24/2001	8/24/2001	8/24/2001	8/24/2001	8/24/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		33.15 U	54.45 U	42.6 U	55.35 U	37.05 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		423	658	354	2,709	1,340
COBALT	XRF	47,000	1,000,000		330 U	405 U	390 U	495 U	360 U
COPPER	XRF	31,000	820,000		108 U	522	137 U	225 U	150 U
IRON	XRF	230,000	1,000,000		12,800	9,606	17,498	24,998	18,688
LEAD	6010B	400	400		—	—	420	4,000	160
LEAD	XRF	400	400		101	82	203	369	132
MANGANESE	XRF	18,000	470,000		990 U	1,274 U	1,230 U	1,650 U	1,215 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		13.65 U	134.5	17.4 U	26.25 U	18.15 U
MOLYBDENUM	XRF	391	10,220		9.15 U	13.8 U	10.2 U	22	13.7
NICKEL	XRF	16,000	410,000		147.6 U	255 U	180 U	373	269.8
RUBIDIUM	XRF	NE	NE		46.2	28.95 U	49.2	34.95 U	76.7
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		59.1	21.4	92.2	66.6	101.8
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		673	1,709	1,120	1,819	822
ZIRCONIUM	XRF	NE	NE		60.3	13.05 U	84	54	119.4

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-G02-01-01	173-H01-01-01	173-H01-02-01	173-H02-01-01	173-I01-01-01
				Sample Date	8/24/2001	10/9/2001	10/9/2001	10/9/2001	10/9/2001
ARSENIC	6010B	230	6,100		---	5.2 J	---	---	---
ARSENIC	XRF	230	6,100		53.6	41.1 U	29.25 U	41.4 U	32.1 U
BARIUM	6010B	55,000	1,000,000		---	140	---	---	---
CADMIUM	6010B	390	10,000		---	22 J	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	10	---	---	---
CHROMIUM	XRF	3,900	1,000,000		330 U	525 U	570 U	930 U	525 U
COBALT	XRF	47,000	1,000,000		480 U	255 U	285 U	688	313
COPPER	XRF	31,000	820,000		195 U	150 U	105 U	165 U	116 U
IRON	XRF	230,000	1,000,000		21,491	10,400	12,595	28,186	9,728
LEAD	6010B	400	400		---	210 J	---	---	---
LEAD	XRF	400	400		323	363	86	172	110
MANGANESE	XRF	18,000	470,000		1,470 U	840 U	915 U	1,500 U	855 U
MERCURY	7471A	NE	NE		---	0.24 J	---	---	---
MERCURY	XRF	NE	NE		23.4 U	19.65 U	13.95 U	20.7 U	15.45 U
MOLYBDENUM	XRF	391	10,220		10.8 U	9.6 U	9.75 U	12.6 U	10.65 U
NICKEL	XRF	16,000	410,000		225 U	165 U	165 U	255 U	150 U
RUBIDIUM	XRF	NE	NE		26.55 U	41.9	83.9	45.4	62.3
SELENIUM	6010B	3,900	100,000		---	6.2 UJ	---	---	---
SILVER	6010B	3,900	100,000		---	2.1 J	---	---	---
STRONTIUM	XRF	46,924	100,000		54.3	136.3	119.2	129.7	125.9
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		2,330	1,370	359	672	463
ZIRCONIUM	XRF	NE	NE		21.4	89.6	126.8	133.5	117.7

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-I02-01-01	173-J01-01-01	173-J02-01-01	173-K01-01-01	173-K02-01-01
				Sample Date	10/9/2001	10/9/2001	10/9/2001	10/9/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		39.3 U	34.2 U	33.75 U	41.7 U	54.45 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		690 U	390 U	405 U	825 U	885 U
COBALT	XRF	47,000	1,000,000		360 U	390 U	405 U	580	450 U
COPPER	XRF	31,000	820,000		138 U	102 U	104 U	165 U	270 U
IRON	XRF	230,000	1,000,000		17,190	9,946	10,899	19,789	22,989
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		209	79	51	200	404
MANGANESE	XRF	18,000	470,000		1,170 U	900 U	930 U	1,450	1,690
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		18.3 U	13.95 U	14.1 U	20.85 U	27.75 U
MOLYBDENUM	XRF	391	10,220		14	—	—	13.4	11.7 U
NICKEL	XRF	16,000	410,000		195 U	210 U	225 U	225 U	255 U
RUBIDIUM	XRF	NE	NE		58.5	77.7 U	85.05 U	72.6	44.5
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		112.6	76.9	95.4	91.3	94.3
URANIUM	XRF	16	409		—	29.25 U	32.1 U	—	—
ZINC	XRF	230,000	1,000,000		717	315	305	1,270	3,259
ZIRCONIUM	XRF	NE	NE		114.3	171.7	263.2	108.4	70.1

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-K02-02-01	173-K02-03-01	173-L01-01-01	173-L02-01-01	173-M01-01-01
				Sample Date	10/9/2001	10/9/2001	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		11	—	—	—	—
ARSENIC	XRF	230	6,100		50.7 U	39.3 U	22.65 U	34.65 U	26.4 U
BARIUM	6010B	55,000	1,000,000		230	—	—	—	—
CADMIUM	6010B	390	10,000		6.8 J	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		16	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		900 U	795 U	2,700 U	8,365	3,000 U
COBALT	XRF	47,000	1,000,000		658	564	173	210 U	145 U
COPPER	XRF	31,000	820,000		136 U	120 U	65 U	101	74 U
IRON	XRF	230,000	1,000,000		32,896	25,190	7,238	14,899	7,776
LEAD	6010B	400	400		500 J	—	—	—	—
LEAD	XRF	400	400		464	233	77	155	50
MANGANESE	XRF	18,000	470,000		2,050	2,560	601	1,180	534
MERCURY	7471A	NE	NE		13	—	—	—	—
MERCURY	XRF	NE	NE		21.3 U	18.75 U	3.45 U	4.95 U	4.05 U
MOLYBDENUM	XRF	391	10,220		10.95 U	10.35 U	10.5 U	14.6	14.9
NICKEL	XRF	16,000	410,000		240 U	210 U	100.65 U	260.2	119.85 U
RUBIDIUM	XRF	NE	NE		72.7	84.4	59	82.6	67.3
SELENIUM	6010B	3,900	100,000		5.4 UJ	—	—	—	—
SILVER	6010B	3,900	100,000		1.1 J	—	—	—	—
STRONTIUM	XRF	46,924	100,000		118.8	112.5	61	105.6	72.7
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		568	394	518	568	377
ZIRCONIUM	XRF	NE	NE		96	105.4	132.7	109.1	134.4

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-M02-01-01	173-M2-01-01DP	173-N01-01-01	173-N02-01-01
				Sample Date	4/15/2002	4/16/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		9.9	10	—	—
ARSENIC	XRF	230	6,100		29.55 U	—	25.5 U	26.7 U
BARIUM	6010B	55,000	1,000,000		540	340	—	—
CADMIUM	6010B	390	10,000		20	17	—	—
CHROMIUM	6010B	3,900	1,000,000		12	14	—	—
CHROMIUM	XRF	3,900	1,000,000		12,000	—	2,700 U	2,700 U
COBALT	XRF	47,000	1,000,000		165 U	—	169	201
COPPER	XRF	31,000	820,000		83 U	—	83	65 U
IRON	XRF	230,000	1,000,000		10,899	—	8,826	9,126
LEAD	6010B	400	400		1,200	7,000	—	—
LEAD	XRF	400	400		109	—	151	174
MANGANESE	XRF	18,000	470,000		801	—	783	682
MERCURY	7471A	NE	NE		0.7 UJ	0.6 UJ	—	—
MERCURY	XRF	NE	NE		4.35 U	—	3.45 U	3.6 U
MOLYBDENUM	XRF	391	10,220		12.75 U	—	10.2 U	10.65 U
NICKEL	XRF	16,000	410,000		137.25 U	—	101.7 U	105.75 U
RUBIDIUM	XRF	NE	NE		69.1	—	72.2	67.9
SELENIUM	6010B	3,900	100,000		7 U	6.3 U	—	—
SILVER	6010B	3,900	100,000		7 U	6.3 U	—	—
STRONTIUM	XRF	46,924	100,000		97	—	79.1	85.1
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		534	—	692	501
ZIRCONIUM	XRF	NE	NE		107.9	—	100.6	119.4

Table 3-24
(Continued)

Soil Sampling Analytical Results for Site 173
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	173-O01-01-01	173-O02-01-01	173-P01-01-01	173-P02-01-01
				Sample Date	4/15/2002	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		26.55 U	21.45 U	32.1 U	30.45 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		2,849 U	2,549 U	3,300 U	**5,459**
COBALT	XRF	47,000	1,000,000		134 U	126	165 U	197
COPPER	XRF	31,000	820,000		78 U	75	97	111
IRON	XRF	230,000	1,000,000		8,416	7,046	13,094	13,299
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		136	64	220	231
MANGANESE	XRF	18,000	470,000		531	624	1,130	862
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		3.75 U	3.3 U	4.35 U	4.2 U
MOLYBDENUM	XRF	391	10,220		10.65 U	10.2 U	11.1 U	10.2 U
NICKEL	XRF	16,000	410,000		108.15 U	95.85 U	126.9 U	123.9 U
RUBIDIUM	XRF	NE	NE		66	65.5	76.7	61.4
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		41.1	55.8	74.4	58.5
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		849	382	1,040	842
ZIRCONIUM	XRF	NE	NE		64.5	90.9	101.5	85.1

XRF - X-ray fluorescence.
— - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances
* Laborartory sample for 173-D01-01-01 was collected on 10/9/2001

Table 3-25

Extent of Lead Contaminated Soil Calculations for Site 173
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
173	173-1	173-A01 173-A02 173-A03 173-A04 173-A05 173-A06 173-A08 173-A07 173-A09	6 6 6 12 12 6 12 6 6	8	0.24	19,390	23,268	5,584
	173-2	173-B01	6	6	0.18	251	301	54
	173-3	173-M02 173-C02	6 6	6	0.18	858	1,030	185
	173-4	173-F02 173-G01	6 6	6	0.18	696	835	150
	173-5	173-K02	12	12	0.36	791	949	342
							SITE 173 TOTAL=	**6,316**

[1]- See Figure 3-10
m^2 - Square meters
yd^2- Square Yards
yd^3- Cubic Yards

Table 3-26

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID: 178-A01-01-01	178-A01-02-01	178-A02-01-01	178-A03-01-01
				Sample Date: 8/22/2001	8/22/2001	8/22/2001	8/22/2001
ALUMINUM	6010B	780,000	1,000,000	—	—	—	12,000
ANTIMONY	6010B	810	8,200	—	—	—	6.4 U
ARSENIC	6010B	230	6,100	—	—	—	10
ARSENIC	XRF	230	6,100	59.25 U	44.4 U	53.7 U	77.5
BARIUM	6010B	55,000	1,000,000	—	—	—	220
BERYLLIUM	6010B	15	130	—	—	—	0.72
CADMIUM	6010B	390	10,000	—	—	—	19
CALCIUM	6010B	NE	NE	—	—	—	13,000
CHROMIUM	6010B	3,900	1,000,000	—	—	—	110
CHROMIUM	XRF	3,900	1,000,000	885 U	1,210	2,040	419
COBALT	6010B	47,000	1,000,000	—	—	—	18
COBALT	XRF	47,000	1,000,000	1,060	510 U	760	600 U
COPPER	6010B	31,000	820,000	—	—	—	3,300
COPPER	XRF	31,000	820,000	1,350	360	165 U	2,690
IRON	6010B	230,000	1,000,000	—	—	—	23,000
IRON	XRF	230,000	1,000,000	18,496	23,795	17,088	30,976
LEAD	6010B	400	400	—	—	—	330
LEAD	XRF	400	400	611	161	332	768
MAGNESIUM	6010B	NE	NE	—	—	—	5,900
MANGANESE	6010B	18,000	470,000	—	—	—	510
MANGANESE	XRF	18,000	470,000	5,347	1,500 U	3,840	1,800 U
MERCURY	7471A	NE	NE	—	—	—	0.23 J
MERCURY	XRF	NE	NE	27.6 U	16.35 U	24.6 U	27.75 U
MOLYBDENUM	XRF	391	10,220	14.8	12.15 U	26.7	12 U
NICKEL	6010B	16,000	410,000	—	—	—	780
NICKEL	XRF	16,000	410,000	386	373	356	544
POTASSIUM	6010B	NE	NE	—	—	—	2,200
RUBIDIUM	XRF	NE	NE	69.5	77.9	81.2	66.8
SELENIUM	6010B	3,900	100,000	—	—	—	11
SILVER	6010B	3,900	100,000	—	—	—	1.2 J
SODIUM	6010B	NE	NE	—	—	—	180 BE
STRONTIUM	XRF	46,924	100,000	91.8	78.4	92.5	86.2
THALLIUM	6010B	NE	NE	—	—	—	1.3 U
URANIUM	XRF	16	409	—	—	—	—
VANADIUM	6010B	5,500	140,000	—	—	—	30
ZINC	6010B	230,000	1,000,000	—	—	—	2200
ZINC	XRF	230,000	1,000,000	1,110	295	238	1,850
ZIRCONIUM	XRF	NE	NE	124	199	123	132

Table 3-26
(Continued)

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	178-A03-02-01	178-A03-02-01 DP	178-A04-01-01	178-A05-01-01	178-A06-01-01
				Sample Date	8/22/2001	8/22/2001	8/22/2001	8/22/2001	8/22/2001
ALUMINUM	6010B	780,000	1,000,000		16,000	24,000	—	—	—
ANTIMONY	6010B	810	8,200		6.3 U	32 U	—	—	—
ARSENIC	6010B	230	6,100		12	17	—	—	—
ARSENIC	XRF	230	6,100		39.45 U	—	37.95 U	64.5 U	56.6
BARIUM	6010B	55,000	1,000,000		240	350	—	—	—
BERYLLIUM	6010B	15	130		0.98	1.3 J	—	—	—
CADMIUM	6010B	390	10,000		21	26	—	—	—
CALCIUM	6010B	NE	NE		14,000	13,000	—	—	—
CHROMIUM	6010B	3,900	1,000,000		44	46	—	—	—
CHROMIUM	XRF	3,900	1,000,000		840 U	—	418	1,005 U	360 U
COBALT	6010B	47,000	1,000,000		28	38	—	—	—
COBALT	XRF	47,000	1,000,000		1,160	—	450 U	1,020	540 U
COPPER	6010B	31,000	820,000		1,300	1500	—	—	—
COPPER	XRF	31,000	820,000		940	—	102 U	1,979	470
IRON	6010B	230,000	1,000,000		31,000	44,000	—	—	—
IRON	XRF	230,000	1,000,000		19,290	—	19,392	21,696	20,992
LEAD	6010B	400	400		280	360	—	—	—
LEAD	XRF	400	400		239	—	69	707	231
MAGNESIUM	6010B	NE	NE		6,900	9,400	—	—	—
MANGANESE	6010B	18,000	470,000		610	980	—	—	—
MANGANESE	XRF	18,000	470,000		5,408	—	1,320 U	5,408	1,650 U
MERCURY	7471A	NE	NE		0.29 J	0.25 J	—	—	—
MERCURY	XRF	NE	NE		19.05 U	—	15.15 U	29.4 U	22.05 U
MOLYBDENUM	XRF	391	10,220		15.9	—	11.4 U	22.1	13.5 U
NICKEL	6010B	16,000	410,000		640	890	—	—	—
NICKEL	XRF	16,000	410,000		473	—	195 U	741	255 U
POTASSIUM	6010B	NE	NE		2,800	3,900	—	—	—
RUBIDIUM	XRF	NE	NE		58.9	—	85.7	56.1	53
SELENIUM	6010B	3,900	100,000		13	43	—	—	—
SILVER	6010B	3,900	100,000		0.86 J	32 U	—	—	—
SODIUM	6010B	NE	NE		200 BE	790 BE	—	—	—
STRONTIUM	XRF	46,924	100,000		66	—	112.4	88.4	105.3
THALLIUM	6010B	NE	NE		1.3 U	32 U	—	—	—
URANIUM	XRF	16	409		—	—	—	—	—
VANADIUM	6010B	5,500	140,000		40	53	—	—	—
ZINC	6010B	230,000	1,000,000		1400	1900	—	—	—
ZINC	XRF	230,000	1,000,000		774	—	189	1,150	520
ZIRCONIUM	XRF	NE	NE		125	—	145	124	152

Table 3-26
(Continued)

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	178-A07-01-01	178-A08-01-01	178-A09-01-01	178-A10-01-01
				Sample Date	8/22/2001	8/22/2001	8/22/2001	8/22/2001
ALUMINUM	6010B	780,000	1,000,000		—	—	—	—
ANTIMONY	6010B	810	8,200		—	—	—	—
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		95.55 U	46.5 U	50.4 U	50.55 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
BERYLLIUM	6010B	15	130		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CALCIUM	6010B	NE	NE		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,470 U	1,140 U	699	1,110 U
COBALT	6010B	47,000	1,000,000		—	—	—	—
COBALT	XRF	47,000	1,000,000		2,090	1,180	660 U	1,130
COPPER	6010B	31,000	820,000		—	—	—	—
COPPER	XRF	31,000	820,000		2,659	165 U	136 U	580
IRON	6010B	230,000	1,000,000		—	—	—	—
IRON	XRF	230,000	1,000,000		42,291	19,200	30,797	18,291
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		1,340	121	102	266
MAGNESIUM	6010B	NE	NE		—	—	—	—
MANGANESE	6010B	18,000	470,000		—	—	—	—
MANGANESE	XRF	18,000	470,000		9,997	5,238	2,100 U	5,939
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		43.5 U	23.4 U	19.65 U	26
MOLYBDENUM	XRF	391	10,220		15 U	19.2	14.1 U	18
NICKEL	6010B	16,000	410,000		—	—	—	—
NICKEL	XRF	16,000	410,000		826	285 U	270 U	421
POTASSIUM	6010B	NE	NE		—	—	—	—
RUBIDIUM	XRF	NE	NE		46.05 U	48.5	62.7	84.7
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
SODIUM	6010B	NE	NE		—	—	—	—
STRONTIUM	XRF	46,924	100,000		147.9	90.8	99.4	100.6
THALLIUM	6010B	NE	NE		—	—	—	—
URANIUM	XRF	16	409		—	—	—	—
VANADIUM	6010B	5,500	140,000		—	—	—	—
ZINC	6010B	230,000	1,000,000		—	—	—	—
ZINC	XRF	230,000	1,000,000		2,400	293	296	484
ZIRCONIUM	XRF	NE	NE		90	105	136	154

Table 3-26
(Continued)

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	178-B01-01-01	178-B02-01-01	178-C01-01-01	178-C02-01-01	178-C02-01-01 DP
				Sample Date	8/22/2001	8/22/2001	8/21/2001	8/21/2001	8/21/2001
ALUMINUM	6010B	780,000	1,000,000		---	---	---	---	---
ANTIMONY	6010B	810	8,200		---	---	---	---	---
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		31.8 U	85.65 U	71.7 U	91.65 U	---
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
BERYLLIUM	6010B	15	130		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CALCIUM	6010B	NE	NE		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		675 U	945 U	480 U	525 U	---
COBALT	6010B	47,000	1,000,000		---	---	---	---	---
COBALT	XRF	47,000	1,000,000		315 U	1,260 U	675 U	1,180	---
COPPER	6010B	31,000	820,000		---	---	---	---	---
COPPER	XRF	31,000	820,000		106 U	255 U	165 U	718	---
IRON	6010B	230,000	1,000,000		---	---	---	---	---
IRON	XRF	230,000	1,000,000		10,995	63,386	23,091	34,381	---
LEAD	6010B	400	400		---	---	---	2,500	1,700
LEAD	XRF	400	400		45 U	249	293	772	---
MAGNESIUM	6010B	NE	NE		---	---	---	---	---
MANGANESE	6010B	18,000	470,000		---	---	---	---	---
MANGANESE	XRF	18,000	470,000		1,470	4,288	2,100 U	2,250 U	---
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		15.6 U	35.55 U	27.3 U	141.3	---
MOLYBDENUM	XRF	391	10,220		13.4	20.4 U	16.65 U	14.4 U	---
NICKEL	6010B	16,000	410,000		---	---	---	---	---
NICKEL	XRF	16,000	410,000		180 U	510 U	339	345 U	---
POTASSIUM	6010B	NE	NE		---	---	---	---	---
RUBIDIUM	XRF	NE	NE		80.6	49.95 U	89.5	42.1	---
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
SODIUM	6010B	NE	NE		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		70.6	105.4	60.4	83.4	---
THALLIUM	6010B	NE	NE		---	---	---	---	---
URANIUM	XRF	16	409		---	---	---	---	---
VANADIUM	6010B	5,500	140,000		---	---	---	---	---
ZINC	6010B	230,000	1,000,000		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		146	486	375	1,300	---
ZIRCONIUM	XRF	NE	NE		160	27	97	74	---

Table 3-26
(Continued)

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	178-C02-02-01	178-C02-02-01 DP	178-C02-03-01	178-D01-01-01	178-D02-01-01
				Sample Date	8/21/2001	8/21/2001	8/21/2001	8/21/2001	8/21/2001
ALUMINUM	6010B	780,000	1,000,000		—	—	—	—	—
ANTIMONY	6010B	810	8,200		—	—	—	—	—
ARSENIC	6010B	230	6,100		7.4	6.1 U	—	5.9	—
ARSENIC	XRF	230	6,100		114.3 U	—	78.3 U	56.4 U	52.35 U
BARIUM	6010B	55,000	1,000,000		340	350	—	210	—
BERYLLIUM	6010B	15	130		—	—	—	—	—
CADMIUM	6010B	390	10,000		5.7	5.5	—	2.8	—
CALCIUM	6010B	NE	NE		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		21	20	—	15 B	—
CHROMIUM	XRF	3,900	1,000,000		1,430	—	750	1,170	530
COBALT	6010B	47,000	1,000,000		—	—	—	—	—
COBALT	XRF	47,000	1,000,000		900 U	—	735 U	778	615 U
COPPER	6010B	31,000	820,000		—	—	—	—	—
COPPER	XRF	31,000	820,000		3,958	—	240 U	877	147 U
IRON	6010B	230,000	1,000,000		—	—	—	—	—
IRON	XRF	230,000	1,000,000		37,786	—	16,397	24,192	18,995
LEAD	6010B	400	400		730	600	—	180	—
LEAD	XRF	400	400		386	—	88	57 U	61
MAGNESIUM	6010B	NE	NE		—	—	—	—	—
MANGANESE	6010B	18,000	470,000		—	—	—	—	—
MANGANESE	XRF	18,000	470,000		2,849 U	—	2,400 U	1,950 U	1,950 U
MERCURY	7471A	NE	NE		66	130	—	0.39 J	—
MERCURY	XRF	NE	NE		998.4	—	35.7 U	231.6	23.55 U
MOLYBDENUM	XRF	391	10,220		17.4 U	—	22.8 U	19.9	16.5 U
NICKEL	6010B	16,000	410,000		—	—	—	—	—
NICKEL	XRF	16,000	410,000		525 U	—	390 U	285 U	270 U
POTASSIUM	6010B	NE	NE		—	—	—	—	—
RUBIDIUM	XRF	NE	NE		44.7 U	—	55.2 U	88.6	48.7
SELENIUM	6010B	3,900	100,000		16	20	—	17	—
SILVER	6010B	3,900	100,000		6.1 U	6.1 U	—	5.5 U	—
SODIUM	6010B	NE	NE		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		29.9	—	46.1	85.1	67
THALLIUM	6010B	NE	NE		—	—	—	—	—
URANIUM	XRF	16	409		—	—	—	—	—
VANADIUM	6010B	5,500	140,000		—	—	—	—	—
ZINC	6010B	230,000	1,000,000		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		2,890	—	122	768	256
ZIRCONIUM	XRF	NE	NE		69	—	30	113	71

Table 3-26
(Continued)

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	178-E01-01-01	178-E02-01-01	178-F01-01-01	178-F02-01-01
				Sample Date	8/22/2001	8/22/2001	8/22/2001	8/22/2001
ALUMINUM	6010B	780,000	1,000,000		---	---	---	---
ANTIMONY	6010B	810	8,200		---	---	---	---
ARSENIC	6010B	230	6,100		6.4	---	---	---
ARSENIC	XRF	230	6,100		62.4 U	58.35 U	42 U	42.45 U
BARIUM	6010B	55,000	1,000,000		150	---	---	---
BERYLLIUM	6010B	15	130		---	---	---	---
CADMIUM	6010B	390	10,000		3.3	---	---	---
CALCIUM	6010B	NE	NE		---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		11 JB	---	---	---
CHROMIUM	XRF	3,900	1,000,000		7,149	2,219	780 U	645 U
COBALT	6010B	47,000	1,000,000		---	---	---	---
COBALT	XRF	47,000	1,000,000		735 U	660 U	345 U	422
COPPER	6010B	31,000	820,000		---	---	---	---
COPPER	XRF	31,000	820,000		1,070	401	133 U	116 U
IRON	6010B	230,000	1,000,000		---	---	---	---
IRON	XRF	230,000	1,000,000		41,779	28,493	13,094	13,888
LEAD	6010B	400	400		250	---	---	530
LEAD	XRF	400	400		233	133	182	318
MAGNESIUM	6010B	NE	NE		---	---	---	---
MANGANESE	6010B	18,000	470,000		---	---	---	---
MANGANESE	XRF	18,000	470,000		2,549 U	2,100 U	1,490	1,250
MERCURY	7471A	NE	NE		0.12 J	---	---	---
MERCURY	XRF	NE	NE		30 U	102.8	19.65 U	18.45 U
MOLYBDENUM	XRF	391	10,220		26.5	14.7 U	18.1	11.9
NICKEL	6010B	16,000	410,000		---	---	---	---
NICKEL	XRF	16,000	410,000		569	300 U	195 U	180 U
POTASSIUM	6010B	NE	NE		---	---	---	---
RUBIDIUM	XRF	NE	NE		48.15 U	62.5	71.2	83.3
SELENIUM	6010B	3,900	100,000		250	---	---	---
SILVER	6010B	3,900	100,000		0.95 J	---	---	---
SODIUM	6010B	NE	NE		---	---	---	---
STRONTIUM	XRF	46,924	100,000		148.9	102.3	69.8	101.9
THALLIUM	6010B	NE	NE		---	---	---	---
URANIUM	XRF	16	409		---	---	---	---
VANADIUM	6010B	5,500	140,000		---	---	---	---
ZINC	6010B	230,000	1,000,000		---	---	---	---
ZINC	XRF	230,000	1,000,000		644	488	231	322
ZIRCONIUM	XRF	NE	NE		90	93	118	141

Table 3-26
(Continued)

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	178-G01-01-01	178-G02-01-01	178-H01-01-01	178-H02-01-01
				Sample Date	8/21/2001	8/21/2001	8/21/2001	8/21/2001
ALUMINUM	6010B	780,000	1,000,000		---	---	---	---
ANTIMONY	6010B	810	8,200		---	---	---	---
ARSENIC	6010B	230	6,100		---	---	---	---
ARSENIC	XRF	230	6,100		51.45 U	41.7 U	44.1 U	41.7 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---
BERYLLIUM	6010B	15	130		---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---
CALCIUM	6010B	NE	NE		---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		1,364 U	1,005 U	3,120	840 U
COBALT	6010B	47,000	1,000,000		---	---	---	---
COBALT	XRF	47,000	1,000,000		1,800	1,340	1,280	884
COPPER	6010B	31,000	820,000		---	---	---	---
COPPER	XRF	31,000	820,000		180 U	133 U	165 U	131 U
IRON	6010B	230,000	1,000,000		---	---	---	---
IRON	XRF	230,000	1,000,000		16,998	22,195	19,789	11,494
LEAD	6010B	400	400		---	120	---	160
LEAD	XRF	400	400		105	128	83	111
MAGNESIUM	6010B	NE	NE		---	---	---	---
MANGANESE	6010B	18,000	470,000		---	---	---	---
MANGANESE	XRF	18,000	470,000		7,725	5,930	7,136	4,368
MERCURY	7471A	NE	NE		---	---	---	---
MERCURY	XRF	NE	NE		25.8 U	20.7 U	21 U	20.85 U
MOLYBDENUM	XRF	391	10,220		28.1	25.4	32.2	13.65 U
NICKEL	6010B	16,000	410,000		---	---	---	---
NICKEL	XRF	16,000	410,000		330 U	255 U	320	210 U
POTASSIUM	6010B	NE	NE		---	---	---	---
RUBIDIUM	XRF	NE	NE		96.4	104.5	96.6	82.2
SELENIUM	6010B	3,900	100,000		---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---
SODIUM	6010B	NE	NE		---	---	---	---
STRONTIUM	XRF	46,924	100,000		94.7	92.2	90.1	81.9
THALLIUM	6010B	NE	NE		---	---	---	---
URANIUM	XRF	16	409		---	---	---	---
VANADIUM	6010B	5,500	140,000		---	---	---	---
ZINC	6010B	230,000	1,000,000		---	---	---	---
ZINC	XRF	230,000	1,000,000		338	302	227	272
ZIRCONIUM	XRF	NE	NE		116	153	161	120

Table 3-26
(Continued)

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	178-I01-01-01	178-I01-02-01	178-I02-01-01	178-J01-01-01
				Sample Date	8/22/2001	8/22/2001	8/22/2001	8/22/2001
ALUMINUM	6010B	780,000	1,000,000		---	---	---	---
ANTIMONY	6010B	810	8,200		---	---	---	---
ARSENIC	6010B	230	6,100		---	6.4	---	9.2
ARSENIC	XRF	230	6,100		49.95 U	39 U	77.85 U	69.9 U
BARIUM	6010B	55,000	1,000,000		---	220	---	340
BERYLLIUM	6010B	15	130		---	---	---	---
CADMIUM	6010B	390	10,000		---	3.2	---	6.8
CALCIUM	6010B	NE	NE		---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	16 B	---	110
CHROMIUM	XRF	3,900	1,000,000		915 U	2,370	1,570	2,090
COBALT	6010B	47,000	1,000,000		---	---	---	---
COBALT	XRF	47,000	1,000,000		480 U	645 U	690 U	765 U
COPPER	6010B	31,000	820,000		---	---	---	---
COPPER	XRF	31,000	820,000		165 U	180 U	2,410	224
IRON	6010B	230,000	1,000,000		---	---	---	---
IRON	XRF	230,000	1,000,000		30,592	44,493	30,285	40,294
LEAD	6010B	400	400		320	87	---	580
LEAD	XRF	400	400		388	96	175	349
MAGNESIUM	6010B	NE	NE		---	---	---	---
MANGANESE	6010B	18,000	470,000		---	---	---	---
MANGANESE	XRF	18,000	470,000		1,500 U	2,100 U	2,100 U	2,400 U
MERCURY	7471A	NE	NE		---	0.071 J	---	0.42 J
MERCURY	XRF	NE	NE		22.2 U	18.6 U	572.4	30.45 U
MOLYBDENUM	XRF	391	10,220		11.4 U	20.8	14.25 U	14.85 U
NICKEL	6010B	16,000	410,000		---	---	---	---
NICKEL	XRF	16,000	410,000		255 U	330 U	375 U	315 U
POTASSIUM	6010B	NE	NE		---	---	---	---
RUBIDIUM	XRF	NE	NE		69.6	77.4	41.9	80
SELENIUM	6010B	3,900	100,000		---	23	---	40
SILVER	6010B	3,900	100,000		---	5.6 U	---	1 J
SODIUM	6010B	NE	NE		---	---	---	---
STRONTIUM	XRF	46,924	100,000		99.6	88	55.5	85.6
THALLIUM	6010B	NE	NE		---	---	---	---
URANIUM	XRF	16	409		---	---	---	---
VANADIUM	6010B	5,500	140,000		---	---	---	---
ZINC	6010B	230,000	1,000,000		---	---	---	---
ZINC	XRF	230,000	1,000,000		870	413	1,920	625
ZIRCONIUM	XRF	NE	NE		92	99	79	91

Table 3-26
(Continued)

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	178-J01-02-01	178-J01-03-01	178-J02-01-01	178-K01-01-01
				Sample Date	8/22/2001	8/22/2001	8/22/2001	10/10/2001
ALUMINUM	6010B	780,000	1,000,000		—	—	—	—
ANTIMONY	6010B	810	8,200		—	—	—	—
ARSENIC	6010B	230	6,100		11	—	—	—
ARSENIC	XRF	230	6,100		72.3 U	49.65 U	58.35 U	46.2 U
BARIUM	6010B	55,000	1,000,000		330	—	—	—
BERYLLIUM	6010B	15	130		—	—	—	—
CADMIUM	6010B	390	10,000		9.8	—	—	—
CALCIUM	6010B	NE	NE		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		110	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,320	1,580	4,090	555 U
COBALT	6010B	47,000	1,000,000		—	—	—	—
COBALT	XRF	47,000	1,000,000		855 U	675 U	636	555 U
COPPER	6010B	31,000	820,000		—	—	—	—
COPPER	XRF	31,000	820,000		180 U	137 U	195 U	112 U
IRON	6010B	230,000	1,000,000		—	—	—	—
IRON	XRF	230,000	1,000,000		50,099	27,392	25,293	20,992
LEAD	6010B	400	400		1,100	—	—	—
LEAD	XRF	400	400		466	61	234	247
MAGNESIUM	6010B	NE	NE		—	—	—	—
MANGANESE	6010B	18,000	470,000		—	—	—	—
MANGANESE	XRF	18,000	470,000		2,700 U	2,100 U	2,120	1,290 U
MERCURY	7471A	NE	NE		0.3 J	—	—	—
MERCURY	XRF	NE	NE		27.45 U	18.75 U	26.55 U	19.35 U
MOLYBDENUM	XRF	391	10,220		14.25 U	15.15 U	23.3	—
NICKEL	6010B	16,000	410,000		—	—	—	—
NICKEL	XRF	16,000	410,000		345 U	362	437	270 U
POTASSIUM	6010B	NE	NE		—	—	—	—
RUBIDIUM	XRF	NE	NE		81.9	77.3	95.8	80.7 U
SELENIUM	6010B	3,900	100,000		180	—	—	—
SILVER	6010B	3,900	100,000		28 U	—	—	—
SODIUM	6010B	NE	NE		—	—	—	—
STRONTIUM	XRF	46,924	100,000		80.9	70.4	94.7	77.3
THALLIUM	6010B	NE	NE		—	—	—	—
URANIUM	XRF	16	409		—	—	—	29.85 U
VANADIUM	6010B	5,500	140,000		—	—	—	—
ZINC	6010B	230,000	1,000,000		—	—	—	—
ZINC	XRF	230,000	1,000,000		645	126	345	319
ZIRCONIUM	XRF	NE	NE		88	85	113	137

Table 3-26
(Continued)

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	178-K02-01-01	178-L01-01-01	178-L02-01-01	178-M01-01-01	178-M02-01-01
				Sample Date	10/9/2001	10/10/2001	10/9/2001	10/9/2001	10/10/2001
ALUMINUM	6010B	780,000	1,000,000		---	9,400	---	---	---
ANTIMONY	6010B	810	8,200		---	6.4 U	---	---	---
ARSENIC	6010B	230	6,100		---	5.6 J	---	---	---
ARSENIC	XRF	230	6,100		30.3 U	36.6 U	27.75 U	22.8 U	40.35 U
BARIUM	6010B	55,000	1,000,000		---	130	---	---	---
BERYLLIUM	6010B	15	130		---	0.64	---	---	---
CADMIUM	6010B	390	10,000		---	2.5	---	---	---
CALCIUM	6010B	NE	NE		---	32,000	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	12	---	---	---
CHROMIUM	XRF	3,900	1,000,000		618	405 U	480 U	345 U	405 U
COBALT	6010B	47,000	1,000,000		---	7	---	---	---
COBALT	XRF	47,000	1,000,000		270 U	405 U	326	165 U	390 U
COPPER	6010B	31,000	820,000		---	22	---	---	---
COPPER	XRF	31,000	820,000		89 U	101 U	79 U	70 U	92 U
IRON	6010B	230,000	1,000,000		---	16,000	---	---	---
IRON	XRF	230,000	1,000,000		11,898	9,299	10,298	5,840	10,694
LEAD	6010B	400	400		---	110	---	---	---
LEAD	XRF	400	400		117	96	80	98	156
MAGNESIUM	6010B	NE	NE		---	15,000	---	---	---
MANGANESE	6010B	18,000	470,000		---	480	---	---	---
MANGANESE	XRF	18,000	470,000		840 U	930 U	780 U	525 U	930 U
MERCURY	7471A	NE	NE		---	0.33 J	---	---	---
MERCURY	XRF	NE	NE		14.7 U	15.6 U	13.05 U	10.2 U	16.5 U
MOLYBDENUM	XRF	391	10,220		9.9 U	---	11.3	7.8 U	---
NICKEL	6010B	16,000	410,000		---	16	---	---	---
NICKEL	XRF	16,000	410,000		145 U	225 U	133 U	100 U	210 U
POTASSIUM	6010B	NE	NE		---	2,000	---	---	---
RUBIDIUM	XRF	NE	NE		52.5	77.7 U	58.3	29.2	76.05 U
SELENIUM	6010B	3,900	100,000		---	6.4 U	---	---	---
SILVER	6010B	3,900	100,000		---	6.4 U	---	---	---
SODIUM	6010B	NE	NE		---	170 B	---	---	---
STRONTIUM	XRF	46,924	100,000		61.2	43.3	64	50.2	86.2
THALLIUM	6010B	NE	NE		---	6.4 U	---	---	---
URANIUM	XRF	16	409		---	29.1 U	---	---	27.9 U
VANADIUM	6010B	5,500	140,000		---	25	---	---	---
ZINC	6010B	230,000	1,000,000		---	160	---	---	---
ZINC	XRF	230,000	1,000,000		141	135	179	128	148
ZIRCONIUM	XRF	NE	NE		137	100	122	99	136

Table 3-26
(Continued)

Soil Sampling Analytical Results for Site 178
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Sample ID		178-N01-01-01	178-N02-01-01	178-O01-01-01	178-O01-01-01 DP	178-O02-01-01
		Sample Date		10/10/2001	10/9/2001	10/10/2001	10/10/2001	10/9/2001
		Res Action Level	I/C Action Level					
ALUMINUM	6010B	780,000	1,000,000	10,000 J	--	13,000	12,000 J	--
ANTIMONY	6010B	810	8,200	6.6 UJ	--	29 U	5.9 UJ	--
ARSENIC	6010B	230	6,100	5.9 J	--	29 U	7.6	--
ARSENIC	XRF	230	6,100	43.95 U	29.25 U	51 U	--	35.4 U
BARIUM	6010B	55,000	1,000,000	240 J	--	430	310 J	--
BERYLLIUM	6010B	15	130	1.1	--	1.7 J	1.1	--
CADMIUM	6010B	390	10,000	6.1	--	9.2	8.6	--
CALCIUM	6010B	NE	NE	19,000 J	--	70,000	33,000 J	--
CHROMIUM	6010B	3,900	1,000,000	25	--	170	78	--
CHROMIUM	XRF	3,900	1,000,000	510 U	465 U	615 U	--	555 U
COBALT	6010B	47,000	1,000,000	10	--	9	7	--
COBALT	XRF	47,000	1,000,000	510 U	240 U	884	--	270 U
COPPER	6010B	31,000	820,000	66 J	--	140	77	--
COPPER	XRF	31,000	820,000	110 U	84 U	134 U	--	96 U
IRON	6010B	230,000	1,000,000	24,000 J	--	60,000	44,000 J	--
IRON	XRF	230,000	1,000,000	16,794	7,968	19,098	--	11,296
LEAD	6010B	400	400	370	--	450	380 J	--
LEAD	XRF	400	400	204	103	258	--	170
MAGNESIUM	6010B	NE	NE	5,200 J	--	9,200	4,400 J	--
MANGANESE	6010B	18,000	470,000	400 J	--	5,000	1,400 J	--
MANGANESE	XRF	18,000	470,000	1,460	750 U	2,170	--	900 U
MERCURY	7471A	NE	NE	0.3 J	--	0.66	0.65	--
MERCURY	XRF	NE	NE	18.45 U	13.5 U	21.75 U	--	15.45 U
MOLYBDENUM	XRF	391	10,220	--	9.9 U	--	--	10.35 U
NICKEL	6010B	16,000	410,000	35	--	27	22	--
NICKEL	XRF	16,000	410,000	255 U	134 U	300 U	--	150 U
POTASSIUM	6010B	NE	NE	1,800 J	--	2,200	1,900 J	--
RUBIDIUM	XRF	NE	NE	80.25 U	43.6	87.15 U	--	74.6
SELENIUM	6010B	3,900	100,000	6.6 U	--	29 U	5.9 U	--
SILVER	6010B	3,900	100,000	6.6 U	--	29 U	5.9 U	--
SODIUM	6010B	NE	NE	130 U	--	470 B	240 U	--
STRONTIUM	XRF	46,924	100,000	64.5	59	76.7	--	67.3
THALLIUM	6010B	NE	NE	6.6 U	--	29 U	5.9 U	--
URANIUM	XRF	16	409	29.7 U	--	32.1 U	--	--
VANADIUM	6010B	5,500	140,000	27	--	330	180	--
ZINC	6010B	230,000	1,000,000	530 J	--	1200	520 J	--
ZINC	XRF	230,000	1,000,000	295	154	435	--	228
ZIRCONIUM	XRF	NE	NE	145	109	81	--	100

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
B- Constituent detected in blank
E- Exceeded calibration range
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-27

Extent of Lead Contaminated Soil Calculations for Site 178
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
178	178-1	178-A01 178-A03 178-A05 178-A07 178-A09	6 6 6 6 0	4.8	0.144	446	535	77
	178-2	178-C02	12	12	0.36	283	340	122
	178-3	178-F02	6	6	0.18	89	107	19
	178-4	178-J01 178-O01	12 6	9	0.27	661	793	214
							SITE 178 TOTAL=	**433**

[1]- See Figure 3-11
m^2 - Square meters
yd^2- Square Yards
yd^3- Cubic Yards

Table 3-28

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	185-A01-01-01	185-A02-01-01	185-A03-01-01	185-A04-01-01	185-A04-02-01
				Sample Date	8/16/2001	8/16/2001	8/16/2001	8/16/2001	8/16/2001
ARSENIC	6010B	230	6,100		—	—	—	17	16
ARSENIC	XRF	230	6,100		89.1 U	56.55 U	61.95 U	64.95 U	100.9
BARIUM	6010B	55,000	1,000,000		—	—	—	420	210
CADMIUM	6010B	390	10,000		—	—	—	10	5
CHROMIUM	6010B	3,900	1,000,000		—	—	—	35	13
CHROMIUM	XRF	3,900	1,000,000		2,880	750 U	990 U	420 U	765 U
COBALT	XRF	47,000	1,000,000		645 U	900 U	1,170 U	585 U	1,270
COPPER	XRF	31,000	820,000		5,158	330 U	375 U	165 U	678
IRON	XRF	230,000	1,000,000		19,994	8,397	12,595	26,675	84,275
LEAD	6010B	400	400		—	—	—	**1,500**	**650**
LEAD	XRF	400	400		60.45 U	133	103	**454**	**791**
MANGANESE	XRF	18,000	470,000		2,100 U	5,698 U	7,646 U	1,800 U	3,449 U
MERCURY	7471A	NE	NE		—	—	—	0.74 U	1.9
MERCURY	XRF	NE	NE		1,230	40.95 U	46.5 U	24.6 U	35.85 U
MOLYBDENUM	XRF	391	10,220		15.45 U	11.25 U	12.6 U	13.2 U	14.7 U
NICKEL	XRF	16,000	410,000		510 U	420 U	495 U	255 U	450 U
RUBIDIUM	XRF	NE	NE		43.35 U	38.25 U	43.7	51.2	102.1
SELENIUM	6010B	3,900	100,000		—	—	—	6.1 J	7.6 J
SILVER	6010B	3,900	100,000		—	—	—	1 J	11 U
STRONTIUM	XRF	46,924	100,000		114.5	138.8	107.6	74.7	147.1
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		3,658	718	791	1,000	596
ZIRCONIUM	XRF	NE	NE		15.15 U	12 U	12.45 U	116	50.1

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	185-A04-03-01 8/16/2001	185-A04-04-01 8/16/2001	185-A05-01-01 8/16/2001	185-A06-01-01 8/16/2001	185-B01-01-01 8/16/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		89.4 U	91.2 U	97.8 U	50.25 U	69.6 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		900 U	1,130	1,410	825 U	2,229
COBALT	XRF	47,000	1,000,000		1,669	2,970	1,180	1,470	855 U
COPPER	XRF	31,000	820,000		609	2,389	6,867	255 U	210 U
IRON	XRF	230,000	1,000,000		107,930	134,963	19,994	10,496	28,186
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		**670**	259	62 U	58 U	76 U
MANGANESE	XRF	18,000	470,000		4,200 U	8,160	2,100 U	6,446 U	2,700 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		33.45 U	456	1,650	36 U	30.6 U
MOLYBDENUM	XRF	391	10,220		16.3	18.3	16.2 U	12.45 U	21 U
NICKEL	XRF	16,000	410,000		525 U	645 U	555 U	405 U	609.6
RUBIDIUM	XRF	NE	NE		63	81.6	37.8 U	57.3	69.5
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		154.7	118.6	17.55 U	86.9	70.9
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		751	1,920	4,499	217	323
ZIRCONIUM	XRF	NE	NE		66.5	58.7	100	149.1	46.9

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	185-B02-01-01	185-C01-01-01	185-C02-01-01	185-D01-01-01	185-D01-01-02
				Sample Date	8/16/2001	8/16/2001	8/16/2001	8/16/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	—	—	—	24
ARSENIC	XRF	230	6,100		56.4 U	44.25 U	57.3 U	210 U	—
BARIUM	6010B	55,000	1,000,000		—	—	—	—	240
CADMIUM	6010B	390	10,000		—	—	—	—	11 J
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	18
CHROMIUM	XRF	3,900	1,000,000		744	850	990 U	1,330	—
COBALT	XRF	47,000	1,000,000		600 U	525 U	1,140 U	3,530	—
COPPER	XRF	31,000	820,000		145 U	126 U	285 U	26,394	—
IRON	XRF	230,000	1,000,000		26,496	19,699	15,398	50,790	—
LEAD	6010B	400	400		**580**	—	170	390	**480 J**
LEAD	XRF	400	400		259	72	178	109 U	—
MANGANESE	XRF	18,000	470,000		1,950 U	1,770	7,498 U	3,600 U	—
MERCURY	7471A	NE	NE		—	—	—	—	0.64
MERCURY	XRF	NE	NE		23.25 U	19.35 U	39.15 U	6,099	—
MOLYBDENUM	XRF	391	10,220		13.2 U	12.9 U	11.85 U	20.1 U	—
NICKEL	XRF	16,000	410,000		255 U	234.8	450 U	1155 U	—
RUBIDIUM	XRF	NE	NE		60	50.5	70.5	58.35 U	—
SELENIUM	6010B	3,900	100,000		—	—	—	—	5.9 UJ
SILVER	6010B	3,900	100,000		—	—	—	—	1 J
STRONTIUM	XRF	46,924	100,000		91.3	119.2	100	25.95 U	—
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		588	328	311	16,589	—
ZIRCONIUM	XRF	NE	NE		89.3	103.1	102.6	104.9	—

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	185-D01-02-01 10/9/2001	185-D02-01-01 8/16/2001	185-D02-02-01 10/9/2001	185-D03-01-01 8/16/2001	185-D03-02-01 10/9/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		45.45 U	99.15 U	31.35 U	165 U	37.8 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		435 U	2,520	555 U	2,640	465 U
COBALT	XRF	47,000	1,000,000		435 U	1,110	270 U	7,808	460
COPPER	XRF	31,000	820,000		116 U	5,187	102 U	16,294	110 U
IRON	XRF	230,000	1,000,000		13,197	27,597	10,797	25,190	12,499
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		263	70 U	122	108 U	93
MANGANESE	XRF	18,000	470,000		1,005 U	3,090	885 U	12,893 U	1,050 U
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		18.9 U	1,330	15.6 U	6,490	15.75 U
MOLYBDENUM	XRF	391	10,220		---	17.1 U	9.9 U	25.8	---
NICKEL	XRF	16,000	410,000		225 U	540 U	150 U	1,500 U	240 U
RUBIDIUM	XRF	NE	NE		95.8	46.05 U	53.3	47.7 U	76.8 U
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		85.7	40.9	108.7	20.7 U	117.9
URANIUM	XRF	16	409		25.35 U	---	---	---	27.9 U
ZINC	XRF	230,000	1,000,000		520	3,530	232	8,570	240
ZIRCONIUM	XRF	NE	NE		75.6	75	97.4	104.1	91.8

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	185-D04-01-01	185-D05-01-01	185-D05-02-02	185-D06-01-01	185-D06-02-02
				Sample Date	8/16/2001	8/16/2001	10/9/2001	8/16/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		65.4 U	129.75 U	38.25 U	112.5 U	36.45 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		1,650	2,299	630 U	3,379	600 U
COBALT	XRF	47,000	1,000,000		720 U	4,480	270 U	4,010	300 U
COPPER	XRF	31,000	820,000		210 U	9,216	122 U	5,690	116 U
IRON	XRF	230,000	1,000,000		18,099	20,390	7,027	30,592	11,296
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		71 U	93 U	51 U	89 U	142
MANGANESE	XRF	18,000	470,000		2,400 U	11,846 U	945 U	14,093 U	975 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		32.4 U	3,229	19.5 U	1,590	17.25 U
MOLYBDENUM	XRF	391	10,220		21.3 U	15.9 U	12.15 U	29	10.95 U
NICKEL	XRF	16,000	410,000		621	1,230 U	180 U	1,140 U	165 U
RUBIDIUM	XRF	NE	NE		53.25 U	47.85 U	41.1 U	50.25 U	43.2
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		106.3	31.3	179.7	93.2	116.4
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		161	4,560	132	2,490	342
ZIRCONIUM	XRF	NE	NE		35.5	109.6	17.7 U	93.9	98.3

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date 185-E01-01-01 8/16/2001	185-E02-01-01 8/16/2001	185-E03-01-01 8/16/2001	185-E04-01-01 8/16/2001	185-F01-01-01 8/16/2001
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	45.9 U	48 U	52.65 U	46.95 U	39.6 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	705 U	720 U	705 U	735 U	675 U
COBALT	XRF	47,000	1,000,000	840 U	870 U	855 U	870 U	795 U
COPPER	XRF	31,000	820,000	225 U	255 U	225 U	240 U	195 U
IRON	XRF	230,000	1,000,000	9,824	10,496	9,818	10,400	10,195
LEAD	6010B	400	400	—	—	8	—	—
LEAD	XRF	400	400	56	87	234	66	65
MANGANESE	XRF	18,000	470,000	5,400 U	5,549 U	5,549 U	5,698 U	5,098 U
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	31.5 U	33.15 U	34.05 U	32.55 U	26.85 U
MOLYBDENUM	XRF	391	10,220	10.95 U	10.5 U	11.25 U	10.8 U	9.45 U
NICKEL	XRF	16,000	410,000	345 U	360 U	345 U	360 U	315 U
RUBIDIUM	XRF	NE	NE	66.5	55.2	66.2	70.9	45.6
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	105.4	108.6	97.2	111	66
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	227	500	143	327	144
ZIRCONIUM	XRF	NE	NE	129.8	79.5	176.9	105.9	71

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Sample ID		185-F02-01-01	185-G01-01-01	185-G01-01-01DP	185-G01-02-01	185-G01-02-01DP
		Sample Date		8/16/2001	8/16/2001	8/16/2001	8/16/2001	8/16/2001
		Res Action Level	I/C Action Level					
ARSENIC	6010B	230	6,100	—	—	—	—	—
ARSENIC	XRF	230	6,100	51.6 U	80.1 U	—	41.4 U	—
BARIUM	6010B	55,000	1,000,000	—	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	870 U	632	—	899	—
COBALT	XRF	47,000	1,000,000	1,110	825 U	—	621	—
COPPER	XRF	31,000	820,000	285 U	195 U	—	108 U	—
IRON	XRF	230,000	1,000,000	14,195	36,198	—	26,496	—
LEAD	6010B	400	400	140	**1,200**	**700**	400	380
LEAD	XRF	400	400	104	**426**	—	111	—
MANGANESE	XRF	18,000	470,000	6,749 U	3,318	—	1,650 U	—
MERCURY	7471A	NE	NE	—	—	—	—	—
MERCURY	XRF	NE	NE	36.3 U	31.95 U	—	16.35 U	—
MOLYBDENUM	XRF	391	10,220	12.9	16.65 U	—	11.55 U	—
NICKEL	XRF	16,000	410,000	420 U	407.2	—	280.2	—
RUBIDIUM	XRF	NE	NE	91.1	94.2	—	122.3	—
SELENIUM	6010B	3,900	100,000	—	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—	—
STRONTIUM	XRF	46,924	100,000	83.8	74.4	—	75.4	—
URANIUM	XRF	16	409	—	—	—	—	—
ZINC	XRF	230,000	1,000,000	646	824	—	234	—
ZIRCONIUM	XRF	NE	NE	110.3	75.1	—	111.9	—

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	185-G02-01-01	185-H01-01-01	185-H02-01-01	185-H03-01-01	185-H04-01-01
				Sample Date	8/16/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		---	---	---	---	---
ARSENIC	XRF	230	6,100		49.05 U	43.65 U	50.7 U	49.8 U	58.65 U
BARIUM	6010B	55,000	1,000,000		---	---	---	---	---
CADMIUM	6010B	390	10,000		---	---	---	---	---
CHROMIUM	6010B	3,900	1,000,000		---	---	---	---	---
CHROMIUM	XRF	3,900	1,000,000		465 U	1,420	855 U	870 U	1,020 U
COBALT	XRF	47,000	1,000,000		630 U	525 U	1,005 U	1,020 U	1,185 U
COPPER	XRF	31,000	820,000		165 U	165 U	255 U	240 U	285 U
IRON	XRF	230,000	1,000,000		25,293	24,294	14,989	16,192	16,794
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		73	112	113	89	134
MANGANESE	XRF	18,000	470,000		1,950 U	1,650 U	6,749 U	6,898 U	7,949 U
MERCURY	7471A	NE	NE		---	---	---	---	---
MERCURY	XRF	NE	NE		21.3 U	19.05 U	34.2 U	32.55 U	39.9 U
MOLYBDENUM	XRF	391	10,220		14.25 U	11.55 U	11.7 U	11.25 U	12.6 U
NICKEL	XRF	16,000	410,000		270 U	358.2	390 U	390 U	450 U
RUBIDIUM	XRF	NE	NE		81	48.4	73.3	85.2	76.7
SELENIUM	6010B	3,900	100,000		---	---	---	---	---
SILVER	6010B	3,900	100,000		---	---	---	---	---
STRONTIUM	XRF	46,924	100,000		61.3	93.2	100.9	87.9	106.5
URANIUM	XRF	16	409		---	---	---	---	---
ZINC	XRF	230,000	1,000,000		548	1,090	265	250	383
ZIRCONIUM	XRF	NE	NE		80.4	62.5	172.4	97.9	92.3

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	185-H05-01-01	185-H06-01-01	185-H07-01-01	185-H08-01-01	185-H09-01-01
				Sample Date	8/17/2001	8/17/2001	8/17/2001	8/17/2001	8/17/2001
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		43.5 U	61.35 U	62.4 U	37.05 U	82.35 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		804	2,040	1,540	840	3,080
COBALT	XRF	47,000	1,000,000		540 U	900 U	1,500 U	540 U	780 U
COPPER	XRF	31,000	820,000		126 U	823	315 U	109 U	4,659
IRON	XRF	230,000	1,000,000		21,491	44,288	36,480	25,690	35,200
LEAD	6010B	400	400		—	—	230	—	—
LEAD	XRF	400	400		50 U	62 U	251	44 U	61 U
MANGANESE	XRF	18,000	470,000		1,800 U	2,849 U	10,349 U	1,650 U	2,549 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		17.7 U	200	41.85 U	14.7 U	1,140
MOLYBDENUM	XRF	391	10,220		13.8 U	16.65 U	11.85 U	12 U	16.05 U
NICKEL	XRF	16,000	410,000		240 U	405 U	540 U	225 U	495 U
RUBIDIUM	XRF	NE	NE		68.2	65.3	65.9	71.1	43.8 U
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,924	100,000		100.3	83.1	102.9	107.2	71.9
URANIUM	XRF	16	409		—	—	—	—	—
ZINC	XRF	230,000	1,000,000		158	730	399	195	3,040
ZIRCONIUM	XRF	NE	NE		103.6	70.6	80.7	106	130.7

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID Sample Date	185-I01-01-01 10/9/2001	185-I02-01-01 10/9/2001	185-J01-01-01 10/9/2001	185-J02-01-01 10/9/2001
ARSENIC	6010B	230	6,100		---	---	6.5	---
ARSENIC	XRF	230	6,100		37.35 U	42.75 U	40.8 U	31.35 U
BARIUM	6010B	55,000	1,000,000		---	---	350	---
CADMIUM	6010B	390	10,000		---	---	11 J	---
CHROMIUM	6010B	3,900	1,000,000		---	---	19	---
CHROMIUM	XRF	3,900	1,000,000		420 U	495 U	615 U	555 U
COBALT	XRF	47,000	1,000,000		405 U	495 U	300 U	285 U
COPPER	XRF	31,000	820,000		101 U	119 U	118 U	95 U
IRON	XRF	230,000	1,000,000		12,198	14,899	13,798	13,491
LEAD	6010B	400	400		---	---	**410 J**	---
LEAD	XRF	400	400		127	141	290	144
MANGANESE	XRF	18,000	470,000		975 U	1,155 U	1,005 U	900 U
MERCURY	7471A	NE	NE		---	---	0.49 J	---
MERCURY	XRF	NE	NE		16.05 U	18.15 U	18.45 U	13.95 U
MOLYBDENUM	XRF	391	10,220		---	---	10.65 U	9.75 U
NICKEL	XRF	16,000	410,000		210 U	270 U	165 U	150 U
RUBIDIUM	XRF	NE	NE		76.3	84.15 U	52.2	67.2
SELENIUM	6010B	3,900	100,000		---	---	5.9 UJ	---
SILVER	6010B	3,900	100,000		---	---	0.84 J	---
STRONTIUM	XRF	46,924	100,000		100	93.8	117.6	94.5
URANIUM	XRF	16	409		27 U	31.05 U	---	---
ZINC	XRF	230,000	1,000,000		294	344	569	270
ZIRCONIUM	XRF	NE	NE		118	127	130.7	99.7

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	185-K01-01-02	185-K02-01-01	185-L01-01-01	185-L02-01-01
				Sample Date	10/9/2001	10/9/2001	10/9/2001	10/9/2001
ARSENIC	6010B	230	6,100		—	—	6.9	—
ARSENIC	XRF	230	6,100		32.1 U	28.2 U	40.95 U	32.55 U
BARIUM	6010B	55,000	1,000,000		—	—	230	—
CADMIUM	6010B	390	10,000		—	—	8.7 J	—
CHROMIUM	6010B	3,900	1,000,000		—	—	52	—
CHROMIUM	XRF	3,900	1,000,000		600 U	480 U	615 U	375 U
COBALT	XRF	47,000	1,000,000		300 U	240 U	615 U	414
COPPER	XRF	31,000	820,000		126 U	91 U	125 U	90 U
IRON	XRF	230,000	1,000,000		16,397	10,899	26,598	10,496
LEAD	6010B	400	400		—	—	340 J	—
LEAD	XRF	400	400		164	118	169	127
MANGANESE	XRF	18,000	470,000		1,020 U	795 U	1,454 U	950
MERCURY	7471A	NE	NE		—	—	3.6	—
MERCURY	XRF	NE	NE		16.2 U	13.5 U	16.65 U	13.65 U
MOLYBDENUM	XRF	391	10,220		9.9 U	9.15 U	—	—
NICKEL	XRF	16,000	410,000		169.6	136.5 U	300 U	195 U
RUBIDIUM	XRF	NE	NE		54	63.1	78.15 U	62.7 U
SELENIUM	6010B	3,900	100,000		—	—	6.3 UJ	—
SILVER	6010B	3,900	100,000		—	—	1.6 J	—
STRONTIUM	XRF	46,924	100,000		84	68.9	74.2	49.4
URANIUM	XRF	16	409		—	—	28.8 U	23.1 U
ZINC	XRF	230,000	1,000,000		756	298	464	345
ZIRCONIUM	XRF	NE	NE		125.3	97.2	97.4	62

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	185-M01-01-01	185-M02-01-01	185-N01-01-01	185-O01-01-01
				Sample Date	4/15/2002	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		23.25 U	29.1 U	27.15 U	19.95 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		2,700 U	4,500 U	2,849 U	2,400 U
COBALT	XRF	47,000	1,000,000		214	409	138 U	117 U
COPPER	XRF	31,000	820,000		59 U	104	66 U	51 U
IRON	XRF	230,000	1,000,000		8,704	19,994	9,619	7,014
LEAD	6010B	400	400		—	—	—	—
LEAD	XRF	400	400		77	155	161	44
MANGANESE	XRF	18,000	470,000		829	4,147	819	743
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		3.3 U	4.05 U	3.75 U	3 U
MOLYBDENUM	XRF	391	10,220		10.65 U	12.9 U	10.2 U	10.35 U
NICKEL	XRF	16,000	410,000		108 U	144 U	107.1 U	93.6 U
RUBIDIUM	XRF	NE	NE		81.2	63.8	73.9	56.3
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		89.7	92.5	83.6	37.2
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		214	276	490	177
ZIRCONIUM	XRF	NE	NE		111.4	197.3	83.3	93.7

Table 3-28
(Continued)

Soil Sampling Analytical Results for Site 185
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	185-O02-01-01	185-O2-01-01DP	185-P01-01-01	185-P02-01-01
				Sample Date	4/15/2002	4/15/2002	4/15/2002	4/15/2002
ARSENIC	6010B	230	6,100		—	—	—	—
ARSENIC	XRF	230	6,100		59.1 U	—	26.55 U	36.3 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		4,500 U	—	3,000 U	4,049 U
COBALT	XRF	47,000	1,000,000		225 U	—	150 U	364
COPPER	XRF	31,000	820,000		99 U	—	94	77 U
IRON	XRF	230,000	1,000,000		18,394	—	9,997	18,189
LEAD	6010B	400	400		**2,100 J**	**820 J**	—	—
LEAD	XRF	400	400		**799**	—	101	288
MANGANESE	XRF	18,000	470,000		1,530	—	535	1,720
MERCURY	7471A	NE	NE		—	—	—	—
MERCURY	XRF	NE	NE		7.05 U	—	3.6 U	4.8 U
MOLYBDENUM	XRF	391	10,220		12.6 U	—	11.85 U	11.55 U
NICKEL	XRF	16,000	410,000		165 U	—	117.6 U	142.8 U
RUBIDIUM	XRF	NE	NE		67.7	—	93.7	80
SELENIUM	6010B	3,900	100,000		—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—
STRONTIUM	XRF	46,924	100,000		95.8	—	75.3	74.5
URANIUM	XRF	16	409		—	—	—	—
ZINC	XRF	230,000	1,000,000		800	—	232	454
ZIRCONIUM	XRF	NE	NE		48.9	—	116.8	90

XRF - X-ray fluorescence.
– - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-29

Extent of Lead Contaminated Soil Calculations for Site 185
Mississippi River Gateway Initiative
East St. Louis, Illinois

Site	Area of Contamination[1]	Sampling Location	Maximum Depth of Contamination (inches)	Average Depth (inches)	Average Depth (yards)	Area (m^2)	Area (yd^2)	Volume (yd^3)
185	185-1	185-A04	18	18	0.54	115	138	75
	185-2	185-B02	6	6	0.18	313	376	68
	185-3	185-D01	6	6	0.18	582	698	126
	185-4	185-G01	6	6	0.18	186	223	40
	185-5	185-J01	6	6	0.18	675	810	146
	185-6	185-O01	6	6	0.18	288	346	62
							SITE 185 TOTAL=	**516**

[1]- See Figure 3-12

m^2 - Square meters

yd^2- Square Yards

yd^3- Cubic Yards

Table 3-30

Soil Sampling Analytical Results for Area A
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	A-A01-01-01	A-A02-01-01	A-A03-01-01	A-A04-01-01	A-A05-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	XRF	230	6,100		34.2 U	42.5 U	54.5 U	56.9 U	45.8 U
CHROMIUM	XRF	3,900	1,000,000		4,800 U	5,098 U	5,846 U	6,149 U	6,149 U
COBALT	XRF	47,000	1,000,000		255 U	296	476	300 U	300 U
COPPER	XRF	31,000	820,000		88 U	101 U	179	147 U	113 U
IRON	XRF	230,000	1,000,000		13,094	10,496	39,475	10,598	9,958
LEAD	6010B	400	400		—	—	**650 J**	—	—
LEAD	XRF	400	400		44 U	80	**624**	148	58 U
MANGANESE	XRF	18,000	470,000		764	675 U	1,270	860	825 U
MERCURY	XRF	NE	NE		4.8 U	6.5 U	6.5 U	8.4 U	7.1 U
MOLYBDENUM	XRF	391	10,200		17.9 U	18.9 U	25.1 U	22.8	21.3 U
NICKEL	XRF	16,000	410,000		180.0 U	195 U	225 U	240 U	240 U
RUBIDIUM	XRF	NE	NE		90.1	106.9	124.0	72.5	40.4 U
STRONTIUM	XRF	46,900	100,000		65.0	71.0	77.2	56.5	45.1
ZINC	XRF	230,000	1,000,000		92.5	162.8	613.2	546.8	89.8
ZIRCONIUM	XRF	NE	NE		172.6	212.2	518.4	72.6	47.8

Table 3-30
(Continued)

Soil Sampling Analytical Results for Area A
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	A-B01-01-01	A-B02-01-01	A-C01-01-01	A-C02-01-01	A-D01-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	XRF	230	6,100		46.1 U	58.4 U	56.1 U	59.9 U	36.0 U
CHROMIUM	XRF	3,900	1,000,000		5,246 U	7,046 U	6,298 U	6,000 U	3,600 U
COBALT	XRF	47,000	1,000,000		285 U	463	300 U	464	180 U
COPPER	XRF	31,000	820,000		106 U	199	120 U	196	78 U
IRON	XRF	230,000	1,000,000		17,498	29,286	16,000	19,597	8,429
LEAD	6010B	400	400		—	**770**	—	**1,000**	—
LEAD	XRF	400	400		209	**462**	252	**546**	150
MANGANESE	XRF	18,000	470,000		750 U	5,850	2,440	4,829	610
MERCURY	XRF	NE	NE		6.2 U	7.5 U	7.7 U	7.5 U	4.8 U
MOLYBDENUM	XRF	391	10,200		14.9 U	18.3 U	19.1 U	20.3 U	—
NICKEL	XRF	16,000	410,000		210 U	225 U	225 U	195 U	138 U
RUBIDIUM	XRF	NE	NE		34.5	95.6	108.2	121.1	—
STRONTIUM	XRF	46,900	100,000		50.9	107.1	93.6	86.3	—
ZINC	XRF	230,000	1,000,000		407.6	530.8	379.8	766.8	228.4
ZIRCONIUM	XRF	NE	NE		37.1	146.0	215.0	150.5	—

Table 3-30
(Continued)

Soil Sampling Analytical Results for Area A
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	A-D02-01-01	A-E01-01-01	A-E02-01-01	A-F01-01-01	A-F02-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	XRF	230	6,100		33.2 U	46.8 U	51.5 U	53.1 U	44.9 U
CHROMIUM	XRF	3,900	1,000,000		3,600 U	5,098 U	4,949 U	5,400 U	5,469
COBALT	XRF	47,000	1,000,000		180 U	305	225 U	255 U	399
COPPER	XRF	31,000	820,000		80 U	100 U	88 U	194	99 U
IRON	XRF	230,000	1,000,000		7,725	14,195	12,698	13,696	15,091
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		95	201	343	290	163
MANGANESE	XRF	18,000	470,000		628	690 U	2,179	2,450	705 U
MERCURY	XRF	NE	NE		4.7 U	6.6 U	6.3 U	7.1 U	5.9 U
MOLYBDENUM	XRF	391	10,200		14.9 U	15.2 U	18.5 U	16.2 U	17.6 U
NICKEL	XRF	16,000	410,000		143 U	195 U	165 U	195 U	210 U
RUBIDIUM	XRF	NE	NE		80.7	64.0	86.5	103.1	99.0
STRONTIUM	XRF	46,900	100,000		44.7	43.3	86.3	100.6	78.5
ZINC	XRF	230,000	1,000,000		177.0	313.0	282.8	682.4	304.4
ZIRCONIUM	XRF	NE	NE		113.4	104.4	148.8	126.4	125.1

Table 3-30
(Continued)

Soil Sampling Analytical Results for Area A
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	A-G01-01-01	A-G02-01-01	A-H01-01-01	A-H02-01-01	A-I01-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	XRF	230	6,100		58.5 U	45.5 U	44.4 U	37.8 U	43.8 U
CHROMIUM	XRF	3,900	1,000,000		6,749 U	3,000 U	5,098 U	4,349 U	6,000 U
COBALT	XRF	47,000	1,000,000		330 U	242	240 U	401	325
COPPER	XRF	31,000	820,000		137 U	392	101 U	84 U	99 U
IRON	XRF	230,000	1,000,000		10,400	10,400	12,397	15,488	14,093
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		90	689	166	143	102
MANGANESE	XRF	18,000	470,000		945 U	1,280	764	639	2,899
MERCURY	XRF	NE	NE		8.4 U	6.2	6.3 U	5.3 U	6.2 U
MOLYBDENUM	XRF	391	10,200		21.6 U	25.8 U	27.0 U	17.3 U	16.4 U
NICKEL	XRF	16,000	410,000		240 U	120 U	195 U	165 U	210 U
RUBIDIUM	XRF	NE	NE		62.4	52.4	129.2	76.2	113.7
STRONTIUM	XRF	46,900	100,000		116.1	64.2	55.6	95.4	65.5
ZINC	XRF	230,000	1,000,000		215.2	550.4	309.2	292.0	121.5
ZIRCONIUM	XRF	NE	NE		159.6	82.8	296.8	99.0	70.4

Table 3-30
(Continued)

Soil Sampling Analytical Results for Area A
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID: A-I02-01-01 Sample Date: 4/16/2002	Sample ID: A-I03-01-01 Sample Date: 4/16/2002	Sample ID: A-I03-01-01DP Sample Date: 4/16/2002	Sample ID: A-I04-01-01 Sample Date: 4/16/2002	Sample ID: A-I05-01-01 Sample Date: 4/16/2002
ARSENIC	XRF	230	6,100	62.3 U	48.2 U	—	40.5 U	48.2 U
CHROMIUM	XRF	3,900	1,000,000	5,549 U	4,649 U	—	4,500 U	4,649 U
COBALT	XRF	47,000	1,000,000	412	488	—	210 U	270
COPPER	XRF	31,000	820,000	108 U	72 U	—	94 U	97 U
IRON	XRF	230,000	1,000,000	27,392	31,386	—	8,570	25,690
LEAD	6010B	400	400	—	**480**	**1,200**	—	—
LEAD	XRF	400	400	**776**	**618**	—	102	**523**
MANGANESE	XRF	18,000	470,000	1,560	690 U	—	585 U	690 U
MERCURY	XRF	NE	NE	7.4 U	5.7 U	—	6.0 U	5.9 U
MOLYBDENUM	XRF	391	10,200	19.5 U	15.2 U	—	11.7 U	19.1 U
NICKEL	XRF	16,000	410,000	210 U	165 U	—	180 U	180 U
RUBIDIUM	XRF	NE	NE	116.7	90.3	—	91.2	92.3
STRONTIUM	XRF	46,900	100,000	92.8	101.0	—	53.9	126.4
ZINC	XRF	230,000	1,000,000	577.2	261.0	—	198.0	823.2
ZIRCONIUM	XRF	NE	NE	189.4	108.1	—	83.4	180.1

XRF - X-ray fluorescence.
— - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-31

Soil Sampling Analytical Results for Area B
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	B-A01-01-01	B-B01-01-01	B-C01-01-01	B-D01-01-01	B-E01-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	XRF	230	6,100		41.25 U	37.05 U	32.85 U	44.55 U	29.4 U
CHROMIUM	XRF	3,900	1,000,000		5,400 U	4,200 U	4,500 U	5,400 U	3,749 U
COBALT	XRF	47,000	1,000,000		295.6	321	337.6	311	195 U
COPPER	XRF	31,000	820,000		118.2 U	125.1 U	101.1 U	127.65 U	88.8 U
IRON	XRF	230,000	1,000,000		17,894	14,989	12,698	15,795	9,984
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		131	172	55	166	63
MANGANESE	XRF	18,000	470,000		765 U	600 U	615 U	720 U	510 U
MERCURY	XRF	NE	NE		5.55 U	6.15 U	4.8 U	6.45 U	4.5 U
MOLYBDENUM	XRF	391	10,200		13.35 U	14.85 U	16.65 U	19.5 U	16.35 U
NICKEL	XRF	16,000	410,000		195 U	165 U	180 U	210 U	150 U
RUBIDIUM	XRF	NE	NE		66.1	106.2	79.8	97.6	142.9
STRONTIUM	XRF	46,900	100,000		36.9	48.1	67.5	113.9	67.4
ZINC	XRF	230,000	1,000,000		804	1,749	581	1,010	596
ZIRCONIUM	XRF	NE	NE		44.6	77.9	61.7	127.7	114.3

Table 3-31
(Continued)

Soil Sampling Analytical Results for Area B
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID: B-E02-01-01 Sample Date: 4/16/2002	Sample ID: B-F01-01-01 Sample Date: 4/16/2002	Sample ID: B-F02-01-01 Sample Date: 4/16/2002	Sample ID: B-G01-01-01 Sample Date: 4/17/2002	Sample ID: B-G02-01-01 Sample Date: 4/17/2002
ARSENIC	XRF	230	6,100	37.05 U	27 U	21.45 U	32.55 U	25.8 U
CHROMIUM	XRF	3,900	1,000,000	3,300 U	3,149 U	2,400 U	4,049 U	3,449 U
COBALT	XRF	47,000	1,000,000	236.8	164.4	132.7	195 U	165 U
COPPER	XRF	31,000	820,000	86.6	87.75 U	61.95 U	92.55 U	74.85 U
IRON	XRF	230,000	1,000,000	14,989	6,605	3,930	8,909	7,539
LEAD	6010B	400	400	**610 J**	---	---	---	---
LEAD	XRF	400	400	**418**	70	53	47	50
MANGANESE	XRF	18,000	470,000	658	405 U	320.6	792.8	769.2
MERCURY	XRF	NE	NE	4.65 U	4.5 U	3.3 U	4.8 U	3.6 U
MOLYBDENUM	XRF	391	10,200	16.35 U	9.9 U	11.85 U	20.7 U	16.05 U
NICKEL	XRF	16,000	410,000	126 U	123.6 U	91.8 U	165 U	125.7 U
RUBIDIUM	XRF	NE	NE	142.9	76.9	56.8	86.9	89.4
STRONTIUM	XRF	46,900	100,000	67.4	44.4	22.8	74.5	74.1
ZINC	XRF	230,000	1,000,000	943	785	399	380	270
ZIRCONIUM	XRF	NE	NE	114.3	68.6	37.3	134.4	114.7

Table 3-31
(Continued)

Soil Sampling Analytical Results for Area B
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Sample ID		B-H01-01-01	B-H02-01-01	B-I01-01-01	B-I02-01-01	B-J01-01-01
		Sample Date		4/17/2002	4/17/2002	4/17/2002	4/17/2002	4/16/2002
		Res Action Level	I/C Action Level					
ARSENIC	XRF	230	6,100	35.25 U	38.1 U	43.8 U	40.95 U	47.1 U
CHROMIUM	XRF	3,900	1,000,000	4,500 U	5,098 U	5,246 U	4,649 U	6,000 U
COBALT	XRF	47,000	1,000,000	210 U	270 U	255 U	225 U	446.8
COPPER	XRF	31,000	820,000	96.75 U	141.8	115.8 U	103.2 U	121.05 U
IRON	XRF	230,000	1,000,000	10,797	19,494	11,597	10,195	20,390
LEAD	6010B	400	400	---	---	---	---	---
LEAD	XRF	400	400	77	149	132	100	172
MANGANESE	XRF	18,000	470,000	827.2	1489.6	965.6	660	875.2
MERCURY	XRF	NE	NE	5.1 U	4.8 U	6.15 U	6 U	6.45 U
MOLYBDENUM	XRF	391	10,200	13.8 U	16.05 U	14.55 U	18.6 U	21.3 U
NICKEL	XRF	16,000	410,000	165 U	180 U	195 U	180 U	225 U
RUBIDIUM	XRF	NE	NE	48.7	76.2	77.8	54.1	92.3
STRONTIUM	XRF	46,900	100,000	42.2	55.6	44.8	70.2	49.4
ZINC	XRF	230,000	1,000,000	475	822	455	345	681
ZIRCONIUM	XRF	NE	NE	116.4	107.1	90.5	103.6	95.3

Table 3-31
(Continued)

Soil Sampling Analytical Results for Area B
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	B-J02-01-01	B-J03-01-01	B-J04-01-01	B-K01-01-01	B-K02-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	XRF	230	6,100		48.75 U	36.3 U	35.25 U	32.25 U	38.55 U
CHROMIUM	XRF	3,900	1,000,000		6,149 U	4,800 U	4,949 U	4,349 U	5,246 U
COBALT	XRF	47,000	1,000,000		345 U	255 U	255 U	272.4	310.2
COPPER	XRF	31,000	820,000		124.5 U	94.2 U	98.55 U	88.35 U	102.45 U
IRON	XRF	230,000	1,000,000		17,690	17,690	11,296	10,195	11,200
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		127	97	44 U	40 U	49 U
MANGANESE	XRF	18,000	470,000		900 U	690 U	660 U	585 U	720 U
MERCURY	XRF	NE	NE		7.05 U	5.25 U	5.55 U	4.8 U	5.4 U
MOLYBDENUM	XRF	391	10,200		20.85 U	18.6 U	16.05 U	17.25 U	16.05 U
NICKEL	XRF	16,000	410,000		240 U	180 U	195 U	165 U	210 U
RUBIDIUM	XRF	NE	NE		81	36.45 U	123.4	118.2	81.9
STRONTIUM	XRF	46,900	100,000		82.3	130.5	74.5	72.5	69
ZINC	XRF	230,000	1,000,000		285	343	127	220	195
ZIRCONIUM	XRF	NE	NE		224.2	25.5	136.1	114.4	94.8

Table 3-31
(Continued)

Soil Sampling Analytical Results for Area B
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	B-K03-01-01	B-K04-01-01	B-L01-01-01	B-L02-01-01
				Sample Date	4/16/2002	4/16/2002	4/16/2002	4/16/2002
ARSENIC	XRF	230	6,100		41.4 U	30.9 U	31.35 U	37.05 U
CHROMIUM	XRF	3,900	1,000,000		4,800 U	4,200 U	3,600 U	4,349 U
COBALT	XRF	47,000	1,000,000		240 U	195 U	180 U	225 U
COPPER	XRF	31,000	820,000		103.05 U	82.8 U	100.2 U	110.55 U
IRON	XRF	230,000	1,000,000		11,398	9,645	8,307	12,800
LEAD	6010B	400	400		---	---	---	---
LEAD	XRF	400	400		111	44	105	121
MANGANESE	XRF	18,000	470,000		675 U	555 U	703.6	600 U
MERCURY	XRF	NE	NE		5.7 U	4.5 U	4.95 U	5.1 U
MOLYBDENUM	XRF	391	10,200		20.4 U	18 U	9.6 U	13.05 U
NICKEL	XRF	16,000	410,000		195 U	165 U	139.8 U	165 U
RUBIDIUM	XRF	NE	NE		101.9	79.2	33.2	49
STRONTIUM	XRF	46,900	100,000		70.8	60.3	10.5	28.9
ZINC	XRF	230,000	1,000,000		294	212	874	889
ZIRCONIUM	XRF	NE	NE		91.4	60.1	24.2	84.7

Table 3-31
(Continued)

Soil Sampling Analytical Results for Area B
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Sample ID		B-L03-01-01	B-L04-01-01	B-M01-01-01	B-M02-01-01
		Sample Date		4/16/2002	4/16/2002	4/16/2002	4/16/2002
		Res Action Level	I/C Action Level				
ARSENIC	XRF	230	6,100	30.9 U	41.55 U	39.45 U	58.5 U
CHROMIUM	XRF	3,900	1,000,000	4,049 U	4,800 U	5,246 U	6,600 U
COBALT	XRF	47,000	1,000,000	195 U	210 U	496.4	330 U
COPPER	XRF	31,000	820,000	84.15 U	141.15 U	106.65 U	148.9
IRON	XRF	230,000	1,000,000	9,568	5,690	14,989	19,994
LEAD	6010B	400	400	---	---	---	---
LEAD	XRF	400	400	41	60	47 U	308
MANGANESE	XRF	18,000	470,000	540 U	570 U	705 U	2979.2
MERCURY	XRF	NE	NE	4.95 U	7.2 U	5.7 U	7.65 U
MOLYBDENUM	XRF	391	10,200	15.9 U	16.5 U	13.95 U	20.25 U
NICKEL	XRF	16,000	410,000	150 U	410.4	210 U	240 U
RUBIDIUM	XRF	NE	NE	84.3	60.7	93	94.6
STRONTIUM	XRF	46,900	100,000	56	51.1	110.5	83.3
ZINC	XRF	230,000	1,000,000	311	738	276	641
ZIRCONIUM	XRF	NE	NE	163.9	178.9	141	206.2

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-32

Soil Sampling Analytical Results for Area C
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	C-A01-01-01	C-A02-01-01	C-A03-01-01	C-A04-01-01	C-B01-01-01
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	XRF	230	6,100		63.3 U	34.95 U	35.7 U	41.1 U	39.6 U
CHROMIUM	XRF	3,900	1,000,000		7,800 U	4,800 U	4,949 U	5,698 U	3,900 U
COBALT	XRF	47,000	1,000,000		420 U	260.2	265	285 U	265.8
COPPER	XRF	31,000	820,000		121.8 U	87.15 U	86.4 U	105.75 U	82.5
IRON	XRF	230,000	1,000,000		32,000	11,494	13,197	12,698	16,896
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		315.4	45.8	67.4	50.85 U	361.8
MANGANESE	XRF	18,000	470,000		1,739	970	1,450	837	1,680
MERCURY	XRF	NE	NE		7.8 U	4.5 U	4.8 U	6 U	4.95 U
MOLYBDENUM	XRF	391	10,200		14.85 U	18.9 U	17.4 U	16.8 U	17.55 U
NICKEL	XRF	16,000	410,000		270 U	180 U	180 U	210 U	139.2 U
RUBIDIUM	XRF	NE	NE		60	97.1	123.3	98.3	88
STRONTIUM	XRF	46,900	100,000		36.3	40	84	69.7	45.7
ZINC	XRF	230,000	1,000,000		265.8	95.9	197.7	148.2	394.8
ZIRCONIUM	XRF	NE	NE		117.3	69.9	148.8	150.2	92.1

Table 3-32
(Continued)

Soil Sampling Analytical Results for Area C
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	C-B02-01-01 4/17/2002	C-C01-01-01 4/17/2002	C-C02-01-01 4/17/2002	C-D01-01-01 4/17/2002	C-D02-01-01 4/17/2002
ARSENIC	XRF	230	6,100		54.9 U	52.35 U	40.05 U	40.95 U	40.95 U
CHROMIUM	XRF	3,900	1,000,000		5,846 U	4,800 U	4,349 U	5,400 U	5,400 U
COBALT	XRF	47,000	1,000,000		371	225 U	225 U	240 U	240 U
COPPER	XRF	31,000	820,000		108.9 U	91.2 U	84.15 U	108.1	108.1
IRON	XRF	230,000	1,000,000		20,288	12,000	10,694	11,098	11,098
LEAD	6010B	400	400		---	---	---	---	---
LEAD	XRF	400	400		349.8	355.6	149.6	86.4	86.4
MANGANESE	XRF	18,000	470,000		2,200	1,140	1,030	3,189	3,189
MERCURY	XRF	NE	NE		6.6 U	6.45 U	5.25 U	5.7 U	5.7 U
MOLYBDENUM	XRF	391	10,200		13.6	16.95 U	17.55 U	15.6 U	20.9
NICKEL	XRF	16,000	410,000		210 U	180 U	165 U	180 U	180 U
RUBIDIUM	XRF	NE	NE		100.6	80.7	104.6	56.4	89.1
STRONTIUM	XRF	46,900	100,000		94.9	72.7	96.2	63.3	83.1
ZINC	XRF	230,000	1,000,000		442.4	236.6	105.4	175	175
ZIRCONIUM	XRF	NE	NE		179.9	122.3	190.8	152.5	117.7

Table 3-32
(Continued)

Soil Sampling Analytical Results for Area C
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	C-E01-01-01	C-E02-01-01	C-F01-01-01	C-F02-01-01	C-G01-01-01
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	XRF	230	6,100		33.75 U	41.4 U	53.1 U	44.25 U	48.6 U
CHROMIUM	XRF	3,900	1,000,000		4,349 U	5,098 U	5,698 U	5,549 U	3,149 U
COBALT	XRF	47,000	1,000,000		210 U	240 U	302.6	247	208.2
COPPER	XRF	31,000	820,000		84 U	97.95 U	113.2	139.6	63.45 U
IRON	XRF	230,000	1,000,000		8,896	9,158	15,296	13,094	9,850
LEAD	6010B	400	400		---	---	---	---	**1,200 J**
LEAD	XRF	400	400		41.85 U	94.3	310.8	191	**699**
MANGANESE	XRF	18,000	470,000		790	2,109	2,130	4,880	1,330
MERCURY	XRF	NE	NE		5.25 U	6 U	7.05 U	6.15 U	5.7 U
MOLYBDENUM	XRF	391	10,200		16.65 U	18.45 U	15.15 U	18.3 U	16.8 U
NICKEL	XRF	16,000	410,000		165 U	180 U	195 U	165 U	115.35 U
RUBIDIUM	XRF	NE	NE		102.2	76.1	40.3	104.3	90.1
STRONTIUM	XRF	46,900	100,000		66.1	82.6	24.7	105.2	95.5
ZINC	XRF	230,000	1,000,000		50.25 U	139 8	313.2	278	268.6
ZIRCONIUM	XRF	NE	NE		146.8	216.8	91.8	123.9	139.7

Table 3-32
(Continued)

Soil Sampling Analytical Results for Area C
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	C-G02-01-01	C-G03-01-01	C-H01-01-01	C-H02-01-01
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	XRF	230	6,100		36.45 U	42 U	28.95 U	28.05 U
CHROMIUM	XRF	3,900	1,000,000		2,849 U	4,500 U	4,049 U	3,300 U
COBALT	XRF	47,000	1,000,000		130.9	195 U	195 U	150 U
COPPER	XRF	31,000	820,000		55.8 U	84.6 U	76.35 U	73.2 U
IRON	XRF	230,000	1,000,000		8,237	9,965	8,320	5,549
LEAD	6010B	400	400		---	---	---	---
LEAD	XRF	400	400		**409**	189.3	38.55 U	34.2 U
MANGANESE	XRF	18,000	470,000		1,600	1,100	1,040	435 U
MERCURY	XRF	NE	NE		4.35 U	5.55 U	4.65 U	4.2 U
MOLYBDENUM	XRF	391	10,200		11.4 U	10.35 U	16.2 U	16.35 U
NICKEL	XRF	16,000	410,000		100.2 U	150 U	150 U	128.1 U
RUBIDIUM	XRF	NE	NE		94.5	86.5	85.8	78.1
STRONTIUM	XRF	46,900	100,000		64.6	62	64.5	49.6
ZINC	XRF	230,000	1,000,000		189.2	193	96.3	135.2
ZIRCONIUM	XRF	NE	NE		108.1	100.3	116.9	162.1

Table 3-32
(Continued)

Soil Sampling Analytical Results for Area C
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	C-I01-01-01	C-I02-01-01	C-J01-01-01	C-J02-01-01
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	XRF	230	6,100		41.85 U	41.1 U	24.45 U	32.1 U
CHROMIUM	XRF	3,900	1,000,000		3,449 U	3,300 U	3,000 U	4,200 U
COBALT	XRF	47,000	1,000,000		239.6	165 U	192.4	195.8
COPPER	XRF	31,000	820,000		66.45 U	65.55 U	60.15 U	81.9 U
IRON	XRF	230,000	1,000,000		12,998	10,496	6,000	7,898
LEAD	6010B	400	400		**520**	---	---	---
LEAD	XRF	400	400		**427**	**409**	32.1 U	55.3
MANGANESE	XRF	18,000	470,000		1,410	874	673	1,320
MERCURY	XRF	NE	NE		5.1 U	4.95 U	3.75 U	4.5 U
MOLYBDENUM	XRF	391	10,200		17.1 U	12 U	17.25 U	13.5 U
NICKEL	XRF	16,000	410,000		124.35 U	126.45 U	115.65 U	150 U
RUBIDIUM	XRF	NE	NE		77.4	121.6	75.1	81.4
STRONTIUM	XRF	46,900	100,000		89.4	75.4	49.7	89.4
ZINC	XRF	230,000	1,000,000		254.2	176.8	77.8	143.3
ZIRCONIUM	XRF	NE	NE		177	129.3	138.6	146.5

Table 3-32
(Continued)

Soil Sampling Analytical Results for Area C
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID / Sample Date	C-K01-01-01 4/17/2002	C-K02-01-01 4/17/2002	C-L01-01-01 4/17/2002	C-L02-01-01 4/17/2002
ARSENIC	XRF	230	6,100		43.8 U	45.3 U	27.45 U	34.65 U
CHROMIUM	XRF	3,900	1,000,000		4,349 U	5,098 U	3,300 U	4,200 U
COBALT	XRF	47,000	1,000,000		210 U	321.6	150 U	240.6
COPPER	XRF	31,000	820,000		85.2 U	104.4	63 U	82.2 U
IRON	XRF	230,000	1,000,000		11,098	31,488	8,429	7,827
LEAD	6010B	400	400		---	---	---	---
LEAD	XRF	400	400		269.2	**498**	74.9	60.5
MANGANESE	XRF	18,000	470,000		1,130	2,949	701	802
MERCURY	XRF	NE	NE		5.4 U	5.55 U	3.9 U	4.95 U
MOLYBDENUM	XRF	391	10,200		12 U	14.55 U	11.55 U	12.9 U
NICKEL	XRF	16,000	410,000		165 U	180 U	120.3 U	150 U
RUBIDIUM	XRF	NE	NE		82	70.5	83.4	69.4
STRONTIUM	XRF	46,900	100,000		93.7	59.3	80	55.9
ZINC	XRF	230,000	1,000,000		297.6	682.8	101.8	143.6
ZIRCONIUM	XRF	NE	NE		135.2	107.1	47.1	152.6

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-33

Soil Sampling Analytical Results for Area D
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Sample ID		D-A01-01-01	D-A02-01-01	D-A03-01-01	D-A04-01-01
		Sample Date		4/17/2002	4/17/2002	4/17/2002	4/17/2002
		Res Action Level	I/C Action Level				
ARSENIC	XRF	230	6,100	36.3 U	36.9 U	46.05 U	29.25 U
CHROMIUM	XRF	3,900	1,000,000	3,900.0 U	4,348.8 U	5,697.6 U	3,748.8 U
COBALT	XRF	47,000	1,000,000	309	225 U	285 U	165 U
COPPER	XRF	31,000	820,000	79.35 U	83.55 U	111.75 U	71.4 U
IRON	XRF	230,000	1,000,000	11,494	12,698	14,592	8,506
LEAD	XRF	400	400	172	147	144	73
MANGANESE	XRF	18,000	470,000	685	928	780 U	660
MERCURY	XRF	NE	NE	4.5 U	4.95 U	6.75 U	4.2 U
MOLYBDENUM	XRF	391	10,200	14.1 U	13.95 U	---	20.25 U
NICKEL	XRF	16,000	410,000	150 U	150 U	210 U	131.55 U
RUBIDIUM	XRF	NE	NE	110.8	51.4	---	65.7
STRONTIUM	XRF	46,900	100,000	36.5	46	---	48
ZINC	XRF	230,000	1,000,000	245.2	278.4	245.2	150.4
ZIRCONIUM	XRF	NE	NE	58.1	68.8	---	103.5

Table 3-33
(Continued)

Soil Sampling Analytical Results for Area D
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	D-B01-01-01	D-B02-01-01	D-C01-01-01	D-C02-01-01
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	XRF	230	6,100		16.8 U	45 U	28.35 U	36.6 U
CHROMIUM	XRF	3,900	1,000,000		1,950.0 U	5,097.6 U	3,900.0 U	4,348.8 U
COBALT	XRF	47,000	1,000,000		76.95 U	240 U	180 U	222
COPPER	XRF	31,000	820,000		46.35 U	97.2 U	68.25 U	77.85 U
IRON	XRF	230,000	1,000,000		1,909	11,296	8,928	9,786
LEAD	XRF	400	400		21 U	152	42	109
MANGANESE	XRF	18,000	470,000		308	1,010	854	1,020
MERCURY	XRF	NE	NE		2.55 U	6 U	4.05 U	5.1 U
MOLYBDENUM	XRF	391	10,200		18.15 U	13.35 U	9 U	14.4 U
NICKEL	XRF	16,000	410,000		77.1 U	180 U	137.25 U	150 U
RUBIDIUM	XRF	NE	NE		85.3	99.2	16.5	86.4
STRONTIUM	XRF	46,900	100,000		85.8	41.5	35.9	73.3
ZINC	XRF	230,000	1,000,000		125.4	189.5	92.9	109.9
ZIRCONIUM	XRF	NE	NE		98.9	63.5	10.7	105.3

Table 3-33
(Continued)

Soil Sampling Analytical Results for Area D
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Sample ID		D-D01-01-01	D-D02-01-01	D-E01-01-01	D-E02-01-01
		Sample Date		4/17/2002	4/17/2002	4/17/2002	4/17/2002
		Res Action Level	I/C Action Level				
ARSENIC	XRF	230	6,100	48.15 U	35.4 U	40.8 U	25.05 U
CHROMIUM	XRF	3,900	1,000,000	4,800.0 U	4,348.8 U	5,097.6 U	3,300.0 U
COBALT	XRF	47,000	1,000,000	255 U	319	255 U	165 U
COPPER	XRF	31,000	820,000	101.25 U	81.3 U	101.55 U	65.55 U
IRON	XRF	230,000	1,000,000	14,899	12,397	10,598	5,469
LEAD	XRF	400	400	270	144	80	34 U
MANGANESE	XRF	18,000	470,000	1,270	1,150	861	470
MERCURY	XRF	NE	NE	6.45 U	4.8 U	6.3 U	3.45 U
MOLYBDENUM	XRF	391	10,200	15.9 U	15.6 U	14.4 U	19.05 U
NICKEL	XRF	16,000	410,000	180 U	150 U	195 U	130.05 U
RUBIDIUM	XRF	NE	NE	75.3	65.3	68.9	83.5
STRONTIUM	XRF	46,900	100,000	74.4	68.8	47.3	37.9
ZINC	XRF	230,000	1,000,000	413.2	235.6	141.6	41.1 U
ZIRCONIUM	XRF	NE	NE	104.4	66.2	140.1	95.2

Table 3-33
(Continued)

Soil Sampling Analytical Results for Area D
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	D-F01-01-01	D-F02-01-01	D-G01-01-01	D-G02-01-01
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	XRF	230	6,100		30.9 U	27.45 U	29.1 U	26.7 U
CHROMIUM	XRF	3,900	1,000,000		4,048.8 U	3,300.0 U	4,048.8 U	3,900.0 U
COBALT	XRF	47,000	1,000,000		195 U	165 U	180 U	180 U
COPPER	XRF	31,000	820,000		80.1 U	62.1 U	76.35 U	73.05 U
IRON	XRF	230,000	1,000,000		7,366	6,726	8,090	7,315
LEAD	XRF	400	400		40 U	48	37 U	33 U
MANGANESE	XRF	18,000	470,000		525 U	752	621	729
MERCURY	XRF	NE	NE		4.35 U	4.2 U	4.5 U	4.2 U
MOLYBDENUM	XRF	391	10,200		13.5 U	18.3 U	16.2 U	16.65 U
NICKEL	XRF	16,000	410,000		148.35 U	125.85 U	144.9 U	139.65 U
RUBIDIUM	XRF	NE	NE		74.1	79.3	56	61
STRONTIUM	XRF	46,900	100,000		58.1	50.9	38.6	52.3
ZINC	XRF	230,000	1,000,000		47.85 U	65.7	58.1	63.8
ZIRCONIUM	XRF	NE	NE		86	197	158.6	139.7

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.

Table 3-34

Soil Sampling Analytical Results for Area E
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	E-A01-01-01	E-A02-01-01	E-B01-01-01	E-B02-01-01
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	XRF	230	6,100		44.55 U	36.15 U	39.3 U	36.9 U
CHROMIUM	XRF	3,900	1,000,000		5,846 U	4,949 U	4,649 U	4,049 U
COBALT	XRF	47,000	1,000,000		315 U	240 U	240 U	315.6
COPPER	XRF	31,000	820,000		106.65 U	91.8 U	84.45 U	78.15 U
IRON	XRF	230,000	1,000,000		18,790	10,995	14,797	11,494
LEAD	6010B	400	400		---	---	---	---
LEAD	XRF	400	400		129.1	44.25 U	107.4	167.2
MANGANESE	XRF	18,000	470,000		825 U	660 U	660 U	555 U
MERCURY	XRF	NE	NE		6 U	5.55 U	5.1 U	4.95 U
MOLYBDENUM	XRF	391	10,200		---	19.2 U	17.7 U	15.9 U
NICKEL	XRF	16,000	410,000		225 U	180 U	180 U	150 U
RUBIDIUM	XRF	NE	NE		---	124.8	100	130.1
STRONTIUM	XRF	46,900	100,000		---	68	69.1	55.7
ZINC	XRF	230,000	1,000,000		331.4	185.9	182.4	277
ZIRCONIUM	XRF	NE	NE		---	123.9	108.6	94.5

Table 3-34
(Continued)

Soil Sampling Analytical Results for Area E
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	E-C01-01-01	E-C02-01-01	E-D01-01-01	E-D02-01-01
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	XRF	230	6,100		165.3	43.5 U	26.85 U	25.95 U
CHROMIUM	XRF	3,900	1,000,000		1,950 U	5,698 U	3,449 U	3,300 U
COBALT	XRF	47,000	1,000,000		112.6	300 U	150 U	147.45 U
COPPER	XRF	31,000	820,000		46.2	104.55 U	68.4 U	65.85 U
IRON	XRF	230,000	1,000,000		4,627	15,398	5,818	4,909
LEAD	6010B	400	400		350 J	---	---	---
LEAD	XRF	400	400		**576.4**	89.2	35.1	32.25 U
MANGANESE	XRF	18,000	470,000		393.8	795 U	420 U	455.2
MERCURY	XRF	NE	NE		4.65 U	6.15 U	4.2 U	4.05 U
MOLYBDENUM	XRF	391	10,200		15 U	7.5 U	13.5 U	14.25 U
NICKEL	XRF	16,000	410,000		72.45 U	225 U	130.5 U	126.3 U
RUBIDIUM	XRF	NE	NE		47.3	39.7	100.2	49.7
STRONTIUM	XRF	46,900	100,000		35.9	6.9 U	34.8	39.7
ZINC	XRF	230,000	1,000,000		255	93.4	109.5	39.75 U
ZIRCONIUM	XRF	NE	NE		107	25.7	69.8	122.3

Table 3-34
(Continued)

Soil Sampling Analytical Results for Area E
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	E-E01-01-01	E-E02-01-01	E-F01-01-01	E-F02-01-01
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	XRF	230	6,100		33.15 U	25.35 U	33.3 U	40.05 U
CHROMIUM	XRF	3,900	1,000,000		4,349 U	3,149 U	4,500 U	4,649 U
COBALT	XRF	47,000	1,000,000		355.6	165 U	210 U	295.8
COPPER	XRF	31,000	820,000		81.6 U	62.25 U	76.95 U	90.3 U
IRON	XRF	230,000	1,000,000		11,200	7,795	10,298	10,099
LEAD	6010B	400	400		---	---	---	---
LEAD	XRF	400	400		40.35 U	37.4	68.6	149
MANGANESE	XRF	18,000	470,000		585 U	420 U	1689.6	2099.2
MERCURY	XRF	NE	NE		4.8 U	3.6 U	4.5 U	5.4 U
MOLYBDENUM	XRF	391	10,200		19.2 U	17.1 U	12.75 U	17.4 U
NICKEL	XRF	16,000	410,000		165 U	127.05 U	150 U	165 U
RUBIDIUM	XRF	NE	NE		113.5	84.7	68.2	84.2
STRONTIUM	XRF	46,900	100,000		57.8	51.3	56	55.9
ZINC	XRF	230,000	1,000,000		88.9	78.4	158.5	234.8
ZIRCONIUM	XRF	NE	NE		108.4	144.9	82.5	192.5

XRF - X-ray fluorescence.
-- - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

Table 3-35

Soil Sampling Analytical Result for Area F
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	F-A01-01-01	F-A02-01-01	F-B01-01-01	F-B02-01-01	F-C01-01-01
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	6010B	230	6,100		—	—	—	—	—
ARSENIC	XRF	230	6,100		34.8 U	35.55 U	35.55 U	44.4 U	42.75 U
BARIUM	6010B	55,000	1,000,000		—	—	—	—	—
CADMIUM	6010B	390	10,000		—	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000		—	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000		4,349 U	4,200 U	4,500 U	5,549 U	4,800 U
COBALT	XRF	47,000	1,000,000		220.4	210 U	210 U	285 U	225 U
COPPER	XRF	31,000	820,000		86.25 U	79.95 U	86.85 U	103.95 U	108.15 U
IRON	XRF	230,000	1,000,000		8,960	10,797	9,165	16,998	9,050
LEAD	6010B	400	400		—	—	—	—	—
LEAD	XRF	400	400		43.8 U	89.5	52.3	149.8	54.9
MANGANESE	XRF	18,000	470,000		570 U	555 U	585 U	780 U	630 U
MERCURY	7471A	NE	NE		—	—	—	—	—
MERCURY	XRF	NE	NE		5.1 U	4.65 U	5.7 U	5.85 U	5.85 U
MOLYBDENUM	XRF	391	10,200		19.65 U	18.9 U	10.95 U	17.7 U	13.35 U
NICKEL	XRF	16,000	410,000		165 U	150 U	165 U	210 U	195 U
RUBIDIUM	XRF	NE	NE		106.2	116.6	74.6	77.2	49
SELENIUM	6010B	3,900	100,000		—	—	—	—	—
SILVER	6010B	3,900	100,000		—	—	—	—	—
STRONTIUM	XRF	46,900	100,000		71.1	109	63.7	78.2	67.7
ZINC	XRF	230,000	1,000,000		107.3	183.6	167.7	272.4	222.6
ZIRCONIUM	XRF	NE	NE		144.4	270.6	69.8	143.7	49

Table 3-35
(Continued)

Soil Sampling Analytical Result for Area F
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID: F-C02-01-01 Sample Date: 4/17/2002	F-D01-01-01 4/17/2002	F-D02-01-01 4/17/2002	F-E01-01-01 4/17/2002
ARSENIC	6010B	230	6,100	—	—	—	—
ARSENIC	XRF	230	6,100	36.3 U	29.55 U	33.6 U	25.8 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	4,349 U	3,449 U	4,649 U	3,449 U
COBALT	XRF	47,000	1,000,000	247.6	150 U	240 U	223
COPPER	XRF	31,000	820,000	96.75 U	70.2 U	90.6 U	67.95 U
IRON	XRF	230,000	1,000,000	12,595	5,050	13,299	8,275
LEAD	6010B	400	400	—	—	—	—
LEAD	XRF	400	400	137.5	36.9 U	43.5 U	32.55 U
MANGANESE	XRF	18,000	470,000	585 U	435 U	645 U	465 U
MERCURY	7471A	NE	NE	—	—	—	—
MERCURY	XRF	NE	NE	5.25 U	4.5 U	5.1 U	3.75 U
MOLYBDENUM	XRF	391	10,200	16.8 U	19.95 U	15 U	17.1 U
NICKEL	XRF	16,000	410,000	165 U	133.05 U	180 U	133.35 U
RUBIDIUM	XRF	NE	NE	100.6	64.9	81.1	111.2
SELENIUM	6010B	3,900	100,000	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—
STRONTIUM	XRF	46,900	100,000	108.7	45.7	101.8	101.9
ZINC	XRF	230,000	1,000,000	624.8	53.8	200.2	93.9
ZIRCONIUM	XRF	NE	NE	180.8	81.7	65.7	138

Table 3-35
(Continued)

Soil Sampling Analytical Result for Area F
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	I/C Action Level	Sample ID	F-E02-01-01	F-F01-01-01	F-F02-01-01	F-F02-01-02
				Sample Date	4/17/2002	4/17/2002	4/17/2002	4/17/2002
ARSENIC	6010B	230	6,100		—	—	5.7 U	—
ARSENIC	XRF	230	6,100		33 U	32.7 U	79.65 U	55.05 U
BARIUM	6010B	55,000	1,000,000		—	—	70	—
CADMIUM	6010B	390	10,000		—	—	1.9	—
CHROMIUM	6010B	3,900	1,000,000		—	—	5.7 U	—
CHROMIUM	XRF	3,900	1,000,000		4,349 U	4,049 U	4,349 U	4,949 U
COBALT	XRF	47,000	1,000,000		225 U	195 U	300.4	332
COPPER	XRF	31,000	820,000		84.9 U	76.35 U	109.8 U	148
IRON	XRF	230,000	1,000,000		11,098	9,856	16,000	30,490
LEAD	6010B	400	400		—	—	200	—
LEAD	XRF	400	400		41.4 U	93.3	**1,410**	**882**
MANGANESE	XRF	18,000	470,000		615 U	540 U	600 U	3,370
MERCURY	7471A	NE	NE		—	—	0.6 U	—
MERCURY	XRF	NE	NE		4.65 U	4.65 U	8.55 U	8.1
MOLYBDENUM	XRF	391	10,200		13.95 U	17.1 U	77.25 U	41.85 U
NICKEL	XRF	16,000	410,000		165 U	149.25 U	180 U	165 U
RUBIDIUM	XRF	NE	NE		87.7	128.9	210 U	67.5 U
SELENIUM	6010B	3,900	100,000		—	—	5.7 U	—
SILVER	6010B	3,900	100,000		—	—	5.7 U	—
STRONTIUM	XRF	46,900	100,000		39.1	97	89.55 U	35.85 U
ZINC	XRF	230,000	1,000,000		84.6	146.1	1,000	734.4
ZIRCONIUM	XRF	NE	NE		83.5	161	129.1	85.6

Table 3-35
(Continued)

Soil Sampling Analytical Result for Area F
Inorganic Chemicals
Mississippi River Gateway Initiative
East St. Louis, Illinois
(mg/kg)

Constituent	Analytical Method	Res Action Level	Sample ID / Sample Date / I/C Action Level	F-G01-01-01 4/17/2002	F-G02-01-01 4/17/2002	F-G03-01-01 4/17/2002	F-G04-01-01 4/17/2002
ARSENIC	6010B	230	6,100	—	—	—	—
ARSENIC	XRF	230	6,100	37.2 U	34.65 U	36.75 U	44.85 U
BARIUM	6010B	55,000	1,000,000	—	—	—	—
CADMIUM	6010B	390	10,000	—	—	—	—
CHROMIUM	6010B	3,900	1,000,000	—	—	—	—
CHROMIUM	XRF	3,900	1,000,000	5,098 U	4,500 U	4,349 U	5,246 U
COBALT	XRF	47,000	1,000,000	296.8	210 U	210 U	302.2
COPPER	XRF	31,000	820,000	89.85 U	86.25 U	85.65 U	101.1 U
IRON	XRF	230,000	1,000,000	15,898	9,408	10,797	12,397
LEAD	6010B	400	400	—	—	—	—
LEAD	XRF	400	400	97.7	63.6	103	166.6
MANGANESE	XRF	18,000	470,000	690 U	585 U	585 U	1,989
MERCURY	7471A	NE	NE	—	—	—	—
MERCURY	XRF	NE	NE	4.95 U	4.95 U	4.65 U	6.15 U
MOLYBDENUM	XRF	391	10,200	15.9 U	17.25 U	17.55 U	25.1
NICKEL	XRF	16,000	410,000	195 U	165 U	165 U	180 U
RUBIDIUM	XRF	NE	NE	95.8	98.7	105.5	108
SELENIUM	6010B	3,900	100,000	—	—	—	—
SILVER	6010B	3,900	100,000	—	—	—	—
STRONTIUM	XRF	46,900	100,000	71.1	137.9	122.4	104.8
ZINC	XRF	230,000	1,000,000	125.1	136.6	155.6	266.4
ZIRCONIUM	XRF	NE	NE	132.8	167.7	119	158

XRF - X-ray fluorescence.
— - Not analyzed.
U- Constituent not detected. Detection limit indicated.
J- Estimated value.
NE- Not Established.
I/C- Industrial/ Commercial property.
Res- Residential property.
(shaded)- Residential the Action Level Exceedances
BOLD - Industrial/ Commercial the Action Level Exceedances

APPENDIX A

LABORATORY ANALYTICAL REPORTS

Gateway Initiative
28688

Sample ID	Lab ID	Date Collected	Analysis
SS157-H01-01-01	19242	8/23/01	Total Lead
SS157-G01-01-01	19243	8/23/01	Total Lead
SS157-G03-01-01MSD	19244	8/23/01	Total Lead
SS157-E01-01-01	19245	8/23/01	Total Lead
SS157-E01-01-01DP	19246	8/23/01	Total Lead
SS157-E01-02-01	19247	8/23/01	Total Lead
SS157-F02-01-01	19248	8/23/01	Total Lead
SS143-B02-01-01	19249	8/23/01	Total Lead
SS143-C01-01-01	19250	8/23/01	Total Lead
SS143-C01-02-01	19251	8/23/01	Total Lead
SS143-F01-01-01	19252	8/23/01	Total Lead
SS143-F01-021-01	19253	8/23/01	Total Lead
SS143-D02-01-01	19254	8/23/01	RCRA Metals
SS143-E01-01-01	19255	8/23/01	Total Lead
SS143-E01-01-01DP	19256	8/23/01	Total Lead
SS143-K01-01-01	19257	8/23/01	Total Lead
SS143-K01-02-01	19258	8/23/01	Total Lead
SS143-K01-02-01DP	19259	8/23/01	Total Lead
SS143-G02-01-01	19260	8/23/01	Total Lead
SS143-L01-01-01	19261	8/23/01	Total Lead
SS143-L01-02-01	19262	8/23/01	Total Lead
SS143-J02-01-01	19263	8/23/01	Total Lead
SS143-I02-01-01MSD	19264	8/23/01	Total Lead
SS143-H02-01-01	19265	8/23/01	Total Lead
SS143-H02-02-01	19266	8/23/01	Total Lead
SS173-D02-01-01	19267	8/24/01	Total Lead
SS173-A08-01-01	19268	8/24/01	RCRA Metals, VOC, SVOC, Pest/PCB
SS173-A08-02-01	19269	8/24/01	Total Lead
SS173-B01-01-01	19270	8/24/01	Total Lead
SS173-B01-02-01MSD	19271	8/24/01	Total Lead
SS173-C02-01-01	19272	8/24/01	Total Lead
SS173-G01-01-01	19273	8/24/01	Total Lead
SS173-G01-02-01	19274	8/24/01	Total Lead
SS173-F02-01-01	19275	8/24/01	Total Lead
SS173-E01-01-01	19276	8/24/01	Total Lead

General

For the most part, batch QC was used by the laboratory. This often means the QC was used from other sampling or from some other site. Therefore, qualification can not be applied to this data. This is noted below. In addition, soil samples are reported on a dry weight basis.

Volatiles

1. Holding Time
Sample SS173-A08-01-01 was not preserved within the required holding time. This sample is flagged as estimated J/UJ. All other samples were analyzed within the required holding time.

2. Blanks
The following compound was found in the method blank: cis–1,2-dichloroethene(3.4 ug/kg). Cis–1,2-dichloroethene results less than ten times the blank results are qualified as nondetect U.

3. Surrogate Recovery
All surrogate recoveries were within the required holding times except the MS/MSD samples. No qualification is required.

4. Matrix Spike
The MSD for toluene (140,152) was outside control limits. Toluene is flagged J/UJ in the unspiked sample.

5. Laboratory Control Sample
The LCS recoveries were within the required control limits.

6. Internal Standards
According to the laboratory narrative, the following samples had one or more internal standards outside control limits: SS173-A08-01-01. No internal standard information was supplied with the data package. The narrative states that no results were affected.

Semivolatiles

1. Holding Times
All samples were extracted and analyzed within the required holding times.

2. Blanks
The blank was free of contamination.

3. Surrogate Recovery
The following sample had surrogate recoveries that were diluted out due to sample dilution: SS173-A08-01-01. Therefore, no qualification can be assessed based on surrogate recovery.

4. Matrix Spike
Sample 19268 was used as the MS. The following recoveries were outside control limits: pentachlorophenol (45MSD), 2,4-dinitrotoluene (46RPD), and pyrene (125, 234, 61RPD). These compounds are flagged J/UJ in the unspiked sample.

5. Laboratory Control Sample
All LCS recoveries were within the required control limits.

6. Internal Standards
No internal standard information was provided with the data package. Internal standards were not discussed in the laboratory narrative. No qualification will be applied.

7. Other
All SVOA samples underwent dilutions. Therefore, all SVOC results have elevated detection limits.

Pesticide/PCBs

1. Holding Times
All samples were analyzed within the required holding times.

2. Blanks
The PCB and pesticide blanks were free of contamination.

3. Surrogate Recovery
The following pesticide and PCB sample had surrogate recoveries that were diluted out due to sample dilution: SS173-A08-01-01.

4. Matrix Spike
Sample 19268 was used as the PCB matrix spike sample. The aroclor 1260 (39,57) MS recoveries were outside control limits. Aroclor 1260 is flagged J/UJ in the unspiked sample. A MS was not conducted for the pesticide matrix.

5. Laboratory Control Sample
All PCB LCS recoveries were within required control limits. The following PCB LCS recoveries were outside control limits: endosulfan I(32), endosulfan II (41), endrin (55), and heptachlor (52). The above compounds are flagged J/UJ in all samples.

6. Other
All pesticide samples underwent dilutions. Therefore, all pesticide results have elevated detection limits.

Total Lead

1. Holding Times
All lead samples were analyzed within the required holding times.

2. Blanks
Lead blank results were acceptable.

3. Matrix Spike
No results were provided.

4. Laboratory Control Sample
No results were provided.

5. Other
The following samples underwent dilutions resulting in elevated detection limits: SS157-G02-01-01, SS157-E01-01-01, SS157-E01-01-01DP, SS143-F01-02-01, and SS173-B01-01-01.

RCRA Metals

1. Holding Times
All holding times were met.

2. Blanks
The blanks were free of contamination.

3. Matrix Spike
Two MS samples were reported: 19244 and 19264. The following recoveries associated with 19264 were outside control limits: arsenic (58, 70), barium (2, 43), cadmium (60, 74), chromium (55, 69), selenium (63), and silver (63, 75). The following recoveries associated with 19244 were outside control limits: lead (64). The above compounds are flagged J/UJ in all RCRA metal samples.

4. Laboratory Control Sample
LCS recoveries associated with these samples were within QC limits.

Data Reviewed by: T. Balla Date: 11/5/01

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31040

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston Inc.
Billing address: Same
Address: 750 E. Bunker Ct. Suite 500
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initative
Project Number: 20074.515.018.1601.00

For Laboratory Use Only

Custody Seal: Y N
Page 1 OF 4
QC Level: N 1 2 3 4
Init/Temp: NBL/2°C
Sample Condition:
AAL Lab Project # 28688

Samplers: (signature) M. Lyle Ogilvie
Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	Remarks	Accura Sample ID No. AB
GI-SS157-H01-01-01	8/23/01 08:00		X	S	Y		1	X		19242
GI-SS157-G01-01-01	08:30						1	X		43
GI-SS157-G01-03-01MSD	08:30						2	X		44
GI-SS157-E01-01-01	08:50						1	X		45
GI-SS157-E01-01-01D	08:50						1	X		46
GI-SS157-E01-02-01	08:55						1	X		47
GI-SS157-F02-01-01	09:00						1	X		48
GI-SS143-B02-01-01	09:30						1	X		49
GI-SS143-C01-01-01	10:00						1	X		50
GI-SS143-C01-02-01	10:00						1	X		51

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
M. Lyle Ogilvie	8/24/01 18:00	FED EX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FED EX	8-25-01 1000	Arnold B Knight	8-25-01 1000	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC 97-2 XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31041

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc.
Billing address: Same
Address: 750 E. Bunker Ct., Suite 500
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initative
Project Number: 20074.515.018.1601.00

For Laboratory Use Only

Custody Seal: Y N Page 2 OF 4
QC Level: N 1 2 3 4 Init/Temp: ABC/2°C
Sample Condition: AAL Lab Project # 28688

Samplers: (signature)
Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	RCRA Metals	Remarks	Accura Sample ID No. ~~AB~~ AE
GI-SS143-F01-01-01	8/23/01 10:50		X	S	Y		1	X			19252
GI-SS143-F01-02-01	10:50						1	X			53
GI-SS143-D02-01-01	11:15						1		X		54
GI-SS143-E01-01-01	10:30						1	X			55
GI-SS143-E01-01-01DP	10:30						1	X			56
GI-SS143-K01-01-01	11:35						1	X			57
GI-SS143-K01-02-01	11:40						1	X			58
GI-SS143-K01-02-01DP	11:40						1	X			59
GI-SS143-G02-01-01	12:20						1	X			60
GI-SS143-L01-01-01	14:35						1	X			61

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
	8/24/01 18:00	FED EX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FED EX	8-25-01 1000		8-25-01 1000	

Matrix: (S = ... W = ... Li = ... Ca = ...) (SL ... e) (A ... Sample ... Foods) ** = Miscel...)

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31042

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc.
Address: 750 E. Bunker Ct. Suite 500
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initiative
Project Number: 20074.515.018.1601.00

Billing address: Same
Client P.O. #

For Laboratory Use Only
Custody Seal: Y N
QC Level: N 1 2 3 4
Sample Condition:
Page ABC 23 OF 4
Init/Temp: ABC/2°C
AAL Lab Project # 28688

Samplers: (signature) M. Ogilvie
Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	RCRA Metals	VOC's	SVOC's	Pesticides	PCB's	% Solids	Remarks	Accura Sample ID No. AB AE
GI-SS143-L01-02-01	8/23/01 14:35		X	S	Y		1	X								19262
GI-SS143-I02-01-01	15:20						1	X								63
GI-SS143-I02-01-01MSD	15:25						2	X								64
GI-SS143-H02-01-01	16:20						1	X								65
GI-SS143-H02-02-01	16:22						1	X								66
GI-SS173-D02-01-01	8/24/01 08:00						1	X								67
GI-SS173-A08-01-01	10:00						6		X	X	X	X	X	X		68
GI-SS173-A08-02-01	10:10						1		X							69
GI-SS173-B01-01-01	10:35						1	X								70
GI-SS173-B01-02-01MSD	10:40						2	X								91

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
M. Ogilvie	8/24/01 18:00	FED EX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FED EX	8-25-01 1000	[illegible]	8-25-01 1000	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31043

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston Inc.
Billing address: Same
Address: 750 E. Bunker Ct. Suite 500
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initiative
Project Number: 20074.515.018.1601.00

For Laboratory Use Only

Custody Seal: Y N
Page 4 OF 4
QC Level: N 1 2 3 4
Init/Temp: ABC/2°C
Sample Condition:
AAL Lab Project # 28688

Samplers: (signature) [signature]
Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS Total Lead									Remarks	Accura Sample ID No. ~~AB~~ AC
GI-SS173-C02-01-01	8/24/01 10:20		X	S	Y		1	X										19272
GI-SS173-G01-01-01	10:50						1	X										73
GI-SS173-G01-02-01	10:55						1	X										74
GI-SS173-F02-01-01	10:45						1	X										75
GI-SS173-E01-01-01	11:00						1	X										76

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	8/24/01 18:00	FEO EX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FEO EX	8-25-01 1000	[signature]	8-25-01 1000	

Matrix [illegible] (S = S[illegible] = W[illegible] = Liq[illegible] = Car[illegible] (SL = [illegible]) (A = [illegible] Sample) [illegible] Foods) (M = Miscell[illegible])

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071. Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19242** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS157-H01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	84		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	240		6.0

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LABORATORY REPORT

Accura Sample ID #: AC19243 **Accura Project #:** 28688

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS157-G01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	2100		27

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LABORATORY REPORT

Accura Sample ID #: **AC19244** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS157-G01-03-01MSD**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	84		1.0

ANALYSIS: **Metals - Lead** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1700		6.0

ACCURA ANALYTICAL LABORATORY, INC.

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FL Certification # E87429 NC Certification = 483 SC Certification = 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19245** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS157-E01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1100		28

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19246** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: ***GI-SS157-E01-01-01DP***

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: **Metals - Lead** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	750		29

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification = 483 SC Certification = 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC19247 **Accura Project #:** 28688

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS157-E01-02-01**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	70		1.0

ANALYSIS: **Metals - Lead** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	860		7.1

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19248** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS157-F02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	62		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	430		8.1

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LABORATORY REPORT

Accura Sample ID #: AC19249 **Accura Project #:** 28688

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: ***GI-SS143-B02-01-01***

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	360		5.9

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LABORATORY REPORT

Accura Sample ID #: **AC19250** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-C01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext Dig Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	490		5.8

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LABORATORY REPORT

Accura Sample ID #: AC19251 **Accura Project #:** 28688

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-C01-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1000		5.9

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LABORATORY REPORT

Accura Sample ID #: **AC19252** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-F01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: *08/28/2001* *Date Analyzed:* *08/29/2001* *Result Units:* %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	82		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: *09/07/2001* *Date Analyzed:* *09/08/2001* *Result Units:* *mg/kg*

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	610		6.1

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LABORATORY REPORT

Accura Sample ID #: AC19253 **Accura Project #:** 28688

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS143-F01-02-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	69		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	340		36

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LABORATORY REPORT

Accura Sample ID #: **AC19254** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-D02-01-01**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	66		1.0

ANALYSIS: **Metals - Mercury - RCRA** Method Ref: 7471A

Date Ext/Dig Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.086	J	0.76

ANALYSIS: **Metals - RCRA** Method Ref: 3050B/6010B

Date Ext Dig Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	6.0	J	7.6
Barium	140		7.6
Cadmium	2.3		0.76
Chromium	16		7.6
Lead	280		7.6
Selenium	<RL		7.6
Silver	<RL	J	7.6

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LABORATORY REPORT

Accura Sample ID #: **AC19255** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: ***GI-SS143-E01-01-01***

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	83		1.0

ANALYSIS: **Metals - Lead** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	390		6.0

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LABORATORY REPORT

Accura Sample ID #: **AC19256** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-E01-01-01DP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	76		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	460		6.6

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LABORATORY REPORT

Accura Sample ID #: AC19257 **Accura Project #:** 28688

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-K01-01-01**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	68		1.0

ANALYSIS: **Metals - Lead** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	360		7.4

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LABORATORY REPORT

Accura Sample ID #: **AC19258** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-K01-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	81		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	160		6.2

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LABORATORY REPORT

Accura Sample ID #: AC19259 **Accura Project #:** 28688

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-K01-02-01DP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	75		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	190		6.7

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LABORATORY REPORT

Accura Sample ID #: **AC19260** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix SOIL

Client Sample ID: **GI-SS143-G02-01-01**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	84		1.0

ANALYSIS: **Metals - Lead** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	430		6.0

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LABORATORY REPORT

Accura Sample ID #: AC19261 **Accura Project #:** 28688

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-L01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	770		5.7

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LABORATORY REPORT

Accura Sample ID #: **AC19262** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-L01-02-01**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	83		1.0

ANALYSIS: **Metals - Lead** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	250		6.0

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LABORATORY REPORT

Accura Sample ID #: AC19263 **Accura Project #:** 28688

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS143-J02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	81		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	410		6.2

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LABORATORY REPORT

Accura Sample ID #: **AC19264** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-I02-01-01MSD**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	72		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	130		6.9

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LABORATORY REPORT

Accura Sample ID #: AC19265 **Accura Project #:** 28688

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS143-H02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	660		5.9

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LABORATORY REPORT

Accura Sample ID #: ***AC19266*** ***Accura Project #:*** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/23/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS143-H02-02-01**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: *08/28/2001* *Date Analyzed:* *08/29/2001* Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: ***Metals - Lead*** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	470		5.4

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LABORATORY REPORT

Accura Sample ID #: AC19267 **Accura Project #:** 28688

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/24/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS173-D02-01-01**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	72		1.0

ANALYSIS: **Metals - Lead** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	220		6.9

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LABORATORY REPORT

Accura Sample ID #: AC19268 **Accura Project #:** 28688

Client: Roy F. Weston, Inc.-Illinois
Client Contact: D. BHOJWANI
Client Project Number: 20074-515-018-1601-00
Client Project Name: GATEWAY INITIATIVE
Client Sample ID: GI-SS173-A08-01-01

Date Sampled: 08/24/2001
Date Received: 08/25/2001
Date Reported: 10/03/2001
Sample Matrix: SOIL

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.57		0.55

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	11	J	5.5
Barium	450		5.5
Cadmium	9.0		0.55
Chromium	43		5.5
Lead	11000		5.5
Selenium	<RL		5.5
Silver	<RL	J	5.5

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 08/31/2001 Date Analyzed: 08/31/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		18
Aroclor-1221	<RL		37
Aroclor-1232	<RL		37
Aroclor-1242	<RL		18
Aroclor-1248	<RL		18
Aroclor-1254	<RL		18
Aroclor-1260	170	J	18

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 08/31/2001 Date Analyzed: 09/07/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		92
4,4'-DDE	<RL		92
4,4'-DDT	55	J	180

Aldrin	<RL		92
alpha-BHC	<RL		92
alpha-Endosulfan	<RL		92
beta-BHC	<RL		92
beta-Endosulfan	<RL		92
delta-BHC	<RL		92
Dieldrin	1000		92
Endosulfan sulfate	<RL		92
Endrin	<RL		92
Endrin aldehyde	<RL		92
Endrin ketone	<RL		92
gamma-BHC (Lindane)	<RL		92
Heptachlor	<RL		92
Heptachlor epoxide	<RL		92
Methoxychlor	<RL		460
Total Chlordane-Technical	<RL		920
Toxaphene	<RL		4600

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 08/31/2001 Date Analyzed: 09/06/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		7300
1,2-Dichlorobenzene	<RL		7300
1,3-Dichlorobenzene	<RL		7300
1,4-Dichlorobenzene	<RL		7300
1-Methylnaphthalene	<RL		7300
2,4,5-Trichlorophenol	<RL		7300
2,4,6-Trichlorophenol	<RL		7300
2,4-Dichlorophenol	<RL		7300
2,4-Dimethylphenol	<RL		7300
2,4-Dinitrophenol	<RL		35000
2,4-Dinitrotoluene	<RL		7300
2,6-Dinitrotoluene	<RL		7300
2-Chloronaphthalene	<RL		7300
2-Chlorophenol	<RL		7300
2-Methylnaphthalene	<RL		7300
2-Methylphenol	<RL		7300
2-Nitroaniline	<RL		15000
2-Nitrophenol	<RL		7300
3,3'-Dichlorobenzidine	<RL		7300
3,4-Methylphenol	<RL		15000
3-Nitroaniline	<RL		15000
4,6-Dinitro-2-methylphenol	<RL		15000
4-Bromophenyl phenyl ether	<RL		7300
4-Chloro-3-methylphenol	<RL		7300
4-Chloroaniline	<RL		7300
4-Chlorophenyl phenyl ether	<RL		7300
4-Nitroaniline	<RL		15000
4-Nitrophenol	<RL		15000
Acenaphthene	<RL		7300
Acenaphthylene	<RL		7300
Anthracene	<RL		7300
Benzo(a)anthracene	<RL		7300
Benzo(a)pyrene	<RL		7300
Benzo(b)fluoranthene	<RL		7300

Benzo(g,h,i)perylene	<RL		7300
Benzo(k)fluoranthene	<RL		7300
Benzoic acid	<RL		35000
Benzyl alcohol	<RL		7300
bis(2-Chloroethoxy)methane	<RL		7300
bis(2-Chloroethyl)ether	<RL		7300
bis(2-Chloroisopropyl)ether	<RL		7300
bis-2-Ethylhexylphthalate	<RL		7300
Butylbenzylphthalate	<RL		7300
Chrysene	<RL		7300
Dibenz(a,h)anthracene	<RL		7300
Dibenzofuran	<RL		7300
Diethylphthalate	<RL		7300
Dimethylphthalate	<RL		7300
Di-n-butylphthalate	<RL		7300
Di-n-octylphthalate	<RL		7300
Fluoranthene	<RL		7300
Fluorene	<RL		7300
Hexachlorobenzene	<RL		7300
Hexachlorobutadiene	<RL		7300
Hexachlorocyclopentadiene	<RL		7300
Hexachloroethane	<RL		7300
Indeno(1,2,3-cd)pyrene	<RL		7300
Isophorone	<RL		7300
Naphthalene	<RL		7300
Nitrobenzene	<RL		7300
N-Nitroso-di-n-propylamine	<RL		7300
N-Nitrosodiphenylamine	<RL		7300
Pentachlorophenol	<RL	J	15000
Phenanthrene	<RL		7300
Phenol	<RL		7300
Pyrene	<RL	J	7300

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 08/31/2001 Date Analyzed: 08/31/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL	J	4.9
1,1,2,2-Tetrachloroethane	<RL		4.9
1,1,2-Trichloroethane	<RL		4.9
1,1-Dichloroethane	<RL		4.9
1,1-Dichloroethene	<RL		4.9
1,2-Dichloroethane	<RL		4.9
1,2-Dichloropropane	<RL		4.9
2-Butanone (MEK)	19	J	50
2-Chloroethyl vinyl ether	<RL		50
2-Hexanone (MBK)	<RL		50
4-Methyl-2-pentanone (MIBK)	<RL		50
Acetone	71		50
Benzene	3.1	J	4.9
Bromodichloromethane	<RL		4.9
Bromoform	<RL		4.9
Bromomethane	<RL		4.9
Carbon disulfide	<RL		9.9
Carbon tetrachloride	<RL	J	4.9
Chlorobenzene	<RL		4.9

Chloroethane	<RL		4.9
Chloroform	<RL		4.9
Chloromethane	<RL		4.9
cis-1.2-Dichloroethene	<RL		4.9
cis-1.3-Dichloropropene	<RL		4.9
Dibromochloromethane	<RL		4.9
Ethylbenzene	0.99	J	4.9
Methylene chloride	<RL		9.9
Styrene	<RL		4.9
Tetrachloroethene	<RL		4.9
Toluene	4.2	J	4.9
trans-1.2-Dichloroethene	<RL		4.9
trans-1.3-Dichloropropene	<RL		4.9
Trichloroethene	<RL		4.9
Trichlorofluoromethane	<RL		4.9
Vinyl acetate	<RL		99
Vinyl chloride	<RL		4.9
Xylenes (Total)	2.2	J	4.9

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 08/31/2001 Date Analyzed: 08/31/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	331	Z	

ANALYSIS: X Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 08/31/2001 Date Analyzed: 09/07/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 20-151)	<RL	DO	
Tetrachloro-m-xylene (Range 11-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 08/31/2001 Date Analyzed: 08/31/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1.2-Dichloroethane-d4 (Range 60-136)	110		
4-Bromofluorobenzene (Range 75-135)	118		
Toluene-d8 (Range 83-126)	116		

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 08/31/2001 Date Analyzed: 09/06/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2.4.6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: **AC19269** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/24/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS173-A08-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.25	J	0.55

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	12	J	5.5
Barium	170		5.5
Cadmium	6.0		0.55
Chromium	8.9		5.5
Lead	1700		5.5
Selenium	<RL		5.5
Silver	<RL	J	5.5

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LABORATORY REPORT

Accura Sample ID #: AC19270 **Accura Project #:** 28688

***Client:* Roy F. Weston, Inc.-Illinois** Date Sampled: 08/24/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS173-B01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	70		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	15000		36

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LABORATORY REPORT

Accura Sample ID #: **AC19271** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/24/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS173-B01-02-01MSD**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	76		1.0

ANALYSIS: **Metals - Lead** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	140		6.6

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LABORATORY REPORT

Accura Sample ID #: AC19272 **Accura Project #:** 28688

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/24/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS173-C02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	82		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	460		6.1

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LABORATORY REPORT

Accura Sample ID #: **AC19273** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/24/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS173-G01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	68		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	4000		7.4

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LABORATORY REPORT

Accura Sample ID #: AC19274 **Accura Project #:** 28688

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/24/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS173-G01-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	76		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	160		6.6

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LABORATORY REPORT

Accura Sample ID #: **AC19275** **Accura Project #:** **28688**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/24/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS173-F02-01-01**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	69		1.0

ANALYSIS: **Metals - Lead** *Method Ref: 3050B/6010B*

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	420		7.2

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LABORATORY REPORT

Accura Sample ID #: AC19276 **Accura Project #:** 28688

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/24/2001

Client Contact: D. BHOJWANI Date Received: 08/25/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS173-E01-01-01**

ANALYSIS: **% Solids** Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	73		1.0

ANALYSIS: **Metals - Lead** Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/07/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	180		6.8

Gateway Initiative
28635

Sample ID	Lab ID	Date Collected	Analysis
SS136-E07-01-01	18814	8/16/01	Total Lead
SS136-F01-01-01	18815	8/16/01	Total Lead
SS145-E02-01-01	18816	8/16/01	Total Lead
SS145-D01-01-01	18817	8/16/01	Total Lead
SS145-D01-02-01	18818	8/16/01	Total Lead
SS145-B04-01-01	18819	8/16/01	Total Lead
SS145-C02-02-01	18820	8/16/01	Total Lead
SS145-F05-02-01	18821	8/16/01	RCRA Metals
SS145-F05-01-01	18822	8/16/01	RCRA Metals, VOC, SVOC, Pesticide, PCBs
SS185-A04-02-01	18823	8/16/01	RCRA Metals, VOC, SVOC, Pesticide, PCBs
SS185-G01-01-01	18824	8/16/01	Total Lead
SS185-G01-01-01DP	18825	8/16/01	Total Lead
SS185-G01-02-01	18826	8/16/01	Total Lead
SS185-G01-02-01DP	18827	8/16/01	Total Lead
SS185-C02-01-01	18828	8/16/01	Total Lead
SS185-E03-01-01	18829	8/16/01	Total Lead
SS185-B02-01-01	18830	8/16/01	Total Lead
SS185-A04-01-01	18831	8/16/01	RCRA Metals
SS185-D01-01-01	18832	8/16/01	Total Lead
SS185-F02-01-01	18833	8/16/01	Total Lead

General

For the most part, batch QC was used by the laboratory. This often means the QC was used from other sampling or from some other site. Therefore, qualification can not be applied to this data. This is noted below.

Volatiles

1. Holding Time

All samples were analyzed within the required holding times.

2. Blanks

The laboratory narrative states that upon routine analysis of sodium bisulfate blanks, it was determined that the preservative was contaminated with bromoform (5 to 50 ppb) and chloroform (5-10 ppb). The samples were affected by bromoform and chloroform contamination. This preservative information was not provided with the data. Therfore bromoform and chloroform results less than 50 ug/kg in the samples are flagged as nondetect U. Bromoform results between 51 and 500 are flagged as estimated J. Chloroform results between 51 and 100 are flagged as estimated J. In addition, the following compounds were found in the method blank: 2-butanone (0.57 ug/kg), and acetone (2.8 ug/kg). 2-butanone and acetone results less than ten times the blank results are qualified as nondetect U.

3. Surrogate Recovery
All surrogate recoveries were acceptable except corresponding sample SS145-F05-01-01, SS185-A04-02-01, and the MS/MSD. Positive results in the above two samples are flagged J.

4. Matrix Spike
Sample 18594 was used as the MS/MSD. This sample does not correspond to this batch of samples or samples from this project. No qualification can be applied.

5. Laboratory Control Sample
The LCS recoveries were within the required control limits.

6. Internal Standards
According to the laboratory narrative, the following samples had one or more internal standards outside control limits: SS145-F05-01-01, and SS185-A04-02-01. No internal standard information was supplied with the data package. The narrative states that bromoform in sample SS185-A04-02-01 was affected and should be qualified as estimated J. Toluene, tetrachloroethane, chlorobenzene, ethylbenzene, and xylene should be estimated J in SS145-F05-01-01.

7. Other
Sample SS145-F05-01-01 had acetone detected above the calibration range. According to the laboratory narrative, when the sample was diluted the result was below the detection limit. The result for this analyte is estimated J.

Semivolatiles

1. Holding Times
All samples were extracted and analyzed within the required holding times.

2. Blanks
The blank was free of contamination.

3. Surrogate Recovery
The following samples had surrogate recoveries that were diluted out due to sample dilution: SS145-F05-01-01, SS185-A04-02-01. Therefore, no qualification can be assessed based on surrogate recovery.

4. Matrix Spike
Sample 19116 was used as the MS. This sample was from a different batch but from this same project. The following recoveries were outside control limits: 4-chloro-methylphenol (48), 4-nitrophenol (24, 26), pentachlorophenol (20, 24), 2,4-dinitrotoluene (41, 29RPD), and pyrene (-71, -26, 28RPD). These compounds are flagged J/UJ in the unspiked sample (part of another batch).

5. Laboratory Control Sample
All LCS recoveries were within the required control limits.

6. Internal Standards
No internal standard information was provided with the data package. Internal standards were not discussed in the laboratory narrative. No qualification will be applied.

7. Other
Both SVOA samples underwent dilutions. Therefore, all SVOC results have elevated detection limits.

Pesticide/PCBs

1. Holding Times
All samples were analyzed within the required holding times.

2. Blanks
The PCB blank was free of contamination. The pesticide blank contained dieldrin at 1.3 ug/kg. Dieldrin results in the corresponding samples less than 6.5 are qualified as nondetect U. All other results were below the detection limit.

3. Surrogate Recovery
The following pesticide samples had surrogate recoveries that were diluted out due to sample dilution: SS145-F05-01-01 and SS185-A04-02-01. PCB sample SS145-F05-01-01 had surrogate recoveries outside control limits. Positive PCB results in that sample are flagged as estimated J.

4. Matrix Spike
Sample 18117 was used as the PCB matrix spike sample. Sample 18117 does not correspond to this sites samples. Sample 19107 was used as the pesticide matrix spike sample. According to the laboratory narrative, the spike and duplicate were diluted out. Therefore, no recoveries were reported.

5. Laboratory Control Sample
All pesticide and PCB LCS recoveries were within required control limits.

6. Other
All pesticed samples underwent dilutions. Therefore, all pesticide results have elevated detection limits.

Total Lead

1 Holding Times
All lead samples were analyzed within the required holding times.

2. Blanks
Lead was not an issue in the blanks

3. Matrix Spike
Sample 18540 was used as the MS. This sample does not correlate to this site (batch QC).

4. Laboratory Control Sample
The LCS recoveries were within control limits.

5. Other
The following samples underwent dilutions resulting in elevated detection limits: SS145-E02-01-01, and SS145-B04-01-01.

RCRA Metals

1. Holding Times
All samples were analyzed within the required holding times.

2. Blanks
The blanks were free of contamination.

3. Matrix Spike
One MS sample was reported: 18833. It is unclear why sample 18833 was reported as RCRA metals QC as these samples were only designated as total lead samples. MS qualification will not be applied based on this sample.

4. Laboratory Control Sample
LCS recoveries associated with these samples were within QC limits.

5. Other
The following samples underwent dilutions which resulted in elevated detection limits: SS145-F05-02-01 and SS185-A04-02-01.

Data Reviewed by: T. Balla Date: 10/30/01

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31055

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Kov f. Weston, Inc
Billing address: SAME
Address: 750 East Bunker Court, Suite 500
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwant
Contact Phone # (847) 918 4005 Fax # (847) 918 4055
Project Name: Gateway Initiative
Project Number: 20074.515.018.1601.00

For Laboratory Use Only

Custody Seal: Y N Page 1 OF 2
QC Level: N 1 2 3 4 Init/Temp: 08
Sample Condition: AAL Lab Project # 28635

Samplers: (signature)
Samplers: (printed)

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	RCRA Metals	% Solids	VOCs	SVOCs	Pesticides	PCBs	Remarks	Accura Sample ID No. ABC
GI-SS136-E07-01-01	8/16/01 8:20		X	S			1	X								18814
GI-SS136-F01-01-01	8/16/01 8:50		X	S				X								15
GI-SS145-E02-01-01	8/16/01 10:25		X	S				X								16
GI-SS145-D01-01-01	8/16/01 10:10		X	S				X								17
GI-SS145-D01-02-01	8/16/01 10:10		X	S				X								18
GI-SS145-B04-01-01	8/16/01 9:25							X								19
GI-SS145-C02-01-01	8/16/01 10:00							X								20
GI-SS145-F05-02-01	8/16/01 13:45								X							21
GI-SS145-F05-01-01	8/16/01 13:55						6		X	X	X	X	X	X		22
GI-SS185-A04-02-01	8/16/01 15:30						6		X	X	X	X	X	X		18823

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Brian Vost	8/16/01 17:15	Fedex		
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
Fedex	08/17/01 09:40	[illegible]	08/17/01 09:40	STD

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

08/17/01 BC

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31056

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc. Billing address: SAME

Address: 750 East Bunker Court, Suite 500 Client P.O. #

Report Sent to: (Client Contact): Deepak Bhojwani

Contact Phone # 847 918 4005 Fax # 847 918 4055

Project Name: Gateway Initiative

Project Number: 20074.515.018, 1601.00

For Laboratory Use Only

Custody Seal: Y N Page 2 OF 2

QC Level: N 1 2 3 4 Init/Temp: BB

Sample Condition: AAL Lab Project # 28635

Samplers: (signature)

Samplers: (printed)

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	ANALYSIS: RCRA Metals	Remarks	Accura Sample ID No. AB
GI-SS185-G01-01-01	8/16/01 15:40		X	S			1	X			18824
GI-SS185-G01-01-01D	8/16/01 15:40										25
GI-SS185-G01-02-01	8/16/01 15:45										26
GI-SS185-G01-02-01D	8/16/01 15:45										27
GI-SS185-C02-01-01	8/16/01 16:10										28
GI-SS185-E03-01-01	8/16/01 16:20										29
GI-SS185-B02-01-01	8/16/01 16:00										30
GI-SS185-A04-01-01	8/16/01 15:15								X		31
GI-SS185-D01-01-01	8/16/01 16:10							X			32
GI-SS185-F02-01-01	8/16/01 16:30							X			18833

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Brian Berg	8/16/01 17:15	FedEx		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FedEx	08/17/01 08:00	[illegible]	08/17/01 09:00	STD

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LABORATORY REPORT

Accura Sample ID #: **AC18814** **Accura Project #:** **28635**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS136-E07-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	170		5.9

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LABORATORY REPORT

Accura Sample ID #: AC18815 **Accura Project #:** 28635

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS136-F01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	95		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	11		5.3

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LABORATORY REPORT

Accura Sample ID #: **AC18816** **Accura Project #:** **28635**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS145-E02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	88		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	550		11

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LABORATORY REPORT

Accura Sample ID #: AC18817 **Accura Project #:** 28635

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS145-D01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	88		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	490		5.7

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LABORATORY REPORT

Accura Sample ID #: **AC18818** **Accura Project #:** **28635**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS145-D01-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	750		5.7

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LABORATORY REPORT

Accura Sample ID #: AC18819 **Accura Project #:** 28635

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS145-B04-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	96		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	400		10

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LABORATORY REPORT

Accura Sample ID #: **AC18820** **Accura Project #:** **28635**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS145-C02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	27		5.6

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LABORATORY REPORT

Accura Sample ID #: AC18821 **Accura Project #:** 28635

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS145-F05-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08 20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	95		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/20/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.31	J	0.53

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/04/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	32		5.3
Barium	660		53
Cadmium	16		5.3
Chromium	600		53
Lead	1900		53
Selenium	<RL		53
Silver	4.8	J	53

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LABORATORY REPORT

Accura Sample ID #: AC18822 **Accura Project #:** 28635

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS145-F05-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	97		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/20/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	1.8		1.0

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	75		5.2
Barium	1800		5.2
Cadmium	32		0.52
Chromium	1200		5.2
Lead	5800		5.2
Selenium	<RL		5.2
Silver	<RL		5.2

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/23/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		17
Aroclor-1221	<RL		34
Aroclor-1232	<RL		34
Aroclor-1242	<RL		17
Aroclor-1248	<RL		17
Aroclor-1254	<RL		17
Aroclor-1260	10	J	17

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep 08/20/2001 Date Analyzed: 08/25/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		170
4,4'-DDE	<RL		170
4,4'-DDT	<RL		340

Aldrin	<RL		170
alpha-BHC	<RL		170
alpha-Endosulfan	<RL		170
beta-BHC	<RL		170
beta-Endosulfan	<RL		170
delta-BHC	<RL		170
Dieldrin	<RL		170
Endosulfan sulfate	<RL		170
Endrin	<RL		170
Endrin aldehyde	<RL		170
Endrin ketone	<RL		170
gamma-BHC (Lindane)	<RL		170
Heptachlor	<RL		170
Heptachlor epoxide	<RL		170
Methoxychlor	<RL		860
Total Chlordane-Technical	<RL		1700
Toxaphene	<RL		8600

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 08/21/2001 Date Analyzed: 08/29/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		6900
1,2-Dichlorobenzene	<RL		6900
1,3-Dichlorobenzene	<RL		6900
1,4-Dichlorobenzene	<RL		6900
1-Methylnaphthalene	<RL		6900
2,4,5-Trichlorophenol	<RL		6900
2,4,6-Trichlorophenol	<RL		6900
2,4-Dichlorophenol	<RL		6900
2,4-Dimethylphenol	<RL		6900
2,4-Dinitrophenol	<RL		34000
2,4-Dinitrotoluene	<RL		6900
2,6-Dinitrotoluene	<RL		6900
2-Chloronaphthalene	<RL		6900
2-Chlorophenol	<RL		6900
2-Methylnaphthalene	2700	J	6900
2-Methylphenol	<RL		6900
2-Nitroaniline	<RL		14000
2-Nitrophenol	<RL		6900
3,3'-Dichlorobenzidine	<RL		6900
3,4-Methylphenol	<RL		14000
3-Nitroaniline	<RL		14000
4,6-Dinitro-2-methylphenol	<RL		14000
4-Bromophenyl phenyl ether	<RL		6900
4-Chloro-3-methylphenol	<RL		6900
4-Chloroaniline	<RL		6900
4-Chlorophenyl phenyl ether	<RL		6900
4-Nitroaniline	<RL		14000
4-Nitrophenol	<RL		14000
Acenaphthene	<RL		6900
Acenaphthylene	<RL		6900
Anthracene	<RL		6900
Benzo(a)anthracene	1000	J	6900
Benzo(a)pyrene	<RL		6900
Benzo(b)fluoranthene	<RL		6900

Benzo(g,h,i)perylene	<RL		6900
Benzo(k)fluoranthene	<RL		6900
Benzoic acid	<RL		34000
Benzyl alcohol	<RL		6900
bis(2-Chloroethoxy)methane	<RL		6900
bis(2-Chloroethyl)ether	<RL		6900
bis(2-Chloroisopropyl)ether	<RL		6900
bis(2-Ethylhexyl)phthalate	<RL		6900
Butyl benzyl phthalate	<RL		6900
Chrysene	<RL		6900
Dibenz(a,h)anthracene	<RL		6900
Dibenzofuran	<RL		6900
Diethylphthalate	<RL		6900
Dimethylphthalate	<RL		6900
Di-n-butylphthalate	<RL		6900
Di-n-octylphthalate	<RL		6900
Fluoranthene	1100	J	6900
Fluorene	<RL		6900
Hexachlorobenzene	<RL		6900
Hexachlorobutadiene	<RL		6900
Hexachlorocyclopentadiene	<RL		6900
Hexachloroethane	<RL		6900
Indeno(1,2,3-cd)pyrene	<RL		6900
Isophorone	<RL		6900
Naphthalene	1000	J	6900
Nitrobenzene	<RL		6900
N-Nitroso-di-n-propylamine	<RL		6900
N-Nitrosodiphenylamine	<RL		6900
Pentachlorophenol	<RL		14000
Phenanthrene	2400	J	6900
Phenol	<RL		6900
Pyrene	<RL		6900

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 08/22/2001 Date Analyzed: 08/22/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		7.3
1,1,2,2-Tetrachloroethane	<RL		7.3
1,1,2-Trichloroethane	<RL		7.3
1,1-Dichloroethane	<RL		7.3
1,1-Dichloroethene	<RL		7.3
1,2-Dichloroethane	<RL		7.3
1,2-Dichloropropane	<RL		7.3
2-Butanone (MEK)	39	JB	73
2-Chloroethyl vinyl ether	<RL		73
2-Hexanone (VBK)	<RL		73
4-Methyl-2-pentanone (MIBK)	<RL		73
Acetone	1200	EB J	73
Benzene	21	J	7.3
Bromodichloromethane	<RL		7.3
Bromoform	28	J	7.3
Bromomethane	14	J	7.3
Carbon disulfide	7.2	J	15
Carbon tetrachloride	<RL		7.3
Chlorobenzene	0.76	J	7.3

Chloroethane	19	J	7.3
Chloroform	1.1	J	7.3
Chloromethane	3.5	J	7.3
cis-1,2-Dichloroethene	<RL		7.3
cis-1,3-Dichloropropene	<RL		7.3
Dibromochloromethane	<RL		7.3
Ethylbenzene	1.5	J	7.3
Methylene chloride	<RL		15
Styrene	<RL		7.3
Tetrachloroethene	2.7	J	7.3
Toluene	14	J	7.3
trans-1,2-Dichloroethene	<RL		7.3
trans-1,3-Dichloropropene	<RL		7.3
Trichloroethene	<RL		7.3
Trichlorofluoromethane	<RL		7.3
Vinyl acetate	<RL		150
Vinyl chloride	<RL		7.3
Xylenes (Total)	7.1	J	7.3

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/23/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	254	Z	

ANALYSIS: X Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/25/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 20-151)	<RL	DO	
Tetrachloro-m-xylene (Range 11-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 08/22/2001 Date Analyzed: 08/22/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	86		
4-Bromofluorobenzene (Range 75-135)	108		
Toluene-d8 (Range 83-126)	144	Z	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 08/21/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: **AC18823** **Accura Project #:** **28635**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS185-A04-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: *08/20/2001* *Date Analyzed:* 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	94		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/20/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	1.9		1.1

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	16		5.3
Barium	210		11
Cadmium	5.0		1.1
Chromium	13		11
Lead	650		11
Selenium	7.6	J	11
Silver	<RL		11

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/23/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		18
Aroclor-1221	<RL		35
Aroclor-1232	<RL		35
Aroclor-1242	<RL		18
Aroclor-1248	<RL		18
Aroclor-1254	<RL		18
Aroclor-1260	<RL		18

ANALYSIS: Pesticides *Method Ref: 8081A*

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/25/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		*180*
4,4'-DDE	<RL		180
4,4'-DDT	<RL		350

Aldrin	<RL		180
alpha-BHC	<RL		180
alpha-Endosulfan	<RL		180
beta-BHC	<RL		180
beta-Endosulfan	<RL		180
delta-BHC	<RL		180
Dieldrin	<RL		180
Endosulfan sulfate	<RL		180
Endrin	<RL		180
Endrin aldehyde	<RL		180
Endrin ketone	<RL		180
gamma-BHC (Lindane)	<RL		180
Heptachlor	<RL		180
Heptachlor epoxide	<RL		180
Methoxychlor	<RL		890
Total Chlordane-Technical	<RL		1800
Toxaphene	<RL		8900

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 08/21/2001 Date Analyzed: 08/29/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		3500
1,2-Dichlorobenzene	<RL		3500
1,3-Dichlorobenzene	<RL		3500
1,4-Dichlorobenzene	<RL		3500
1-Methylnaphthalene	<RL		3500
2,4,5-Trichlorophenol	<RL		3500
2,4,6-Trichlorophenol	<RL		3500
2,4-Dichlorophenol	<RL		3500
2,4-Dimethylphenol	<RL		3500
2,4-Dinitrophenol	<RL		17000
2,4-Dinitrotoluene	<RL		3500
2,6-Dinitrotoluene	<RL		3500
2-Chloronaphthalene	<RL		3500
2-Chlorophenol	<RL		3500
2-Methylnaphthalene	<RL		3500
2-Methylphenol	<RL		3500
2-Nitroaniline	<RL		7100
2-Nitrophenol	<RL		3500
3,3'-Dichlorobenzidine	<RL		3500
3,4-Methylphenol	<RL		7100
3-Nitroaniline	<RL		7100
4,6-Dinitro-2-methylphenol	<RL		7100
4-Bromophenyl phenyl ether	<RL		3500
4-Chloro-3-methylphenol	<RL		3500
4-Chloroaniline	<RL		3500
4-Chlorophenyl phenyl ether	<RL		3500
4-Nitroaniline	<RL		7100
4-Nitrophenol	<RL		7100
Acenaphthene	<RL		3500
Acenaphthylene	<RL		3500
Anthracene	<RL		3500
Benzo(a)anthracene	<RL		3500
Benzo(a)pyrene	450	J	3500
Benzo(b)fluoranthene	<RL		3500

Benzo(g,h,i)perylene	<RL		3500
Benzo(k)fluoranthene	<RL		3500
Benzoic acid	<RL		17000
Benzyl alcohol	<RL		3500
bis(2-Chloroethoxy)methane	<RL		3500
bis(2-Chloroethyl)ether	<RL		3500
bis(2-Chloroisopropyl)ether	<RL		3500
bis(2-Ethylhexyl)phthalate	<RL		3500
Butyl benzyl phthalate	<RL		3500
Chrysene	530	J	3500
Dibenz(a,h)anthracene	<RL		3500
Dibenzofuran	<RL		3500
Diethylphthalate	<RL		3500
Dimethylphthalate	<RL		3500
Di-n-butylphthalate	<RL		3500
Di-n-octylphthalate	<RL		3500
Fluoranthene	750	J	3500
Fluorene	<RL		3500
Hexachlorobenzene	<RL		3500
Hexachlorobutadiene	<RL		3500
Hexachlorocyclopentadiene	<RL		3500
Hexachloroethane	<RL		3500
Indeno(1,2,3-cd)pyrene	<RL		3500
Isophorone	<RL		3500
Naphthalene	<RL		3500
Nitrobenzene	<RL		3500
N-Nitroso-di-n-propylamine	<RL		3500
N-Nitrosodiphenylamine	<RL		3500
Pentachlorophenol	<RL		7100
Phenanthrene	<RL		3500
Phenol	<RL		3500
Pyrene	710	J	3500

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 08/22/2001 Date Analyzed: 08/22/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		9.7
1,1,2,2-Tetrachloroethane	<RL		9.7
1,1,2-Trichloroethane	<RL		9.7
1,1-Dichloroethane	<RL		9.7
1,1-Dichloroethene	<RL		9.7
1,2-Dichloroethane	<RL		9.7
1,2-Dichloropropane	<RL		9.7
2-Butanone (MEK)	16	JB	97
2-Chloroethyl vinyl ether	<RL		97
2-Hexanone (MBK)	<RL		97
4-Methyl-2-pentanone (MIBK)	<RL		97
Acetone	170	B	97
Benzene	1.2	J	9.7
Bromodichloromethane	<RL		9.7
Bromoform	28	U	9.7
Bromomethane	7.6	J	9.7
Carbon disulfide	25	J	19
Carbon tetrachloride	<RL		9.7
Chlorobenzene	<RL		9.7

Chloroethane	<RL		9.7
Chloroform	1.0		9.7
Chloromethane	<RL		9.7
cis-1,2-Dichloroethene	<RL		9.7
cis-1,3-Dichloropropene	<RL		9.7
Dibromochloromethane	<RL		9.7
Ethylbenzene	<RL		9.7
Methylene chloride	<RL		19
Styrene	<RL		9.7
Tetrachloroethene	4.9	J	9.7
Toluene	1.6	J	9.7
trans-1,2-Dichloroethene	<RL		9.7
trans-1,3-Dichloropropene	<RL		9.7
Trichloroethene	<RL		9.7
Trichlorofluoromethane	<RL		9.7
Vinyl acetate	<RL		190
Vinyl chloride	<RL		9.7
Xylenes (Total)	1.6	J	9.7

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/23/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	116		

ANALYSIS: X Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/25/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 20-151)	<RL	DO	
Tetrachloro-m-xylene (Range 11-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 08/22/2001 Date Analyzed: 08/22/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	106		
4-Bromofluorobenzene (Range 75-135)	110		
Toluene-d8 (Range 83-126)	128	Z	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 08/21/2001 Date Analyzed: 08/29/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: **AC18824** **Accura Project #:** **28635**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS185-G01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1200		5.6

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LABORATORY REPORT

Accura Sample ID #: AC18825 **Accura Project #:** 28635

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS185-G01-01-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Resu't Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	700		5.6

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LABORATORY REPORT

Accura Sample ID #: **AC18826** **Accura Project #:** **28635**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS185-G01-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	400		5.8

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LABORATORY REPORT

Accura Sample ID #: AC18827 **Accura Project #:** 28635

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS185-G01-02-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	380		5.7

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LABORATORY REPORT

Accura Sample ID #: **AC18828** **Accura Project #:** **28635**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS185-C02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	170		5.4

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LABORATORY REPORT

Accura Sample ID #: AC18829 **Accura Project #:** 28635

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS185-E03-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	7.8		5.4

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LABORATORY REPORT

Accura Sample ID #: **AC18830** **Accura Project #:** **28635**

Client: ***Roy F. Weston, Inc.-Illinois*** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS185-B02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	95		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	580		5.3

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LABORATORY REPORT

Accura Sample ID #: AC18831 **Accura Project #:** 28635

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS185-A04-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	68		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 08/29/2001 Date Analyzed: 08/31/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.74

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	17		7.4
Barium	420		7.4
Cadmium	10		0.74
Chromium	35		7.4
Lead	1500		7.4
Selenium	6.1	J	7.4
Silver	1.0	J	7.4

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LABORATORY REPORT

Accura Sample ID #: **AC18832** **Accura Project #:** **28635**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS185-D01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	390		5.5

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LABORATORY REPORT

Accura Sample ID #: AC18833 **Accura Project #:** 28635

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/16/2001

Client Contact: D. BHOJWANI Date Received: 08/17/2001

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS185-F02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/20/2001 Date Analyzed: 08/21/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	88		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/01/2001 Date Analyzed: 09/02/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	140		5.7

Gateway Initiative
28654

Sample ID	Lab ID	Date Collected	Analysis
SS141-L02-01-01	18950	8/17/01	Total Lead
SS121-G01-02-01	18951	8/17/01	Total Lead
SS121-G01-01-01	18952	8/17/01	Total Lead
SS121-D2-01-01	18953	8/17/01	Total Lead
SS121-C4-01-01	18954	8/17/01	Total Lead
SS121-F04-01-01	18955	8/17/01	Total Lead
SS121-E02-02-01	18956	8/17/01	Total Lead
SS121-E02-01-01	18957	8/17/01	Total Lead
SS141-C02-01-01	18958	8/17/01	Total Lead
SS141-B01-01-01	18959	8/17/01	Total Lead
SS141-J02-01-01	18960	8/17/01	Total Lead
SS141-H09-01-01	18961	8/17/01	Total Lead
SS141-G02-01-01	18962	8/17/01	Total Lead
SS141-K02-02-01	18963	8/17/01	Total Lead
SS141-K2-01-01	18964	8/17/01	Total Lead
SS141-I09-01-01	18965	8/17/01	Total Lead
SS185-H07-01-01	18966	8/17/01	Total Lead
SS141-F01-02-01	18967	8/17/01	Total Lead
SS141-F01-01-01	18968	8/17/01	Total Lead
SS141-E2-01-01	18969	8/17/01	Total Lead
SS121-A01-02-01	18970	8/20/01	RCRA Metals, SVOC, VOC, Pesticides, PCBs
SS121-J02-01-01	18971	8/20/01	Total Lead
SS121-M1-01-01	18972	8/20/01	Total Lead
SS121-M1-01-01DP	18973	8/20/01	Total Lead
SS121-H04-01-01	18974	8/20/01	Total Lead
SS121-H04-01-01DP	18975	8/20/01	Total Lead
SS121-I04-01-01	18976	8/20/01	Total Lead
SS121-I04-01-01DP	18977	8/20/01	Total Lead
SS121-N2-01-01	18978	8/20/01	Total Lead
SS121-01-01-01	18979	8/20/01	Total Lead
SS121-B01-01-01	18980	8/17/01	Total Lead
SS141-D01-01-01	18981	8/17/01	Total Lead
SS141-D01-03-01	18982	8/17/01	Total Lead
SS121-K02-01-01	18983	8/20/01	Total Lead
SS121-K02-01-01DP	18984	8/20/01	Total Lead
SS121-Q1-01-01	18985	8/20/01	Total Lead
SS121-P02-01-01	18986	8/20/01	Total Lead
SS121-A02-01-01	18987	8/20/01	RCRA Metals, SVOC, VOC, Pesticides, PCBs
SS121-L02-01-01	18988	8/20/01	Total Lead
SS141-A02-01-01	18989	8/20/01	RCRA Metals, SVOC, VOC, Pesticides, PCBs

General
For the most part, batch QC was used by the laboratory. This often means the QC was used from other sampling or from some other site. Therefore, qualification can not be applied to this data. This is noted below.

Volatiles

1. Holding Time
All samples were analyzed within the required holding times.

2. Blanks
The laboratory narrative states that upon routine analysis of sodium bisulfate blanks, it was determined that the preservative was contaminated with bromoform (5 to 50 ppb) and chloroform (5-10 ppb). The samples were affected by bromoform and chloroform contamination. This preservative information was not provided with the data. Therfore bromoform and chloroform results less than 50 ug/kg in the samples are flagged as nondetect U. Bromoform results between 51 and 500 are flagged as estimated J. Chloroform results between 51 and 100 are flagged as estimated J. In addition, the following compound was found in the method blank: methylene chloride (1.2 ug/kg). Methylene chloride results less than ten times the blank results are qualified as nondetect U.

3. Surrogate Recovery
All surrogate recoveries were acceptable except corresponding sample SS121-A02-01-01. Positive results in the above sample is flagged J.

4. Matrix Spike
Sample 18792 was used as the MS/MSD. No qualification can be applied.

5. Laboratory Control Sample
The LCS recoveries were within the required control limits.

6. Internal Standards
According to the laboratory narrative, the following samples had one or more internal standards outside control limits: SS121-A02-01-01. No internal standard information was supplied with the data package. The narrative states that toluene, tetrachloroethane, 2-hexanone, and xylenes should be estimated J in SS121-A02-01-01.

7. Other
Sample SS121-A02-01-01 had acetone detected above the calibration range. Unfortunately, this sample was not reanalyzed. The acetone result will be considered unusable, R.

Semivolatiles

1. Holding Times
All samples were extracted and analyzed within the required holding times.

2. Blanks
The blank was free of contamination.

3. Surrogate Recovery
The following samples had surrogate recoveries that were diluted out due to sample dilution: SS121-A02-01-01, SS141-A02-01-01. Therefore, no qualification can be assessed based on surrogate recovery.

4. Matrix Spike
Sample 19116 was used as the MS. This sample was from a different batch but from this same project. The following recoveries were outside control limits: 4-chloro-methylphenol (48), 4-nitrophenol (24, 26), pentachlorophenol (20, 24), 2,4-dinitrotoluene (41, 29RPD), and pyrene (-71, -26, 28RPD). These compounds are flagged J/UJ in the unspiked sample (part of another batch).

5. Laboratory Control Sample
All LCS recoveries were within the required control limits.

6. Internal Standards
No internal standard information was provided with the data package. Internal standards were not discussed in the laboratory narrative. No qualification will be applied.

7 Other
Both SVOA samples underwent dilutions. Therefore, all SVOC results have elevated detection limits.

Pesticide/PCBs

1 Holding Times
All samples were analyzed within the required holding times.

2 Blanks
The PCB and pesticide blanks were free of contamination.

3. Surrogate Recovery
The following pesticide samples had surrogate recoveries that were diluted out due to sample dilution: SS121-A02-01-01 and SS141-A02-01-01. PCB samples SS121-A02-01-01 and SS141-A02-01-01 had surrogate recoveries outside control limits. Positive PCB results in those samples are flagged as estimated J.

4. Matrix Spike
Sample 18884 was used as the PCB matrix spike sample. Sample 18884 does not correspond to this sites samples. Sample 18713 was used as the pesticide matrix spike sample. Sample 18713 does not correspond to this sites samples.

5. Laboratory Control Sample
All pesticide and PCB LCS recoveries were within required control limits.

6. Other
All pesticide samples underwent dilutions. Therefore, all pesticide results have elevated detection limits.

Total Lead

1. Holding Times
All lead samples were analyzed within the required holding times.

2. Blanks
Lead was detected in the blank at 1.7. This was below the reporting limit so no qualifications are required.

3. Matrix Spike
Sample 18958 was used as the MS. The lead recovery was outside control limits but greater than 4 times the spike amount. Therefore, no qualifications are required.

4. Laboratory Control Sample
The LCS recoveries were within control limits.

5. Other
The following samples underwent dilutions resulting in elevated detection limits: SS121-A02-01-01, SS141-A02-01-01,SS121-E02-01-01, and SS141-D01-01-01.

RCRA Metals

1. Holding Times
The mercury results for SS121-A02-01-01 and SS141-A02-01-01 were analyzed outside holding times. Mercury results for these two samples are qualified as estimated J/UJ. All other holding times were met.

2. Blanks
Chromium and lead were detected in the blank below the detection limits. No qualifications are required.

3. Matrix Spike
One MS sample was reported: 18987. This sample is not associated with the site samples. No qualifications are applied.

4. Laboratory Control Sample
LCS recoveries associated with these samples were within QC limits.

5. Other
The following sample underwent dilutions which resulted in elevated detection limits: SS121-A02-01-01.

Data Reviewed by: T. Balla Date: 10/30/01

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31060

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449 5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc.
Address: 750 E. Bunker Ct. Suite 500
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initiative
Project Number: 20074.515.018.1601.00

Billing address: Same
Client P.O. #

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Custody Seal: Y N
QC Level: N 1 2 3 4
Sample Condition:

Page 1 OF 4
Init/Temp:
AAL Lab Project # 28654

Samplers: (signature)

Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	Remarks	Accura Sample ID No. AK 8-21-01
GI-SS141-L02-01-01	8/10/01 10:40		X	S	Y		1	X		18950
GI-SS121-G01-02-01	15:20							X		18951
GI-SS121-G01-01-01	15:15							X		18952
GI-SS121-D2-01-01	14:40							X		18953
GI-SS121-C4-01-01	14:40							X		18954
GI-SS171-F04-01-01	15:20							X		18955
GI-SS121-E02-02-01	15:35							X		18956
GI-SS121-E02-01-01	15:35							X		18957
GI-SS141-C01-01-01	10:10							X		18958
GI-SS141-B01-01-01	9:58							X		18959

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
	8/10/01 19:30	FEDEX		
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
FEDEX	08210 1820		08210 1020	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97.XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31059

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Ray F. Weston, Inc. Billing address: Same

Address: 750 E. Bunker Ct., Suite 500 Client P.O. #

Report Sent to: (Client Contact): Deepak Bhojwani

Contact Phone # (847) 918-4005 Fax # (847) 918-4055

Project Name: Gateway Initiative

Project Number: 20074.515.018.1601.00

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Custody Seal: Y N Page 2 OF 4

QC Level: N 1 2 3 4 Init/Temp: ~~AB~~ 2°C

Sample Condition: AAL Lab Project # 28654

Samplers: (signature) M. Hyl Ogilvie

Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	Remarks	Accura Sample ID No. AAL
GI-SS141-J02-01-01	8/17/01 14:00		X	S	Y		1	X		18960
GI-SS141-H09-01-01	11:40							X		18961
GI-SS141-G02-01-01	11:23							X		18962
GI-SS141-K2-02-01	13:35							X		18963
GI-SS141-K2-01-01	13:30							X		18964
GI-SS141-I09-01-01	9:45							X		18965
GI-SS185-H07-01-01	8:43							X		18966
GI-SS141-F01-02-01	9:30							X		18967
GI-SS141-F01-01-01	9:30							X		18968
GI-SS141-E2-01-01	10:50							X		18969

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
M. Hyl Ogilvie	8/20/01 19:30	FEDEX		
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
FED EX	~~8/20/01~~ 8/20/01 10:20		~~8/20/01~~ 8/20/01 10:20	

Matrix: (S = Soil/Solid, W = Water, L = Liquid, C = Charcoal) (SL = Sludge, O = Oil, A = Air Sample, F = Foods, M = Miscellaneous)

AAL-8-210

31057

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc.
Billing address: Same
Address: 750 E. Bunker Ct, Suite 500
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initiative
Project Number: 20074.515.018.1601.00

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Custody Seal: Y N
Page 3 OF 4
QC Level: N 1 2 3 4
Init/Temp: [illegible] 20°C
Sample Condition:
AAL Lab Project # 28654

Samplers: (signature) [signature]
Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	RCRA Metals	SVOC's	Pesticides	PCB's				Remarks	Accura Sample ID No. ABC ABL-8-21-01
GI-SS121-A01-02-01	8/20/01 11:50		X	S	Y		2		X	X	X	X	X	HT 8/20/01			18970
GI-SS121-J02-01-01	12:35						1	X									18971
GI-SS121-M1-01-01	14:30						1	X									18972
GI-SS121-M1-01-01DP	14:30						1	X									18973
GI-SS121-H04-01-01	12:00						1	X									18974
GI-SS121-H04-01-01DP	12:00						1	X									18975
GI-SS121-J04-01-01	10:30						1	X									18976
GI-SS121-J04-01-01DP	10:30						1	X									18977
GI-SS121-N2-01-01	14:05						1	X									18978
GI-SS121-01-01-01	14:15						1	X									18979

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	8/20/01 19:30	FEDEX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FEDEX	8/21/01 10:00	[signature]	8/21/01 10:00	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC 97-2 XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31061

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc.
Billing address: Same
Address: 750 E. Bunker Ct. Suite 500
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initiative
Project Number: 20074.515.018.1601.00

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Custody Seal: Y N
Page 4 OF 4
QC Level: N 1 2 3 4
Init/Temp: [illegible]
Sample Condition:
AAL Lab Project # 28654

Samplers: (signature): [signature]
Samplers: (printed): Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	Total Lead	RCRA Metals	% Solids	VOC's	SVOCs	Pesticides	PCB's			Remarks	Accura Sample ID No. ABC ABC 8-21-01
GI-SS121-B01-01-01	8/17/01 14:15		X	S	Y		1	X										18980
GI-SS141-D01-01-01	10:40						1	X										18981
GI-SS141-D01-03-01	10:45						1	X										18982
GI-SS121-K02-01-01	8/20/01 12:30						1	X										18983
GI-SS121-K02-01-01DP	12:30						1	X										18984
GI-SS121-Q1-01-01	14:55						1	X										18985
GI-SS121-P02-01-01	14:50						1	X										18986
GI-SS121-A02-01-01	11:40						6		X	X	X	X	X	X				18987
GI-SS121-L02-01-01	12:20						1	X										18988
GI-SS141-A02-01-01	15:40						6		X	X	X	X	X	X				18989

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	8/20/01 19:30	[signature] FEDEX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FEDEX	82101 ~~082001~~ 10:20	[signature]	82101 ~~082001~~ 10:20	

Matrix: (S = [illegible] / = W[illegible] = Li[illegible] = Ca[illegible]) (SL[illegible]e) (A[illegible] Sample[illegible] Foods) [illegible] = Miscella[illegible])

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LABORATORY REPORT

Accura Sample ID #: **AC18950** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-L02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	620		5.6

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LABORATORY REPORT

Accura Sample ID #: AC18951 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-G01-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1100		5.6

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LABORATORY REPORT

Accura Sample ID #: **AC18952** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-G01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1300		5.6

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LABORATORY REPORT

Accura Sample ID #: AC18953 **Accura Project #:** 28654

Client: ***Roy F. Weston, Inc.-Illinois*** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-D2-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	240		5.6

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LABORATORY REPORT

Accura Sample ID #: **AC18954** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: ***GI-SS121-C4-01-01***

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	520		11

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LABORATORY REPORT

Accura Sample ID #: **AC18955** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-F04-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	88		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	250		5.7

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC18956** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-E02-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	79		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	640		6.3

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LABORATORY REPORT

Accura Sample ID #: AC18957 **Accura Project #:** 28654

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS121-E02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1900		12

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC18958** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-C02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	410		5.4

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC18959 **Accura Project #:** 28654

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS141-B01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	110		5.6

ACCURA ANALYTICAL LABORATORY, INC.

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC18960** **Accura Project #:** **28654**

Client: ***Roy F. Weston, Inc.-Illinois*** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-J02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	74		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	480		6.8

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC18961 **Accura Project #:** 28654

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS141-H09-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	69		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	270		7.2

ACCURA ANALYTICAL LABORATORY, INC.

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LABORATORY REPORT

Accura Sample ID #: **AC18962** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-G02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	72		5.9

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LABORATORY REPORT

Accura Sample ID #: AC18963 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-K02-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	260		5.9

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LABORATORY REPORT

Accura Sample ID #: **AC18964** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-K2-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	960		5.7

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LABORATORY REPORT

Accura Sample ID #: AC18965 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-I09-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	97		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	120		10

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LABORATORY REPORT

Accura Sample ID #: **AC18966** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS185-H07-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	230		5.6

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LABORATORY REPORT

Accura Sample ID #: AC18967 **Accura Project #:** 28654

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS141-F01-02-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	76		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	790		6.6

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LABORATORY REPORT

Accura Sample ID #: **AC18968** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-F01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	810		5.5

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LABORATORY REPORT

Accura Sample ID #: AC18969 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-E2-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	75		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/5/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	490		6.7

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LABORATORY REPORT

Accura Sample ID #: **AC18970** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-A01-02-01**

ANALYSIS: % Solids *Method Ref:* *EPA 160.3*

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 8/23/01 Date Analyzed: 8/27/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.31	J	0.56

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	18		5.6
Barium	330		5.6
Cadmium	4.9		0.56
Chromium	20		5.6
Lead	490		5.6
Selenium	25		5.6
Silver	<RL		5.6

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LABORATORY REPORT

Accura Sample ID #: AC18971 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-J02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	88		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	49		5.7

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LABORATORY REPORT

Accura Sample ID #: **AC18972** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-M1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	200		5.9

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LABORATORY REPORT

Accura Sample ID #: AC18973 **Accura Project #:** 28654

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS121-M1-01-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	84		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	200		6.0

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LABORATORY REPORT

Accura Sample ID #: **AC18974** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-H04-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	77		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	98		6.5

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LABORATORY REPORT

Accura Sample ID #: AC18975 **Accura Project #:** 28654

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS121-H04-01-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	80		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	93		6.3

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LABORATORY REPORT

Accura Sample ID #: **AC18976** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-I04-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	74		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	300		6.8

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LABORATORY REPORT

Accura Sample ID #: AC18977 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1501.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-I04-01-01DP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	82		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	300		6.1

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LABORATORY REPORT

Accura Sample ID #: **AC18978** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-N2-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	120		5.4

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LABORATORY REPORT

Accura Sample ID #: AC18979 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-O1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	88		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	270		5.7

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LABORATORY REPORT

Accura Sample ID #: **AC18980** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-B01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	190		5.4

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LABORATORY REPORT

Accura Sample ID #: AC18981 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: ***GI-SS141-D01-01-01***

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	460		11

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LABORATORY REPORT

Accura Sample ID #: **AC18982** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/17/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-D01-03-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	72		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	820		6.9

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LABORATORY REPORT

Accura Sample ID #: AC18983 **Accura Project #:** 28654

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS121-K02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	220		5.7

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LABORATORY REPORT

Accura Sample ID #: **AC18984** **Accura Project #:** **28654**

Client: ***Roy F. Weston, Inc.-Illinois*** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-K02-01-01DP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	230		5.7

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LABORATORY REPORT

Accura Sample ID #: AC18985 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-Q1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	78		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	170		6.4

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LABORATORY REPORT

Accura Sample ID #: **AC18986** **Accura Project #:** **28654**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-P02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	430		5.5

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LABORATORY REPORT

Accura Sample ID #: AC18987 **Accura Project #:** 28654

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS121-A02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/1/01 Date Analyzed: 10/3/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.40	J	0.54

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	33		5.4
Barium	400		27
Cadmium	18		2.7
Chromium	430		27
Lead	850		27
Selenium	38		27
Silver	3.3	J	27

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/27/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		18
Aroclor-1221	<RL		35
Aroclor-1232	<RL		35
Aroclor-1242	<RL		18
Aroclor-1248	<RL		18
Aroclor-1254	<RL		18
Aroclor-1260	60		18

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/30/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		72
4,4'-DDE	<RL		36
4,4'-DDT	<RL		140

Aldrin	<RL		36
alpha-BHC	<RL		36
alpha-Endosulfan	<RL		36
beta-BHC	<RL		36
beta-Endosulfan	<RL		36
delta-BHC	<RL		36
Dieldrin	77		36
Endosulfan sulfate	<RL		36
Endrin	<RL		36
Endrin aldehyde	<RL		36
Endrin ketone	<RL		36
gamma-BHC (Lindane)	<RL		36
Heptachlor	<RL		36
Heptachlor epoxide	<RL		36
Methoxychlor	<RL		360
Total Chlordane-Technical	<RL		360
Toxaphene	<RL		1800

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 8/23/01 Date Analyzed: 8/31/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		3600
1,2-Dichlorobenzene	<RL		3600
1,3-Dichlorobenzene	<RL		3600
1,4-Dichlorobenzene	<RL		3600
1-Methylnaphthalene	<RL		3600
2,4,5-Trichlorophenol	<RL		3600
2,4,6-Trichlorophenol	<RL		3600
2,4-Dichlorophenol	<RL		3600
2,4-Dimethylphenol	<RL		3600
2,4-Dinitrophenol	<RL		17000
2,4-Dinitrotoluene	<RL		3600
2,6-Dinitrotoluene	<RL		3600
2-Chloronaphthalene	<RL		3600
2-Chlorophenol	<RL		3600
2-Methylnaphthalene	<RL		3600
2-Methylphenol	<RL		3600
2-Nitroaniline	<RL		7200
2-Nitrophenol	<RL		3600
3,3'-Dichlorobenzidine	<RL		3600
3,4-Methylphenol	<RL		7200
3-Nitroaniline	<RL		7200
4,6-Dinitro-2-methylphenol	<RL		7200
4-Bromophenyl phenyl ether	<RL		3600
4-Chloro-3-methylphenol	<RL		3600
4-Chloroaniline	<RL		3600
4-Chlorophenyl phenyl ether	<RL		3600
4-Nitroaniline	<RL		7200
4-Nitrophenol	<RL		7200
Acenaphthene	<RL		3600
Acenaphthylene	<RL		3600
Anthracene	<RL		3600
Benzo(a)anthracene	770	J	3600
Benzo(a)pyrene	<RL		3600
Benzo(b)fluoranthene	<RL		3600

Benzo(g,h,i)perylene	<RL		3600
Benzo(k)fluoranthene	<RL		3600
Benzoic acid	<RL		17000
Benzyl alcohol	<RL		3600
bis(2-Chloroethoxy)methane	<RL		3600
bis(2-Chloroethyl)ether	<RL		3600
bis(2-Chloroisopropyl)ether	<RL		3600
bis(2-Ethylhexyl)phthalate	<RL		3600
Butyl benzyl phthalate	<RL		3600
Chrysene	940	J	3600
Dibenz(a,h)anthracene	<RL		3600
Dibenzofuran	<RL		3600
Diethylphthalate	<RL		3600
Dimethylphthalate	<RL		3600
Di-n-butylphthalate	<RL		3600
Di-n-octylphthalate	<RL		3600
Fluoranthene	1500	J	3600
Fluorene	<RL		3600
Hexachlorobenzene	<RL		3600
Hexachlorobutadiene	<RL		3600
Hexachlorocyclopentadiene	<RL		3600
Hexachloroethane	<RL		3600
Indeno(1,2,3-cd)pyrene	<RL		3600
Isophorone	<RL		3600
Naphthalene	<RL		3600
Nitrobenzene	<RL		3600
N-Nitroso-di-n-propylamine	<RL		3600
N-Nitrosodiphenylamine	<RL		3600
Pentachlorophenol	<RL		7200
Phenanthrene	1000	J	3600
Phenol	<RL		3600
Pyrene	1300	J	3600

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		6.4
1,1,2,2-Tetrachloroethane	<RL		6.4
1,1,2-Trichloroethane	<RL		6.4
1,1-Dichloroethane	<RL		6.4
1,1-Dichloroethene	<RL		6.4
1,2-Dichloroethane	<RL		6.4
1,2-Dichloropropane	<RL		6.4
2-Butanone (MEK)	31	J	64
2-Chloroethyl vinyl ether	<RL		64
2-Hexanone (MBK)	2.0	J	64
4-Methyl-2-pentanone (MIBK)	<RL		64
Acetone	520	E	64
Benzene	3.0	J	6.4
Bromodichloromethane	<RL		6.4
Bromoform	<RL		6.4
Bromomethane	<RL		6.4
Carbon disulfide	3.9	J	13
Carbon tetrachloride	<RL		6.4
Chlorobenzene	<RL		6.4

Chloroethane	17		6.4
Chloroform	<RL		6.4
Chloromethane	<RL		6.4
cis-1,2-Dichloroethene	<RL		6.4
cis-1,3-Dichloropropene	<RL		6.4
Dibromochloromethane	<RL		6.4
Ethylbenzene	<RL		6.4
Methylene chloride	<RL		13
Styrene	<RL		6.4
Tetrachloroethene	5.3	J	6.4
Toluene	4.3	J	6.4
trans-1,2-Dichloroethene	<RL		6.4
trans-1,3-Dichloropropene	<RL		6.4
Trichloroethene	<RL		6.4
Trichlorofluoromethane	<RL		6.4
Vinyl acetate	<RL		130
Vinyl chloride	<RL		6.4
Xylenes (Total)	2.0	J	6.4

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/27/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	789	Z	

ANALYSIS: X Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/30/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 20-151)	<RL	DO	
Tetrachloro-m-xylene (Range 11-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	105		
4-Bromofluorobenzene (Range 75-135)	117		
Toluene-d8 (Range 83-126)	157	Z	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/23/01 Date Analyzed: 8/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: AC18988 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS121-L02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	500		5.6

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LABORATORY REPORT

Accura Sample ID #: AC18989 **Accura Project #:** 28654

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/20/01

Client Contact: D. BHOJWANI Date Received: 8/21/01

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/4/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS141-A02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	97		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/1/01 Date Analyzed: 10/3/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.21	J	0.52

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/27/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	12		5.2
Barium	0.93	J	5.2
Cadmium	<RL		0.52
Chromium	<RL		5.2
Lead	2.4	JB	5.2
Selenium	<RL		5.2
Silver	<RL		5.2

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/27/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		17
Aroclor-1221	<RL		33
Aroclor-1232	<RL		33
Aroclor-1242	<RL		17
Aroclor-1248	<RL		17
Aroclor-1254	<RL		17
Aroclor-1260	40		17

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/30/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		68
4,4'-DDE	<RL		34
4,4'-DDT	<RL		132

Aldrin	<RL	34
alpha-BHC	<RL	34
alpha-Endosulfan	<RL	34
beta-BHC	<RL	34
beta-Endosulfan	<RL	34
delta-BHC	<RL	34
Dieldrin	36	34
Endosulfan sulfate	<RL	34
Endrin	<RL	34
Endrin aldehyde	<RL	34
Endrin ketone	<RL	34
gamma-BHC (Lindane)	<RL	34
Heptachlor	<RL	34
Heptachlor epoxide	<RL	34
Methoxychlor	<RL	340
Total Chlordane-Technical	<RL	340
Toxaphene	<RL	1700

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 8/23/01 Date Analyzed: 8/31/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		3400
1,2-Dichlorobenzene	<RL		3400
1,3-Dichlorobenzene	<RL		3400
1,4-Dichlorobenzene	<RL		3400
1-Methylnaphthalene	<RL		3400
2,4,5-Trichlorophenol	<RL		3400
2,4,6-Trichlorophenol	<RL		3400
2,4-Dichlorophenol	<RL		3400
2,4-Dimethylphenol	<RL		3400
2,4-Dinitrophenol	<RL		17000
2,4-Dinitrotoluene	<RL		3400
2,6-Dinitrotoluene	<RL		3400
2-Chloronaphthalene	<RL		3400
2-Chlorophenol	<RL		3400
2-Methylnaphthalene	<RL		3400
2-Methylphenol	<RL		3400
2-Nitroaniline	<RL		6900
2-Nitrophenol	<RL		3400
3,3'-Dichlorobenzidine	<RL		3400
3,4-Methylphenol	<RL		6900
3-Nitroaniline	<RL		6900
4,6-Dinitro-2-methylphenol	<RL		6900
4-Bromophenyl phenyl ether	<RL		3400
4-Chloro-3-methylphenol	<RL		3400
4-Chloroaniline	<RL		3400
4-Chlorophenyl phenyl ether	<RL		3400
4-Nitroaniline	<RL		6900
4-Nitrophenol	<RL		6900
Acenaphthene	<RL		3400
Acenaphthylene	<RL		3400
Anthracene	<RL		3400
Benzo(a)anthracene	<RL		3400
Benzo(a)pyrene	<RL		3400
Benzo(b)fluoranthene	<RL		3400

Benzo(g,h,i)perylene	<RL		3400
Benzo(k)fluoranthene	<RL		3400
Benzoic acid	<RL		17000
Benzyl alcohol	<RL		3400
bis(2-Chloroethoxy)methane	<RL		3400
bis(2-Chloroethyl)ether	<RL		3400
bis(2-Chloroisopropyl)ether	<RL		3400
bis(2-Ethylhexyl)phthalate	<RL		3400
Butyl benzyl phthalate	<RL		3400
Chrysene	<RL		3400
Dibenz(a,h)anthracene	<RL		3400
Dibenzofuran	<RL		3400
Diethylphthalate	<RL		3400
Dimethylphthalate	<RL		3400
Di-n-butylphthalate	<RL		3400
Di-n-octylphthalate	<RL		3400
Fluoranthene	690	J	3400
Fluorene	<RL		3400
Hexachlorobenzene	<RL		3400
Hexachlorobutadiene	<RL		3400
Hexachlorocyclopentadiene	<RL		3400
Hexachloroethane	<RL		3400
Indeno(1,2,3-cd)pyrene	<RL		3400
Isophorone	<RL		3400
Naphthalene	<RL		3400
Nitrobenzene	<RL		3400
N-Nitroso-di-n-propylamine	<RL		3400
N-Nitrosodiphenylamine	<RL		3400
Pentachlorophenol	<RL		6900
Phenanthrene	<RL		3400
Phenol	<RL		3400
Pyrene	580	J	3400

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep 8/27/01 Date Analyzed: 8/27/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		5.3
1,1,2,2-Tetrachloroethane	<RL		5.3
1,1,2-Trichloroethane	<RL		5.3
1,1-Dichloroethane	<RL		5.3
1,1-Dichloroethene	<RL		5.3
1,2-Dichloroethane	<RL		5.3
1,2-Dichloropropane	<RL		5.3
2-Butanone (MEK)	5.1	J	53
2-Chloroethyl vinyl ether	<RL		53
2-Hexanone (MBK)	<RL		53
4-Methyl-2-pentanone (MIBK)	<RL		53
Acetone	52	J	53
Benzene	5.8		5.3
Bromodichloromethane	<RL		5.3
Bromoform	<RL		5.3
Bromomethane	<RL		5.3
Carbon disulfide	3.5	J	11
Carbon tetrachloride	<RL		5.3
Chlorobenzene	<RL		5.3

Chloroethane	<RL		5.3
Chloroform	<RL		5.3
Chloromethane	<RL		5.3
cis-1,2-Dichloroethene	<RL		5.3
cis-1,3-Dichloropropene	<RL		5.3
Dibromochloromethane	<RL		5.3
Ethylbenzene	1.8	J	5.3
Methylene chloride	<RL		11
Styrene	<RL		5.3
Tetrachloroethene	1.3	J	5.3
Toluene	5.4		5.3
trans-1,2-Dichloroethene	<RL		5.3
trans-1,3-Dichloropropene	<RL		5.3
Trichloroethene	<RL		5.3
Trichlorofluoromethane	<RL		5.3
Vinyl acetate	<RL		110
Vinyl chloride	<RL		5.3
Xylenes (Total)	4.7	J	5.3

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/27/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	170	Z	

ANALYSIS: X Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 8/24/01 Date Analyzed: 8/30/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 20-151)	<RL	DO	
Tetrachloro-m-xylene (Range 11-142)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/27/01 Date Analyzed: 8/27/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	109		
4-Bromofluorobenzene (Range 75-135)	110		
Toluene-d8 (Range 83-126)	122		

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/23/01 Date Analyzed: 8/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

Gateway Initiative
28934

Sample ID	Lab ID	Date Collected	Analysis
SS155-N1-01-01	21007	10/8/01	RCRA Metals
SS155-L1-01-01	21008	10/8/01	RCRA Metals
SS158-B9-02-01	21009	10/8/01	RCRA Metals
SS158-G2-01-01	21010	10/8/01	RCRA Metals
SS160-V1-01-01	21011	10/8/01	RCRA Metals
SS157-E01-02-01	21012	10/8/01	RCRA Metals
SS157-F02-01-01	21013	10/9/01	RCRA Metals
SS143-B02-01-01	21014	10/9/01	RCRA Metals
SS143-C01-01-01	21015	10/9/01	RCRA Metals
SS143-C01-02-01	21016	10/9/01	RCRA Metals
SS143-F01-01-01	21017	10/9/01	RCRA Metals
SS143-F01-021-01	21018	10/9/01	RCRA Metals
SS143-D02-01-01	21019	10/9/01	RCRA Metals
SS143-E01-01-01	21020	10/9/01	RCRA Metals
SS143-E01-01-01DP	21021	10/9/01	RCRA Metals
SS143-K01-01-01	21022	10/9/01	RCRA Metals
SS143-K01-02-01	21023	10/9/01	RCRA Metals
SS143-K01-02-01DP	21024	10/9/01	RCRA Metals
SS143-G02-01-01	21025	10/9/01	RCRA Metals
SS143-L01-01-01	21026	10/9/01	RCRA Metals
SS143-L01-02-01	21027	10/10/01	RCRA Metals
SS143-J02-01-01	21028	10/10/01	RCRA Metals
SS143-I02-01-01MSD	21029	10/10/01	TAL Metals
SS143-H02-01-01	21030	10/10/01	TAL Metals
SS143-H02-02-01	21031	10/10/01	TAL Metals
SS173-D02-01-01	21032	10/10/01	TAL Metals
SS173-A08-01-01	21033	10/10/01	RCRA Metals
SS173-A08-02-01	21034	10/10/01	RCRA Metals
SS173-B01-01-01	21035	10/10/01	RCRA Metals
SS173-B01-02-01MSD	21036	10/10/01	RCRA Metals

RCRA Metals

1. Holding Times
All holding times were met.

2. Blanks
There were two blanks associated with the samples. Sample 1016011 was free of contamination. Sample 1017014 contained lead at 1.8. Lead results less than 9 are flagged L.

3. Matrix Spike
Two MS samples were reported: 101601 and 101701. The following recoveries associated with 101601 were outside control limits: cadmium (172), lead, and selenium (71,48 and 30RPD). The following recoveries associated with 101701 were outside control limits: barium (51), and lead. MS/MSD 101601 is associated with samples 21007 through 21026. MS/MSD 101701 is associated with samples 21027, 21028, and 21033 through 21036. The above compounds are flagged J/UJ in the corresponding sample sets. Two mercury MS/MSDs were also submitted. The second one (associated with samples 21027, 21028, and 21033 through 21036) had mercury outside control limits (149, 139) and should be flagged J/UJ.

4. Laboratory Control Sample
LCS recoveries associated with these samples were within QC limits.

TAL Metals

1. Holding Times
All holding times were met.

2. Blanks
There was one blank associated with the samples. The following compounds were detected: aluminum (18), beryllium (o.044), calcium (41), iron (110), lead (1.8), nickel (1.4), potassium (16), sodium (98), and zinc (4.7). Detections less than 10 times the blank concentration are flagged U.

3. Matrix Spike
One MS/MSD was associated with the samples. The following recoveries were outside control limits: aluminum, antimony, barium (51), calcium, iron, lead, magnesium, manganese (-91, -19), potassium (132), and zinc (-49, -4). These compounds are flagged J/UJ in all corresponding TAL metal samples.

4. Laboratory Control Sample
LCS recoveries associated with these samples were within QC limits.

Data Reviewed by: T. Balla Date: 11/13/01

31418

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc.
Billing address: Same
Address: 750 E. Bunker Ct., Suite 500 Vernon Hills, IL 60061
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initiative
Project Number: 20074.515.018.1701.00

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Custody Seal: Y N
Page 1 OF 3
QC Level: N 1 2 3 4
Init/Temp: 2°C
Sample Condition:
AAL Lab Project # 28934

Samplers: (signature) [signature]
Samplers: (printed) [signature]

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS RCRA Metals								Remarks	Accura Sample ID No. ABC
SS155-N1-01-01	10/8/01 11:25	1	X	S	Y		1	X									21007
SS155-L1-01-01	11:45						1	X									21008
SS158-B9-02-01	12:05						1	X									21009
SS158-G2-01-01	13:45						1	X									21010
SS160-V1-01-01	14:50						1	X									21011
SS141-Q2-04-01	15:45						1	X									21012
SS141-V1-02-01	10/9/01 8:00						1	X									21013
SS141-V1-02-01DP	8:00						1	X									21014
SS141-T1-01-01	9:45						1	X									21015
SS136-B4-01-01	11:00						1	X									21016

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	10/10/01 20:00	FEDEX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FEDEX	10/11/01 09:35	[signature]	10/11/01 09:35	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31419

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc. Billing address: Same

Address: 750 E. Bunker Ct. Suite 500 Vernon Hills, IL 60061 Client P.O. #

Report Sent to: (Client Contact): Deepak Bhojwani

Contact Phone # (847) 918-4005 Fax # (847) 918-4055

Project Name: Gateway Initiative

Project Number: 20074.515.018.1701.00

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Custody Seal: Y N Page 2 OF 3

QC Level: N 1 2 3 4 Init/Temp: ~~GA~~ 2°C

Sample Condition: AAL Lab Project # 28934

Samplers: (signature) M. Hyl Ollis

Samplers: (printed) G. Douglas Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: RCRA Metals	Remarks	Accura Sample ID No. AP
SS136-G3-01-01	10/9/01 11:10		X	S	Y		1	X	21017	~~21017~~ 21017
SS136-A11-01-01	11:25						1	X		21018
SS146-E8-02-01	14:45						1	X		21019
SS173-D1(02)-01-01	15:30						1	X		21020
SS173-H1-01-01	15:45						1	X		21021
SS173-K2-02-01	16:00						1	X		21022
SS185-L1-01-01	16:42						1	X		21023
SS185-D1(02)-01-01	17:00						1	X		21024
SS185-J1-01-01	17:15						1	X		21025
SS157-D4-02-01MSD	17:45						2	X	MS/MSD Sample	21026

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
M. Hyl Ollis	10/10/01 20:00	FedEx		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FedEx	10/11/01 09:35	[signature]	10/11/01 09:35	

31420

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc.
Billing address: Same
Address: 750 E. Bunker Ct., Suite 500 Vernon Hills, IL 60061
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initiative
Project Number: 20074.515.018.1701.00

For Laboratory Use Only

Custody Seal: Y N
Page 3 OF 3
QC Level: N 1 2 3 4
Init/Temp: 2°C
Sample Condition:
AAL Lab Project # 28934

Samplers: (signature) [signature]
Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS RCRA Metals	TAL Metals								Remarks	Accura Sample ID No. ABC
SS157-G3-01-01	10/10/01 10:20	1	X	S	Y		1	X										21027
SS157-G3-01-01DP	10/10/01 10:20						1	X										21028
SS178-01-01-01	10:45						1		X									21029
SS178-01-01-01DP	10:45						1		X									21030
SS178-L1-01-01	11:10						1		X									21031
SS178-N1-01-01MSD	11:25						2		X									21032
SS143-V1-01-01	12:30						1	X										21033
SS143-V1-01-01DP	12:30						1	X										21034
SS143-R2-01-01MSD	13:05						2	X									MS/MSD Samples	21035
SS143-01-01-01	13:45						1	X										21036

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	10/10/01 20:00	FEDEX		
Relinquished By: FEDEX	Date / Time 10/10/01 09:35	Received By: [signature]	Date / Time 10/10/01 09:35	Turnaround Time Requested:

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC21007** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/8/01

Client Contact: *D. BHOJWANI* Date Received: 10/11/01

Client Project Number 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS155-N1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	80		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.28	J	0.63

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	9.4		6.3
Barium	410		6.3
Cadmium	6.7	J	0.63
Chromium	23		6.3
Lead	380	J	6.3
Selenium	<RL	J	6.3
Silver	1.3	J	6.3

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LABORATORY REPORT

Accura Sample ID #: **AC21008** **Accura Project #:** **28934**

Client: ***Roy F. Weston, Inc.-Illinois*** Date Sampled: 10/8/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS155-L1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	81		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	1.1		0.62

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	8.1		6.2
Barium	470		6.2
Cadmium	9.1	J	0.62
Chromium	36		6.2
Lead	860	J	6.2
Selenium	<RL	J	6.2
Silver	4.6	J	6.2

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LABORATORY REPORT

Accura Sample ID #: **AC21009** **Accura Project #:** **28934**

Client: ***Roy F. Weston, Inc.-Illinois*** Date Sampled: 10/8/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS158-B9-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	83		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.46	J	0.60

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	11	J	30
Barium	200		30
Cadmium	10	J	3.0
Chromium	15	J	30
Lead	420	J	30
Selenium	<RL	J	30
Silver	<RL		30

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LABORATORY REPORT

Accura Sample ID #: AC21010 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/8/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS158-G2-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	84		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.65		0.60

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	7.1		6.0
Barium	190		6.0
Cadmium	4.1	J	0.60
Chromium	15		6.0
Lead	250	J	6.0
Selenium	<RL	J	6.0
Silver	1.2	J	6.0

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC21011** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/8/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-V1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	97		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.24	J	0.52

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	7.9		5.2
Barium	64		5.2
Cadmium	0.80	J	0.52
Chromium	9.0		5.2
Lead	490	J	5.2
Selenium	<RL	J	5.2
Silver	0.83	J	5.2

ACCURA ANALYTICAL LABORATORY, INC.

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LABORATORY REPORT

Accura Sample ID #: AC21012 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/8/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS141-Q2-04-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	88		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	1.7		1.7

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	4.4	J	28
Barium	480		28
Cadmium	11	J	2.8
Chromium	18	J	28
Lead	3200	J	28
Selenium	<RL	J	28
Silver	<RL		28

ACCURA ANALYTICAL LABORATORY, INC.

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC21013** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS141-V1-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	6.4		3.5

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	14		5.8
Barium	320		5.8
Cadmium	5.5	J	0.58
Chromium	23		5.8
Lead	1100	J	5.8
Selenium	<RL	J	5.8
Silver	1.3	J	5.8

ACCURA ANALYTICAL LABORATORY, INC.

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC21014 **Accura Project #:** 28934

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS141-V1-02-01DP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Mercury - RCRA *Method Ref: 7471A*

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	6.4		3.4

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	13		5.7
Barium	290		5.7
Cadmium	4.9	J	0.57
Chromium	18		5.7
Lead	980	J	5.7
Selenium	<RL	J	5.7
Silver	1.3	J	5.7

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30071, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC21015** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS141-T1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.64		0.58

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	8.9		5.8
Barium	270		5.8
Cadmium	7.7	J	0.58
Chromium	22		5.8
Lead	1400	J	5.8
Selenium	<RL	J	5.8
Silver	1.4	J	5.8

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LABORATORY REPORT

Accura Sample ID #: AC21018 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS136-A11-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	4.5		2.2

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	29		27
Barium	1000		27
Cadmium	29	J	2.7
Chromium	250		27
Lead	1100	J	27
Selenium	<RL	J	27
Silver	<RL		27

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LABORATORY REPORT

Accura Sample ID #: **AC21016** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS136-B4-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.54	J	0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	8.8		5.9
Barium	550		5.9
Cadmium	9.7	J	0.59
Chromium	26		5.9
Lead	2000	J	5.9
Selenium	<RL	J	5.9
Silver	1.6	J	5.9

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LABORATORY REPORT

Accura Sample ID #: AC21017 **Accura Project #:** 28934

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS136-G3-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	5.3		2.8

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	3.7	J	28
Barium	420		28
Cadmium	12	J	2.8
Chromium	160		28
Lead	500	J	28
Selenium	<RL	J	28
Silver	<RL		28

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LABORATORY REPORT

Accura Sample ID #: **AC21019** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS145-E8-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	13	J	29
Barium	780		29
Cadmium	14	J	2.9
Chromium	27	J	29
Lead	5400	J	29
Selenium	<RL	J	29
Silver	<RL		29

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LABORATORY REPORT

Accura Sample ID #: AC21021 **Accura Project #:** 28934

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: *GATEWAY INITIATIVE* *Sample Matrix:* *SOIL*

Client Sample ID: **SS173-H1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	81		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.24	J	0.62

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	5.2	J	6.2
Barium	140		6.2
Cadmium	22	J	0.62
Chromium	10		6.2
Lead	210	J	6.2
Selenium	<RL	J	6.2
Silver	2.1	J	6.2

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LABORATORY REPORT

Accura Sample ID #: **AC21022** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS173-K2-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	13		11

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	11		5.4
Barium	230		5.4
Cadmium	6.8	J	0.54
Chromium	16		5.4
Lead	500	J	5.4
Selenium	<RL	J	5.4
Silver	1.1	J	5.4

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LABORATORY REPORT

Accura Sample ID #: AC21024 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS185-D1(02)-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.64		0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	24		5.9
Barium	240		5.9
Cadmium	11	J	0.59
Chromium	18		5.9
Lead	480	J	5.9
Selenium	<RL	J	5.9
Silver	1.0	J	5.9

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LABORATORY REPORT

Accura Sample ID #: **AC21023** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS185-L1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	80		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	3.6		3.1

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	6.9		6.3
Barium	230		6.3
Cadmium	8.7	J	0.63
Chromium	52		6.3
Lead	340	J	6.3
Selenium	<RL	J	6.3
Silver	1.6	J	6.3

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LABORATORY REPORT

Accura Sample ID #: AC21020 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS173-D1(02)-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.092	J	0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	5.8	J	5.9
Barium	150		5.9
Cadmium	9.7	J	0.59
Chromium	16		5.9
Lead	100	J	5.9
Selenium	<RL	J	5.9
Silver	1.5	J	5.9

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LABORATORY REPORT

Accura Sample ID #: **AC21033** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/10/01

Client Contact: *D. BHOJWANI* Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS143-V1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	79		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.27	J	0.63

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	14		6.3
Barium	410	J	6.3
Cadmium	11		0.63
Chromium	26		6.3
Lead	790	J	6.3
Selenium	<RL		6.3
Silver	<RL		6.3

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LABORATORY REPORT

Accura Sample ID #: AC21034 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS143-V1-01-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	80		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.85		0.63

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	14		6.3
Barium	380	J	31
Cadmium	9.6		3.1
Chromium	18	J	31
Lead	540	J	31
Selenium	<RL		31
Silver	<RL		31

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LABORATORY REPORT

Accura Sample ID #: **AC21027** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS157-G3-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.58		0.58

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	38		5.8
Barium	300	J	5.8
Cadmium	40		0.58
Chromium	39		5.8
Lead	910	J	5.8
Selenium	<RL		5.8
Silver	5.8		5.8

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LABORATORY REPORT

Accura Sample ID #: AC21028 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS157-G3-01-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.53	J	0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	35		5.9
Barium	280	J	5.9
Cadmium	41		0.59
Chromium	38		5.9
Lead	800	J	5.9
Selenium	<RL		5.9
Silver	5.1	J	5.9

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LABORATORY REPORT

Accura Sample ID #: AC21029 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.66		0.59

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	13000		29
Antimony	<RL		29
Arsenic	<RL		29
Barium	430		29
Beryllium	1.7	J	1.8
Cadmium	9.2		2.9
Calcium	70000		29
Chromium	170		29
Cobalt	8.7		5.9
Copper	140		29
Iron	60000		59
Lead	450		29
Magnesium	9200		29
Manganese	5000		29
Nickel	27		29
Potassium	2200		120
Selenium	<RL		29
Silver	<RL		29
Sodium	470		240
Thallium	<RL		29
Vanadium	330		5.9
Zinc	1200		590

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LABORATORY REPORT

Accura Sample ID #: AC21030 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-01-01-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.65		0.59

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	12000	J	5.9
Antimony	<RL		5.9
Arsenic	7.6		5.9
Barium	310	J	5.9
Beryllium	1.1		0.35
Cadmium	8.6		0.59
Calcium	33000	J	5.9
Chromium	78		5.9
Cobalt	7.4		1.2
Copper	77		5.9
Iron	44000	J	12
Lead	380	J	5.9
Magnesium	4400	J	5.9
Manganese	1400	J	5.9
Nickel	22		5.9
Potassium	1900	J	24
Selenium	<RL		5.9
Silver	<RL		5.9
Sodium	420	J B	240
Thallium	<RL		5.9
Vanadium	180		1.2
Zinc	520	J	120

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LABORATORY REPORT

Accura Sample ID #: AC21031 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/2/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-L1-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	78		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.33	J	0.64

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	9400	J	6.4
Antimony	<RL	J	6.4
Arsenic	5.6	J	6.4
Barium	130	J	6.4
Beryllium	0.64		0.38
Cadmium	2.5		0.64
Calcium	32000	J	6.4
Chromium	12		6.4
Cobalt	6.6		1.3
Copper	22		6.4
Iron	16000	J	13
Lead	110	J	6.4
Magnesium	15000	J	6.4
Manganese	480	J	6.4
Nickel	16		6.4
Potassium	2000	J	26
Selenium	<RL		6.4
Silver	<RL		6.4
Sodium	170	UB	130
Thallium	<RL		6.4
Vanadium	25		1.3
Zinc	160	J	130

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LABORATORY REPORT

Accura Sample ID #: AC21025 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS185-J1-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.49	J	0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	6.5		5.9
Barium	350		5.9
Cadmium	11	J	0.59
Chromium	19		5.9
Lead	410	J	5.9
Selenium	<RL	J	5.9
Silver	0.84	J	5.9

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LABORATORY REPORT

Accura Sample ID #: AC21035 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS143-R2-01-01MSD

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	77		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/29/01 Date Analyzed: 10/29/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.39	J	0.65

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	6.9		6.5
Barium	280	J	6.5
Cadmium	6.5		0.65
Chromium	25		6.5
Lead	800	J	6.5
Selenium	<RL		6.5
Silver	4.5	J	6.5

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LABORATORY REPORT

Accura Sample ID #: AC21036 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/2/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS143-01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	84		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.55	J	0.60

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	13		6.0
Barium	310	J	6.0
Cadmium	7.5		0.60
Chromium	23		6.0
Lead	790	J	6.0
Selenium	<RL		6.0
Silver	<RL		6.0

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LABORATORY REPORT

Accura Sample ID #: **AC21026** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 10/30/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS157-D4-02-01MSD**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	81		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	4.4		3.1

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	3.6	J	31
Barium	440		31
Cadmium	11	J	3.1
Chromium	38		31
Lead	3000	J	31
Selenium	<RL	J	31
Silver	<RL		31

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LABORATORY REPORT

Accura Sample ID #: AC21032 **Accura Project #:** 28934

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/2/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS178-N1-01-01MSD**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	76		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.30	J	0.66

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	10000	J	6.6
Antimony	<RL	J	6.6
Arsenic	5.9	J	6.6
Barium	240	J	6.6
Beryllium	1.1		0.39
Cadmium	6.1		0.66
Calcium	19000	J	6.6
Chromium	25		6.6
Cobalt	10		1.3
Copper	66		6.6
Iron	24000	J	13
Lead	370		6.6
Magnesium	5200	J	6.6
Manganese	400	J	6.6
Nickel	35		6.6
Potassium	1800	J	26
Selenium	<RL		6.6
Silver	<RL		6.6
Sodium	290	J B	130
Thallium	<RL		6.6
Vanadium	27		1.3
Zinc	530	J	130

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LABORATORY REPORT

Accura Sample ID #: **AC21007** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: *10/8/01*

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: *20074.515.018.1701.00* Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS155-N1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	80		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.28	J	0.63

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	9.4		6.3
Barium	410		6.3
Cadmium	6.7		0.63
Chromium	23		6.3
Lead	380		6.3
Selenium	<RL		6.3
Silver	1.3	J	6.3

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LABORATORY REPORT

Accura Sample ID #: AC21008 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/8/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS155-L1-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	81		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	1.1		0.62

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	8.1		6.2
Barium	470		6.2
Cadmium	9.1		0.62
Chromium	36		6.2
Lead	860		6.2
Selenium	<RL		6.2
Silver	4.6	J	6.2

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LABORATORY REPORT

Accura Sample ID #: **AC21009** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/8/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS158-B9-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	83		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.46	J	0.60

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	11	J	30
Barium	200		30
Cadmium	10		3.0
Chromium	15	J	30
Lead	420		30
Selenium	<RL		30
Silver	<RL		30

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LABORATORY REPORT

Accura Sample ID #: AC21010 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/8/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS158-G2-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	84		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.65		0.60

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	7.1		6.0
Barium	190		6.0
Cadmium	4.1		0.60
Chromium	15		6.0
Lead	250		6.0
Selenium	<RL		6.0
Silver	1.2	J	6.0

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LABORATORY REPORT

Accura Sample ID #: **AC21011** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/8/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-V1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	97		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.24	J	0.52

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	7.9		5.2
Barium	64		5.2
Cadmium	0.80		0.52
Chromium	9.0		5.2
Lead	490		5.2
Selenium	<RL		5.2
Silver	0.83	J	5.2

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LABORATORY REPORT

Accura Sample ID #: AC21012 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/8/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS141-Q2-04-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	88		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	1.7		1.7

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	4.4	J	28
Barium	480		28
Cadmium	11		2.8
Chromium	18	J	28
Lead	3200		28
Selenium	<RL		28
Silver	<RL		28

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LABORATORY REPORT

Accura Sample ID #: **AC21013** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS141-V1-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	6.4		3.5

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	14		5.8
Barium	320		5.8
Cadmium	5.5		0.58
Chromium	23		5.8
Lead	1100		5.8
Selenium	<RL		5.8
Silver	1.3	J	5.8

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LABORATORY REPORT

Accura Sample ID #: AC21014 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS141-V1-02-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	6.4		3.4

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	13		5.7
Barium	290		5.7
Cadmium	4.9		0.57
Chromium	18		5.7
Lead	980		5.7
Selenium	<RL		5.7
Silver	1.3	J	5.7

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LABORATORY REPORT

Accura Sample ID #: **AC21015** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS141-T1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.64		0.58

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	8.9		5.8
Barium	270		5.8
Cadmium	7.7		0.58
Chromium	22		5.8
Lead	1400		5.8
Selenium	<RL		5.8
Silver	1.4	J	5.8

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LABORATORY REPORT

Accura Sample ID #: **AC21016** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS136-B4-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.54	J	0.59

ANALYSIS: Metals - RCRA Method Ref: *3050B/6010B*

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	8.8		5.9
Barium	550		5.9
Cadmium	9.7		0.59
Chromium	26		5.9
Lead	2000		5.9
Selenium	<RL		5.9
Silver	1.6	J	5.9

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LABORATORY REPORT

Accura Sample ID #: **AC21017** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS136-G3-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name:	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name:	Analytical Results	Qualifier	Reported Detection Limits
Mercury	5.3		2.8

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name:	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	3.7	J	28
Barium	420		28
Cadmium	12		2.8
Chromium	160		28
Lead	500		28
Selenium	<RL		28
Silver	<RL		28

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LABORATORY REPORT

Accura Sample ID #: AC21018 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS136-A11-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	4.5		2.2

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	29		27
Barium	1000		27
Cadmium	29		2.7
Chromium	250		27
Lead	1100		27
Selenium	<RL		27
Silver	<RL		27

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LABORATORY REPORT

Accura Sample ID #: **AC21019** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS145-E8-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	<RL		0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	13	J	29
Barium	780		29
Cadmium	14		2.9
Chromium	27	J	29
Lead	5400		29
Selenium	<RL		29
Silver	<RL		29

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LABORATORY REPORT

Accura Sample ID #: AC21020 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS173-D1(02)-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.092	J	0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	5.8	J	5.9
Barium	150		5.9
Cadmium	9.7		0.59
Chromium	16		5.9
Lead	100		5.9
Selenium	<RL		5.9
Silver	1.5	J	5.9

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LABORATORY REPORT

Accura Sample ID #: **AC21021** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS173-H1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	81		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.24	J	0.62

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	5.2	J	6.2
Barium	140		6.2
Cadmium	22		0.62
Chromium	10		6.2
Lead	210		6.2
Selenium	<RL		6.2
Silver	2.1	J	6.2

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LABORATORY REPORT

Accura Sample ID #: AC21022 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS173-K2-02-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	13		11

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	11		5.4
Barium	230		5.4
Cadmium	6.8		0.54
Chromium	16		5.4
Lead	500		5.4
Selenium	<RL		5.4
Silver	1.1	J	5.4

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LABORATORY REPORT

Accura Sample ID #: **AC21023** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS185-LI-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	80		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	3.6		3.1

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	6.9		6.3
Barium	230		6.3
Cadmium	8.7		0.63
Chromium	52		6.3
Lead	340		6.3
Selenium	<RL		6.3
Silver	1.6	J	6.3

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LABORATORY REPORT

Accura Sample ID #: AC21024 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS185-D1(02)-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	35		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.64		0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	24		5.9
Barium	240		5.9
Cadmium	11		0.59
Chromium	18		5.9
Lead	480		5.9
Selenium	<RL		5.9
Silver	1.0	J	5.9

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LABORATORY REPORT

Accura Sample ID #: **AC21025** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE *Sample Matrix: SOIL*

Client Sample ID: **SS185-J1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.49	J	0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	6.5		5.9
Barium	350		5.9
Cadmium	11		0.59
Chromium	19		5.9
Lead	410		5.9
Selenium	<RL		5.9
Silver	0.84	J	5.9

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LABORATORY REPORT

Accura Sample ID #: **AC21026** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/9/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS157-D4-02-01MSD**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	81		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/18/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	4.4		3.1

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/16/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	3.6	J	31
Barium	440		31
Cadmium	11		3.1
Chromium	38		31
Lead	3000		31
Selenium	<RL		31
Silver	<RL		31

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LABORATORY REPORT

Accura Sample ID #: **AC21027** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS157-G3-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.58		0.58

ANALYSIS: Metals - RCRA Method Ref: *3050B/6010B*

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	38		5.8
Barium	300		5.8
Cadmium	40		0.58
Chromium	39		5.8
Lead	910		5.8
Selenium	<RL		5.8
Silver	5.8		5.8

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LABORATORY REPORT

Accura Sample ID #: **AC21028** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS157-G3-01-01DP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.53	J	0.59

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	35		5.9
Barium	280		5.9
Cadmium	41		0.59
Chromium	38		5.9
Lead	800		5.9
Selenium	<RL		5.9
Silver	5.1	J	5.9

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LABORATORY REPORT

Accura Sample ID #: **AC21029** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/10/01

Client Contact D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS178-01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.66		0.59

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	13000		29
Antimony	<RL		29
Arsenic	<RL		29
Barium	430		29
Beryllium	1.7	J	1.8
Cadmium	9.2		2.9
Calcium	70000		29
Chromium	170		29
Cobalt	8.7		5.9
Copper	140		29
Iron	60000		59
Lead	450		29
Magnesium	9200		29
Manganese	5000		29
Nickel	27		29
Potassium	2200		120
Selenium	<RL		29
Silver	<RL		29
Sodium	470	B	240
Thallium	<RL		29
Vanadium	330		5.9
Zinc	1200		590

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LABORATORY REPORT

Accura Sample ID #: AC21030 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-01-01-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.65		0.59

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	12000		5.9
Antimony	<RL		5.9
Arsenic	7.6		5.9
Barium	310		5.9
Beryllium	1.1		0.35
Cadmium	8.6		0.59
Calcium	33000		5.9
Chromium	78		5.9
Cobalt	7.4		1.2
Copper	77		5.9
Iron	44000		12
Lead	380		5.9
Magnesium	4400		5.9
Manganese	1400		5.9
Nickel	22		5.9
Potassium	1900		24
Selenium	<RL		5.9
Silver	<RL		5.9
Sodium	420	B	240
Thallium	<RL		5.9
Vanadium	180		1.2
Zinc	520		120

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC21031 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-L1-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	78		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.33	J	0.64

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	9400		6.4
Antimony	<RL		6.4
Arsenic	5.6	J	6.4
Barium	130		6.4
Beryllium	0.64		0.38
Cadmium	2.5		0.64
Calcium	32000		6.4
Chromium	12		6.4
Cobalt	6.6		1.3
Copper	22		6.4
Iron	16000		13
Lead	110		6.4
Magnesium	15000		6.4
Manganese	480		6.4
Nickel	16		6.4
Potassium	2000		26
Selenium	<RL		6.4
Silver	<RL		6.4
Sodium	170	B	130
Thallium	<RL		6.4
Vanadium	25		1.3
Zinc	160		130

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LABORATORY REPORT

Accura Sample ID #: AC21032 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-N1-01-01MSD

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	76		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.30	J	0.66

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	10000		6.6
Antimony	<RL		6.6
Arsenic	5.9	J	6.6
Barium	240		6.6
Beryllium	1.1		0.39
Cadmium	6.1		0.66
Calcium	19000		6.6
Chromium	25		6.6
Cobalt	10		1.3
Copper	66		6.6
Iron	24000		13
Lead	370		6.6
Magnesium	5200		6.6
Manganese	400		6.6
Nickel	35		6.6
Potassium	1800		26
Selenium	<RL		6.6
Silver	<RL		6.6
Sodium	290	B	130
Thallium	<RL		6.6
Vanadium	27		1.3
Zinc	530		130

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC21033** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS143-V1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	79		1.6

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.27	J	0.63

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	14		6.3
Barium	410		6.3
Cadmium	11		0.63
Chromium	26		6.3
Lead	790		6.3
Selenium	<RL		6.3
Silver	<RL		6.3

ACCURA ANALYTICAL LABORATORY, INC.

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC21034 **Accura Project #:** 28934

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS143-V1-01-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	80		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.85		0.63

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	14		6.3
Barium	380		31
Cadmium	9.6		3.1
Chromium	18	J	31
Lead	540		31
Selenium	<RL		31
Silver	<RL		31

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC21035** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS143-R2-01-01MSD**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	77		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/29/01 Date Analyzed: 10/29/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.39	J	0.65

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	6.9		6.5
Barium	280		6.5
Cadmium	6.5		0.65
Chromium	25		6.5
Lead	800		6.5
Selenium	<RL		6.5
Silver	4.5	J	6.5

ACCURA ANALYTICAL LABORATORY, INC.

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC21036** **Accura Project #:** **28934**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 10/10/01

Client Contact: D. BHOJWANI Date Received: 10/11/01

Client Project Number: 20074.515.018.1701.00 Date Reported: 11/13/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: ***SS143-01-01-01***

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 10/15/01 Date Analyzed: 10/15/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	84		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 10/23/01 Date Analyzed: 10/24/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.55	J	0.60

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 10/17/01 Date Analyzed: 10/19/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	13		6.0
Barium	310		6.0
Cadmium	7.5		0.60
Chromium	23		6.0
Lead	790		6.0
Selenium	<RL		6.0
Silver	<RL		6.0

Gateway Initiative

28654-69 TB

Sample ID	Lab ID	Date Collected	Analysis
SS160-002-01-01	19078	8/21/01	RCRA Metals
SS160-002-01-01MSD	19079	8/21/01	Total Lead
SS160-K02-01-01	19080	8/21/01	Total Lead
SS160-K02-01-01DP	19081	8/21/01	Total Lead
SS160-R01-01-01	19082	8/21/01	Total Lead
SS160-Q02-01-01	19083	8/21/01	Total Lead
SS160-P01-01-01	19084	8/21/01	Total Lead
SS160-N02-01-01	19085	8/21/01	Total Lead
SS178-C02-02-01	19086	8/21/01	RCRA Metals
SS178-C02-02-01DP	19087	8/21/01	RCRA Metals
SS160-H02-01-01	19088	8/21/01	Total Lead
SS160-I01-01-01	19089	8/21/01	Total Lead
SS178-G02-01-01	19090	8/21/01	Total Lead
SS141-A01-01-01	19091	8/21/01	RCRA Metals
SS160-G01-01-01	19092	8/21/01	Total Lead
SS160-J02-01-01	19093	8/21/01	RCRA Metals
SS178-H02-01-01	19094	8/21/01	Total Lead
SS158-F01-01-01	19095	8/21/01	Total Lead
SS160-M01-01-01	19096	8/21/01	Total Lead
SS160-002-02-01	19097	8/21/01	Total Lead
SS178-C02-01-01	19098	8/21/01	Total Lead
SS178-C02-01-01DP	19099	8/21/01	Total Lead
SS178-D01-01-01	19100	8/21/01	RCRA Metals
SS178-F02-01-01	19101	8/21/01	Total Lead
SS178-E01-01-01	19102	8/22/01	RCRA Metals
SS178-J01-01-01	19103	8/22/01	Total Lead
SS178-J01-02-01	19104	8/22/01	RCRA Metals
SS178-J01-01-01	19105	8/22/01	RCRA Metals
SS178-J01-02-01	19106	8/22/01	RCRA Metals
SS160-A01-01-01MSD	19107	8/22/01	RCRA Metals, VOC, SVOC, Pest/PCB
SS160-A01-02-01	19108	8/22/01	Total Lead
SS160-L01-01-01MSD	19109	8/22/01	Total Lead
SS178-A03-01-01	19110	8/22/01	TAL Metals, VOC, SVOC, Pest/PCB
SS178-A03-02-01	19111	8/22/01	TAL Metals
SS178-A03-02-01DP	19112	8/22/01	TAL Metal
SS178-B03-01-01MSD	19113	8/22/01	Total Lead
SS145-A01-01-01	19114	8/22/01	TAL Metals, VOC, SVOC, Pest/PCB
SS145-A01-01-01	19115	8/22/01	TAL Metals, VOC, SVOC, Pest/PCB

SS157-A05-03-01	19116	8/22/01	TAL Metals, VOC, SVOC, Pest/PCB
SS157-A01-03-01MSD	19117	8/22/01	RCRA Metals
SS157-C02-01-01	19118	8/22/01	Total Lead
SS157-C02-02-01	19119	8/22/01	Total Lead
SS157-D01-01-01	19120	8/22/01	Total Lead
SS157-B02-01-01	19121	8/22/01	Total Lead
SS157-B02-02-01MSD	19122	8/22/01	Total Lead

General

For the most part, batch QC was used by the laboratory. This often means the QC was used from other sampling or from some other site. Therefore, qualification can not be applied to this data. This is noted below. In addition, soil samples are reported on a dry weight basis.

Volatiles

1. Holding Time

All samples were analyzed within the required holding times.

2. Blanks

The following compound was found in the method blank: methylene chloride (1.2 ug/kg). Methylene chloride results less than ten times the blank results are qualified as nondetect U.

3. Surrogate Recovery

The following samples had surrogate recoveries outside control limits: SS160-A01-01-01MSD, SS178-A03-01-01, SS145-A01-01-01, SS145-A01-01-01DP, SS157-A05-01-01, and MS/MSD. The above samples are flagged J/UJ.

4. Matrix Spike

The MSD for toluene was outside control limits. Toluene is flagged J/UJ in the unspiked sample 19107.

5. Laboratory Control Sample

The LCS recoveries were within the required control limits.

6. Internal Standards

According to the laboratory narrative, the following samples had one or more internal standards outside control limits: SS160-A01-01-01MSD, SS178-A03-01-01, SS145-A01-01-01, SS145-A01-01-01DP, and SS157-A05-01-01. No internal standard information was supplied with the data package. The narrative states that toluene, tetrachloroethane, ethylbenzene, and xylenes should be estimated J in SS160-A01-01-01MSD, SS145-A01-01-01DP, and SS157-A05-01-01. The narrative states that no results for samples SS178-A03-01-01 and SS145-A01-01-01 were affected.

7. Other

The following samples underwent dilutions which raised the detection limits: SS160-A01-01-01MSD, and SS157-A05-01-01 (due to acetone).

Semivolatiles

1. Holding Times
All samples were extracted and analyzed within the required holding times.

2. Blanks
The blank was free of contamination.

3. Surrogate Recovery
The following samples had surrogate recoveries that were diluted out due to sample dilution: SS160-A01-01-01MSD, SS178-A03-01-01, SS145-A01-01-01, SS145-A01-01-01DP, and SS157-A05-01-01. Therefore, no qualification can be assessed based on surrogate recovery.

4. Matrix Spike
Sample 19116 was used as the MS. The following recoveries were outside control limits: 4-chloro-methylphenol (48), 4-nitrophenol (24, 26), pentachlorophenol (20, 24), 2,4-dinitrotoluene (41, 29RPD), and pyrene (-71, -26, 28RPD). These compounds are flagged J/UJ in the unspiked sample.

5. Laboratory Control Sample
All LCS recoveries were within the required control limits.

6. Internal Standards
No internal standard information was provided with the data package. Internal standards were not discussed in the laboratory narrative. No qualification will be applied.

7. Other
All SVOA samples underwent dilutions. Therefore, all SVOC results have elevated detection limits.

Pesticide/PCBs

1. Holding Times
All samples were analyzed within the required holding times.

2. Blanks
The PCB and pesticide blanks were free of contamination.

3. Surrogate Recovery
The following pesticide samples had surrogate recoveries that were diluted out due to sample dilution: SS160-A01-01-01MSD and SS157-A05-01-01. PCB samples SS178-A03-01-01, SS145-A01-01-01, SS145-A01-01-01DP, and SS157-A05-01-01had surrogate recoveries outside control limits. Positive PCB results in those samples are flagged as estimated J.

4. Matrix Spike
Sample 19110 was used as the PCB matrix spike sample. All MS recoveries were acceptable. Sample 19107 was used as the pesticide matrix spike sample. However, no results were reported.

5. Laboratory Control Sample
All pesticide and PCB LCS recoveries were within required control limits.

6. Other
All pesticide samples underwent dilutions and PCB sample SS145-A01-01-01DP. Therefore, all pesticide (and the above PCB sample) results have elevated detection limits.

Total Lead

1. Holding Times
All lead samples were analyzed within the required holding times.

2. Blanks
Lead blank results were acceptable.

3. Matrix Spike
No results were provided.

4. Laboratory Control Sample
No results were provided.

5. Other
The following samples underwent dilutions resulting in elevated detection limits: SS160-002-02-01, SS178-C02-01-01, SS178-C02-01-01DP, SS178-I01-01-01,SS178-B02-01-01MSD, and SS157-D01-01-01.

RCRA Metals

1. Holding Times
All holding times were met.

2. Blanks
The blanks were free of contamination.

3. Matrix Spike
One MS sample was reported: 19109. The arsenic MS recovery (-9) was outside control limits. Arsenic results are flagged J/UJ. All other MS/MSD recoveries were acceptable.

4. Laboratory Control Sample
LCS recoveries associated with these samples were within QC limits.

5. Other
The following sample underwent dilutions which resulted in elevated detection limits: SS178-C02-01-01 and SS178-C02-01-01DP.

TAL Metals

1. Holding Times
All holding times were met.

2. Blanks
The following compounds were detected in the blank greater than the reporting limits: aluminum (11), calcium (120), and iron (12). Detections of these compounds less than 10 times the blank results are flagged nondetect, U. Other compounds were detected less than the reporting limits.

3. Matrix Spike
One MS sample was reported: 19079. The following compounds had recoveries outside control limits: aluminum, antimony (0,0), calcium, iron, lead (4199, 73), magnesium, and potassium (139, 140). These compounds are flagged J/UJ in all corresponding samples.

4 Laboratory Control Sample
The LC sample had the following compound high outside control limits: sodium (126, 128). All corresponding sodium results are flagged J/UJ.

5. Other
The following sample underwent dilutions which resulted in elevated detection limits: SS178-A03-02-01DP.

Data Reviewed by: T. Balla Date: 11/5/01

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31038

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc. Billing address: Same

Address: 750 E. Bunker Ct. Suite 500 Client P.O. #

Report Sent to: (Client Contact): Deepak Bhojwani

Contact Phone # (847) 918-4005 Fax # (847) 918-4055

Project Name: Gateway Initiative

Project Number: 20074.515.018.1601.00

For Laboratory Use Only

Custody Seal: Y N Page 1 OF 5

QC Level: N 1 2 3 4 Init/Temp: BAB / 2°C

Sample Condition: AAL Lab Project # 28669

Sampler's (signature): Sampler: (printed) Dave Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	RCRA Metals	Remarks	Accura Sample ID No. A[illegible]
SS160-002-01-01	8/21/01 9:05		X	S	Y		1		X		19078
SS160-002-01-01MSD	13:50						2	X			79
SS160-K02-01-01	14:10						1	X			80
SS160-K02-01-01DP	14:10						1	X			81
SS160-R01-01-01	9:35						1	X			82
SS160-Q02-01-01	8:55						1	X			83
SS160-P01-01-01	8:40						1	X			84
SS160-N02-01-01	8:30						1	X			85
SS178-C02-02-01	16:00						1		X		86
SS178-C02-02-01DP	16:00						1		X		19087

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
	8/21/01 20:00	FEDEX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FEDEX	08-23-01 1505		08-23-01 1505	STD

(W = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC 07.2 XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31058

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc. Billing address: Same

Address: 750 E. Bunker Ct., Suite 500 Client P.O. #

Report Sent to: (Client Contact): Deepak Bhojwani

Contact Phone # (847)918-4005 Fax # (847) 918-4055

Project Name: Gateway Initiative

Project Number: 20074.515.018.1601.00

For Laboratory Use Only

Custody Seal: Y N Page 2 OF 5

QC Level: N 1 2 3 4 Init/Temp: RGB/2°C

Sample Condition: AAL Lab Project # 28669

Samplers (signature): Samplers (printed): Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	RCRA Metals	Remarks	Accura Sample ID No.
SS160-H02-01-01	8/21/01 14:10		X	S	Y		1	X			19088
SS160-I01-01-01	14:30						1	X			89
SS178-G02-01-01	15:23						1	X			90
SS141-A01-01-01	7:30						1		X		91
SS160-G01-01-01	13:55						1	X			92
SS160-J02-01-01	13:35						1		X		93
SS178-H02-01-01	15:55						1	X			94
SS158-F01-01-01	14:18						1	X			95
SS160-M01-01-01	14:20						1	X			96
SS160-002-02-01	9:15						1	X			19097

ext. 23-01

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
	8/22/01 10:00	FEDEX		
Relinquished By: FEDEX	Date / Time 08.23.01/1505	Received By:	Date / Time 08.23.01/1505	Turnaround Time Requested: STD

Matrix: (S = Soil/Solid, W = Water, L = Liquid, C = Caulk) (SL = Sludge) (A = Air Sample, F = Foods) (M = Miscellaneous)

31037

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449 8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc.
Billing address: Same
Address: 750 E. Bunker Ct., Suite 500
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initiative
Project Number: 20074.515.018.1601.00

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Custody Seal: Y N
Page 3 OF 5
QC Level: N 1 2 3 4
Init/Temp: ~~[illegible]~~/2°C
Sample Condition:
AAL Lab Project # 28669

Samplers: (signature) [signature]
Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	Total Lead	RCRA Metals	VOCs	% Solids	SVOCs	Pesticides	PCB's			Remarks	Accura Sample ID No. ~~AB~~ C 08.23.01
SS178-C02-01-01	8/21/01 15:50		X	S	Y		1	X										19098
SS178-C02-01-01DP	15:50						1	X										99
SS178-D01-01-01	16:20						1		X									19100
SS178-F02-01-01	8/22/01 8:50						1	X										01
SS178-E01-01-01	8:00						1		X									02
SS178-I01-01-01	8:15						1	X										03
SS178-I01-02-01	8:18						1		X									04
SS178-J01-01-01	8:30						1		X									05
SS178-J01-02-01	8:35						1		X									06
SS160-A01-01-01MSD	9:35						9		X	X	X	X	X	X				19107

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	8/22/01 20:00	FEDEX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FEDEX	08.23.01 / 1505	[signature]	08.23.01 / 1505	STD

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97 2 XLS

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Environmental Analytical Services

31036

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Ray F. Weston, Inc. Billing address: Same

Address: 750 E. Bunker Ct., Suite 500 Client P.O. #

Report Sent to: (Client Contact): Deepak Bhagwani

Contact Phone # (847) 918-4005 Fax # (847) 918-4055

Project Name: Gateway Initiative

Project Number: 20074.515.018.1601.00

For Laboratory Use Only

Custody Seal: Y N Page 4 OF 5

QC Level: N 1 2 3 4 Init/Temp: BB/2c

Sample Condition: AAL Lab Project # 28669

Samplers: (signature)

Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	RCRA Metals	VOCs	% Solids	SVOCs	Pesticides	PCBs	TAL Metals	Remarks	Accura Sample ID No. ABC
SS160-A01-02-01	8/22/01 9:25		X	S	Y		1		X								19108
SS160-L01-01-01MSD	10:15						2	X	MK 8/23/01								09
SS178-A03-01-01	11:35						6		X	X	X	X	X	X			10
SS178-A03-02-01	11:45						1		X					X			11
SS178-A03-02-01DP	11:45						1		X					X			12
SS178-B02-01-01MSD	10:50						2	X									13
SS145-A01-01-01	13:40						6		X	X	X	X	X	X			14
SS145-A01-01-01DP	13:40						6		X	X	X	X	X	X			15
SS157-A05-01-01	16:25						6		X	X	X	X	X	X			16
SS157-A01-03-01MSD	16:10						2		X								19117

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
	8/22/01 20:00	FEDEX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FEDEX	08-23-01 1505		08-23-01 1505	STD

Matrix Codes: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

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Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Roy F. Weston, Inc.
Billing address: Same
Address: 750 E. Bunker Ct. Suite 500
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # (847) 918-4005 Fax # (847) 918-4055
Project Name: Gateway Initiative
Project Number: 20074.515.018.1601.00

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Custody Seal: Y N
Page 5 OF 5
QC Level: N 1 2 3 4
Init/Temp: BB/2°C
Sample Condition:
AAL Lab Project # 28669

Samplers: (signature)
Samplers: (printed) Doug Ogilvie

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	Remarks	Accura Sample ID No.
SS157-C07-01-01	8/22/01 15:00		X	S	Y		1	X		19118
SS157-C07-02-01	15:05						1	X		19
SS157-D01-01-01	15:15						1	X		20
SS157-B02-01-01	15:40						1	X		21
SS157-B02-02-01 MSD	15:45						2	X		22

08-25-01 BB

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
	8/22/01 20:00	FEDEX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FEDEX	08-23-01 1505		08-23-01 1505	STD

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS

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LABORATORY REPORT

Accura Sample ID #: **AC19078** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-O02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	96		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.076	J	0.52

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	4.0	J	5.2
Barium	71		5.2
Cadmium	2.1		0.52
Chromium	13		5.2
Lead	110		5.2
Selenium	<RL		5.2
Silver	0.71	J	5.2

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LABORATORY REPORT

Accura Sample ID #: AC19079 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS160-O02-01-01MSD

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	210		5.4

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LABORATORY REPORT

Accura Sample ID #: **AC19080** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-K02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	170		5.5

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LABORATORY REPORT

Accura Sample ID #: **AC19081** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-K02-01-01DP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	240		5.5

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LABORATORY REPORT

Accura Sample ID #: **AC19082** **Accura Project #:** **28669**

Client: ***Roy F. Weston, Inc.-Illinois*** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-R01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	300		5.6

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LABORATORY REPORT

Accura Sample ID #: AC19083 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS160-Q02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	140		5.8

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LABORATORY REPORT

Accura Sample ID #: **AC19084** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-P01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	430		5.4

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LABORATORY REPORT

Accura Sample ID #: AC19085 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS160-N02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	330		5.5

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LABORATORY REPORT

Accura Sample ID #: **AC19086** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS178-C02-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	82		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/07/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	66		37

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	7.4		6.1
Barium	340		6.1
Cadmium	5.7		0.61
Chromium	21		6.1
Lead	730		6.1
Selenium	16		6.1
Silver	<RL		6.1

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LABORATORY REPORT

Accura Sample ID #: AC19087 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-C02-02-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	82		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/07/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	130		120

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	<RL		6.1
Barium	350		6.1
Cadmium	5.5		0.61
Chromium	20		6.1
Lead	600		6.1
Selenium	20		6.1
Silver	<RL		6.1

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LABORATORY REPORT

Accura Sample ID #: **AC19088** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-H02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	95		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	34		5.3

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LABORATORY REPORT

Accura Sample ID #: AC19089 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: *GATEWAY INITIATIVE* *Sample Matrix:* *SOIL*

Client Sample ID: SS160-I01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	30		5.4

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LABORATORY REPORT

Accura Sample ID #: **AC19090** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: *GATEWAY INITIATIVE* *Sample Matrix:* SOIL

Client Sample ID: **SS178-G02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	96		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	120		5.2

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LABORATORY REPORT

Accura Sample ID #: AC19091 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS141-A01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.13	J	0.54

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	11		5.4
Barium	110		5.4
Cadmium	1.0		0.54
Chromium	11		5.4
Lead	16		5.4
Selenium	<RL		5.4
Silver	<RL		5.4

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LABORATORY REPORT

Accura Sample ID #: **AC19092** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-G01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	260		5.5

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LABORATORY REPORT

Accura Sample ID #: AC19093 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS160-J02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	94		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.31	J	0.53

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	3.8	J	5.3
Barium	230		5.3
Cadmium	8.5		0.53
Chromium	13		5.3
Lead	330		5.3
Selenium	<RL		5.3
Silver	<RL		5.3

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LABORATORY REPORT

Accura Sample ID #: **AC19094** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS178-H02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	88		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	160		5.7

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LABORATORY REPORT

Accura Sample ID #: AC19095 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS158-F01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	290		5.6

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LABORATORY REPORT

Accura Sample ID #: **AC19096** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-M01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	200		5.4

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LABORATORY REPORT

Accura Sample ID #: AC19097 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS160-O02-02-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	94		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	240		27

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LABORATORY REPORT

Accura Sample ID #: **AC19098** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS178-C02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	88		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	2500		28

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LABORATORY REPORT

Accura Sample ID #: AC19099 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-C02-01-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1700		29

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LABORATORY REPORT

Accura Sample ID #: ***AC19100*** **Accura Project #:** ***28669***

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/21/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-D01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.39	J	0.55

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	5.9		5.5
Barium	210		5.5
Cadmium	2.8		0.55
Chromium	15	B	5.5
Lead	180		5.5
Selenium	17		5.5
Silver	<RL		5.5

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LABORATORY REPORT

Accura Sample ID #: AC19101 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-F02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	530		5.4

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LABORATORY REPORT

Accura Sample ID #: **AC19102** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS178-E01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.12	J	0.58

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	6.4		5.8
Barium	150		29
Cadmium	3.3		2.9
Chromium	11	JB	29
Lead	250		29
Selenium	250		29
Silver	0.95	J	29

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LABORATORY REPORT

Accura Sample ID #: AC19103 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-I01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	95		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	320		26

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LABORATORY REPORT

Accura Sample ID #: **AC19104** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS178-I01-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.071	J	0.56

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	6.4		5.6
Barium	220		5.6
Cadmium	3.2		0.56
Chromium	16	B	5.6
Lead	87		5.6
Selenium	23		5.6
Silver	<RL		5.6

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LABORATORY REPORT

Accura Sample ID #: AC19105 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-J01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.42	J	0.56

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	9.2		5.6
Barium	340		5.6
Cadmium	6.8		0.56
Chromium	110		5.6
Lead	580		5.6
Selenium	40		5.6
Silver	1.0	J	5.6

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LABORATORY REPORT

Accura Sample ID #: **AC19106** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS178-J01-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.30	J	0.56

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	11		5.6
Barium	330		28
Cadmium	9.8		2.8
Chromium	110		28
Lead	1100		28
Selenium	180		28
Silver	<RL		28

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LABORATORY REPORT

Accura Sample ID #: AC19107 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS160-A01-01-01MSD

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.85		0.57

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/08/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	10		5.7
Barium	260		29
Cadmium	7.9		2.9
Chromium	22		29
Lead	670		29
Selenium	10	J	29
Silver	<RL		29

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/30/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		19
Aroclor-1221	<RL		38
Aroclor-1232	<RL		38
Aroclor-1242	<RL		19
Aroclor-1248	<RL		19
Aroclor-1254	<RL		19
Aroclor-1260	220	J	19

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	240	J	380
4,4'-DDE	890		380
4,4'-DDT	2800		770

Aldrin	<RL		380
alpha-BHC	<RL		380
alpha-Endosulfan	<RL		380
beta-BHC	<RL		380
beta-Endosulfan	<RL		380
delta-BHC	<RL		380
Dieldrin	<RL		380
Endosulfan sulfate	<RL		380
Endrin	<RL		380
Endrin aldehyde	<RL		380
Endrin ketone	<RL		380
gamma-BHC (Lindane)	<RL		380
Heptachlor	<RL		380
Heptachlor epoxide	<RL		380
Methoxychlor	<RL		1900
Total Chlordane-Technical	<RL		3800
Toxaphene	<RL		19000

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 09/06/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		7700
1,2-Dichlorobenzene	<RL		7700
1,3-Dichlorobenzene	<RL		7700
1,4-Dichlorobenzene	<RL		7700
1-Methylnaphthalene	<RL		7700
2,4,5-Trichlorophenol	<RL		7700
2,4,6-Trichlorophenol	<RL		7700
2,4-Dichlorophenol	<RL		7700
2,4-Dimethylphenol	<RL		7700
2,4-Dinitrophenol	<RL		37000
2,4-Dinitrotoluene	<RL		7700
2,6-Dinitrotoluene	<RL		7700
2-Chloronaphthalene	<RL		7700
2-Chlorophenol	<RL		7700
2-Methylnaphthalene	<RL		7700
2-Methylphenol	<RL		7700
2-Nitroaniline	<RL		15000
2-Nitrophenol	<RL		7700
3,3'-Dichlorobenzidine	<RL		7700
3,4-Methylphenol	<RL		15000
3-Nitroaniline	<RL		15000
4,6-Dinitro-2-methylphenol	<RL		15000
4-Bromophenyl phenyl ether	<RL		7700
4-Chloro-3-methylphenol	<RL		7700
4-Chloroaniline	<RL		7700
4-Chlorophenyl phenyl ether	<RL		7700
4-Nitroaniline	<RL		15000
4-Nitrophenol	<RL		15000
Acenaphthene	<RL		7700
Acenaphthylene	<RL		7700
Anthracene	<RL		7700
Benzo(a)anthracene	1100	J	7700
Benzo(a)pyrene	<RL		7700
Benzo(b)fluoranthene	<RL		7700

Benzo(g,h,i)perylene	<RL		7700
Benzo(k)fluoranthene	<RL		7700
Benzoic acid	<RL		37000
Benzyl alcohol	<RL		7700
bis(2-Chloroethoxy)methane	<RL		7700
bis(2-Chloroethyl)ether	<RL		7700
bis(2-Chloroisopropyl)ether	<RL		7700
bis(2-Ethylhexyl)phthalate	<RL		7700
Butyl benzyl phthalate	<RL		7700
Chrysene	1400	J	7700
Dibenz(a,h)anthracene	<RL		7700
Dibenzofuran	<RL		7700
Diethylphthalate	<RL		7700
Dimethylphthalate	<RL		7700
Di-n-butylphthalate	<RL		7700
Di-n-octylphthalate	<RL		7700
Fluoranthene	2700	J	7700
Fluorene	<RL		7700
Hexachlorobenzene	<RL		7700
Hexachlorobutadiene	<RL		7700
Hexachlorocyclopentadiene	<RL		7700
Hexachloroethane	<RL		7700
Indeno(1,2,3-cd)pyrene	<RL		7700
Isophorone	<RL		7700
Naphthalene	<RL		7700
Nitrobenzene	<RL		7700
N-Nitroso-di-n-propylamine	<RL		7700
N-Nitrosodiphenylamine	<RL		7700
Pentachlorophenol	<RL		15000
Phenanthrene	1500	J	7700
Phenol	<RL		7700
Pyrene	2000	J	7700

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/27/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		9.5
1,1,2,2-Tetrachloroethane	<RL		9.5
1,1,2-Trichloroethane	<RL		9.5
1,1-Dichloroethane	<RL		9.5
1,1-Dichloroethene	<RL		9.5
1,2-Dichloroethane	<RL		9.5
1,2-Dichloropropane	<RL		9.5
2-Butanone (MEK)	25	J	95
2-Chloroethyl vinyl ether	<RL		95
2-Hexanone (MBK)	<RL		95
4-Methyl-2-pentanone (MIBK)	<RL		95
Acetone	140		120
Benzene	4.5	J	9.5
Bromodichloromethane	<RL		9.5
Bromoform	<RL		9.5
Bromomethane	<RL		9.5
Carbon disulfide	5.6	J	19
Carbon tetrachloride	<RL		9.5
Chlorobenzene	<RL		9.5

Chloroethane	6.4	J	9.5
Chloroform	<RL		9.5
Chloromethane	<RL		9.5
cis-1,2-Dichloroethene	<RL		9.5
cis-1,3-Dichloropropene	<RL		9.5
Dibromochloromethane	<RL		9.5
Ethylbenzene	3.1	J	9.5
Methylene chloride	<RL		19
Styrene	<RL		9.5
Tetrachloroethene	3.3	J	9.5
Toluene	25		9.5
trans-1,2-Dichloroethene	<RL		9.5
trans-1,3-Dichloropropene	<RL		9.5
Trichloroethene	<RL		9.5
Trichlorofluoromethane	<RL		9.5
Vinyl acetate	<RL		190
Vinyl chloride	<RL		9.5
Xylenes (Total)	14		9.5

ANALYSIS: X_PCB_Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/30/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	104		

ANALYSIS: X_Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 20-151)	<RL	DO	
Tetrachloro-m-xylene (Range 11-142)	<RL	DO	

ANALYSIS: X_VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/27/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	113		
4-Bromofluorobenzene (Range 75-135)	121		
Toluene-d8 (Range 83-126)	135	Z	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 09/06/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: AC19108 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS160-A01-02-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	86		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.22	J	0.58

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/08/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	12		5.8
Barium	290		29
Cadmium	6.1		2.9
Chromium	33		29
Lead	330		29
Selenium	15	J	29
Silver	<RL		29

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LABORATORY REPORT

Accura Sample ID #: **AC19109** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS160-L01-01-01MSD**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	83		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	100		6.0

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LABORATORY REPORT

Accura Sample ID #: AC19110 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-A03-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	78		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.23	J	0.64

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	12000		6.4
Antimony	<RL		6.4
Arsenic	10		6.4
Barium	220		0.38
Beryllium	0.72		0.64
Cadmium	19		6.4
Calcium	13000		6.4
Chromium	110		1.3
Cobalt	18		6.4
Copper	3300		13
Iron	23000		6.4
Lead	330		6.4
Magnesium	5900		6.4
Manganese	510		6.4
Nickel	780		26
Potassium	2200		6.4
Selenium	11		6.4
Silver	1.2	J	130
Sodium	180	BE	6.4
Thallium	<RL		1.3
Vanadium	30		6.4
Zinc	2200		130

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep 08/28/2001 Date Analyzed: 08/30/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		21
Aroclor-1221	<RL		42
Aroclor-1232	<RL		42
Aroclor-1242	<RL		21
Aroclor-1248	<RL		21
Aroclor-1254	<RL		21
Aroclor-1260	100		21

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		21
4,4'-DDE	9.7	J	21
4,4'-DDT	<RL		420
Aldrin	<RL		21
alpha-BHC	<RL		21
alpha-Endosulfan	<RL		21
beta-BHC	<RL		21
beta-Endosulfan	<RL		21
delta-BHC	<RL		21
Dieldrin	220		21
Endosulfan sulfate	<RL		21
Endrin	<RL		21
Endrin aldehyde	<RL		21
Endrin ketone	<RL		21
gamma-BHC (Lindane)	<RL		21
Heptachlor	<RL		21
Heptachlor epoxide	4.8	J	21
Methoxychlor	<RL		110
Total Chlordane-Technical	100	J	210
Toxaphene	<RL		1100

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 09/06/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		8500
1,2-Dichlorobenzene	<RL		8500
1,3-Dichlorobenzene	<RL		8500
1,4-Dichlorobenzene	<RL		8500
1-Methylnaphthalene	<RL		8500
2,4,5-Trichlorophenol	<RL		8500
2,4,6-Trichlorophenol	<RL		8500
2,4-Dichlorophenol	<RL		8500
2,4-Dimethylphenol	<RL		8500
2,4-Dinitrophenol	<RL		41000
2,4-Dinitrotoluene	<RL		8500
2,6-Dinitrotoluene	<RL		8500
2-Chloronaphthalene	<RL		8500
2-Chlorophenol	<RL		8500
2-Methylnaphthalene	<RL		8500

2-Methylphenol	<RL		8500
2-Nitroaniline	<RL		17000
2-Nitrophenol	<RL		8500
3,3'-Dichlorobenzidine	<RL		8500
3,4-Methylphenol	<RL		17000
3-Nitroaniline	<RL		17000
4,6-Dinitro-2-methylphenol	<RL		17000
4-Bromophenyl phenyl ether	<RL		8500
4-Chloro-3-methylphenol	<RL		8500
4-Chloroaniline	<RL		8500
4-Chlorophenyl phenyl ether	<RL		8500
4-Nitroaniline	<RL		17000
4-Nitrophenol	<RL		17000
Acenaphthene	<RL		8500
Acenaphthylene	<RL		8500
Anthracene	<RL		8500
Benzo(a)anthracene	<RL		8500
Benzo(a)pyrene	<RL		8500
Benzo(b)fluoranthene	<RL		8500
Benzo(g,h,i)perylene	<RL		8500
Benzo(k)fluoranthene	<RL		8500
Benzoic acid	<RL		41000
Benzyl alcohol	<RL		8500
bis(2-Chloroethoxy)methane	<RL		8500
bis(2-Chloroethyl)ether	<RL		8500
bis(2-Chloroisopropyl)ether	<RL		8500
bis(2-Ethylhexyl)phthalate	<RL		8500
Butyl benzyl phthalate	<RL		8500
Chrysene	<RL		8500
Dibenz(a,h)anthracene	<RL		8500
Dibenzofuran	<RL		8500
Diethylphthalate	<RL		8500
Dimethylphthalate	<RL		8500
Di-n-butylphthalate	<RL		8500
Di-n-octylphthalate	<RL		8500
Fluoranthene	<RL		8500
Fluorene	<RL		8500
Hexachlorobenzene	<RL		8500
Hexachlorobutadiene	<RL		8500
Hexachlorocyclopentadiene	<RL		8500
Hexachloroethane	<RL		8500
Indeno(1,2,3-cd)pyrene	<RL		8500
Isophorone	<RL		8500
Naphthalene	<RL		8500
Nitrobenzene	<RL		8500
N-Nitroso-di-n-propylamine	<RL		8500
N-Nitrosodiphenylamine	<RL		8500
Pentachlorophenol	<RL		17000
Phenanthrene	<RL		8500
Phenol	<RL		8500
Pyrene	1400	J	8500

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/27/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits

1,1,1-Trichloroethane	<RL		6.0
1,1,2,2-Tetrachloroethane	<RL		6.0
1,1,2-Trichloroethane	<RL		6.0
1,1-Dichloroethane	<RL		6.0
1,1-Dichloroethene	<RL		6.0
1,2-Dichloroethane	<RL		6.0
1,2-Dichloropropane	<RL		6.0
2-Butanone (MEK)	<RL		60
2-Chloroethyl vinyl ether	<RL		60
2-Hexanone (MBK)	<RL		60
4-Methyl-2-pentanone (MIBK)	<RL		60
Acetone	92		60
Benzene	1.9	J	6.0
Bromodichloromethane	<RL		6.0
Bromoform	<RL		6.0
Bromomethane	<RL		6.0
Carbon disulfide	1.5	J	12
Carbon tetrachloride	<RL		6.0
Chlorobenzene	<RL		6.0
Chloroethane	9.3		6.0
Chloroform	<RL		6.0
Chloromethane	<RL		6.0
cis-1,2-Dichloroethene	<RL		6.0
cis-1,3-Dichloropropene	<RL		6.0
Dibromochloromethane	1.8	J	6.0
Ethylbenzene	1.8	J	6.0
Methylene chloride	<RL		12
Styrene	<RL		6.0
Tetrachloroethene	1.8	J	6.0
Toluene	3.9	J	6.0
trans-1,2-Dichloroethene	<RL		6.0
trans-1,3-Dichloropropene	<RL		6.0
Trichloroethene	<RL		6.0
Trichlorofluoromethane	1.2	J	6.0
Vinyl acetate	<RL		120
Vinyl chloride	<RL		6.0
Xylenes (Total)	7.2		6.0

ANALYSIS: X_PCB_Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/30/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	706	Z	

ANALYSIS: X_Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 20-151)	750	Z	
Tetrachloro-m-xylene (Range 11-142)	73		

ANALYSIS: X_VOC_Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/27/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	115		
4-Bromofluorobenzene (Range 75-135)	121		

Toluene-d8 (Range 83-126)	137	Z	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 09/06/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: **AC19111** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS178-A03-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	80		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.29	J	0.63

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	16000		6.3
Antimony	<RL		6.3
Arsenic	12		6.3
Barium	240		0.38
Beryllium	0.98		0.63
Cadmium	21		6.3
Calcium	14000		6.3
Chromium	44		1.3
Cobalt	28		6.3
Copper	1300		13
Iron	31000		6.3
Lead	280		6.3
Magnesium	6900		6.3
Manganese	610		6.3
Nickel	640		25
Potassium	2800		6.3
Selenium	13		6.3
Silver	0.86	J	130
Sodium	200	BE	6.3
Thallium	<RL		1.3
Vanadium	40		6.3
Zinc	1400		130

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LABORATORY REPORT

Accura Sample ID #: AC19112 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS178-A03-02-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	78		1.0

ANALYSIS: Metals - Mercury - TAL Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.25	J	0.64

ANALYSIS: Metals - TAL Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aluminum	24000		32
Antimony	<RL		32
Arsenic	17		6.4
Barium	350		32
Beryllium	1.3	J	1.9
Cadmium	26		3.2
Calcium	13000		32
Chromium	46		32
Cobalt	38		6.4
Copper	1500		32
Iron	44000		64
Lead	360		32
Magnesium	9400		32
Manganese	980		32
Nickel	890		32
Potassium	3900		130
Selenium	43		32
Silver	<RL		32
Sodium	790	BE	640
Thallium	<RL		32
Vanadium	53		6.4
Zinc	1900		130

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LABORATORY REPORT

Accura Sample ID #: **AC19113** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS178-B02-01-01MSD**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	98		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	150		26

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LABORATORY REPORT

Accura Sample ID #: AC19114 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS145-A01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	78		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.32	J	0.64

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/08/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	14		6.4
Barium	140		32
Cadmium	14		3.2
Chromium	52		32
Lead	260		32
Selenium	20	J	32
Silver	<RL		32

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/30/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		21
Aroclor-1221	<RL		43
Aroclor-1232	<RL		43
Aroclor-1242	<RL		21
Aroclor-1248	<RL		21
Aroclor-1254	<RL		21
Aroclor-1260	370	J	21

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		21
4,4'-DDE	<RL		21
4,4'-DDT	<RL		430

Aldrin	<RL		21
alpha-BHC	<RL		21
alpha-Endosulfan	<RL		21
beta-BHC	<RL		21
beta-Endosulfan	<RL		21
delta-BHC	<RL		21
Dieldrin	<RL		21
Endosulfan sulfate	<RL		21
Endrin	<RL		21
Endrin aldehyde	<RL		21
Endrin ketone	<RL		21
gamma-BHC (Lindane)	<RL		21
Heptachlor	<RL		21
Heptachlor epoxide	<RL		21
Methoxychlor	<RL		1100
Total Chlordane-Technical	<RL		210
Toxaphene	<RL		1100

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 09/06/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		8500
1,2-Dichlorobenzene	<RL		8500
1,3-Dichlorobenzene	<RL		8500
1,4-Dichlorobenzene	<RL		8500
1-Methylnaphthalene	<RL		8500
2,4,5-Trichlorophenol	<RL		8500
2,4,6-Trichlorophenol	<RL		8500
2,4-Dichlorophenol	<RL		8500
2,4-Dimethylphenol	<RL		8500
2,4-Dinitrophenol	<RL		41000
2,4-Dinitrotoluene	<RL		8500
2,6-Dinitrotoluene	<RL		8500
2-Chloronaphthalene	<RL		8500
2-Chlorophenol	<RL		8500
2-Methylnaphthalene	<RL		8500
2-Methylphenol	<RL		8500
2-Nitroaniline	<RL		17000
2-Nitrophenol	<RL		8500
3,3'-Dichlorobenzidine	<RL		8500
3,4-Methylphenol	<RL		17000
3-Nitroaniline	<RL		17000
4,6-Dinitro-2-methylphenol	<RL		17000
4-Bromophenyl phenyl ether	<RL		8500
4-Chloro-3-methylphenol	<RL		8500
4-Chloroaniline	<RL		8500
4-Chlorophenyl phenyl ether	<RL		8500
4-Nitroaniline	<RL		17000
4-Nitrophenol	<RL		17000
Acenaphthene	<RL		8500
Acenaphthylene	<RL		8500
Anthracene	<RL		8500
Benzo(a)anthracene	3400	J	8500
Benzo(a)pyrene	<RL		8500
Benzo(b)fluoranthene	3600	J	8500

Benzo(g,h,i)perylene	<RL		8500
Benzo(k)fluoranthene	3100	J	8500
Benzoic acid	<RL		41000
Benzyl alcohol	<RL		8500
bis(2-Chloroethoxy)methane	<RL		8500
bis(2-Chloroethyl)ether	<RL		8500
bis(2-Chloroisopropyl)ether	<RL		8500
bis(2-Ethylhexyl)phthalate	<RL		8500
Butyl benzyl phthalate	<RL		8500
Chrysene	4300	J	8500
Dibenz(a,h)anthracene	<RL		8500
Dibenzofuran	<RL		8500
Diethylphthalate	<RL		8500
Dimethylphthalate	<RL		8500
Di-n-butylphthalate	<RL		8500
Di-n-octylphthalate	<RL		8500
Fluoranthene	5100	J	8500
Fluorene	<RL		8500
Hexachlorobenzene	<RL		8500
Hexachlorobutadiene	<RL		8500
Hexachlorocyclopentadiene	<RL		8500
Hexachloroethane	<RL		8500
Indeno(1,2,3-cd)pyrene	<RL		8500
Isophorone	<RL		8500
Naphthalene	<RL		8500
Nitrobenzene	<RL		8500
N-Nitroso-di-n-propylamine	<RL		8500
N-Nitrosodiphenylamine	<RL		8500
Pentachlorophenol	<RL		17000
Phenanthrene	3200	J	8500
Phenol	<RL		8500
Pyrene	6000	J	8500

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/27/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		7.7
1,1,2,2-Tetrachloroethane	<RL		7.7
1,1,2-Trichloroethane	<RL		7.7
1,1-Dichloroethane	<RL		7.7
1,1-Dichloroethene	<RL		7.7
1,2-Dichloroethane	<RL		7.7
1,2-Dichloropropane	<RL		7.7
2-Butanone (MEK)	15	J	77
2-Chloroethyl vinyl ether	<RL		77
2-Hexanone (MBK)	<RL		77
4-Methyl-2-pentanone (MIBK)	<RL		77
Acetone	150	J	77
Benzene	4.1	J	7.7
Bromodichloromethane	<RL		7.7
Bromoform	<RL		7.7
Bromomethane	<RL		7.7
Carbon disulfide	24	J	15
Carbon tetrachloride	<RL		7.7
Chlorobenzene	<RL		7.7

Chloroethane	<RL		7.7
Chloroform	<RL		7.7
Chloromethane	<RL		7.7
cis-1,2-Dichloroethene	<RL		7.7
cis-1,3-Dichloropropene	<RL		7.7
Dibromochloromethane	<RL		7.7
Ethylbenzene	2.3	J	7.7
Methylene chloride	<RL		15
Styrene	<RL		7.7
Tetrachloroethene	1.9	J	7.7
Toluene	6.5	J	7.7
trans-1,2-Dichloroethene	<RL		7.7
trans-1,3-Dichloropropene	<RL		7.7
Trichloroethene	<RL		7.7
Trichlorofluoromethane	<RL		7.7
Vinyl acetate	<RL		150
Vinyl chloride	<RL	J	7.7
Xylenes (Total)	8.0		7.7

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/30/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	520	Z	

ANALYSIS: X Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 20-151)	340	Z	
Tetrachloro-m-xylene (Range 11-142)	72		

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/27/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	107		
4-Bromofluorobenzene (Range 75-135)	124		
Toluene-d8 (Range 83-126)	137	Z	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 09/06/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: AC19115 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS145-A01-01-01DP

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	77		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.21	J	0.65

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/11/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	24		6.5
Barium	130		32
Cadmium	13		3.2
Chromium	37		32
Lead	250		32
Selenium	18	J	32
Silver	<RL		32

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		110
Aroclor-1221	<RL		220
Aroclor-1232	<RL		220
Aroclor-1242	<RL		110
Aroclor-1248	<RL		110
Aroclor-1254	<RL		110
Aroclor-1260	690	J	110

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		22
4,4'-DDE	<RL		22
4,4'-DDT	<RL		430

Aldrin	<RL		22
alpha-BHC	<RL		22
alpha-Endosulfan	<RL		22
beta-BHC	<RL		22
beta-Endosulfan	<RL		22
delta-BHC	<RL		22
Dieldrin	<RL		22
Endosulfan sulfate	<RL		22
Endrin	<RL		22
Endrin aldehyde	<RL		22
Endrin ketone	<RL		22
gamma-BHC (Lindane)	<RL		22
Heptachlor	<RL		22
Heptachlor epoxide	<RL		22
Methoxychlor	<RL		1100
Total Chlordane-Technical	<RL		220
Toxaphene	<RL		1100

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 09/06/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		8600
1,2-Dichlorobenzene	<RL		8600
1,3-Dichlorobenzene	<RL		8600
1,4-Dichlorobenzene	<RL		8600
1-Methylnaphthalene	<RL		8600
2,4,5-Trichlorophenol	<RL		8600
2,4,6-Trichlorophenol	<RL		8600
2,4-Dichlorophenol	<RL		8600
2,4-Dimethylphenol	<RL		8600
2,4-Dinitrophenol	<RL		42000
2,4-Dinitrotoluene	<RL		8600
2,6-Dinitrotoluene	<RL		8600
2-Chloronaphthalene	<RL		8600
2-Chlorophenol	<RL		8600
2-Methylnaphthalene	<RL		8600
2-Methylphenol	<RL		8600
2-Nitroaniline	<RL		17000
2-Nitrophenol	<RL		8600
3,3'-Dichlorobenzidine	<RL		8600
3,4-Methylphenol	<RL		17000
3-Nitroaniline	<RL		17000
4,6-Dinitro-2-methylphenol	<RL		17000
4-Bromophenyl phenyl ether	<RL		8600
4-Chloro-3-methylphenol	<RL		8600
4-Chloroaniline	<RL		8600
4-Chlorophenyl phenyl ether	<RL		8600
4-Nitroaniline	<RL		17000
4-Nitrophenol	<RL		17000
Acenaphthene	<RL		8600
Acenaphthylene	<RL		8600
Anthracene	<RL		8600
Benzo(a)anthracene	3500	J	8600
Benzo(a)pyrene	<RL		8600
Benzo(b)fluoranthene	3500	J	8600

Benzo(g,h,i)perylene	<RL		8600
Benzo(k)fluoranthene	3300	J	8600
Benzoic acid	<RL		42000
Benzyl alcohol	<RL		8600
bis(2-Chloroethoxy)methane	<RL		8600
bis(2-Chloroethyl)ether	<RL		8600
bis(2-Chloroisopropyl)ether	<RL		8600
bis(2-Ethylhexyl)phthalate	<RL		8600
Butyl benzyl phthalate	<RL		8600
Chrysene	4400	J	8600
Dibenz(a,h)anthracene	<RL		8600
Dibenzofuran	<RL		8600
Diethylphthalate	<RL		8600
Dimethylphthalate	<RL		8600
Di-n-butylphthalate	<RL		8600
Di-n-octylphthalate	<RL		8600
Fluoranthene	4500	J	8600
Fluorene	<RL		8600
Hexachlorobenzene	<RL		8600
Hexachlorobutadiene	<RL		8600
Hexachlorocyclopentadiene	<RL		8600
Hexachloroethane	<RL		8600
Indeno(1,2,3-cd)pyrene	<RL		8600
Isophorone	<RL		8600
Naphthalene	<RL		8600
Nitrobenzene	<RL		8600
N-Nitroso-di-n-propylamine	<RL		8600
N-Nitrosodiphenylamine	<RL		8600
Pentachlorophenol	<RL		17000
Phenanthrene	2900	J	8600
Phenol	<RL		8600
Pyrene	5400	J	8600

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/27/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		7.7
1,1,2,2-Tetrachloroethane	<RL		7.7
1,1,2-Trichloroethane	<RL		7.7
1,1-Dichloroethane	<RL		7.7
1,1-Dichloroethene	<RL		7.7
1,2-Dichloroethane	<RL		7.7
1,2-Dichloropropane	<RL		7.7
2-Butanone (MEK)	16	J	77
2-Chloroethyl vinyl ether	<RL		77
2-Hexanone (MBK)	<RL		77
4-Methyl-2-pentanone (MIBK)	<RL		77
Acetone	181	J	77
Benzene	4.6	J	7.7
Bromodichloromethane	<RL		7.7
Bromoform	<RL		7.7
Bromomethane	<RL		7.7
Carbon disulfide	9.2	J	15
Carbon tetrachloride	<RL		7.7
Chlorobenzene	<RL		7.7

Chloroethane	<RL		7.7
Chloroform	<RL		7.7
Chloromethane	<RL		7.7
cis-1,2-Dichloroethene	<RL		7.7
cis-1,3-Dichloropropene	<RL		7.7
Dibromochloromethane	<RL		7.7
Ethylbenzene	2.6	J	7.7
Methylene chloride	<RL		15
Styrene	<RL		7.7
Tetrachloroethene	2.3	J	7.7
Toluene	7.5	J	7.7
trans-1,2-Dichloroethene	<RL		7.7
trans-1,3-Dichloropropene	<RL		7.7
Trichloroethene	<RL		7.7
Trichlorofluoromethane	<RL		7.7
Vinyl acetate	<RL		150
Vinyl chloride	<RL		7.7
Xylenes (Total)	11	J	7.7

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	800	Z	

ANALYSIS: X Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 20-151)	552	Z	
Tetrachloro-m-xylene (Range 11-142)	89		

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/27/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	109		
4-Bromofluorobenzene (Range 75-135)	119		
Toluene-d8 (Range 83-126)	145	Z	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 09/06/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: AC19116 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS157-A05-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.17	J	0.55

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/08/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	17		5.5
Barium	360		27
Cadmium	14		2.7
Chromium	23	J	27
Lead	860		27
Selenium	8.0	J	27
Silver	<RL		27

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/30/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		18
Aroclor-1221	<RL		37
Aroclor-1232	<RL		37
Aroclor-1242	<RL		18
Aroclor-1248	<RL		18
Aroclor-1254	<RL		18
Aroclor-1260	200	J	18

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		92
4,4'-DDE	260		92
4,4'-DDT	410		180

Aldrin	<RL		92
alpha-BHC	<RL		92
alpha-Endosulfan	<RL		92
beta-BHC	<RL		92
beta-Endosulfan	<RL		92
delta-BHC	<RL		92
Dieldrin	<RL		92
Endosulfan sulfate	<RL		92
Endrin	<RL		92
Endrin aldehyde	<RL		92
Endrin ketone	<RL		92
gamma-BHC (Lindane)	<RL		92
Heptachlor	<RL		92
Heptachlor epoxide	<RL		92
Methoxychlor	<RL		920
Total Chlordane-Technical	<RL		920
Toxaphene	<RL		4600

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 09/06/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		7300
1,2-Dichlorobenzene	<RL		7300
1,3-Dichlorobenzene	<RL		7300
1,4-Dichlorobenzene	<RL		7300
1-Methylnaphthalene	<RL		7300
2,4,5-Trichlorophenol	<RL		7300
2,4,6-Trichlorophenol	<RL		7300
2,4-Dichlorophenol	<RL		7300
2,4-Dimethylphenol	<RL		7300
2,4-Dinitrophenol	<RL		35000
2,4-Dinitrotoluene	<RL	J	7300
2,6-Dinitrotoluene	<RL		7300
2-Chloronaphthalene	<RL		7300
2-Chlorophenol	<RL		7300
2-Methylnaphthalene	<RL		7300
2-Methylphenol	<RL		7300
2-Nitroaniline	<RL		15000
2-Nitrophenol	<RL		7300
3,3'-Dichlorobenz dine	<RL		7300
3,4-Methylphenol	<RL		15000
3-Nitroaniline	<RL		15000
4,6-Dinitro-2-methylphenol	<RL		15000
4-Bromophenyl phenyl ether	<RL		7300
4-Chloro-3-methylphenol	<RL	J	7300
4-Chloroaniline	<RL		7300
4-Chlorophenyl phenyl ether	<RL		7300
4-Nitroaniline	<RL		15000
4-Nitrophenol	<RL	J	15000
Acenaphthene	<RL		7300
Acenaphthylene	<RL		7300
Anthracene	<RL		7300
Benzo(a)anthracene	2400	J	7300
Benzo(a)pyrene	<RL		7300
Benzo(b)fluoranthene	1800	J	7300

Benzo(g,h,i)perylene	<RL		7300
Benzo(k)fluoranthene	1600	J	7300
Benzoic acid	<RL		35000
Benzyl alcohol	<RL		7300
bis(2-Chloroethoxy)methane	<RL		7300
bis(2-Chloroethyl)ether	<RL		7300
bis(2-Chloroisopropyl)ether	<RL		7300
bis(2-Ethylhexyl)phthalate	<RL		7300
Butyl benzyl phthalate	<RL		7300
Chrysene	2900	J	7300
Dibenz(a,h)anthracene	<RL		7300
Dibenzofuran	<RL		7300
Diethylphthalate	<RL		7300
Dimethylphthalate	<RL		7300
Di-n-butylphthalate	<RL		7300
Di-n-octylphthalate	<RL		7300
Fluoranthene	4900	J	7300
Fluorene	<RL		7300
Hexachlorobenzene	<RL		7300
Hexachlorobutadiene	<RL		7300
Hexachlorocyclopentadiene	<RL		7300
Hexachloroethane	<RL		7300
Indeno(1,2,3-cd)pyrene	1000	J	7300
Isophorone	<RL		7300
Naphthalene	<RL		7300
Nitrobenzene	<RL		7300
N-Nitroso-di-n-propylamine	<RL		7300
N-Nitrosodiphenylamine	<RL		7300
Pentachlorophenol	<RL	J	15000
Phenanthrene	3200	J	7300
Phenol	<RL		7300
Pyrene	3900	J	7300

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/27/2001 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		8.7
1,1,2,2-Tetrachloroethane	<RL		8.7
1,1,2-Trichloroethane	<RL		8.7
1,1-Dichloroethane	<RL		8.7
1,1-Dichloroethene	<RL		8.7
1,2-Dichloroethane	<RL		8.7
1,2-Dichloropropane	<RL		8.7
2-Butanone (MEK)	19	J	87
2-Chloroethyl vinyl ether	<RL		87
2-Hexanone (MBK)	<RL		87
4-Methyl-2-pentanone (MIBK)	<RL		87
Acetone	380		110
Benzene	11		8.7
Bromodichloromethane	<RL		8.7
Bromoform	<RL		8.7
Bromomethane	<RL		8.7
Carbon disulfide	3.9	J	17
Carbon tetrachloride	<RL		8.7
Chlorobenzene	<RL		8.7

Chloroethane	<RL		8.7
Chloroform	<RL		8.7
Chloromethane	<RL		8.7
cis-1,2-Dichloroethene	<RL		8.7
cis-1,3-Dichloropropene	<RL		8.7
Dibromochloromethane	<RL		8.7
Ethylbenzene	5.4	J	8.7
Methylene chloride	<RL		17
Styrene	<RL		8.7
Tetrachloroethene	4.6	J	8.7
Toluene	17	J	8.7
trans-1,2-Dichloroethene	<RL		8.7
trans-1,3-Dichloropropene	<RL		8.7
Trichloroethene	<RL		8.7
Trichlorofluoromethane	1.8	J	8.7
Vinyl acetate	<RL		170
Vinyl chloride	<RL		8.7
Xylenes (Total)	18	J	8.7

ANALYSIS: X_PCB_Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/30/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	680	Z	

ANALYSIS: X_Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 08/31/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 20-151)	<RL	DO	
Tetrachloro-m-xylene (Range 11-142)	<RL	DO	

ANALYSIS: X_VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/27/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	119		
4-Bromofluorobenzene (Range 75-135)	114		
Toluene-d8 (Range 83-126)	152	Z	

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 08/28/2001 Date Analyzed: 09/06/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC19117 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS157-A01-03-01MSD

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 09/05/2001 Date Analyzed: 09/06/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.11	J	0.55

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/08/2001 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	23		5.5
Barium	190		27
Cadmium	4.1		2.7
Chromium	6.6	J	27
Lead	700		27
Selenium	<RL		27
Silver	<RL		27

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19118** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS157-C02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	79		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1200		6.3

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LABORATORY REPORT

Accura Sample ID #: AC19119 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS157-C02-02-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	83		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	310		6.0

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19120** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS157-D01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/08/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	430		28

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LABORATORY REPORT

Accura Sample ID #: AC19121 **Accura Project #:** 28669

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: SS157-B02-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	470		5.7

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC19122** **Accura Project #:** **28669**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 08/22/2001

Client Contact: D. BHOJWANI Date Received: 08/23/2001

Client Project Number: 20074.515.018.1601.00 Date Reported: 10/03/2001

Client Project Name GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **SS157-B02-02-01MSD**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 08/27/2001 Date Analyzed: 08/28/2001 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 09/06/2001 Date Analyzed: 09/07/2001 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	130		5.9

Sample ID	Lab ID	Date Collected	Analysis
SS158-B04-01-01	18719	8/14/01	Total Lead
SS160-E02-01-01	18720	8/14/01	Total Lead
SS160-E02-03-01	18721	8/14/01	Total Lead
SS160-F02-01-01	18722	8/14/01	Total Lead
SS160-B04-01-01	18723	8/14/01	Total Lead
SS160-C02-01-01	18724	8/14/01	Total Lead
SS155-E02-02-01	18725	8/14/01	Total Lead
SS155-B02-01-01	18726	8/14/01	Total Lead
SS155-B02-02-01	18727	8/14/01	Total Lead
SS155-D02-01-01	18728	8/14/01	Total Lead
SS155-E02-01-01	18729	8/14/01	Total Lead
SS155-CO2-01-02	18730	8/14/01	Total Lead
SS155-F03-01-01	18731	8/14/01	Total Lead
SS155-F03-02-01	18732	8/14/01	Total Lead
SS155-C01-01-01	18733	8/14/01	Total Lead
SS155-H01-01-01	18734	8/14/01	Total Lead
SS155-D01-01-01	18735	8/14/01	Total Lead
SS136-A04-01-01	18736	8/15/01	Total Lead, TCLP Metals
SS136-A04-01-01DP	18737	8/15/01	Total Lead
SS136-A08-03-01	18738	8/15/01	Total Lead, RCRA metals, pesticide, PCBs, SVOC, VOC, TCLP metals
SS136-A08-03-01	18739	8/15/01	Pesticides, PCBs, SVOC, VOC
SS136-B02-01-01	18740	8/15/01	Total Lead
SS136-B02-04-01	18741	8/15/01	Total Lead
SS136-C02-01-01	18742	8/15/01	Total Lead
SS136-H02-01-01	18743	8/15/01	Total Lead
SS136-G02-01-01	18744	8/15/01	Total Lead
SS158-A11-01-01	18745	8/15/01	RCRA Metals, PCBs, Pesticies, SVOC, VOC
SS155-A6-01-01	18746	8/15/01	RCRA Metals, PCBs, Pesticies, SVOC, VOC
SS155-G2-01-01	18747	8/15/01	Total Lead
SS155-G02-02-01	18748	8/15/01	Total Lead
SS155-G-2-01-01DP	18749	8/15/01	Total Lead
SS155-I01-01-01	18750	8/15/01	Total Lead
SS155-I01-01-01DP	18751	8/15/01	Total Lead
SS155-J02-01-01	18752	8/15/01	Total Lead
SS158-E1-01-01	18753	8/15/01	Total Lead
SS136-D02-01-01	18754	8/15/01	Total Lead

General
For the most part, batch QC was used by the laboratory. This often means the QC was used from other sampling or from some other site. Therefore, qualification can not be applied to this data. This is noted below.

Volatiles

1. Holding Time
All samples were analyzed within the required holding times.

2. Blanks
The laboratory narrative states that upon routine analysis of sodium bisulfate blanks, it was determined that the preservative was contaminated with bromoform (5 to 50 ppb) and chloroform (5-10 ppb). The samples were affected by bromoform and chloroform contamination. This preservative information was not provided with the data. Therfore bromoform and chloroform results less than 50 ug/kg in the samples are flagged as nondetect U. Bromoform results between 51 and 500 are flagged as estimated J. Chloroform results between 51 and 100 are flagged as estimated J. In addition, the following compounds were found in the method blank: 2-butanone (0.6 ug/kg), and acetone (2.8 ug/kg). 2-butanone and acetone results less than ten times the blank results are qualified as nondetect U.

3. Surrogate Recovery
All surrogate recoveries were acceptable except corresponding to the MS/MSD. All results are usable and no qualification is required.

4. Matrix Spike
Sample 18594 was used as the MS/MSD. This sample does not correspond to this batch of samples or samples from this project. No qualification can be applied.

5. Laboratory Control Sample
The LCS recoveries were within the required control limits.

6. Internal Standards
According to the laboratory narrative, the following samples had one or more internal standards outside control limits: SS136-A08-03-01, SS136-A08-03-01DP, SS158-All-01-01, and SS155-A6-01-01. No internal standard information was supplied with the data package. The narrative states that bromoform in sample SS155-A6-01-01 was the only sample affectd and should be qualified as estimated J.

7. Other
Samples SS136-A08-03-01, SS136-A08-03-01DP, and SS158-All-01-01 underwent dilutions. Therefore, these samples have elevated detection limits.

Semivolatiles

1. Holding Times
All samples were extracted and analyzed within the required holding times.

2. Blanks
The blank was free of contamination.

3. Surrogate Recovery
The following samples had surrogate recoveries that were diluted out due to sample dilution: SS136-A08-03-01, SS136-A08-03-01DP, SS158-All-01-01, and SS155-A6-01-01. Therefore, no qualification can be assessed based on surrogate recovery.

4. Matrix Spike
Sample 19116 was used as the MS. This sample was from a different batch but from this same project. The following recoveries were outside control limits: 4-chloro-methylphenol (48), 4-nitrophenol (24, 26), pentachlorophenol (20, 24), 2,4-dinitrotoluene (41, 29RPD), and pyrene (-71, -26, 28RPD). These compounds are flagged J/UJ in the unspiked sample (part of another batch).

5 Laboratory Control Sample
All LCS recoveries were within the required control limits.

6. Internal Standards
No internal standard information was provided with the data package. Internal standards were not discussed in the laboratory narrative. No qualification will be applied.

7. Other
All four SVOA samples underwent dilutions. Therefore, all SVOC results have elevated detection limits.

Pesticide/PCBs

1. Holding Times
All samples were analyzed within the required holding times.

2. Blanks
The PCB blank was free of contamination. The pesticide blank contained dieldrin at 1.3 ug/kg. Dieldrin results in the corresponding samples less than 6.5 are qualified as nondetect U. All other results were below the detection limit.

3. Surrogate Recovery
The following pesticide samples had surrogate recoveries that were diluted out due to sample dilution: SS136-A08-03-01 and SS136-A08-03-01DP. Pesticide samples SS158-All-01-01 and SS155-A6-01-01 had surrogate recoveries outside control limits. Positive pesticide results in those two samples are flagged as estimated J. PCB samples SS136-A08-03-01 and SS136-A08-03-01DP had surrogate recoveries outside control limits. Positive PCB results in those two samples are flagged as estimated J. All other PCB surrogate recoveries are acceptable.

4. Matrix Spike
Sample 18117 was used as the PCB matrix spike sample. Sample 18117 does not correspond to this sites samples. Sample 19107 was used as the pesticide matrix spike

sample. According to the laboratory narrative, the spike and duplicate were diluted out. Therefore, no recoveries were reported.

5. Laboratory Control Sample
All pesticide and PCB LCS recoveries were within required control limits.

6. Other
All four pesticed samples underwent dilutions. Therefore, all pesticide results have elevated detection limits. PCB samples SS136-A08-03-01 and SS136-A08-03-01DP underwent dilutions and thus have elevated detection limits.

Total Lead

1. Holding Times
All lead samples were analyzed within the required holding times.

2. Blanks
Lead was not an issue in the blanks

3. Matrix Spike
Sample 18540 was used as the MS. This sample does not correlate to this site (batch QC).

4. Laboratory Control Sample
The LCS recoveries were within control limits.

5. Other
The following samples underwent dilutions resulting in elevated detection limits: SS158-B04-01-01, SS160-E02-03-01, SS160-B04-01-01, SS136-B02-01-01, SS136-B02-04-01, SS136-C02-01-01, SS136-G02-01-01, SS155-G2-01-01, and SS155-G2-01-01DP.

RCRA Metals

1. Holding Times
Mercury samples were analyzed outside the required holding times. All mercury results are flagged J/UJ. All other samples were analyzed within the required holding times.

2. Blanks
Lead was detected in the blank at 2 ug/kg. Lead results less than 10 are flagged as nondetect U.

3. Matrix Spike
Four MS samples were reported: 18725, 18736, 18738, and 18750. It is unclear why sample 18725, 18736, and 18750 were reported as RCRA metals QC as these samples were only designated as total lead samples. Sample 18738 was a MS sample associated with this batch. All MS results were acceptable with the exception of lead. Lead results are qualified as J/UJ. Mercury MS results were outside limits but remain as qualified above.

4. Laboratory Control Sample
LCS recoveries associated with these samples were within QC limits.

5. Other
The following samples underwent dilutions which resulted in elevated detection limits: SS136-A04-01-01, SS136-A04-01-01dp, SS136-A08-03-01, and SS155-A6-01-01 and mercury samples SS136-A04-01-01, SS136-A04-01-01dp, and SS136-A08-03-01.

TCLP Metals

1 Holding Times
TCLP mercury samples were analyzed outside the required holding times. All mercury samples are flagged as estimated J/UJ. All other compounds were analyzed within the required holding times.

2 Blanks
Barium was detected in the blank at o.33mg/L. Barium results less than 1.65 are flagged U.

3 Matrix Spike
Lead was outside control limits. All lead results are qualified J/UJ.

4 Laboratory Control Sample
The LCS recoveries were acceptable.

Data Reviewed by: T. Balla Date: 10/28/01

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31050

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Weston
Address: 750 East Bunker Court Suite 500
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # 847-918-4005 Fax # 847-918-4055
Project Name: Gateway Initiative
Project Number: 2002 24-515-018-1601-00

Billing address: Same
Client P.O. #

For Laboratory Use Only

Custody Seal: Y N
QC Level: N 1 2 3 4
Sample Condition:

Page 1 OF 4
Init/Temp: ABL / 4°C
AAL Lab Project # 28617

Samplers: (signature)

Samplers: (printed)

ANALYSIS: Total Lead

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	Remarks	Accura Sample ID No. ABC
GI-SS158-B04-01-01	8/14/01 8:55		X	S			1	X	18719
GI-SS160-E02-01-01	8/14/01 10:46		X	S			1	X	20
GI-SS160-E02-03-01	8/14/01 10:50		X	S			1	X	21
GI-SS160-F02-01-01	8/14/01 10:35		X	S			1	X	22
GI-SS160-B04-01-01	8/14/01 10:25		X	S			1	X	23
GI-SS160-C02-01-01	8/14/01 10:20		X	S			1	X	24
GI-SS155-E02-02-01	8/14/01 13:10		X	S			1	X	25
GI-SS155-B02-01-01	8/14/01 12:05		X	S			1	X	26
GI-SS155-B02-02-01	8/14/01 12:45		X	S			1	X	27
GI-SS155-D02-01-01	8/14/01 13:00		X	S			1	X	19728

08.16.01

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Brian Voss	8/15/01 18:30	FED EX		
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested.
FED EX	8-16-01 0925	Amanda Lyle	8-16-01 0925	STD

Matrix Code: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC.XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31054

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: WESTON
Address: 750 EAST BUNKER COURT, SUITE 500
Report Sent to: (Client Contact): DEEPAK BHOJWANI
Contact Phone # (847) 918 4005 Fax # (847) 918 4055
Project Name: GATEWAY INITIATIVE
Project Number: 20074.515.018.1601.00

Billing address:
Client P.O. #

For Laboratory Use Only

Custody Seal: Y N Page 2 OF 4
QC Level: N 1 2 3 4 Init/Temp: AB/4C
Sample Condition: AAL Lab Project # 28617

Samplers: (signature)

Samplers: (printed)

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total lead	RCRA Metals	% Solids	Pesticides	PCB's	SVOC's	VOC's	TCLP Metals	Remarks	Accura Sample ID No. ABC
GI-SS155-E02-01-01	8/14/01 13:05		X	S			1	X									18729
GI-SS155-E02-01-01 C2	8/14/01 11:45		X	S			1	X									30
GI-SS155-F03-01-01	8/14/01 15:50		X	S			1	X									31
GI-SS155-F03-02-01	8/14/01 15:55		X	S			1	X									32
GI-SS158-C01-01-01	8/14/01 16:15		X	S			1	X									33
GI-SS155-H01-01-01	8/14/01 16:20		X	S			1	X									34
GI-SS155-D01-01-01	8/14/01 16:45		X	S			1	X									35
GI-SS136-A04-01-01	8/15/01 09:30		X	S			1	TPH	X					X			36
GI-SS136-A04-01-01 DUP	8/15/01 09:30		X	S			1	TPH	X								37
GI-SS136-A08-03-01	8/15/01 10:00		X	S			6		X	X	X	X	X	X	X		18730

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	8/15/01 18:30	FED EX		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
FED EX	8-16-01 0925			STD

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31046

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Wiston
Billing address: Same
Address: 750 East Bunker Court Suite 500
Client P.O. #
Report Sent to: (Client Contact): Deepak Bhojwani
Contact Phone # 847-918-4005 Fax # 847-918-4055
Project Name: Gateway Exhibition
Project Number: 20074-515-018-1601-00

For Laboratory Use Only

Custody Seal: Y N Page 3 OF 4
QC Level: N 1 2 3 4 Init/Temp: ABL/4°C
Sample Condition: AAL Lab Project # 28617

Samplers: (signature)
Samplers: (printed)

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	RCRA Metals	% Solids	Pesticides	PCBs	SVOCs	VOCs			Remarks	Accura Sample ID No.
GI-SS136-B03-01-01 Dup	8/15/01 10:00		X	S			4				X	X	X	X				18739
GI-SS136-B02-01-01	8/15/01 11:00		X	S			1	X										40
GI-SS136-B02-04-01	8/15/01 11:30		X	S			1	X										41
GI-SS136-C02-01-01	8/15/01 13:45		X	S			1	X										42
GI-SS136-H02-01-01	8/15/01 ~~13:55~~ 14:00		X	S			1	X										43
GI-SS136-G02-01-01	8/15/01 14:15		X	S			1	X										44
GI-SS158-A11-01-01	8/15/01 14:50		X	S			6		X	X	X	X	X	X				45
GI-SS155-~~A10~~ A16-01-01	8/15/01 15:05		X	S			6		X	X	X	X	X	X				46
GI-SS155-~~G2~~ G2-01-01	8/15/01 15:20		X	S			1	X										47
GI-SS155-G02-02-01	8/15/01 ~~15:20~~ 15:22		X	S			1	X										18748

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	8/15/01 18:30	FED EX		
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
FED EX	8-16-01 0925	[signature]	8-16-01 0925	STD

Mat de: (S (W = (L = (C = ge) (S dge) (Samp Food Misc ns)

XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

31047

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: WESTON
Billing address: SAME
Address: 750 EAST BUNKER COURT, SUITE 500
Client P.O. #
Report Sent to: (Client Contact): DEEPAK BHOJWANI
Contact Phone # (847) 918-4005 Fax # (847) 918 4055
Project Name: GATEWAY INITIATIVE
Project Number: 20074.515.018.1601.00

For Laboratory Use Only

Custody Seal: Y N
Page 4 OF 4
QC Level: N 1 2 3 4
Init/Temp: ABC/4°C
Sample Condition:
AAL Lab Project # 28617

Samplers: (signature)
Samplers: (printed)

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Total Lead	Remarks	Accura Sample ID No.
GI-SS155~~G-2~~ 01-01-DUP	8/15/01 15:20		X	S			1	X		18749
GI-SS155I01-01-01	8/15/01 15:30		X	S			1	X		50
GI-SS155-~~I~~D01-01-01-~~Dup~~ DX	8/15/01 15:30		X	S			1	X		51
GI-SS155-D02-01-01	8/15/01 16:00		X	S			1	X		52
GI-SS158-~~GG~~ GI 01-01	8/15/01 16:05		X	S			1	X		53
GI-SS136-D02-01-01	8-15-01 11:15		X	S			1	X		54

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Brian Voss	8/15/01 18:30	FED EX		
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
FED EX	8-16-01 0925			STD

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC 97-2 XLS

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LABORATORY REPORT

Accura Sample ID #: **AC18719** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS158-B04-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	94		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/23/01 Date Analyzed: 8/24/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	240		11

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LABORATORY REPORT

Accura Sample ID #: **AC18720** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS160-E02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/23/01 Date Analyzed: 8/24/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1000		5.6

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LABORATORY REPORT

Accura Sample ID #: **AC18721** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS160-E02-03-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/23/01 Date Analyzed: 8/24/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	970		12

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LABORATORY REPORT

Accura Sample ID #: **AC18722** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS160-F02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/5/01 Date Analyzed: 9/6/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	87		5.4

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LABORATORY REPORT

Accura Sample ID #: **AC18723** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS160-B04-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/23/01 Date Analyzed: 8/24/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	230		11

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LABORATORY REPORT

Accura Sample ID #: AC18724 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS160-C02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	94		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/23/01 Date Analyzed: 8/24/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	240		5.3

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LABORATORY REPORT

Accura Sample ID #: **AC18725** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-E02-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	84		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	160		6.0

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LABORATORY REPORT

Accura Sample ID #: AC18726 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-B02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	460		5.4

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LABORATORY REPORT

Accura Sample ID #: **AC18727** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-B2-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	990		5.5

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LABORATORY REPORT

Accura Sample ID #: AC18728 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-D02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	81		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	190		6.2

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LABORATORY REPORT

Accura Sample ID #: **AC18729** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-E02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	310		5.9

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LABORATORY REPORT

Accura Sample ID #: AC18730 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-C2-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	83		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	270		6.0

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LABORATORY REPORT

Accura Sample ID #: **AC18731** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-F03-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	170		5.4

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LABORATORY REPORT

Accura Sample ID #: AC18732 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-F03-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	49		5.5

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LABORATORY REPORT

Accura Sample ID #: **AC18733** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS158-C01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	160		5.6

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LABORATORY REPORT

Accura Sample ID #: AC18734 **Accura Project #:** 28617

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS155-H01-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	350		5.6

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LABORATORY REPORT

Accura Sample ID #: **AC18735** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/14/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS~~155~~158-D01-01-01** 7/15/02

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	440		5.5

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LABORATORY REPORT

Accura Sample ID #: AC18736 **Accura Project #:** 28617

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/22/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS136-A04-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	95		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/20/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	6.1	J	5.3

ANALYSIS: Metals - RCRA Method Ref: *3050B/6010B*

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/6/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	67		5.3
Barium	1300		53
Cadmium	72		5.3
Chromium	280		53
Lead	120000		53
Selenium	92		53
Silver	12	J	53

ANALYSIS: TCLP Mercury Method Ref: 7470A

Date Ext/Dig/Prep: 10/10/01 Date Analyzed: 10/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury (Reg Limit = 0.2)	<RL	J	0.020

ANALYSIS: TCLP Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/5/01 Date Analyzed: 10/8/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic (Reg Limit = 5.0)	<RL		1.0
Barium (Reg Limit = 100.0)	1.5	B	1.0
Cadmium (Reg Limit = 1.0)	0.37	J	1.0
Chromium (Reg Limit = 5.0)	<RL		1.0
Lead (Reg Limit = 5.0)	22		1.0
Selenium (Reg Limit = 1.0)	<RL		1.0
Silver (Reg Limit = 5.0)	<RL		1.0

ANALYSIS: **TCLP Metals Extraction Procedure** Method Ref: 1311

Date Ext/Dig/Prep: 10/4/01 Date Analyzed: 10/5/01 Result Units:

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
TCLP Extraction	COMPLETE		

ACCURA ANALYTICAL LABORATORY, INC.

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC18737 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS136-A04-01-01DUP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	94		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 9/13/01 Date Analyzed: 9/14/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	5.1	J	2.7

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	67		5.3
Barium	470		11
Cadmium	25		1.1
Chromium	170		11
Lead	52000	J	11
Selenium	<RL		11
Silver	28		11

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LABORATORY REPORT

Accura Sample ID #: AC18738 **Accura Project #:** 28617

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS136-A08-03-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/20/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	8.1		5.4

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	130		5.4
Barium	100		11
Cadmium	6.8		1.1
Chromium	41		11
Lead	60000	J	11
Selenium	<RL		11
Silver	2.9	J	11

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/23/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	110	J	180
Aroclor-1221	<RL		360
Aroclor-1232	<RL		360
Aroclor-1242	<RL		180
Aroclor-1248	<RL		180
Aroclor-1254	<RL		180
Aroclor-1260	850	J	180

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/25/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		180
4,4'-DDE	<RL		180
4,4'-DDT	<RL		360

Aldrin	<RL	180
alpha-BHC	<RL	180
alpha-Endosulfan	<RL	180
beta-BHC	<RL	180
beta-Endosulfan	<RL	180
delta-BHC	<RL	180
Dieldrin	<RL	180
Endosulfan sulfate	<RL	180
Endrin	<RL	180
Endrin aldehyde	<RL	180
Endrin ketone	<RL	180
gamma-BHC (Lindane)	<RL	180
Heptachlor	<RL	180
Heptachlor epoxide	<RL	180
Methoxychlor	<RL	900
Total Chlordane-Technical	<RL	1800
Toxaphene	<RL	9000

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 8/21/01 Date Analyzed: 8/30/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		7200
1,2-Dichlorobenzene	<RL		7200
1,3-Dichlorobenzene	<RL		7200
1,4-Dichlorobenzene	<RL		7200
1-Methylnaphthalene	<RL		7200
2,4,5-Trichlorophenol	<RL		7200
2,4,6-Trichlorophenol	<RL		7200
2,4-Dichlorophenol	<RL		7200
2,4-Dimethylphenol	<RL		7200
2,4-Dinitrophenol	<RL		35000
2,4-Dinitrotoluene	<RL		7200
2,6-Dinitrotoluene	<RL		7200
2-Chloronaphthalene	<RL		7200
2-Chlorophenol	<RL		7200
2-Methylnaphthalene	<RL		7200
2-Methylphenol	<RL		7200
2-Nitroaniline	<RL		14000
2-Nitrophenol	<RL		7200
3,3'-Dichlorobenzidine	<RL		7200
3,4-Methylphenol	<RL		14000
3-Nitroaniline	<RL		14000
4,6-Dinitro-2-methylphenol	<RL		14000
4-Bromophenyl phenyl ether	<RL		7200
4-Chloro-3-methylphenol	<RL		7200
4-Chloroaniline	<RL		7200
4-Chlorophenyl phenyl ether	<RL		7200
4-Nitroaniline	<RL		14000
4-Nitrophenol	<RL		14000
Acenaphthene	<RL		7200
Acenaphthylene	<RL		7200
Anthracene	<RL		7200
Benzo(a)anthracene	<RL		7200
Benzo(a)pyrene	<RL		7200
Benzo(b)fluoranthene	<RL		7200

Benzo(g,h,i)perylene	<RL		7200
Benzo(k)fluoranthene	<RL		7200
Benzoic acid	<RL		35000
Benzyl alcohol	<RL		7200
bis(2-Chloroethoxy)methane	<RL		7200
bis(2-Chloroethyl)ether	<RL		7200
bis(2-Chloroisopropyl)ether	<RL		7200
bis(2-Ethylhexyl)phthalate	<RL		7200
Butyl benzyl phthalate	<RL		7200
Chrysene	<RL		7200
Dibenz(a,h)anthracene	<RL		7200
Dibenzofuran	<RL		7200
Diethylphthalate	<RL		7200
Dimethylphthalate	<RL		7200
Di-n-butylphthalate	<RL		7200
Di-n-octylphthalate	<RL		7200
Fluoranthene	1100	J	7200
Fluorene	<RL		7200
Hexachlorobenzene	<RL		7200
Hexachlorobutadiene	<RL		7200
Hexachlorocyclopentadiene	<RL		7200
Hexachloroethane	<RL		7200
Indeno(1,2,3-cd)pyrene	<RL		7200
Isophorone	<RL		7200
Naphthalene	<RL		7200
Nitrobenzene	<RL		7200
N-Nitroso-di-n-propylamine	<RL		7200
N-Nitrosodiphenylamine	<RL		7200
Pentachlorophenol	<RL		14000
Phenanthrene	<RL		7200
Phenol	<RL		7200
Pyrene	1000	J	7200

ANALYSIS: TCLP Mercury Method Ref: 7470A

Date Ext/Dig/Prep: 10/10/01 Date Analyzed: 10/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury (Reg Limit = 0.2)	<RL	XJ	0.020

ANALYSIS: TCLP Metals Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/9/01 Date Analyzed: 10/10/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic (Reg Limit = 5.0)	0.29	J	1.0
Barium (Reg Limit = 100.0)	0.059	JB U	1.0
Cadmium (Reg Limit = 1.0)	<RL		1.0
Chromium (Reg Limit = 5.0)	<RL		1.0
Lead (Reg Limit = 5.0)	320		1.0
Selenium (Reg Limit = 1.0)	0.095	J	1.0
Silver (Reg Limit = 5.0)	<RL		1.0

ANALYSIS: TCLP Metals Extraction Procedure Method Ref: 1311

Date Ext/Dig/Prep: 10/4/01 Date Analyzed: 10/5/01 Result Units:

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
TCLP Extraction	COMPLETE		

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 8/22/01 Date Analyzed: 8/22/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		11
1,1,2,2-Tetrachloroethane	<RL		11
1,1,2-Trichloroethane	<RL		11
1,1-Dichloroethane	<RL		11
1,1-Dichloroethene	<RL		11
1,2-Dichloroethane	<RL		11
1,2-Dichloropropane	<RL		11
2-Butanone (MEK)	24	JB	110
2-Chloroethyl vinyl ether	<RL		110
2-Hexanone (MBK)	2.6	J	110
4-Methyl-2-pentanone (MIBK)	1.3	J	110
Acetone	180	B	110
Benzene	2.8	J	11
Bromodichloromethane	<RL		11
Bromoform	<RL		11
Bromomethane	<RL		11
Carbon disulfide	5.4	J	21
Carbon tetrachloride	<RL		11
Chlorobenzene	<RL		11
Chloroethane	<RL		11
Chloroform	<RL		11
Chloromethane	4.3	J	11
cis-1,2-Dichloroethene	<RL		11
cis-1,3-Dichloropropene	<RL		11
Dibromochloromethane	<RL		11
Ethylbenzene	1.8	J	11
Methylene chloride	33		21
Styrene	<RL		11
Tetrachloroethene	<RL		11
Toluene	7.9	J	11
trans-1,2-Dichloroethene	<RL		11
trans-1,3-Dichloropropene	<RL		11
Trichloroethene	2.3	J	11
Trichlorofluoromethane	<RL		11
Vinyl acetate	<RL		210
Vinyl chloride	<RL		11
Xylenes (Total)	5.5	J	11

ANALYSIS: X_PCB_Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/23/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	270	Z	

ANALYSIS: X_Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 11-142)	<RL	DO	
Tetrachloro-m-xylene (Range 20-151)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/22/01 Date Analyzed: 8/22/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	109		
4-Bromofluorobenzene (Range 75-135)	115		
Toluene-d8 (Range 83-126)	116		

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/21/01 Date Analyzed: 8/30/01 Result Units: %

Analyte Name		Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol	(Range 20-110)	<RL	DO	
2-Fluorobiphenyl	(Range 30-110)	<RL	DO	
2-Fluorophenol	(Range 22-96)	<RL	DO	
Nitrobenzene-d5	(Range 22-104)	<RL	DO	
Phenol-d6	(Range 25-100)	<RL	DO	
p-Terphenyl-d14	(Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: AC18739 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: *GATEWAY INITIATIVE* *Sample Matrix:* *SOIL*

Client Sample ID: **GI-SS136-A08-03-01DUP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	94		1.0

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/23/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	110	J	180
Aroclor-1221	<RL		350
Aroclor-1232	<RL		350
Aroclor-1242	<RL		180
Aroclor-1248	<RL		180
Aroclor-1254	<RL		180
Aroclor-1260	1100	J	180

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/25/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		180
4,4'-DDE	<RL		180
4,4'-DDT	<RL		350
Aldrin	<RL		180
alpha-BHC	<RL		180
alpha-Endosulfan	<RL		180
beta-BHC	<RL		180
beta-Endosulfan	<RL		180
delta-BHC	<RL		180
Dieldrin	<RL		180
Endosulfan sulfate	<RL		180
Endrin	<RL		180
Endrin aldehyde	<RL		180
Endrin ketone	<RL		180
gamma-BHC (Lindane)	<RL		180
Heptachlor	<RL		180
Heptachlor epoxide	<RL		180
Methoxychlor	<RL		890
Total Chlordane-Technical	<RL		1800

Toxaphene	<RL		8900

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 8/21/01 Date Analyzed: 8/30/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		7100
1,2-Dichlorobenzene	<RL		7100
1,3-Dichlorobenzene	<RL		7100
1,4-Dichlorobenzene	<RL		7100
1-Methylnaphthalene	<RL		7100
2,4,5-Trichlorophenol	<RL		7100
2,4,6-Trichlorophenol	<RL		7100
2,4-Dichlorophenol	<RL		7100
2,4-Dimethylphenol	<RL		7100
2,4-Dinitrophenol	<RL		35000
2,4-Dinitrotoluene	<RL		7100
2,6-Dinitrotoluene	<RL		7100
2-Chloronaphthalene	<RL		7100
2-Chlorophenol	<RL		7100
2-Methylnaphthalene	<RL		7100
2-Methylphenol	<RL		7100
2-Nitroaniline	<RL		14000
2-Nitrophenol	<RL		7100
3,3'-Dichlorobenzidine	<RL		7100
3,4-Methylphenol	<RL		14000
3-Nitroaniline	<RL		14000
4,6-Dinitro-2-methylphenol	<RL		14000
4-Bromophenyl phenyl ether	<RL		7100
4-Chloro-3-methylphenol	<RL		7100
4-Chloroaniline	<RL		7100
4-Chlorophenyl phenyl ether	<RL		7100
4-Nitroaniline	<RL		14000
4-Nitrophenol	<RL		14000
Acenaphthene	<RL		7100
Acenaphthylene	<RL		7100
Anthracene	<RL		7100
Benzo(a)anthracene	1800	J	7100
Benzo(a)pyrene	<RL		7100
Benzo(b)fluoranthene	<RL		7100
Benzo(g,h,i)perylene	<RL		7100
Benzo(k)fluoranthene	<RL		7100
Benzoic acid	<RL		35000
Benzyl alcohol	<RL		7100
bis(2-Chloroethoxy)methane	<RL		7100
bis(2-Chloroethyl)ether	<RL		7100
bis(2-Chloroisopropyl)ether	<RL		7100
bis(2-Ethylhexyl)phthalate	<RL		7100
Butyl benzyl phthalate	<RL		7100
Chrysene	2200	J	7100
Dibenz(a,h)anthracene	<RL		7100
Dibenzofuran	<RL		7100
Diethylphthalate	<RL		7100
Dimethylphthalate	<RL		7100
Di-n-butylphthalate	<RL		7100
Di-n-octylphthalate	<RL		7100

Fluoranthene	2100	J	7100
Fluorene	<RL		7100
Hexachlorobenzene	<RL		7100
Hexachlorobutadiene	<RL		7100
Hexachlorocyclopentadiene	<RL		7100
Hexachloroethane	<RL		7100
Indeno(1,2,3-cd)pyrene	<RL		7100
Isophorone	<RL		7100
Naphthalene	<RL		7100
Nitrobenzene	<RL		7100
N-Nitroso-di-n-propylamine	<RL		7100
N-Nitrosodiphenylamine	<RL		7100
Pentachlorophenol	<RL		14000
Phenanthrene	1800	J	7100
Phenol	<RL		7100
Pyrene	1800	J	7100

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 8/22/01 Date Analyzed: 8/22/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		10
1,1,2,2-Tetrachloroethane	<RL		10
1,1,2-Trichloroethane	<RL		10
1,1-Dichloroethane	<RL		10
1,1-Dichloroethene	<RL		10
1,2-Dichloroethane	<RL		10
1,2-Dichloropropane	<RL		10
2-Butanone (MEK)	26	JB	100
2-Chloroethyl vinyl ether	<RL		100
2-Hexanone (MBK)	2.5	J	100
4-Methyl-2-pentanone (MIBK)	1.3	J	100
Acetone	180	B	100
Benzene	3.0	J	10
Bromodichloromethane	<RL		10
Bromoform	<RL		10
Bromomethane	<RL		10
Carbon disulfide	5.3	J	21
Carbon tetrachloride	<RL		10
Chlorobenzene	<RL		10
Chloroethane	<RL		10
Chloroform	<RL		10
Chloromethane	4.3	J	10
cis-1,2-Dichloroethene	<RL		10
cis-1,3-Dichloropropene	<RL		10
Dibromochloromethane	<RL		10
Ethylbenzene	1.8	J	10
Methylene chloride	34		21
Styrene	1.1	J	10
Tetrachloroethene	<RL		10
Toluene	7.2	J	10
trans-1,2-Dichloroethene	<RL		10
trans-1,3-Dichloropropene	<RL		10
Trichloroethene	2.2	J	10
Trichlorofluoromethane	<RL		10
Vinyl acetate	<RL		210

Vinyl chloride	<RL			10
Xylenes (Total)	5.3	J		10

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/23/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	350	Z	

ANALYSIS: X Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/25/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 11-142)	<RL	DO	
Tetrachloro-m-xylene (Range 20-151)	<RL	DO	

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/22/01 Date Analyzed: 8/22/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	112		
4-Bromofluorobenzene (Range 75-135)	117		
Toluene-d8 (Range 83-126)	116		

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/21/01 Date Analyzed: 8/30/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: AC18740 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS136-B02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	87		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	1800		11

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LABORATORY REPORT

Accura Sample ID #: **AC18741** **Accura Project #:** **28617**

Client: ***Roy F. Weston, Inc.-Illinois*** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS136-B02-04-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	78		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	2300		13

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LABORATORY REPORT

Accura Sample ID #: **AC18742** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS136-C02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	360		11

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LABORATORY REPORT

Accura Sample ID #: **AC18743** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS136-H02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	85		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 9/4/01 Date Analyzed: 9/4/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	370		5.9

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LABORATORY REPORT

Accura Sample ID #: **AC18744** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: ***GI-SS136-G02-01-01***

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	97		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/31/01 Date Analyzed: 9/1/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	210		26

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LABORATORY REPORT

Accura Sample ID #: **AC18745** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS158-A11-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	97		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/20/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.17	J	0.52

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/31/01 Date Analyzed: 9/2/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	6.6		5.2
Barium	120		5.2
Cadmium	2.5		0.52
Chromium	16		5.2
Lead	150		5.2
Selenium	<RL		5.2
Silver	<RL		5.2

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/23/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	5.3	J	17
Aroclor-1221	<RL		34
Aroclor-1232	<RL		34
Aroclor-1242	<RL		17
Aroclor-1248	<RL		17
Aroclor-1254	<RL		17
Aroclor-1260	31		17

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/27/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		17
4,4'-DDE	6.4	J	17
4,4'-DDT	<RL		34

Aldrin	<RL	17
alpha-BHC	<RL	17
alpha-Endosulfan	<RL	17
beta-BHC	<RL	17
beta-Endosulfan	<RL	17
delta-BHC	<RL	17
Dieldrin	51	17
Endosulfan sulfate	<RL	17
Endrin	<RL	17
Endrin aldehyde	<RL	17
Endrin ketone	<RL	17
gamma-BHC (Lindane)	<RL	17
Heptachlor	<RL	17
Heptachlor epoxide	<RL	17
Methoxychlor	<RL	86
Total Chlordane-Technical	<RL	170
Toxaphene	<RL	860

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 8/21/01 Date Analyzed: 8/30/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		6900
1,2-Dichlorobenzene	<RL		6900
1,3-Dichlorobenzene	<RL		6900
1,4-Dichlorobenzene	<RL		6900
1-Methylnaphthalene	<RL		6900
2,4,5-Trichlorophenol	<RL		6900
2,4,6-Trichlorophenol	<RL		6900
2,4-Dichlorophenol	<RL		6900
2,4-Dimethylphenol	<RL		6900
2,4-Dinitrophenol	<RL		34000
2,4-Dinitrotoluene	<RL		6900
2,6-Dinitrotoluene	<RL		6900
2-Chloronaphthalene	<RL		6900
2-Chlorophenol	<RL		6900
2-Methylnaphthalene	<RL		6900
2-Methylphenol	<RL		6900
2-Nitroaniline	<RL		14000
2-Nitrophenol	<RL		6900
3,3'-Dichlorobenzidine	<RL		6900
3,4-Methylphenol	<RL		14000
3-Nitroaniline	<RL		14000
4,6-Dinitro-2-methylphenol	<RL		14000
4-Bromophenyl phenyl ether	<RL		6900
4-Chloro-3-methylphenol	<RL		6900
4-Chloroaniline	<RL		6900
4-Chlorophenyl phenyl ether	<RL		6900
4-Nitroaniline	<RL		14000
4-Nitrophenol	<RL		14000
Acenaphthene	<RL		6900
Acenaphthylene	<RL		6900
Anthracene	<RL		6900
Benzo(a)anthracene	<RL		6900
Benzo(a)pyrene	<RL		6900
Benzo(b)fluoranthene	<RL		6900

Benzo(g,h,i)perylene	<RL		6900
Benzo(k)fluoranthene	<RL		6900
Benzoic acid	<RL		34000
Benzyl alcohol	<RL		6900
bis(2-Chloroethoxy)methane	<RL		6900
bis(2-Chloroethyl)ether	<RL		6900
bis(2-Chloroisopropyl)ether	<RL		6900
bis(2-Ethylhexyl)phthalate	<RL		6900
Butyl benzyl phthalate	<RL		6900
Chrysene	<RL		6900
Dibenz(a,h)anthracene	<RL		6900
Dibenzofuran	<RL		6900
Diethylphthalate	<RL		6900
Dimethylphthalate	<RL		6900
Di-n-butylphthalate	<RL		6900
Di-n-octylphthalate	<RL		6900
Fluoranthene	1500	J	6900
Fluorene	<RL		6900
Hexachlorobenzene	<RL		6900
Hexachlorobutadiene	<RL		6900
Hexachlorocyclopentadiene	<RL		6900
Hexachloroethane	<RL		6900
Indeno(1,2,3-cd)pyrene	<RL		6900
Isophorone	<RL		6900
Naphthalene	<RL		6900
Nitrobenzene	<RL		6900
N-Nitroso-di-n-propylamine	<RL		6900
N-Nitrosodiphenylamine	<RL		6900
Pentachlorophenol	<RL		14000
Phenanthrene	710	J	6900
Phenol	<RL		6900
Pyrene	1300	J	6900

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 8/22/01 Date Analyzed: 8/22/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		10
1,1,2,2-Tetrachloroethane	<RL		10
1,1,2-Trichloroethane	<RL		10
1,1-Dichloroethane	<RL		10
1,1-Dichloroethene	<RL		10
1,2-Dichloroethane	<RL		10
1,2-Dichloropropane	<RL		10
2-Butanone (MEK)	5.4	JB U	100
2-Chloroethyl vinyl ether	<RL		100
2-Hexanone (MBK)	<RL		100
4-Methyl-2-pentanone (MIBK)	<RL		100
Acetone	73	JB	100
Benzene	4.6	J	10
Bromodichloromethane	<RL		10
Bromoform	<RL		10
Bromomethane	<RL		10
Carbon disulfide	1.6	J	21
Carbon tetrachloride	<RL		10
Chlorobenzene	<RL		10

Chloroethane	<RL		10
Chloroform	<RL		10
Chloromethane	2.0	J	10
cis-1,2-Dichloroethene	<RL		10
cis-1,3-Dichloropropene	<RL		10
Dibromochloromethane	<RL		10
Ethylbenzene	1.2	J	10
Methylene chloride	13	J	21
Styrene	<RL		10
Tetrachloroethene	<RL		10
Toluene	6.0	J	10
trans-1,2-Dichloroethene	<RL		10
trans-1,3-Dichloropropene	<RL		10
Trichloroethene	<RL		10
Trichlorofluoromethane	<RL		10
Vinyl acetate	<RL		210
Vinyl chloride	<RL		10
Xylenes (Total)	3.4	J	10

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/23/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	140		

ANALYSIS: X Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/27/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 11-142)	151	Z	
Tetrachloro-m-xylene (Range 20-151)	84		

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/22/01 Date Analyzed: 8/22/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	108		
4-Bromofluorobenzene (Range 75-135)	114		
Toluene-d8 (Range 83-126)	118		

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/21/01 Date Analyzed: 8/30/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: AC18746 **Accura Project #:** 28617

Client: Roy F. Weston, Inc.-Illinois Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: GI-SS155-A6-01-01

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	91		1.0

ANALYSIS: Metals - Mercury - RCRA Method Ref: 7471A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/20/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Mercury	0.26	J	0.55

ANALYSIS: Metals - RCRA Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/31/01 Date Analyzed: 9/2/01 Result Units: mg/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Arsenic	13		5.5
Barium	120		11
Cadmium	2.6		1.1
Chromium	85		11
Lead	100	J	11
Selenium	<RL		11
Silver	<RL		11

ANALYSIS: PCB's Method Ref: 8082

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/23/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Aroclor-1016	<RL		18
Aroclor-1221	<RL		37
Aroclor-1232	<RL		37
Aroclor-1242	<RL		18
Aroclor-1248	<RL		18
Aroclor-1254	<RL		18
Aroclor-1260	41		18

ANALYSIS: Pesticides Method Ref: 8081A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/27/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
4,4'-DDD	<RL		18
4,4'-DDE	<RL		18
4,4'-DDT	<RL		37

Aldrin	<RL		18
alpha-BHC	<RL		18
alpha-Endosulfan	<RL		18
beta-BHC	<RL		18
beta-Endosulfan	<RL		18
delta-BHC	<RL		18
Dieldrin	32		18
Endosulfan sulfate	<RL		18
Endrin	<RL		18
Endrin aldehyde	<RL		18
Endrin ketone	<RL		18
gamma-BHC (Lindane)	<RL		18
Heptachlor	<RL		18
Heptachlor epoxide	<RL		18
Methoxychlor	<RL		92
Total Chlordane-Technical	<RL		180
Toxaphene	<RL		920

ANALYSIS: SVOC's Method Ref: 8270C

Date Ext/Dig/Prep: 8/21/01 Date Analyzed: 8/29/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2,4-Trichlorobenzene	<RL		3700
1,2-Dichlorobenzene	<RL		3700
1,3-Dichlorobenzene	<RL		3700
1,4-Dichlorobenzene	<RL		3700
1-Methylnaphthalene	<RL		3700
2,4,5-Trichlorophenol	<RL		3700
2,4,6-Trichlorophenol	<RL		3700
2,4-Dichlorophenol	<RL		3700
2,4-Dimethylphenol	<RL		3700
2,4-Dinitrophenol	<RL		18000
2,4-Dinitrotoluene	<RL		3700
2,6-Dinitrotoluene	<RL		3700
2-Chloronaphthalene	<RL		3700
2-Chlorophenol	<RL		3700
2-Methylnaphthalene	<RL		3700
2-Methylphenol	<RL		3700
2-Nitroaniline	<RL		7300
2-Nitrophenol	<RL		3700
3,3'-Dichlorobenzidine	<RL		3700
3,4-Methylphenol	<RL		7300
3-Nitroaniline	<RL		7300
4,6-Dinitro-2-methylphenol	<RL		7300
4-Bromophenyl phenyl ether	<RL		3700
4-Chloro-3-methylphenol	<RL		3700
4-Chloroaniline	<RL		3700
4-Chlorophenyl phenyl ether	<RL		3700
4-Nitroaniline	<RL		7300
4-Nitrophenol	<RL		7300
Acenaphthene	<RL		3700
Acenaphthylene	<RL		3700
Anthracene	550	J	3700
Benzo(a)anthracene	1900	J	3700
Benzo(a)pyrene	1500	J	3700
Benzo(b)fluoranthene	1500	J	3700

Benzo(g,h,i)perylene	<RL		3700
Benzo(k)fluoranthene	<RL		3700
Benzoic acid	<RL		18000
Benzyl alcohol	<RL		3700
bis(2-Chloroethoxy)methane	<RL		3700
bis(2-Chloroethyl)ether	<RL		3700
bis(2-Chloroisopropyl)ether	<RL		3700
bis(2-Ethylhexyl)phthalate	<RL		3700
Butyl benzyl phthalate	<RL		3700
Chrysene	2300	J	3700
Dibenz(a,h)anthracene	<RL		3700
Dibenzofuran	<RL		3700
Diethylphthalate	<RL		3700
Dimethylphthalate	<RL		3700
Di-n-butylphthalate	<RL		3700
Di-n-octylphthalate	<RL		3700
Fluoranthene	4800		3700
Fluorene	<RL		3700
Hexachlorobenzene	<RL		3700
Hexachlorobutadiene	<RL		3700
Hexachlorocyclopentadiene	<RL		3700
Hexachloroethane	<RL		3700
Indeno(1,2,3-cd)pyrene	<RL		3700
Isophorone	<RL		3700
Naphthalene	<RL		3700
Nitrobenzene	<RL		3700
N-Nitroso-di-n-propylamine	<RL		3700
N-Nitrosodiphenylamine	<RL		3700
Pentachlorophenol	<RL		7300
Phenanthrene	3500	J	3700
Phenol	<RL		3700
Pyrene	3500	J	3700

ANALYSIS: VOC's - AAL Stnd List Method Ref: 8260B

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/20/01 Result Units: ug/Kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1-Trichloroethane	<RL		5.6
1,1,2,2-Tetrachloroethane	<RL		5.6
1,1,2-Trichloroethane	<RL		5.6
1,1-Dichloroethane	<RL		5.6
1,1-Dichloroethene	<RL		5.6
1,2-Dichloroethane	<RL		5.6
1,2-Dichloropropane	<RL		5.6
2-Butanone (MEK)	16	JB	56
2-Chloroethyl vinyl ether	<RL		56
2-Hexanone (MBK)	<RL		56
4-Methyl-2-pentanone (MIBK)	<RL		56
Acetone	130	B	56
Benzene	9.4		5.6
Bromodichloromethane	<RL		5.6
Bromoform	83		5.6
Bromomethane	<RL		5.6
Carbon disulfide	5.9	J	11
Carbon tetrachloride	<RL		5.6
Chlorobenzene	<RL		5.6

Chloroethane	<RL		5.6
Chloroform	1.7	J	5.6
Chloromethane	<RL		5.6
cis-1,2-Dichloroethene	<RL		5.6
cis-1,3-Dichloropropene	<RL		5.6
Dibromochloromethane	<RL		5.6
Ethylbenzene	2.1	J	5.6
Methylene chloride	<RL		11
Styrene	<RL		5.6
Tetrachloroethene	4.2	J	5.6
Toluene	6.8		5.6
trans-1,2-Dichloroethene	<RL		5.6
trans-1,3-Dichloropropene	<RL		5.6
Trichloroethene	<RL		5.6
Trichlorofluoromethane	<RL		5.6
Vinyl acetate	<RL		110
Vinyl chloride	<RL		5.6
Xylenes (Total)	4.5	J	5.6

ANALYSIS: X PCB Sample Surrogates (soil) Method Ref: 8082

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/23/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 19-203)	152		

ANALYSIS: X Pest Sample Surrogate (soils) Method Ref: 8081A

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/27/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Decachlorobiphenyl (Range 11-142)	210	Z	
Tetrachloro-m-xylene (Range 20-151)	81		

ANALYSIS: X VOC Sample Surrogates-Soil Method Ref: 5035/8260B

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/20/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (Range 60-136)	102		
4-Bromofluorobenzene (Range 75-135)	120		
Toluene-d8 (Range 83-126)	115		

ANALYSIS: X SVOC Sample Surrogates (Soils) Method Ref: 8270C

Date Ext/Dig/Prep: 8/21/01 Date Analyzed: 8/29/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
2,4,6-Tribromophenol (Range 20-110)	<RL	DO	
2-Fluorobiphenyl (Range 30-110)	<RL	DO	
2-Fluorophenol (Range 22-96)	<RL	DO	
Nitrobenzene-d5 (Range 22-104)	<RL	DO	
Phenol-d6 (Range 25-100)	<RL	DO	
p-Terphenyl-d14 (Range 30-130)	<RL	DO	

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LABORATORY REPORT

Accura Sample ID #: **AC18747** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-G2-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	98		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/31/01 Date Analyzed: 9/1/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	270		26

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LABORATORY REPORT

Accura Sample ID #: **AC18748** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-G02-02-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/31/01 Date Analyzed: 9/1/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	92		5.4

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LABORATORY REPORT

Accura Sample ID #: **AC18749** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-G2-01-01DUP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	98		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep 8/31/01 Date Analyzed: 9/1/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	93		10

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LABORATORY REPORT

Accura Sample ID #: AC18750 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-I01-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/31/01 Date Analyzed: 9/1/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	140		5.4

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LABORATORY REPORT

Accura Sample ID #: **AC18751** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-I01-01-01DP**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	93		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/31/01 Date Analyzed: 9/1/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	240		5.4

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LABORATORY REPORT

Accura Sample ID #: AC18752 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS155-J02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	89		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/31/01 Date Analyzed: 9/1/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	280		5.6

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LABORATORY REPORT

Accura Sample ID #: **AC18753** **Accura Project #:** **28617**

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS158-E1-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	90		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/31/01 Date Analyzed: 9/1/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	170		5.6

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LABORATORY REPORT

Accura Sample ID #: AC18754 **Accura Project #:** 28617

Client: **Roy F. Weston, Inc.-Illinois** Date Sampled: 8/15/01

Client Contact: D. BHOJWANI Date Received: 8/16/01

Client Project Number: 20074-515-018-1601-00 Date Reported: 10/16/01

Client Project Name: GATEWAY INITIATIVE Sample Matrix: SOIL

Client Sample ID: **GI-SS136-D02-01-01**

ANALYSIS: % Solids Method Ref: EPA 160.3

Date Ext/Dig/Prep: 8/20/01 Date Analyzed: 8/21/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Solids	92		1.0

ANALYSIS: Metals - Lead Method Ref: 3050B/6010B

Date Ext/Dig/Prep: 8/31/01 Date Analyzed: 9/1/01 Result Units: mg/kg

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	460		5.4

Analytical Report for :

Weston Solutions, Inc.- Illinois

Project Name : Mississippi River Gateway Initiative

Project Number: 20074.515.018.1801.00

Project Manager: Deepak Bhojwani

Lab. Work Order # : 1882

July 19, 2002

ACCURA Analytical Laboratory, Inc. - 6017 Financial Drive - Norcross, GA 30071
Phone: 770-449-8800 Fax: 770-449-5477

Summary of Analytical Results

Client ID: **GI-SSC-I1-01-01** Sample ID **1882-001** Date Collected: 04/16/2002 10:50
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 14:05

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	520	6.1	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	82	1.0	%

Client ID: **GI-SS155-Q1-01-01** Sample ID **1882-002** Date Collected: 04/16/2002 09:35
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 14:11

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	33	6.8	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	74	1.0	%

Summary of Analytical Results

Client ID: **GI-SS155-02-01-01** Sample ID **1882-003** Date Collected: 04/15/2002 17:20
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW7471A_TCLP Prep Chemist: Prashant Bagade Analyst: Prashant Bagade
Prep Method: SW7470A_DIG Prep Date: 04/29/02 Date Analyzed: 04/29/02
Prep Time: 08:30 Time Analyzed: 14:10

Mercury-TCLP by 1311/7470A	Result	Rep Limit	Units
Mercury	<R.L.	0.0200	mg/L

Analytical Method: SW5010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 14:16

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	160	6.4	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	78	1.0	%

Analytical Method: SW6010B_TCLP Prep Chemist: Migdalia Alvarado Analyst: Migdalia Alvarado
Prep Method: SW3010A Prep Date: 04/26/02 Date Analyzed 04/26/02
Prep Time: 11:00 Time Analyzed 16:32

TCLP Metals by SW1311/6010B	Result	Rep Limit	Units
Chromium	<R.L.	1.0	mg/L
Lead	<R.L.	1.0	mg/L
Selenium	<R.L.	1.0	mg/L
Silver	<R.L.	1.0	mg/L
Cadmium	<R.L.	1.0	mg/L
Arsenic	<R.L.	1.0	mg/L
Barium	<R.L.	1.0	mg/L

Summary of Analytical Results

Client ID: **GI-SSF-F2-01-01** Sample ID **1882-004** Date Collected: 04/17/2002 16:14
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW7471A Prep Chemist: Prashant Bagade Analyst: Prashant Bagade
Prep Method: SW7471_DIG Prep Date: 04/30/02 Date Analyzed: 05/01/02
Prep Time: 10:30 Time Analyzed: 09:41

Mercury by SW7471A	Result	Rep Limit	Units
Mercury	<R.L.	0.57	mg/kg

Analytical Method: SW7471A_TCLP Prep Chemist: Prashant Bagade Analyst: Prashant Bagade
Prep Method: SW7470A_DIG Prep Date: 04/29/02 Date Analyzed: 04/29/02
Prep Time: 08:30 Time Analyzed: 14:13

Mercury-TCLP by 1311/7470A	Result	Rep Limit	Units
Mercury	<R.L.	0.0200	mg/L

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	88	1	%

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 16:55

RCRA Metals by SW6010B	Result	Rep Limit	Units
Arsenic	<R.L.	5.7	mg/kg
Barium	70	5.7	mg/kg
Cadmium	1.9	0.57	mg/kg
Chromium	<R.L.	5.7	mg/kg
Lead	200	6.0	mg/kg
Selenium	<R.L.	5.7	mg/kg
Silver	<R.L.	5.7	mg/kg

Summary of Analytical Results

Client ID: **GI-SSF-F2-01-01** Sample ID **1882-004** Date Collected: 04/17/2002 16:14
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B_TCLP Prep Chemist: Migdalia Alvarado Analyst: Migdalia Alvarado
Prep Method: SW3010A Prep Date: 04/26/02 Date Analyzed: 04/26/02
Prep Time: 11:00 Time Analyzed: 16:37

TCLP Metals by SW1311/6010B	Result	Rep Limit	Units
Chromium	<R.L.	1.0	mg/L
Lead	<R.L.	1.0	mg/L
Selenium	<R.L.	1.0	mg/L
Silver	<R.L.	1.0	mg/L
Cadmium	<R.L.	1.0	mg/L
Arsenic	<R.L.	1.0	mg/L
Barium	<R.L.	1.0	mg/L

Client ID: **GI-SS185-02-01-01** Sample ID **1882-005** Date Collected: 04/15/2002 10:55
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 14:42

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	2100	6.3	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	79	1	%

Summary of Analytical Results

Client ID: **GI-SS185-02-01-01DP** Sample ID **1882-006** Date Collected: 04/15/2002 10:55
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 14:47

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	820	6.2	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	81	1	%

Summary of Analytical Results

Client ID: **GI-SS136-I1-01-01** Sample ID **1882-007** Date Collected: 04/16/2002 08:57
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW7471A Prep Chemist: Prashant Bagade Analyst: Prashant Bagade
Prep Method: SW7471_DIG Prep Date: 04/30/02 Date Analyzed: 05/01/02
Prep Time: 10:30 Time Analyzed: 09:43

Mercury by SW7471A	Result	Rep Limit	Units
Mercury	0.65	0.58	mg/kg

Analytical Method: SW7471A_TCLP Prep Chemist: Prashant Bagade Analyst: Prashant Bagade
Prep Method: SW7470A_DIG Prep Date: 04/29/02 Date Analyzed: 04/29/02
Prep Time: 08:30 Time Analyzed: 14:15

Mercury-TCLP by 1311/7470A	Result	Rep Limit	Units
Mercury	<R.L.	0.0200	mg/L

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	86	1	%

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 17:00

RCRA Metals by SW6010B	Result	Rep Limit	Units
Arsenic	<R.L.	5.8	mg/kg
Barium	36	5.8	mg/kg
Cadmium	4.4	0.58	mg/kg
Chromium	21	5.8	mg/kg
Lead	300	6.0	mg/kg
Selenium	<R.L.	5.8	mg/kg
Silver	<R.L.	5.8	mg/kg

Summary of Analytical Results

Client ID: **GI-SS136-I1-01-01** Sample ID **1882-007** Date Collected: 04/16/2002 08:57
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B_TCLP Prep Chemist: Migdalia Alvarado Analyst: Migdalia Alvarado
Prep Method: SW3010A Prep Date: 04/26/02 Date Analyzed: 04/26/02
Prep Time: 11:00 Time Analyzed: 16:53

TCLP Metals by SW1311/6010B	Result	Rep Limit	Units
Chromium	<R.L.	1.0	mg/L
Lead	<R.L.	1.0	mg/L
Selenium	<R.L.	1.0	mg/L
Silver	<R.L.	1.0	mg/L
Cadmium	<R.L.	1.0	mg/L
Arsenic	<R.L.	1.0	mg/L
Barium	<R.L.	1.0	mg/L

Client ID: **GI-SS1-I5-01-01** Sample ID **1882-008** Date Collected: 04/16/2002 15:10
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed 14:58

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	480	6.1	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	82	1	%

Summary of Analytical Results

Client ID: **GI-SSI-I5-01-01DP** Sample ID **1882-009** Date Collected: 04/16/2002 15:10
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW5010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 15:03

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	1200	6.0	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	90	1	%

Client ID: **GI-SSA-A3-01-01** Sample ID **1882-010** Date Collected: 04/16/2002 11:52
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 17:05

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	650	34	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	73	1	%

Summary of Analytical Results

Client ID: **GI-SSE-C1-01-01** Sample ID **1882-011** Date Collected: 04/17/2002 14:44
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 15:14

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	350	6.3	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	79	1	%

Client ID: **GI-SSC-G1-01-01** Sample ID **1882-012** Date Collected: 04/17/2002 11:55
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 15:19

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	1200	6.3	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	80	1	%

Summary of Analytical Results

Client ID: **GI-SS141-AB01-01-01** Sample ID **1882-013** Date Collected: 04/15/2002 12:15
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 15:24

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	750	6.6	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	76	1	%

Client ID: ***GI-SSB-E2-01-01*** *Sample ID* ***1882-014*** *Date Collected: 04/16/2002 16:43*
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed 04/29/02
Prep Time: 11:00 Time Analyzed: 15:44

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	610	6.7	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	75	1	%

Summary of Analytical Results

Client ID: **GI-SS141-AD02-01-01** Sample ID **1882-015** Date Collected: 04/15/2002 14:45
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW7471A_TCLP Prep Chemist: Prashant Bagade Analyst: Prashant Bagade
Prep Method: SW7470A_DIG Prep Date: 04/29/02 Date Analyzed: 04/29/02
Prep Time: 08:30 Time Analyzed: 14:17

Mercury-TCLP by 1311/7470A	Result	Rep Limit	Units
Mercury	<R.L.	0.0200	mg/L

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst Prashant Bagade
Prep Method: SW3050B Prep Date: 04/26/02 Date Analyzed: 04/29/02
Prep Time: 11:00 Time Analyzed: 17:11

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	1700	33	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	75	1.0	%

Analytical Method: SW6010B_TCLP Prep Chemist: Migdalia Alvarado Analyst: Migdalia Alvarado
Prep Method: SW3010A Prep Date: 04/26/02 Date Analyzed: 04/26/02
Prep Time: 11:00 Time Analyzed: 16:58

TCLP Metals by SW1311/6010B	Result	Rep Limit	Units
Chromium	<R.L.	1.0	mg/L
Lead	<R.L.	1.0	mg/L
Selenium	<R.L.	1.0	mg/L
Silver	<R.L.	1.0	mg/L
Cadmium	<R.L.	1.0	mg/L
Arsenic	<R.L.	1.0	mg/L
Barium	<R.L.	1.0	mg/L

Summary of Analytical Results

Client ID: **GI-SS141-AD02-01-01I** Sample ID **1882-016** Date Collected: 04/15/2002 14:45
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW7471A_TCLP Prep Chemist: Prashant Bagade Analyst: Prashant Bagade
Prep Method: SW7470A_DIG Prep Date: 04/29/02 Date Analyzed: 04/29/02
Prep Time: 08:30 Time Analyzed: 14:20

Mercury-TCLP by 1311/7470A	Result	Rep Limit	Units
Mercury	<R.L.	0.0200	mg/L

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	75	1.0	%

Analytical Method: SW6010B_TCLP Prep Chemist: Migdalia Alvarado Analyst: Migdalia Alvarado
Prep Method: SW3010A Prep Date: 04/26/02 Date Analyzed: 04/26/02
Prep Time: 11:00 Time Analyzed: 17:02

TCLP Metals by SW1311/6010B	Result	Rep Limit	Units
Chromium	<R.L.	1.0	mg/L
Lead	<R.L.	1.0	mg/L
Selenium	<R.L.	1.0	mg/L
Silver	<R.L.	1.0	mg/L
Cadmium	<R.L.	1.0	mg/L
Arsenic	<R.L.	1.0	mg/L
Barium	<R.L.	1.0	mg/L

Client ID: **GI-SS141-Y2-01-01** Sample ID **1882-017** Date Collected 04/15/2002 14:45
Sample Depth: Matrix: SOIL Date Received 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Migdalia Alvarado
Prep Method: SW3050B Prep Date: 04/29/02 Date Analyzed: 04/30/02
Prep Time: 11:00 Time Analyzed: 11:34

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	930	6.7	mg/kg

Analytical Method CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	75	1	%

Summary of Analytical Results

Client ID: **GI-SSA-B2-01-01** Sample ID **1882-018** Date Collected: 04/16/2002 14:43
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Migdalia Alvarado
Prep Method: SW3050B Prep Date: 04/29/02 Date Analyzed: 04/30/02
Prep Time: 11:00 Time Analyzed: 11:39

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	770	7.1	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	70	1	%

Client ID: **GI-SS155-P1-01-01** Sample ID **1882-019** Date Collected: 04/15/2002 17:43
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst Migdalia Alvarado
Prep Method: SW3050B Prep Date: 04/29/02 Date Analyzed: 04/30/02
Prep Time: 11:00 Time Analyzed: 11:45

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	940	6.0	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	83	1	%

Summary of Analytical Results

Client ID: **GI-SSA-C2-01-01** Sample ID **1882-020** Date Collected: 04/16/2002 14:30
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Migdalia Alvarado
Prep Method: SW3050B Prep Date: 04/29/02 Date Analyzed: 04/30/02
Prep Time: 11:00 Time Analyzed: 11:50

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	1000	6.0	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/23/02 Date Analyzed: 04/23/02
Prep Time: 08:15 Time Analyzed: 08:15

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	90	1	%

Client ID: **GI-SS173-M2-01-01** Sample ID **1882-021** Date Collected: 04/16/2002 07:45
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW7471A Prep Chemist: Prashant Bagade Analyst: Prashant Bagade
Prep Method: SW7471_DIG Prep Date: 04/30/02 Date Analyzed: 05/01/02
Prep Time: 10:30 Time Analyzed: 09:45

Mercury by SW7471A	Result	Rep Limit	Units
Mercury	<R.L.	0.70	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/24/02 Date Analyzed: 04/24/02
Prep Time: 11:30 Time Analyzed: 11:30

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	71	1	%

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Migdalia Alvarado
Prep Method: SW3050B Prep Date: 04/29/02 Date Analyzed: 04/30/02
Prep Time: 11:00 Time Analyzed: 11:55

RCRA Metals by SW6010B	Result	Rep Limit	Units
Arsenic	9.9	7.0	mg/kg
Barium	540	7.0	mg/kg
Cadmium	20	0.70	mg/kg
Chromium	12	7.0	mg/kg
Lead	1200	7.0	mg/kg
Selenium	<R.L.	7.0	mg/kg
Silver	<R.L.	7.0	mg/kg

Summary of Analytical Results

Client ID: **GI-SS173-M2-01-01DP** Sample ID **1882-022** Date Collected: 04/16/2002 07:45
Sample Depth: Matrix: SOIL Date Received: 04/19/2002 09:30

Analytical Method: SW7471A Prep Chemist: Prashant Bagade Analyst: Prashant Bagade
Prep Method: SW7471_DIG Prep Date: 04/30/02 Date Analyzed: 05/01/02
Prep Time: 10:30 Time Analyzed: 09:48

Mercury by SW7471A	Result	Rep Limit	Units
Mercury	<R.L.	0.63	mg/kg

Analytical Method: CLP_SOLIDS Prep Chemist: Analyst: Kimbela Cameron
Prep Method: Prep Date: 04/24/02 Date Analyzed: 04/24/02
Prep Time: 11:30 Time Analyzed: 11:30

Percent Solids by CLP	Result	Rep Limit	Units
Percent Solids	79	1	%

Analytical Method: SW6010B Prep Chemist: Migdalia Alvarado Analyst: Migdalia Alvarado
Prep Method: SW3050B Prep Date: 04/29/02 Date Analyzed: 04/30/02
Prep Time: 11:00 Time Analyzed: 12:01

RCRA Metals by SW6010B	Result	Rep Limit	Units
Arsenic	10	6.3	mg/kg
Barium	340	6.3	mg/kg
Cadmium	17	0.63	mg/kg
Chromium	14	6.3	mg/kg
Lead	7000	6.3	mg/kg
Selenium	<R.L.	6.3	mg/kg
Silver	<R.L.	6.3	mg/kg

Client ID: Sample ID **11616 BLK** Date Collected:
Sample Depth: Matrix: SOIL Date Received:

Analytical Method: SW7471A_TCLP Prep Chemist: Prashant Bagade Analyst: Prashant Bagade
Prep Method: SW7470A_DIG Prep Date: 04/29/02 Date Analyzed: 04/29/02
Prep Time: 08:30 Time Analyzed: 14:01

Mercury-TCLP by 1311/7470A	Result	Rep Limit	Units	
Mercury	<R.L.	0.0200	mg/L	U

Summary of Analytical Results

Client ID:	Sample ID **11622 BLK**	Date Collected:
Sample Depth:	Matrix: SOIL	Date Received:

Analytical Method: SW6010B_TCLP	Prep Chemist: Migdalia Alvarado	Analyst: Migdalia Alvarado
Prep Method: SW3010A	Prep Date: 04/26/02	Date Analyzed: 04/26/02
	Prep Time: 11:00	Time Analyzed: 15:58

TCLP Metals by SW1311/6010B	Result	Rep Limit	Units
Chromium	<R.L.	1.0	mg/L
Lead	<R.L.	1.0	mg/L
Selenium	<R.L.	1.0	mg/L
Silver	<R.L.	1.0	mg/L
Cadmium	<R.L.	1.0	mg/L
Arsenic	<R.L.	1.0	mg/L
Barium	<R.L.	1.0	mg/L

Client ID:	Sample ID **11635 BLK**	Date Collected:
Sample Depth:	Matrix: SOIL	Date Received:

Analytical Method: SW6010B	Prep Chemist: Migdalia Alvarado	Analyst: Prashant Bagade
Prep Method: SW3050B	Prep Date: 04/26/02	Date Analyzed: 04/29/02
	Prep Time: 11:00	Time Analyzed: 13:28

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	<R.L.	5.0	mg/kg

Analytical Method: SW6010B	Prep Chemist: Migdalia Alvarado	Analyst: Prashant Bagade
Prep Method: SW3050B	Prep Date: 04/26/02	Date Analyzed: 04/29/02
	Prep Time: 11:00	Time Analyzed: 13:28

SW6010RCRA	Result	Rep Limit	Units
Arsenic	<R.L.	5.0	mg/kg
Barium	<R.L.	5.0	mg/kg
Cadmium	<R.L.	0.50	mg/kg
Chromium	<R.L.	5.0	mg/kg
Lead	<R.L.	5.0	mg/kg
Selenium	<R.L.	5.0	mg/kg
Silver	<R.L.	5.0	mg/kg

Summary of Analytical Results

Client ID:	Sample ID **11639 BLK**	Date Collected:
Sample Depth:	Matrix: SOIL	Date Received:

Analytical Method: SW7471A	Prep Chemist: Prashant Bagade	Analyst: Prashant Bagade
Prep Method: SW7471_DIG	Prep Date: 04/30/02	Date Analyzed: 05/01/02
	Prep Time: 10:30	Time Analyzed: 09:36

Mercury by SW7471A	Result	Rep Limit	Units	
Mercury	<R.L.	0.50	mg/kg	U

Client ID:	Sample ID **11640 BLK**	Date Collected:
Sample Depth:	Matrix: SOIL	Date Received:

Analytical Method: SW6010B	Prep Chemist: Migdalia Alvarado	Analyst: Migdalia Alvarado
Prep Method: SW3050B	Prep Date: 04/29/02	Date Analyzed: 04/30/02
	Prep Time: 11:00	Time Analyzed: 11:18

Metals - Total by SW6010B	Result	Rep Limit	Units
Lead	<R.L.	5.0	mg/kg

Analytical Method: SW5010B	Prep Chemist: Migdalia Alvarado	Analyst: Migdalia Alvarado
Prep Method: SW3050B	Prep Date: 04/29/02	Date Analyzed: 04/30/02
	Prep Time: 11:00	Time Analyzed: 11:18

SW6010RCRA	Result	Rep Limit	Units
Arsenic	<R.L.	5.0	mg/kg
Barium	<R.L.	5.0	mg/kg
Cadmium	<R.L.	0.50	mg/kg
Chromium	<R.L.	5.0	mg/kg
Lead	<R.L.	5.0	mg/kg
Selenium	<R.L.	5.0	mg/kg
Silver	<R.L.	5.0	mg/kg

ACCURA ANALYTICAL LABORATORY, INC.

33007

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: [illegible] Billing address: SAME

Address: [illegible] Client P.O. # 20074.515.018.1801.00

Report Sent to: (Client Contact): Deepak Bhojwani

Contact Phone # 847 918 4105 Fax # 847 918 4055

Project Name: Mississippi River Gateway Initiative

Project Number: same as PO

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Custody Seal: Y N Page [illegible] OF

QC Level: N 1 2 3 4 Init/Temp:

Sample Condition: AAL Lab Project #

Samplers: (signature)

Samplers: (printed)

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Lead	RCRA Metals	TCLP Metals							Remarks	Accura Sample ID No. AB
[illegible]	[illegible] 10:50		X				1	X										
[illegible]	[illegible] 9:35		X				1	X										
[illegible]	[illegible]		X				2	X		X								
[illegible]	[illegible] 16:04		X				2		X	X								
[illegible]	[illegible]		X				1	X										
[illegible]	[illegible]		X				1	X										
[illegible]	[illegible] 8:5		X				2		X	X								
[illegible]	[illegible]		X				1	X										
[illegible]	[illegible]		X				1	X										
[illegible]	[illegible] 10:55		X				1	X										

13

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[illegible]	[illegible] PM			
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2 XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

33008

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Roy F. Weston Inc. Billing address: SAME

Address: Two East Bank Court, Suite 500 Vernon Hills, IL Client P.O. # 2.3374.515.018.1801.00

Report Sent to: (Client Contact): Deepak Bhojwani 60061

Contact Phone # (847) 918 4055 Fax # (847) 918 4055

Project Name: Mississippi River Gateway Initiative

Project Number: [illegible] P.O.

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Custody Seal: Y N Page ___ OF ___

QC Level: N 1 2 3 4 Init/Temp:

Sample Condition: AAL Lab Project #

Samplers: (signature) [illegible]

Samplers: (printed) [illegible]

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Lead	RCRA Metals	TCLP Metals	Remarks	Accura Sample ID No. AB
GT-SS13-M2	4/16/02 7:45		X				1	X				
GT-SS13-M2-01 MATRIX	4/16/02 7:45		X				1	X				

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[illegible]	4/18/02 1420			
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2 XLS

33006

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Ray F. Weston, Inc.
Billing address: Same
Address: 750 East Bunker Court Suite 500 Vernon Hills
Client P.O. # 20074.515.018.1801.00
Report Sent to: (Client Contact): Deepal Bhagwani IL 60061
Contact Phone # 847 918 4005 Fax # 847 918 4055
Project Name: Mississippi River Gateway Initiative
Project Number: Same as P.O.

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Custody Seal: Y N Page OF
QC Level: N 1 2 3 4 Init/Temp:
Sample Condition: AAL Lab Project #

Samplers: (signature) [illegible]
Samplers: (printed) [illegible]

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: Lead	RCRA Metals	TCLP Metals							Remarks	Accura Sample ID No. AB
GI-SSE-C1-01-01	4/17/02 14:44		X				1	X										
GI-SSE-G1-01-01	4/17/02 11:55		X				1	X										
GI-SSI-A-01-01	4/15/02 12:15		X				1	X										
GI-SSB-E2-01-01	4/16/02 16:4[illegible]		X				1	X										
GI-SSI-A-02-01-01	4/15/02 14:4[illegible]		X				2	X		X								
GI-SSI-A-02-01-01	4/15/02 14:4[illegible]		X				1			X								
GI-SSI-A2-01-01	4/15/02 14:45		X				1	X										
GI-SSA-E2-01-01	4/16/02 14:4[illegible]		X				1	X										
GI-SSI55-P1-01-01	4/15/02 17:4[illegible]		X				1	X										
GI-SSA-C2-01-01	4/16/02 14:[illegible]		X				1	X										

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[illegible]	4/1[illegible] 0940			
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2.XLS