

ENVIRONMENTAL COVENANT

This Environmental Covenant is entered into by the United States of America, acting through the United States Department of Energy (USDOE), the United States Environmental Protection Agency (US EPA) and the Ohio Environmental Protection Agency (Ohio EPA) pursuant to Ohio Revised Code (ORC) §5301.80 to 5301.92, and the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"), as amended, 42 U.S.C. §§ 9601-9675, for the purpose of subjecting the Property to the activity and use limitations set forth herein.

Whereas USDOE and US EPA entered into a federal facility agreement (FFA) under Section 120(e) of CERCLA, 42 U.S.C. 9620(e) in June 1990 for the completion by USDOE of all necessary remedial action at USDOE's Mound, Ohio facility; and

Whereas Ohio EPA became a party with USDOE and US EPA to a revised FFA on July 15, 1993; and

Whereas, in accordance with the FFA, a Record of Decision ("ROD") selecting a remedy to address contaminated soil and ground water at Parcel 9 of the Mound facility was issued in June 1995;

Whereas, a Record of Decision Amendment of the Operable Unit 1 ("OU-1") ROD was completed in September 2011; OU-1 is located within Parcel 9 of the Mound property; and

Whereas, the remedy for Parcel 9 requires certain restrictions on the use of the Property.

Now therefore, US DOE, US EPA and Ohio EPA agree to the following:

1. Environmental Covenant. This instrument is an environmental covenant developed and executed pursuant to ORC §5301.80 to 5301.92.

2. Property. This Environmental Covenant concerns an approximately 23 acre tract of real property identified as Parcel 9, owned by USDOE, located in Miamisburg, Montgomery County, Ohio, and more particularly described in Exhibit A attached hereto and hereby incorporated by reference herein (Property). The larger Mound property within which Parcel 9 is located is approximately 306 acres in size and is more particularly described in Exhibit B attached hereto. The environmental condition of said property is described in the Parcel 9, CERCLA 120(h) Summary attached hereto as Exhibit C.

3. Environmental Response Project. The response actions performed or to be performed to implement the remedy selected in the Record of Decision dated June 1995 and the Record of Decision Amendment dated September 2011 for Parcel 9 of the Mound facility are an Environmental Response Project as defined in ORC § 5301.80(E). An administrative record for the Record of Decision for Parcel 9 is maintained by USDOE at the DOE-Legacy Management Business Center, 99 Research Park Road, Morgantown, WV 26505 and at www.lm.doe.gov/mound.

4. Owner. The United States of America, acting through the United States Department of Energy, is the current owner of the Property.

5. Holder. The United States Department of Energy, headquartered at 1000 Independence Avenue SW, Washington, DC 20585 is the holder of this Environmental Covenant.

6. Agency. US EPA and any successor agency and its respective officer, agents, contractors and other invitees is the "Agency" as defined in ORC § 5301.80(B) and the "Applicable Agency" as that term is used in ORC §§ 5301.80 to 5301.92 because US EPA determines or approves the Environmental Response Project pursuant to which this covenant was created.

7. Activity and Use Limitations. As part of the remedial action described in the Record of Decision dated June 1995 and Record of Decision Amendment dated September 2011 for Parcel 9, Owner hereby imposes and agrees to comply with the following activity and use limitations:

- a. Limitation on movement of soil. No soil from the Property shall be placed on any property outside the boundaries of the Mound property, described in Exhibit B, without prior written approval from Ohio Department of Health (ODH), Ohio EPA and US EPA, or successor agencies.
- b. Prohibition against residential use or farming activities. The Property shall not be used for any residential or farming activities, or any other activities which result in the chronic exposure of children under eighteen years of age to soil or ground water from the Property. Prohibited uses shall include, but not be limited to:

- (1) Single or multi-family dwellings or rental units;

- (2) Day care facilities;
- (3) Schools or other educational facilities for children under eighteen years of age; and
- (4) Community centers, playgrounds or other recreational or religious facilities for children under eighteen years of age.

c. Prohibition against use of ground water. Ground water under the Property shall not be extracted, consumed, exposed or used in any way without prior written approval of US EPA and Ohio EPA.

8. Running with the Land. This Environmental Covenant shall be binding upon the Owner and all assigns and successors in interest, including any Transferee, and shall run with the land, pursuant to ORC §5301.85, subject to amendment or termination as set forth herein. The term "Transferee," as used in this Environmental Covenant, shall mean any future owner of any interest in the Property or any portion thereof, including, but not limited to, owners of an interest in fee simple, mortgagees, easement holders, and/or lessees.

9. Compliance Enforcement. Compliance with this Environmental Covenant may be enforced pursuant to ORC §5301.91. Failure to timely enforce compliance with this Environmental Covenant or the activity and use limitations contained herein by any party shall not bar subsequent enforcement by such party and shall not be deemed a waiver of the party's right to take action to enforce any non-compliance. Nothing in this Environmental Covenant shall restrict US DOE, US EPA or the Director of Ohio EPA from exercising any authority under applicable law.

10. Rights of Access. Owner hereby grants to US EPA, Ohio EPA and ODH, their agents, contractors, and employees the right of access to the Property for implementation or enforcement of this Environmental Covenant. Any Transferee shall grant to US EPA, Ohio EPA, ODH, US DOE, its agents, contractors and employees the right of access to the Property for implementation or enforcement of this Environmental Covenant.

11. Compliance Reporting. US DOE, or its successors or assigns, shall submit to US EPA, Ohio EPA and ODH on an annual basis written documentation, in accordance with the Record of Decision for Parcel 9 dated June 1995 and the Record of Decision Amendment dated September 2011 for Parcel 9, verifying that the activity and use limitations are being complied with and remain in place.

12. Notice upon Conveyance. Each instrument hereafter conveying any interest in the Property or any portion of the Property shall contain a notice of the activity and use limitations set forth in this Environmental Covenant, and provide the recorded location of this Environmental Covenant. The notice shall be substantially in the following form:

“THE INTEREST CONVEYED HEREBY IS SUBJECT TO AN ENVIRONMENTAL COVENANT, DATED _____, 20__, RECORDED IN THE DEED OR OFFICIAL RECORDS OF THE MONTGOMERY COUNTY RECORDER ON _____, 20__, IN [DOCUMENT _____, or BOOK ____, PAGE _____]. THE ENVIRONMENTAL COVENANT CONTAINS THE FOLLOWING ACTIVITY AND USE LIMITATIONS:

Prohibition against residential use and farming activities; prohibition against use of groundwater; prohibition against removal of soil from Mound property.

Owner or transferee, if applicable, shall notify Ohio EPA within ten (10) days after each conveyance of an interest of the Property or any portion thereof. The notice shall include the name, address, and telephone number of the Transferee, a copy of the deed or other documentation evidencing the conveyance, and a survey map that shows the boundaries of the property being transferred.”

13. Representations and Warranties. US DOE hereby represents and warrants to the other signatories hereto:

- A. that the US DOE is the sole owner of the Property;
- B. that the US DOE holds fee simple title to the Property which is free, clear and unencumbered;
- C. that the US DOE has the power and authority to enter into this Environmental Covenant, to grant the rights and interests herein provided and to carry out all obligations hereunder;
- D. that the US DOE has identified all other persons that own an interest in or hold an encumbrance on the Property and notified such persons of the Owner's intention to enter into this Environmental Covenant; and

- E. that this Environmental Covenant will not materially violate or contravene or constitute a material default under any other agreement, document or instrument to which US DOE is a party or by which US DOE may be bound or affected.

14. Amendment or Termination. This Environmental Covenant may be amended or terminated by consent of all of the following: US DOE, any Transferee, US EPA, and Ohio EPA, pursuant to ORC §5301.90 and other applicable law. The term, "Amendment," as used in this Environmental Covenant, shall mean any changes to the Environmental Covenant, including the activity and use limitations set forth herein, or the elimination of one or more activity and use limitations when there is at least one limitation remaining. The term, "Termination," as used in this Environmental Covenant, shall mean the elimination of all activity and use limitations set forth herein and all other obligations under this Environmental Covenant.

This Environmental Covenant may be amended or terminated only by a written instrument duly executed by the US DOE, US EPA, the Director of Ohio EPA and the Transferee, if any, of the Property or portion thereof, as applicable. Within thirty (30) days of signature by all requisite parties on any amendment or termination of this Environmental Covenant, the Owner or Transferee shall file such instrument for recording with the Montgomery County Recorder's Office, and shall provide a file- and date-stamped copy of the recorded instrument to Ohio EPA.

15. Severability. If any provision of this Environmental Covenant is found to be unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired.

16. Governing Law. This Environmental Covenant shall be governed by and interpreted in accordance with the laws of the State of Ohio.

17. Recordation. Within thirty (30) days after the date of the final required signature upon this Environmental Covenant, US DOE shall file this Environmental Covenant for recording, in the same manner as a deed to the Property, with the Montgomery County Recorder's Office.

18. Effective Date. The effective date of this Environmental Covenant shall be the date upon which the fully executed Environmental Covenant has been recorded as a deed record for the Property with the Montgomery County Recorder.

19. Distribution of Environmental Covenant. US DOE shall distribute a file- and date-stamped copy of the recorded Environmental Covenant to: US EPA, Ohio EPA, ODH and the City of Miamisburg.

20. Notice. Unless otherwise notified in writing by or on behalf of the current owner or US DOE, any document or communication required by this Environmental Covenant shall be submitted to:

Regional Project Manager, Mound Site
US EPA, Region V – SR-6J
77 West Jackson Boulevard
Chicago, IL 60604

Site Coordinator, Mound Site
Division of Environmental Response and Revitalization
Ohio EPA-Southwest District Office
401 East 5th Street
Dayton, OH 45402

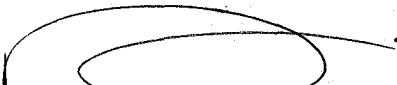
LM Site Manager
10995 Hamilton-Cleves Road
Harrison, OH 45030

U.S. DOE/LM-2012
11025 Dover Street, Suite 1000
Westminster, CO 80021-5573

The undersigned representative of Owner represents and certifies that he is authorized to execute this Environmental Covenant.

IT IS SO AGREED:

United States Department of Energy



Bud Sokolovich, Realty Officer

11/2/11

Date

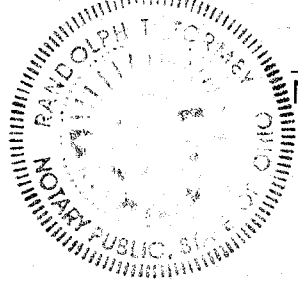
OU-1 in Parcel 9
USDOE Mound Facility
Page 7

State of OHIO)
County of HAMILTON)

ss:

Before me, a notary public, in and for said county and state, personally appeared Bud Sokolovich, a duly authorized representative of the US Department of Energy (DOE), who acknowledged to me that he did execute the foregoing instrument on behalf of DOE

IN TESTIMONY WHEREOF, I have subscribed my name and affixed my official seal this 2 day of November, 2011.



Randolph Torney
Notary Public

RANDOLPH T. TORMEY
NOTARY PUBLIC-STATE OF OHIO
My Commission Has No Expiration Date
(O.R.C. Section 147.03)

OHIO ENVIRONMENTAL PROTECTION AGENCY

Scott J. Nally, Director

Date

State of Ohio)
County of Franklin)
ss:

Before me, a notary public, in and for said county and state, personally appeared Scott J. Nally, the Director of Ohio EPA, who acknowledged to me that he did execute the foregoing instrument on behalf of Ohio EPA.

IN TESTIMONY WHEREOF, I have subscribed my name and affixed my official seal this ____ day of _____, 20__.

Notary Public

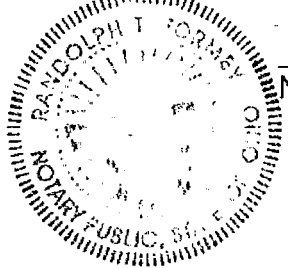
OU-1 in Parcel 9
USDOE Mound Facility
Page 7

State of OHIO)
County of HAMILTON)

ss:

Before me, a notary public, in and for said county and state, personally appeared Bud Sokolovich, a duly authorized representative of the US Department of Energy (DOE), who acknowledged to me that he did execute the foregoing instrument on behalf of DOE

IN TESTIMONY WHEREOF, I have subscribed my name and affixed my official seal this 2 day of November, 2011.



Randolph Torney
Notary Public

RANDOLPH T. TORNEY
NOTARY PUBLIC-STATE OF OHIO
My Commission Has No Expiration Date
(O.R.C. Section 147.03)

OHIO ENVIRONMENTAL PROTECTION AGENCY

[Signature]
Scott J. Nally, Director

11/17/11
Date

State of Ohio)
County of Franklin)
ss:

Before me, a notary public, in and for said county and state, personally appeared Scott J. Nally, the Director of Ohio EPA, who acknowledged to me that he did execute the foregoing instrument on behalf of Ohio EPA.

IN TESTIMONY WHEREOF, I have subscribed my name and affixed my official seal this 17 day of November 2011

Brian C. Cook
Notary Public

BRIAN C. COOK, Attorney-At-Law
NOTARY PUBLIC-STATE OF OHIO
My commission has no expiration date.
Section 147.03 O.R.C.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Richard C Karl

Richard C. Karl
Director, Superfund Division, Region 5

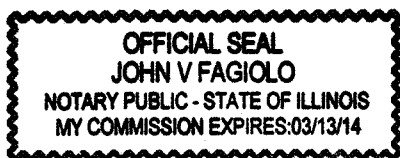
12-22-11

Date

State of Illinois)
)
County of Cook) ss:

Before me, a notary public, in and for said county and state, personally appeared RICHARD C. KARL, the Director, Superfund Division, of Region 5, US EPA, who acknowledged to me that he did execute the foregoing instrument on behalf of US EPA.

IN TESTIMONY WHEREOF, I have subscribed my name and affixed my official seal this 22nd day of DECEMBER 2011.



John V Fagiolo
Notary Public



Description of 23.148 Acres

Situated in the State of Ohio, County of Montgomery, City of Miamisburg, being part of Section 36, Fractional Township 2, Range 5, Miami Rivers Survey, being 23.148 acres out of Section 36, being part of City of Miamisburg Lot No. 4777 and Lot No. 2290, being 7.545 acres of land that lie over and across a 79.74 acre tract of land described in deed to the United States of America of record in Deed Microfiche No. 81-376A01, being 4.658 acres of land that lie over and across a 17.68 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 248, being 0.030 acres of land that lie over and across a 33.11 acre tract of land described in deed to the United States of America of record in Deed Book 1246, Page 45, being 2.295 acres of land that lie over and across a 20.46 acre tract of land described in deed to the United States of America of record in Deed Book 1215, Page 347, being 6.547 acres of land that lie over and across a 6.66 acre tract of land described in deed to the United States of America of record in Deed Book 1258, Page 56, being 0.529 acres of land that lie over and across a 0.54 acre tract of land described in deed to the United States of America of record in Deed Book 1215, Page 347, being 1.544 acres of land that lie over and across a 1.6 acre tract of land described in deed to the United States of America of record in Deed Book 1258, Page 74, and being more particularly described as follows:

COMMENCING for reference at a railroad spike found at the southeast corner of said Section 36 and the southwest corner of Section 30, Fractional Township 2, Range 5, Miami Rivers Survey and being an angle point in the southerly line of a 94.838 acre tract of land as described in deed to Miamisburg Mound Community Improvement Corporation of record in Deed Microfiche No. 02-128007-0040;

Thence North 05°16'47" East with the section line between Section 30 and Section 36 and crossing said 94.838 acre tract, a distance of 1353.00 feet to a point at the northeasterly corner of a 42.56 acre tract of land described in deed to the United States of America of record in Deed Microfiche No. 81-323A11;

Thence North 83°53'43" West with the northerly line of said 42.56 acre tract and the southerly line of said 79.74 acre tract, a distance of 1146.00 feet to an iron pin found at the southeasterly corner of said 1.6 acre tract, being the southwesterly corner of said 79.74 acre tract, and being the **TRUE POINT OF BEGINNING** of the tract to be described;

Thence North 84°16'50" West with the southerly line of said 1.6 acre tract and the northerly line of said 42.56 acre tract, a distance of 100.33 feet to an iron pin found at the southwesterly corner of said 1.6 acre tract and being on the easterly right of way line of the Consolidated Rail Corporation tract;

Thence North 09°25'27" West with said easterly right of way line and the westerly line of said 1.6 acre tract, a distance of 696.73 feet to an iron pin found at the northwesterly corner of said 1.6 acre tract and the southwesterly corner of said 0.54 acre tract;

Thence North 00°48'14" West with said easterly right of way line and the westerly line of said 0.54 acre tract, a distance of 616.70 feet to a concrete monument found;

Thence North 84°55'06" East with said right of way line and the northerly line of said 0.54 acre tract, a distance of 74.92 feet to an iron pin set at the northeasterly corner of said 0.54 acre tract, being the northwesterly corner of said 6.66 acre tract, and being the southwesterly corner of said 33.11 acre tract;

Thence North 79°29'02" East crossing said 33 11 acre tract, a distance of 98.70 feet to an iron pin set;

Thence crossing into and through said 17.68 acre tract with the following thirty-two courses and distances:

- 1.) North 83°59'02" East, a distance of 347.69 feet to an iron pin set;
- 2.) North 76°52'04" East, a distance of 79.92 feet to an iron pin set;
- 3.) North 63°02'39" East, a distance of 31.36 feet to an iron pin set;
- 4.) North 29°43'09" East, a distance of 122.02 feet to an iron pin set;
- 5.) North 54°03'57" East, a distance of 63.19 feet to an iron pin set;
- 6.) North 67°15'25" East, a distance of 240.29 feet to an iron pin set;
- 7.) North 57°23'02" East, a distance of 36.99 feet to an iron pin set;
- 8.) North 19°27'18" East, a distance of 13.71 feet to a surveyor's nail set;
- 9.) North 06°55'42" East, a distance of 33.94 feet to an iron pin set;
- 10.) South 69°49'16" West, a distance of 84.57 feet to an iron pin set;
- 11.) South 77°13'35" West, a distance of 89.22 feet to an iron pin set;
- 12.) South 09°29'45" West, a distance of 17.42 feet to an iron pin set;
- 13.) South 81°50'07" West, a distance of 28.32 feet to an iron pin set;
- 14.) North 57°54'36" West, a distance of 29.12 feet to an iron pin set;
- 15.) South 82°54'26" West, a distance of 197.88 feet to an iron pin set;
- 16.) South 79°49'02" West, a distance of 75.88 feet to an iron pin set;
- 17.) South 24°27'29" East, a distance of 99.13 feet to an iron pin set;
- 18.) South 75°54'00" West, a distance of 78.91 feet to an iron pin set;
- 19.) North 07°58'24" West, a distance of 93.66 feet to an iron pin set;
- 20.) North 05°28'40" West, a distance of 44.09 feet to an iron pin set;
- 21.) North 07°27'35" West, a distance of 227.31 feet to an iron pin set;
- 22.) North 83°13'43" East, a distance of 387.72 feet to an iron pin set;
- 23.) North 89°28'55" East, a distance of 397.71 feet to an iron pin set;
- 24.) South 01°39'10" East, a distance of 41.56 feet to an iron pin set;
- 25.) South 46°26'35" West, a distance of 201.86 feet to an iron pin set;

- 26.) South 04°41'32" West, a distance of 53.96 feet to an iron pin found;
- 27.) South 32°10'12" West, a distance of 60.23 feet to a railroad spike found;
- 28.) South 67°54'44" West, a distance of 195.34 feet to a railroad spike found;
- 29.) South 63°34'09" West, a distance of 106.73 feet to an iron pin found;
- 30.) South 51°02'43" West, a distance of 58.56 feet to an iron pin found;
- 31.) South 25°16'22" West, a distance of 89.08 feet to an iron pin found;
- 32.) South 50°24'09" West, a distance of 58.42 feet to an iron pin found in said 20.46 acre tract;

Thence crossing said 20.46 acre tract with the following five (5) courses and distances:

- 1.) South 14°15'31" East, a distance of 152.25 feet to an iron pin found;
- 2.) South 75°40'33" East, a distance of 22.83 feet to an iron pin found;
- 3.) South 21°04'56" West, a distance of 206.76 feet to an iron pin found;
- 4.) South 08°49'20" West, a distance of 94.67 feet to an iron pin found;
- 5.) South 05°38'00" West, a distance of 283.96 feet to an iron pin set on the southerly line of said 20.46 acre tract and the northerly line of said 79.74 acre tract;

Thence South 83°58'45" East with said line, a distance of 109.48 feet to an iron pin found;

Thence crossing said 79.74 acre tract with the following three (3) courses and distances:

- 1.) South 24°18'00" East, a distance of 459.08 feet to an iron pin found;
- 2.) South 24°26'31" East, a distance of 23.00 feet to an iron pin found;
- 3.) South 79°07'51" West, a distance of 666.49 feet to an iron pin found on the westerly line of said 79.74 acre tract and the easterly line of said 1.6 acre tract;

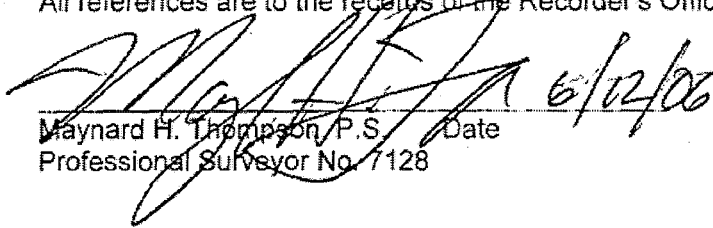
Thence South 09°23'41" East with said line, a distance of 60.41 feet to the **TRUE POINT OF BEGINNING**, containing 23.148 acres of land, more or less.

Subject however to all easements, restrictions and rights-of-way of record, if any.

Basis of Bearing is the section line between Sections 30 and 36 being North 05°16'47" East as determined by GPS measurements between Montgomery County Monuments 1057 and 1058 and the Ohio State Plane Coordinate System, South Zone. All iron pins Set are 5/8" solid iron pins 30" in length with an orange plastic cap stamped "Floyd Browne Group".

The above description is based on and referenced to an exhibit prepared by Floyd Browne Group dated 06-12-06, attached hereto and made a part hereof.

All references are to the records of the Recorder's Office, Montgomery County, Ohio.

 6/12/06

Maynard H. Thompson, P.S. Date
Professional Surveyor No. 7128



EXHIBIT B

1) LEGAL DESCRIPTION

Situate in the State of Ohio, County of Montgomery, in the City of Miamisburg, being a part of section 30 and fractional sections 35 and 36, Town 2, Range 5, Miami Rivers Survey (M.R.S.), and being all of city lots numbered 2259, 2290, 4777, 4778, 4779, 6127 and 6128, and part of out lot 6 lying within the corporation limits of the City of Miamisburg, being all of the tracts of land conveyed to the United States of America by instruments as recorded in Deed Book 1214 pages 10, 12, 15, and 17, Deed Book 1215, page 347, Deed Book 1214 page 248, Deed Book 1246 page 45, Deed Book 1258 page 74, Deed Book 1258 page 56, Deed Book 1256 page 179, Micro-Fiche 81-376A01, and Micro-Fiche 81-323A11 of the Deed Records of said County; and being more particularly bounded and described with bearings referenced to the Ohio State Plane Coordinate System, South Zone, as follows:

Beginning at a spike found (0.5' deep) and reset in concrete, being the Southwest corner of said section 30 and the Southeast corner of fractional section 36, said point being in the center of Benner Road (40 feet R/W) and being referenced North 84° 28' 10" West 3102.92 feet from a spike found (0.5' deep) at the intersection of the centerline of Mound Road (60 feet R/W) with the centerline of said Benner Road in said Miami Township, and being the true point of beginning for the land herein described; thence along the centerline of Benner road South 66° 32' 35" West 958.79 feet to a railroad spike found and reset in concrete; thence continuing along said centerline of Benner Road South 73° 18' 20" West 31.01 feet to a railroad spike found and reset in concrete, being a point in the East right-of-way line of the abandoned Miami and Erie Canal; thence leaving Benner Road and with said East right-of-way line for the following four courses: North 14° 05' 35" West 62.14 feet to an iron pin found; thence north 14° 11' 50" West 440.75 feet to an iron pin found; thence North 14° 47' 30" West 259.93 feet to an iron pin found; thence North 14° 45' 50" West 546.20 feet to an iron pin found and reset in concrete in the East right-of-way line of the Consolidated Railway Corporation; thence with said Conrail right-of-way line for the following 10 courses: North 75° 00' 55" East 85.04 feet to an iron pin found and reset in concrete; thence North 37° 16' 35" East 96.65 feet to an iron pin set in concrete; thence North 80° 28' 05" East 66.00 feet to an iron pin found and reset in concrete; thence North 09° 31' 55" West 499.80 feet to a concrete monument found; thence North 09° 26' 35" West 696.85 feet to an iron pin set in concrete; thence North 0° 48' 25" West 616.81 feet to a concrete monument found; thence North 84° 43' 35" East 75.08 feet to an iron pin set in concrete; thence along the arc of a curve to the right having a radius of 3669.83 feet, being concentric with and 150 feet distant, measured Eastwardly at right angles, from the centerline between main tracks of said railroad; for a distance of 744.94 feet to a concrete monument set, the chord of said curve bears North 03° 17' 05" East 743.66 feet; thence South 84° 39' 20" East 150.34 feet to a concrete monument set; thence along the arc of a curve to the right having a radius of 3519.83 feet, being concentric with and 300 feet distant, measured Eastwardly at right angles, from the centerline between main tracks of said railroad, for a distance of 1640.97 feet to a

concrete monument found, the chord of said curve bears North 22° 36' 55" East 1626.15 feet; thence leaving said railroad right-of-way line South 84° 14' 50" East 102.31 feet to a concrete monument found; thence South 05° 37' 45" West 90.03 feet to a concrete monument found; thence North 65° 35' 50" East 809.36 feet to an iron pipe found and being referenced South 05° 47' 45" West 130.89 feet from a concrete monument found at the Northwest corner of said section 30 and the Northeast corner of fractional section 36; thence South 85° 04' 55" East 1023.90 feet to a concrete monument found; thence North 06° 53' 15" East 231.00 feet to a concrete monument found on the West right-of-way line of Mound Road (60 feet R/W); thence South 84° 38' 15" East 30.00 feet to an iron pin set in the centerline of Mound Road; thence South 06° 53' 15" West 100.00 feet to an iron pin set; thence South 84° 38' 15" East 193.40 feet to a concrete monument set; thence along the centerline of Mound Road South 05° 32' 40" West 2709.36 feet to a railroad spike found; thence leaving said Mound Road North 85° 28' 20" West 111.00 feet to an iron pipe found; thence South 07° 06' 55" East 714.44 feet to a concrete monument found; thence South 83° 59' 35" East 34.19 feet to a concrete monument found; thence South 04° 42' 45" West 2010.06 feet to a railroad spike found (0.2' deep) and reset in concrete located in the center of Benner Road; thence along the centerline of Benner Road North 84° 29' 45" West 1333.66 feet to the true point of beginning containing 305.116 acres more or less, and subject to all legal highways and easements of record.

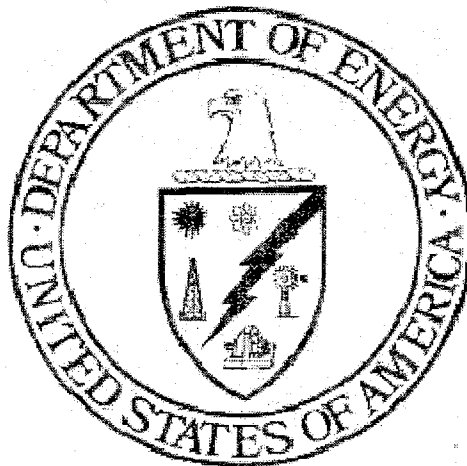
(This description based upon an actual field survey of the described land conducted May, 1982. The description was prepared by Lockwood, Jones & Beals, Dayton, Ohio)

Parcel 9

Environmental Summary

**CERCLA 120(h) SUMMARY
NOTICE OF HAZARDOUS SUBSTANCES**

Final
August 2011



Miamisburg Closure Project

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Acronyms

CERCLA	Comprehensive Environmental Response, Compensation & Liability Act
COPC	Constituent of Potential Concern
DOE	Department of Energy
EA	Environmental Assessment
FA	Further Action
FONSI	Finding of No Significant Impact
HI	Hazard Index
HQ	Hazard Quotient
MDC	Mound Development Corporation
MMCIC	Miamisburg Mound Community Improvement Corporation
NA	Not Applicable
NCP	National Contingency Plan
NFA	No Further Assessment
O&M	Operations & Maintenance
OEPA	Ohio Environmental Protection Agency
OU1	Operable Unit 1
OSC	On-Scene Coordinator
PCB	Polychlorinated biphenyl
PRS	Potential Release Site
RA	Removal Action
RCRA	Resource Conservation and Recovery Act
ROD	Record of Decision
RRE	Residual Risk Evaluation
RREM	Residual Risk Evaluation Methodology
TPC	Total petroleum hydrocarbons
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Chemical
WH	Well House
WTS	Waste Transfer System

1.0 PURPOSE

The information contained in this notice is required under the authority of regulations promulgated under section 120 (h) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). This summary is intended to support a transfer by deed to new ownership for economic development by documenting that the Department of Energy's (DOE) Mound Plant has met the requirements of CERCLA 120 (h) for Parcel 9. A copy shall be provided to all future owners.

2.0 PROPERTY DESCRIPTION

2.1 Description of Property Suitable for Transfer

This Environmental Summary addresses Parcel 9, which is located on the Mound Site. The legal description for Parcel 9 is included as Appendix C of this Environmental Summary.

2.2 Regional Context of the Mound Plant and Transferred Property

The Mound Site is in Montgomery County within the City of Miamisburg, Ohio as shown in Figure 1. At one time, the Mound Site occupied approximately 306 acres. Prior to the transfer of Parcel 4, Benner Road formed the southern boundary of the site. The Norfolk Southern Railroad roughly parallels the western boundary with Mound Road forming the eastern boundary. Since 1999, approximately 178 acres of the original 306 acres have been transferred to the Mound Development Corporation (MDC), formally the Miamisburg Mound Community Improvement Corporation (MMCIC). Parcel 9 occupies approximately 23.2 of the remaining 128 acres.

2.3 Historical Uses of Parcel 9

Parcel 9 occupies approximately 23.2 acres of the Mound Plant (Figure 2). There were 20 buildings in Parcel 9 (Figure 3). There were 40 Potential Release Sites (PRSs) in the Parcel (Figure 4). All buildings and PRSs in Parcel 9 were dispositioned using the Mound 2000 Process. Any residual risks associated with remaining contamination in Parcel 9 have been evaluated and are presented in the Parcel 9 Residual Risk Evaluation (RRE).

There are no buildings remaining within Parcel 9. There are 3 temporary structures consisting of 2 trailers used as offices and 1 metal storage building that houses the pump and treat system. Eighteen sites of former buildings are included in the parcel. Details of historic buildings are provided in Appendix D. All PRSs have been

addressed, details are provided in Appendix E.

Activities that once took place in Parcel 9 include the development and production of energetic materials, process and blend explosives, drinking water treatment, pump house for fuel oil and brine water, deep water wells, air sparging/soil vapor extraction process, pump and treat system using an air stripper for Volatile Organic Chemicals (VOCs) and storage of drums, solvents and explosives. The northern section of Parcel 9 was used to stage radioactively contaminated soils for offsite shipment via railcars which were loaded at the site rail spur. A settling pond, sanitary waste landfill and buried radiological waste trenches were located in the southern section of Parcel 9; all of which have been removed.

3.0 ENVIRONMENTAL FINDINGS

3.1 Methodology

In accordance with Section 120 (h)(3) of CERCLA, to the extent that information is available based on a complete search of DOE files, the following shall be placed in deeds: (1) a notice of the type and quantity of hazardous substances stored, disposed of, or released; (2) a notice of the time at which such storage, disposal, or release took place; and (3) a description of any remedial action taken. Information sources reviewed to obtain the information include:

- Federal Government records;
- Recorded chain of title documents;
- Reasonably obtainable aerial photographs;
- Visual inspection of the property and adjacent properties;
- Reasonably obtainable records of releases on adjacent properties;
- Interviews with current or former employees; and
- Sampling, if appropriate under the circumstances.

Parcel 9 included 40 PRSs. PRSs at Mound were identified based on either knowledge of historical land use that was considered potentially detrimental, or an actual sampling result showing elevated concentrations of contaminants. The locations of the PRSs in Parcel 9 are shown on Figure 3 and detailed in Appendix E. Before transfer of a parcel can be completed, all buildings and PRSs must be dispositioned through the Mound 2000 process. Residual risks associated with remaining contamination in Parcel 9 have been determined to be protective of human health and the environment.

A Core Team with representatives from the DOE, US Environmental Protection Agency (USEPA), and Ohio Environmental Protection Agency (OEPA) performs a joint agency

evaluation of each PRS. The Core Team uses process knowledge, site visits, and existing data to determine whether any action is warranted concerning the PRS and recommends the appropriate response(s).

Information in the following documents was used to support this Environmental Summary.

3.1.1 Record of Decision (ROD) for Operable Unit 1 (OU1) (Reference 1)

The ROD documents the remedial action plan for the parcel and serves the following three functions: (1) certifies the remedy selection process was carried out in accordance with CERCLA; (2) describes the technical parameters of the remedy by specifying the treatment, engineering, and institutional components as well as cleanup levels; and (3) provides the public with a consolidated summary of information about the parcel and the chosen remedy, including the rationale behind the selection.

3.1.2 Amendment of the OU1 ROD (Reference 2)

The Amendment of the OU1 ROD documents the changes that have occurred since 1995 in OU1. The source removal activity, geographical expansion, and the addition of Institutional Controls are the major changes.

3.1.3 Parcel 9 Residual Risk Evaluation (RRE) (Reference 3)

The RRE provides the evaluation of human health risks associated with any residual contamination that may remain in the parcel after all remedies within a parcel have been addressed. The evaluation, used in conjunction with the Proposed Plan, ensures that future users of the land will not be exposed to contamination levels that would pose unacceptable health risks.

3.1.4 Building and PRS Documents

Documents for those buildings and PRSs located within Parcel 9 and the Core Team conclusion for each are listed in Appendix D and E. These PRSs were identified on the basis of potential radiological and/or chemical (non-radioactive) contamination using knowledge of historical land use or actual sample data. Building and PRS Data provide a summary of information sufficient for the Core Team to make recommendations or change the status of the PRS or building. Action Memoranda provide a plan for addressing removal actions. On-Scene Coordinator (OSC) Reports document completion of the removal action.

3.2 Building Analysis Summary

There are no buildings remaining within Parcel 9 (see Figure 3). The former buildings were demolished and closed out by a building data package approved by the Core Team. There are 3 temporary structures consisting of 2 trailers used as offices and 1 metal storage building that houses the pump and treat system.

3.2.1 Asbestos

No buildings remain.

3.2.2 Lead

No buildings remain.

3.2.3 Radon

No buildings remain.

3.2.4 Radiological Surveys

No buildings remain.

3.2.5 PCBs

There are no areas within Parcel 9 requiring polychlorinated biphenyl (PCB) cleanup. There may be PCB containing ballasts in the fluorescent lights in the temporary structures in Parcel 9. Appropriate management practices may be required in the future for these to remain protective.

3.3 PRS Summary

The DOE, USEPA, and OEPA have jointly decided that no additional remedial action for the PRSs in Parcel 9 is necessary with the placement of Institutional Controls in the form of deed restrictions on future land use.

3.4 RRE Summary

Pursuant to the Residual Risk Evaluation Methodology (RREM) (Reference 4), risks are quantified for both carcinogenic (cancer-causing) and non-carcinogenic (non-cancer-causing) contaminants. The risk associated with the intake of a known or suspected

carcinogen is reported in terms of the incremental lifetime cancer risk presented by those constituents of potential concern (COPC), as estimated using the appropriate slope factor and the amount of material available for uptake. The acceptable risk range as defined by CERCLA and the National Contingency Plan (NCP) is 10^{-4} to 10^{-6} (one human in ten-thousand to one human in one-million incremental cancer incidence). Potential human health hazards from exposure to non-carcinogenic contaminants are evaluated by using a Hazard Quotient (HQ). The HQ is determined by the ratio of the intake of a COPC to a reference dose or concentration for the contaminant of concern that is believed to represent a no-observable effect level. The contaminants of concern-specific HQs are then summed to provide an overall Hazard Index (HI). USEPA guidance sets a limit of 1.0 for the Comprehensive HI. The incremental carcinogenic risks and hazards associated with residual concentrations of COPCs in Parcel 9 are shown in Table 1 of Appendix B.

All analytes (carcinogenic and non-carcinogenic) detected at least once in soil in Parcel 9 were identified as COPCs. The maximum concentration of each COPC for soil was compared to and screened against criteria established in the RREM and presented in the Parcel 9 Residual Risk Evaluation. COPC tables for soil are presented in Tables 2 and 3 of Appendix B. COPCs that were carried through the RRE process are identified in those tables.

The soils within Parcel 9 have not been evaluated for any use other than onsite industrial/commercial use and thus reuse of this area is restricted to prevent an unacceptable risk to offsite receptors. Evaluation of residual soil contaminants within Parcel 9 has resulted in a determination that future users of the land will not be exposed to contaminant levels that would pose unacceptable risks as long as compliance with the deed restrictions described in the Amendment of the OU1 ROD, are maintained.

3.5 Other Factors Considered

DOE developed a generic checklist of the issues to be considered in evaluating property to be transferred. The checklist was modified from that used by the Department of Defense in releasing property for sale. The checklist includes environmental problems from Mound Site that are likely to concern a potential purchaser as well as items relating to the operational concerns from ongoing and future remedial actions. Results of only those factors which affect Parcel 9 are presented as follows:

3.5.1 Monitoring Equipment

There are several monitoring and extraction wells within Parcel 9. Since continued groundwater monitoring is part of the selected remedy for Parcel 9, DOE will continue to have access to these locations.

3.5.2 National Environmental Policy Act

Parcel 9 lies within the boundaries of the Mound Site described in the Environmental Assessment (EA) for Commercialization of the Mound Plant (Reference 5) and the resulting Finding of No Significant Impact (FONSI) issued on October 27, 1994 (Reference 6). The land use described in the EA is consistent with the institutional controls in the ROD as Amended for OU1.

3.5.3 Clean Air Act

OEPA placed the roads and parking lots at Mound on permanent registration status with air permit F001. The roads and parking lots in Parcel 9 were included under that permit during remediation. The permit was terminated on August 19, 2010.

4.0 FINDINGS OF SUITABILITY TO TRANSFER

In accordance with the provisions of CERCLA Section 120 (h), contaminated property can only be transferred if one of the following applies:

- (1) A decision has been made that no remedial action is necessary;
- (2) All remedial action necessary to protect human health and the environment with respect to any such substance remaining on the property has been taken before the date of transfer and any such remedy has been demonstrated to the Administrator to be operating properly and successfully; or
- (3) Early Transfer Authority, which allows for transfer before all necessary action is complete, has been granted by USEPA with concurrence from the Governor of the State of Ohio pursuant to CERCLA Section 120(h)(3)(C).

The future industrial use of the Mound Site has been determined based upon agreement among DOE, USEPA, and OEPA, and interested stakeholders. This land use is reflected in the MMCIC Mound Comprehensive Reuse Plan (Reference 7) and is currently codified in the City of Miamisburg Zoning Ordinance for industrial/commercial use.

A joint agency decision among the DOE, USEPA, and OEPA has been made that a remedial action has been taken that protects human health and the environment. USEPA deems this condition to be satisfied if the institutional controls are implemented and operating successfully. Institutional controls in the form of deed restrictions on future land use will be placed on Parcel 9 upon transfer as part of the remedy. The

objective of these institutional controls is to prevent an unacceptable risk to human health and the environment by restricting the use of Parcel 9, including Parcel 9 soils and groundwater, to that which is consistent with assumptions in the Parcel 9 RRE. DOE or its successors or assigns has the responsibility to implement, report on, monitor, maintain, and enforce these institutional controls both before and after the transfer. The following property deed restrictions and requirements will be imposed on the property to maintain protection of human health and the environment in the future:

- Maintenance of industrial or commercial land use;
- Prohibition against residential land use;
- Prohibition against the use of groundwater without prior approval from the USEPA and OEPA;
- Site access for federal and state agencies for the purpose of sampling and monitoring;
- Prohibition against the removal of soil from within the site boundary to offsite locations without prior approval from USEPA and OEPA; and
- Operation of the pump and treat groundwater system in the southwestern portion of Parcel 9.

The specifics of the monitoring were established in the Rebound Test Document Plan approved by USEPA and OEPA. This is part of the Operations & Maintenance (O&M) Plan required by the ROD. Key elements of the monitoring were outlined in Section 2.9.3 of the ROD. Groundwater monitoring provides assurance that the concentration of VOCs observed in Parcel 9 is decreasing and is not impacting the buried valley aquifer.

5.0 ENVIRONMENTAL COVENANTS

DOE is committed to include a covenant in accordance with Section 120 (h)(3) of CERCLA in the deed for the sale or transfer of the property that warrants that:

- A. All remedial action necessary to protect human health and the environment has been taken as long as the deed restrictions limiting land and groundwater use are in effect and enforced.
- B. Any additional response action or corrective action found to be necessary after the date of sale or transfer shall be conducted by the United States [Section 120(h)(4)(D)(i)]. The requirements of the covenant shall not apply in any case in which the person or entity to whom the property is transferred is a potentially responsible party with respect to the property.

- C. A clause granting the United States access to the property in any case in which a response action or corrective action is found to be necessary or such access is necessary to carry out a response action or corrective action on the adjoining property [Section 120 (h)(4)(D)(ii)].

6.0 NOTIFICATION / PUBLIC PARTICIPATION

The community has been an active participant in this process to date. Comments from the public on the PRS recommendation have been incorporated as part of the remedy evaluation. DOE believes all comments have been resolved with the commenter and the documents, comments, and responses have been placed in the CERCLA Public Reading Room.

7.0 REFERENCES

- Reference 1 Operable Unit 1 Record of Decision, Final, 1995.
- Reference 2 Amendment Of The OU1 ROD, Final, August 2011.
- Reference 3 Parcel 9 Residual Risk Evaluation (RRE), Final, June 2011.
- Reference 4 Residual Risk Evaluation Methodology (RREM), Final, Revision 0, January 6, 1997.
- Reference 5 Environmental Assessment for Commercialization of the Mound Plant, October 1994.
- Reference 6 Finding of No Significant Impact (FONSI), October 27, 1994.
- Reference 7 MMCIC Mound Comprehensive Reuse Plan Update, December 31, 2003.

APPENDIX A

Figures

- Figure 1 Regional Context of the Mound Plant
- Figure 2 Location of Parcel 9
- Figure 3 Parcel 9 Buildings
- Figure 4 Parcel 9 PRSs

Figure 1 Regional Context of the Mound Plant

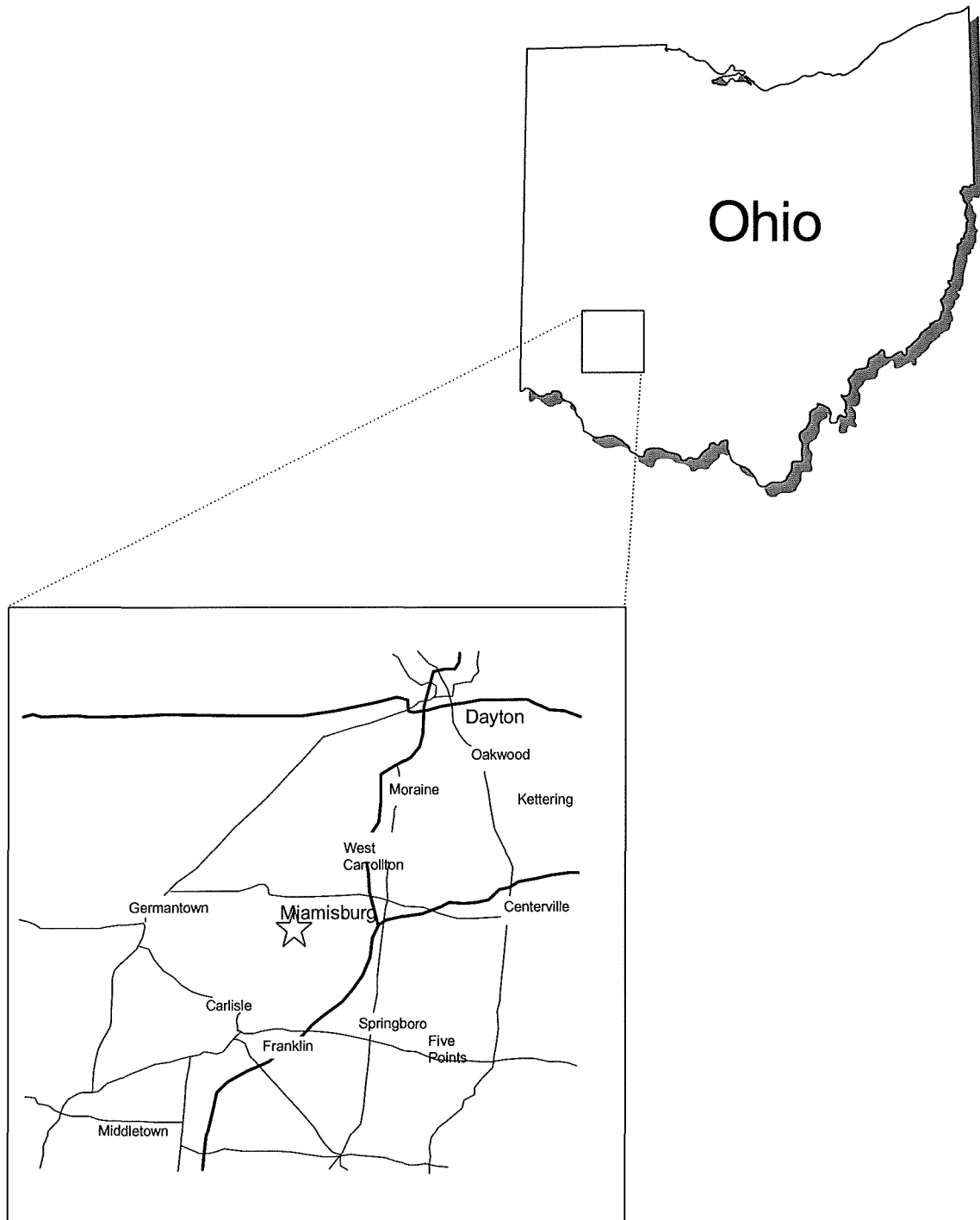


Figure 2 Location of Parcel 9

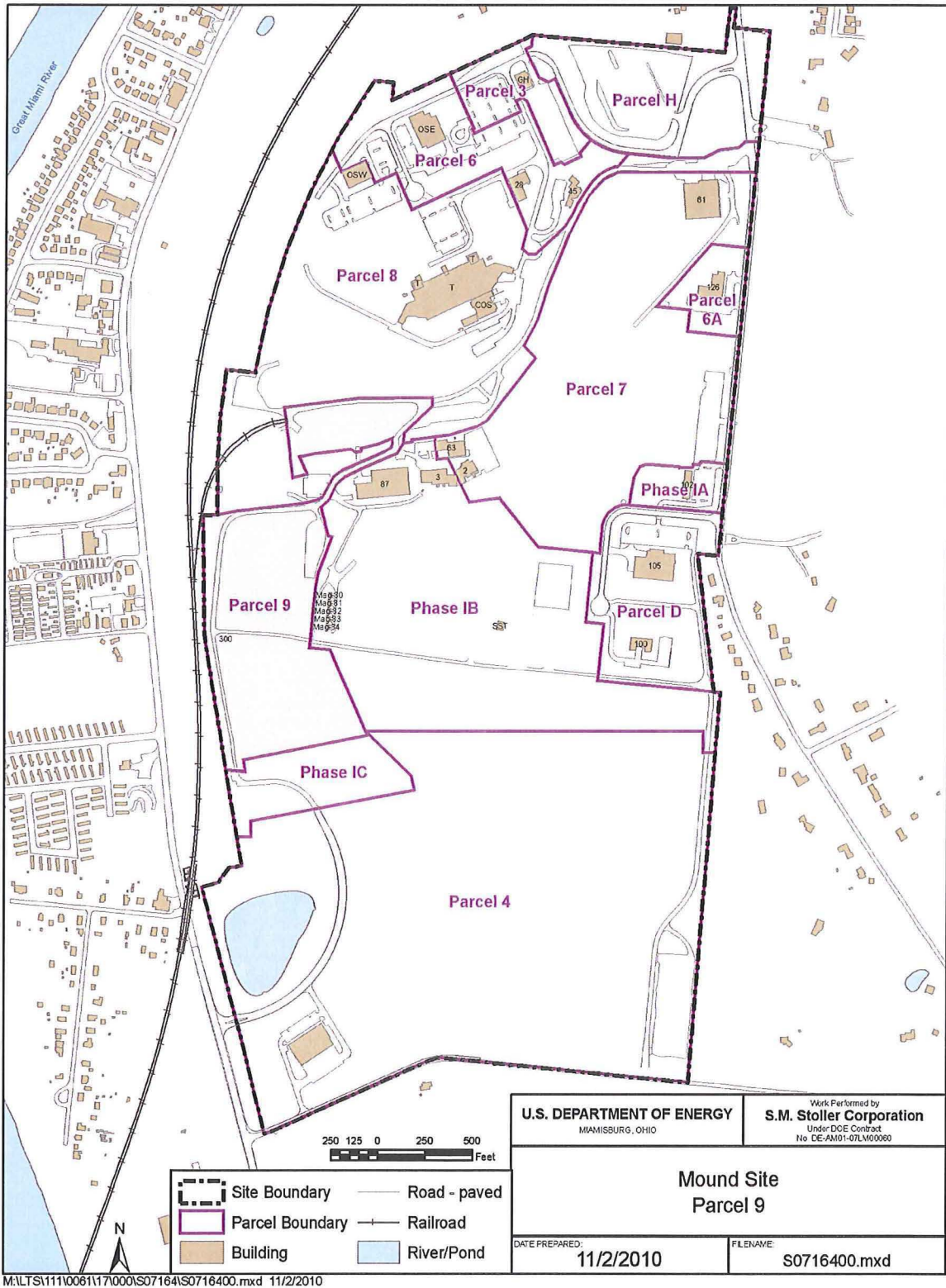


Figure 3 Parcel 9 Buildings

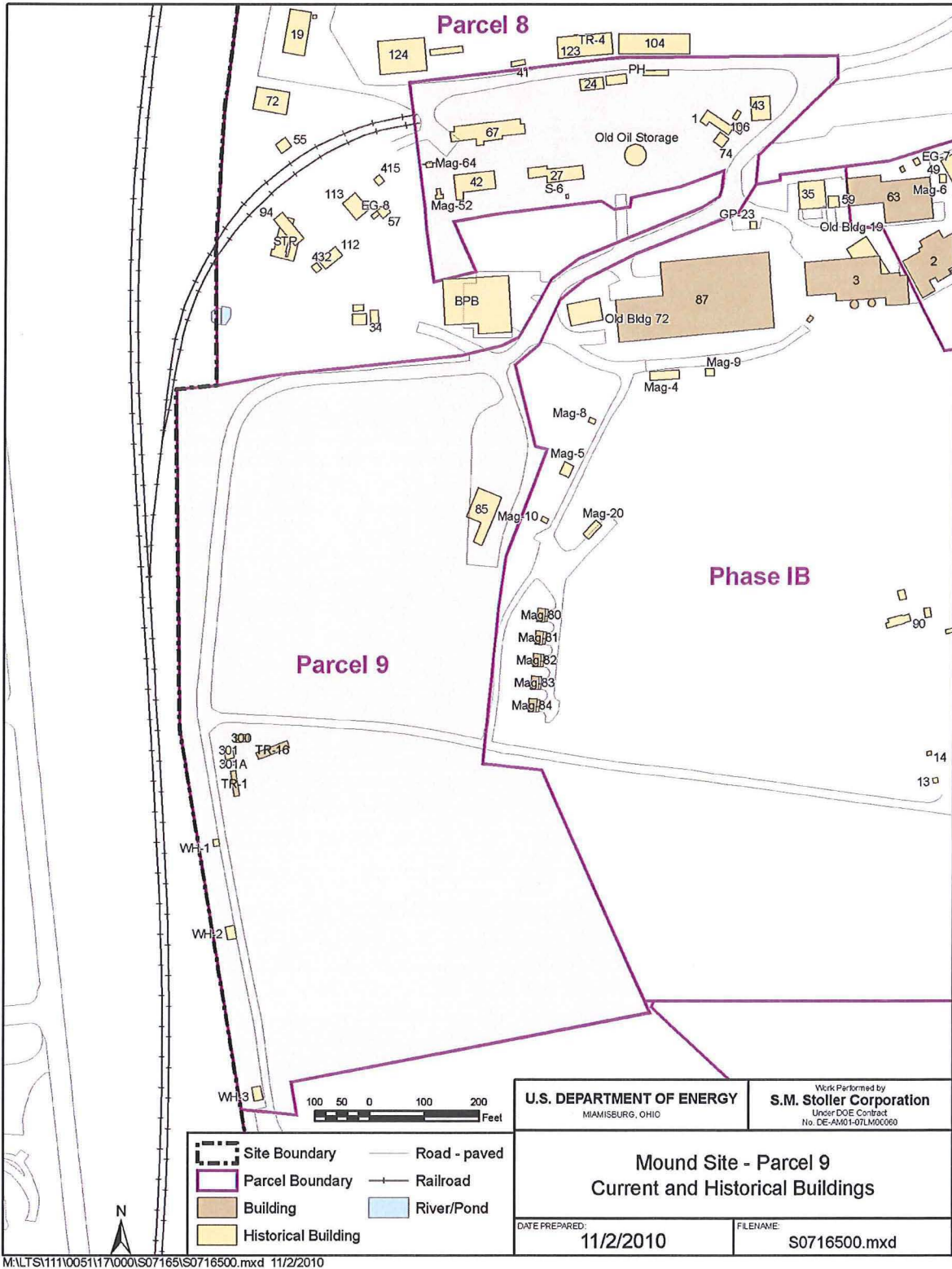
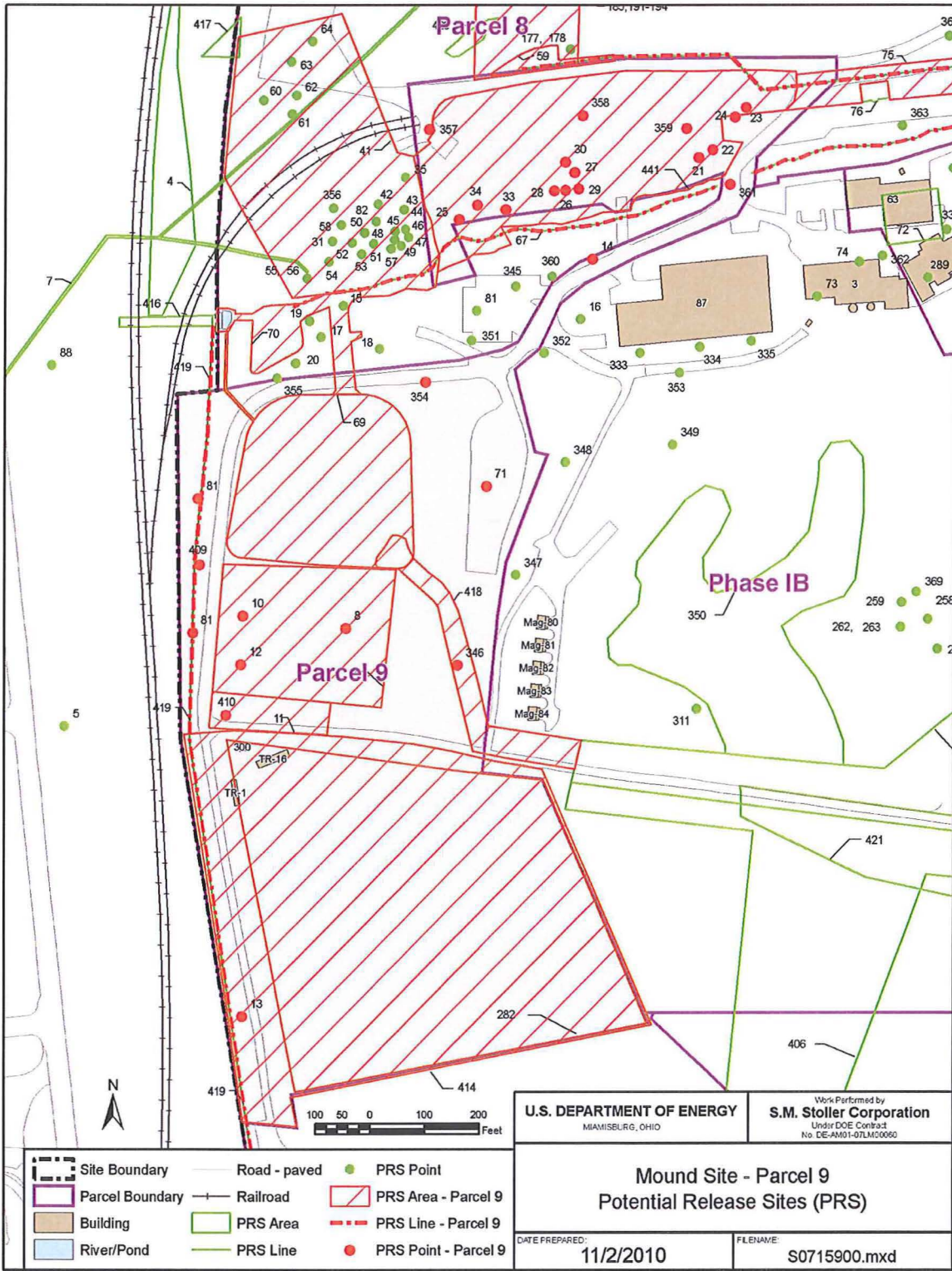


Figure 4 Parcel 9 PRSs



APPENDIX B

Tables

- Table 1 Parcel 9 Risk Summary
- Table 2 Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 9
- Table 3 Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil in Parcel 9

Table 1 – Overall Summary of Risks and Hazards at Parcel 9

Exposure Scenario	Risk Type	Excess Lifetime Cancer Risk (ELCR) for Carcinogenic Effects	Hazard Index (HI) for Non-Carcinogenic Effects
Construction Worker	Total Residual	1.3×10^{-5}	0.49
	Background	7.3×10^{-7}	0.0
	Incremental	1.3×10^{-5}	0.49
Site Worker	Total Residual	1.7×10^{-5}	0.039
	Background	5.0×10^{-7}	0.0
	Incremental	1.6×10^{-5}	0.039

Table 2 - Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC? ^b
<i>Inorganics (mg/kg)</i>									
Aluminum	7429-90-5	1.10E+03	3.20E+04	85/89	9.63E+03	9.63E+03	1.90E+04	2.08E+04	No:1
Antimony	7440-36-0	1.00E+00	4.46E+01	40/77	1.25E+01	1.25E+01	—	8.52E+00	Yes
Arsenic	7440-38-2	1.20E+00	3.70E+01	95/107	5.06E+00	5.06E+00	8.60E+00	1.86E+00	No:1
Barium	7440-39-3	1.02E+01	3.20E+02	85/93	4.77E+01	4.77E+01	1.60E+02	1.47E+03	No:1
Beryllium	7440-41-7	1.10E-01	1.70E+00	71/88	6.48E-01	6.48E-01	1.30E+00	4.21E+01	No:1
Bismuth	07440-89-9	5.40E-01	7.70E+01	19/65	1.93E+01	1.93E+01	3.80E+01	—	No:1
Cadmium	7440-43-9	2.20E-01	9.30E+00	48/100	1.96E+00	1.96E+00	2.10E+00	5.48E+00	No:1
Calcium	7440-70-2	1.45E+04	3.45E+05	88/90	1.13E+05	1.13E+05	3.10E+05	—	No:1
Cerium	07440-45-1	1.59E+01	1.59E+01	1/5	1.18E+01 ^c	1.18E+01	—	3.86E+04	No:2
Chromium	7440-47-3	1.20E+00	1.12E+02	88/94	2.29E+01	2.29E+01	2.00E+01	3.19E+04 ^d	No:2
Cobalt	7440-48-4	1.00E+00	2.07E+01	89/95	9.19E+00	9.19E+00	1.90E+01	3.83E+02	No:1
Copper	7440-50-8	3.90E+00	4.46E+02	93/99	4.85E+01	4.85E+01	2.60E+01	8.52E+02	No:2
Gadolinium	7440-54-2	9.00E+01	9.00E+01	1/1	—	9.00E+01	—	—	Yes
Iron	7439-89-6	1.05E+01	3.60E+04	99/103	1.89E+04	1.89E+04	3.50E+04	—	No:1
Lanthanum	7439-91-0	4.60E+00	9.10E+00	4/5	6.02E+00^e	6.02E+00	—	—	Yes
Lead	7439-92-1	2.90E+00	9.61E+01	93/107	1.33E+01	1.33E+01	4.80E+01	—	No:1
Lithium	7439-93-2	1.70E+00	3.95E+01	44/58	1.53E+01	1.53E+01	2.60E+01	—	No:1
Magnesium	7439-95-4	7.18E+03	6.23E+04	88/90	3.25E+04	3.25E+04	4.00E+04	—	No:1
Manganese	7439-96-5	2.97E-01	1.32E+03	97/103	4.19E+02	4.19E+02	1.40E+03	4.85E+02	No:1
Mercury	7439-97-8	7.00E-02	1.20E+00	19/99	1.63E-01	1.63E-01	1.50E-01	5.78E+04	No:2
Molybdenum	7439-98-7	9.00E-01	2.46E+01	13/36	1.07E+01	1.07E+01	2.72E+01	1.06E+02	No:1
Nickel	7440-02-0	3.20E+00	5.08E+01	85/100	1.96E+01	1.96E+01	3.20E+01	4.28E+02	No:1
Potassium	7440-09-7	1.95E+02	1.30E+04	92/88	2.35E+03	2.35E+03	1.90E+03	—	No:4
Praseodymium	7440-10-0	1.07E+01	1.07E+01	1/5	7.36E+00^f	7.36E+00	—	—	Yes
Samarium	7440-19-9	5.31E+01	5.31E+01	1/5	1.88E+01^g	1.88E+01	—	—	Yes
Selenium	07782-49-2	4.70E-01	7.10E+01	11/104	1.00E+00 ^h	1.00E+00	5.90E-01	1.06E+02	No:2
Silver	7440-22-4	1.80E+00	2.15E+01	54/100	7.24E+00	7.24E+00	1.70E+00	1.06E+02	No:2
Sodium	7440-23-5	9.34E+01	1.55E+03	84/100	4.35E+02	4.35E+02	2.40E+02	—	No:4
Tantalum	7440-25-7	1.90E+02	4.02E+02	8/12	2.87E+02	2.87E+02	—	—	Yes
Thallium	07440-28-0	2.40E-01	7.60E-01	13/99	1.40E+00 ⁱ	7.60E-01	4.60E-01	1.41E+00	No:2

Table 2 - Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC? ^b
Tin	07440-31-5	1.80E+00	1.61E+01	8/36	9.80E+00 ^c	8.80E+00	2.09E+01	1.28E+04	No:1
Total Cyanide	00057-12-5	1.40E-01	6.10E-01	12/52	6.10E-01 ^c	6.10E-01	--	4.26E+02	No:2
Vanadium	7440-62-2	4.80E+00	5.50E+01	91/95	2.07E+01	2.07E+01	2.50E+01	2.13E+01	No:1
Zinc	7440-66-8	9.40E+00	2.74E+02	86/100	7.45E+01	7.45E+01	1.40E+02	6.39E+03	No:1
<i>Dioxins (ug/kg)</i>									
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	2.20E-04	6.30E-03	4/13	4.30E-04 ^d	4.30E-04	--	--	Yes
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	1.70E-03	1.70E-03	1/13	5.32E-04 ^d	5.32E-04	--	--	Yes
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	8.90E-04	1.80E-03	2/13	5.66E-04 ^d	5.66E-04	--	--	Yes
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	4.20E-04	1.10E-03	2/13	4.09E-04 ^d	4.09E-04	--	3.97E-02	No:2
1234678-HpCDD	35822-46-9	5.20E-04	3.03E-02	5/13	1.46E-03 ^d	1.46E-03	--	--	Yes
1234789-HpCDF	55673-89-7	6.20E-04	6.20E-04	1/13	4.00E-04 ^d	4.00E-04	--	--	Yes
123478-HxCDD	39227-28-6	6.50E-04	6.50E-04	1/13	5.82E-04 ^d	5.82E-04	--	--	Yes
123478-HxCDF	70648-26-9	1.80E-04	2.20E-03	3/13	3.98E-04 ^d	3.98E-04	--	--	Yes
123878-HxCDF	57117-44-9	5.80E-04	1.20E-03	2/13	2.89E-04 ^d	2.89E-04	--	1.99E-01	No:2
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	1.50E-04	1.00E-03	3/13	5.52E-04 ^d	5.52E-04	--	--	Yes
2,3,7,8-Tetrachlorodibenzofuran	051207-31-9	3.90E-04	2.80E-03	2/13	5.80E-04 ^d	5.80E-04	--	1.99E-01	No:2
2,3,7,8-Tetrachlorodibenzo-p-dioxin	001746-01-8	1.50E-03	3.00E-03	3/13	1.09E-03 ^d	1.09E-03	--	1.99E-02	No:2
23478-PeCDF	57117-31-4	2.40E-04	1.50E-03	3/13	5.04E-04 ^d	5.04E-04	--	3.97E-01	No:2
Octachlorodibenzofuran	39001-02-0	2.20E-04	1.03E-02	7/13	9.08E-04 ^d	9.08E-04	--	1.99E+01	No:2
Octachlorodibenzo-p-dioxin	003268-87-9	2.73E-01	2.73E-01	1/13	1.72E-02 ^d	1.72E-02	--	1.99E+01	No:2
<i>Explosives (ug/kg)</i>									
1,3-Dinitrobenzene	000099-85-0	2.00E+02	2.00E+02	1/57	1.50E+03 ^e	2.00E+02	--	2.13E+03	No:2
1,3,5-Trinitrobenzene	000099-35-4	3.10E+02	3.10E+02	1/57	1.50E+03 ^e	3.10E+02	--	6.39E+05	No:2
2,4-Dinitrotoluene	000121-14-2	2.00E+02	2.00E+02	1/163	5.94E+02 ^e	2.00E+02	--	3.54E+03	No:2
2,6-Dinitrotoluene	000606-20-2	2.90E+02	2.90E+02	1/163	1.30E+03 ^e	2.90E+02	--	3.54E+03	No:2
HMX	002691-41-0	4.10E+02	6.80E+02	2/62	2.97E+03 ^e	6.80E+02	--	1.06E+06	No:2
RDX	000121-92-4	7.10E+02	6.85E+03	4/62	2.41E+03 ^e	2.41E+03	--	2.71E+04	No:2
<i>Pesticides and PCBs (ug/kg)</i>									
4,4'-DDD	000072-54-8	9.20E-01	2.80E+00	5/100	9.33E+00 ^f	2.80E+00	4.20E+03	1.24E+04	No:1
4,4'-DDE	000072-55-9	2.40E-01	1.80E+00	10/100	3.70E+00 ^f	1.80E+00	4.30E+03	8.77E+03	No:1
4,4'-DDT	000060-29-3	2.20E-01	3.10E+00	9/100	9.13E+00 ^f	3.10E+00	1.30E+04	8.12E+03	No:1
Aldrin	000308-00-3	1.20E-01	2.58E+00	8/100	3.13E+00 ^f	2.50E+00	--	1.42E+02	No:2

Table 2 - Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC? ^b
alpha-BHC	000319-84-8	2.10E-01	1.10E+01	13/100	2.33E+00 ^c	2.33E+00	--	4.73E+02	No:2
alpha-Chlordane	005103-71-9	1.00E-01	4.80E+00	10/99	1.07E+01 ^c	4.80E+00	--	7.61E+03	No:2
Aroclor-1242	053489-21-9	3.70E+01	1.00E+03	3/510	4.00E+01 ^c	4.00E+01	--	--	No:3
Aroclor-1248	12672-29-6	7.10E+00	3.80E+04	307/610	9.60E+02	9.60E+02	--	--	Yes
Aroclor-1254	011097-89-1	4.24E+01	2.00E+02	7/285	7.09E+01 ^c	7.09E+01	6.80E+04	3.20E+02	No:1
Aroclor-1260	011098-82-5	2.54E+01	9.90E+01	4/285	7.28E+01 ^c	7.28E+01	--	--	No:3
Aroclor-1262	037324-23-5	4.10E+00	1.30E+03	32/325	4.00E+01^c	4.00E+01	--	--	Yes
Aroclor-1268	011100-14-4	5.60E+01	1.80E+02	5/325	3.90E+01 ^c	3.90E+01	--	--	No:3
delta-BHC	000319-88-8	1.90E-01	1.90E-01	1/100	6.83E+00 ^c	1.90E-01	--	--	No:3
Dieldrin	000080-57-1	9.20E-02	6.40E+00	10/100	3.73E+00 ^c	3.73E+00	--	1.86E+02	No:2
Endosulfan II	033213-86-9	2.00E-01	3.50E+00	3/100	3.80E+00 ^c	3.50E+00	--	--	No:3
Endosulfan sulfate	001031-07-8	1.30E-01	2.00E+00	6/100	1.83E+01 ^c	2.00E+00	--	--	No:3
Endrin	000072-20-8	1.20E-01	1.80E+00	5/100	4.73E+00 ^c	1.80E+00	--	6.39E+03	No:3
Endrin aldehyde	007421-93-4	7.10E-01	4.70E+00	8/96	1.72E+01^c	4.70E+00	--	--	Yes
Endrin ketone	053494-70-5	1.50E-01	2.00E+00	5/100	1.83E+01 ^c	2.00E+00	--	--	No:3
gamma-BHC (Lindane)	000059-99-9	3.30E-02	3.30E-02	1/100	9.20E+00 ^c	3.30E-02	--	2.26E+03	No:2
gamma-Chlordane	005103-74-2	2.90E-01	3.50E+00	7/100	1.08E+01 ^c	3.50E+00	--	7.61E+03	No:2
Heptachlor	000078-44-8	3.60E-02	2.80E-01	2/100	2.40E+00 ^c	2.80E-01	--	6.62E+02	No:2
Heptachlor epoxide	001024-57-3	1.00E-01	1.10E+01	6/100	9.23E+00 ^c	9.23E+00	--	2.77E+02	No:2
Methoxychlor	00072-43-5	3.10E-01	1.80E+01	7/100	9.12E+01 ^c	1.80E+01	3.00E+04	1.08E+05	No:1
<i>Semi-Volatile Organic Compounds (ug/kg)</i>									
1,2,4-Trichlorobenzene	000120-82-1	3.00E-01	2.20E+00	17/878	5.80E+00 ^c	2.20E+00	--	1.72E+05	No:2
2-Methylnaphthalene	000091-57-6	8.80E+01	1.90E+02	3/108	7.68E+02 ^c	1.90E+02	--	8.52E+04	No:2
4-Methylphenol	000108-44-5	2.60E+02	2.90E+02	2/108	7.70E+02 ^c	2.90E+02	--	1.06E+05	No:2
Acenaphthene	000083-32-9	2.10E+01	1.30E+03	9/108	7.49E+02 ^c	7.49E+02	--	9.76E+05	No:2
Acenaphthylene	000209-96-8	2.30E+02	2.30E+02	1/108	7.59E+02 ^c	2.30E+02	--	--	No:3
Anthracene	000120-12-7	3.10E+01	8.00E+02	12/109	7.40E+02 ^c	7.40E+02	--	4.88E+06	No:2
Benz(a)anthracene	000058-55-3	2.90E+01	2.50E+03	26/108	3.24E+02	3.24E+02	--	3.12E+03	No:2
Benzo(a)pyrene	000050-32-8	3.10E+01	2.30E+03	28/108	2.95E+02	2.95E+02	--	3.12E+02	Yes
Benzo(b)fluoranthene	000205-99-2	3.80E+01	4.90E+03	26/108	4.54E+02	4.54E+02	--	3.12E+03	Yes
Benzo(g,h,i)perylene	000191-24-2	1.00E+02	1.10E+03	16/108	7.20E+02^c	7.20E+02	--	--	Yes
Benzo(k)fluoranthene	000207-08-9	3.70E+01	4.50E+03	20/108	7.70E+02 ^c	7.70E+03	--	3.12E+04	No:2

Table 2 - Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC? ^b
Benzoic acid	000065-85-0	3.90E+01	7.70E+02	12/100	3.60E+03 ^c	7.70E+02	--	6.88E+07	No:2
Bis(2-ethylhexyl) phthalate	00117-81-7	4.80E+01	2.00E+03	44/106	4.43E+02	4.43E+03	--	1.72E+05	No:2
Butyl benzyl phthalate	000085-98-7	2.50E+01	6.70E+02	6/108	7.55E+02 ^c	6.70E+02	--	3.44E+08	No:2
Carbazole	000086-74-8	1.80E+01	3.00E+02	4/68	3.90E+02 ^c	3.00E+02	--	1.20E+05	No:2
Chrysene	000218-01-9	2.90E+01	4.00E+03	31/106	3.64E+02	3.64E+02	--	3.12E+05	No:2
Dibenz(a,h)anthracene	000053-70-3	2.40E+01	1.00E+03	8/108	7.49E+02 ^c	7.49E+02	--	3.12E+02	Yes
Dibenzofuran	000132-84-9	4.00E+01	2.40E+02	4/108	7.55E+02 ^c	2.40E+02	--	3.44E+04	No:2
Diethyl phthalate	000084-86-2	9.00E+00	1.10E+02	4/108	7.55E+02 ^c	1.10E+02	--	1.38E+07	No:2
Dimethyl phthalate	000131-11-3	1.00E+02	1.10E+02	2/108	7.65E+02 ^c	1.10E+02	--	2.13E+08	No:2
Di-n-butyl phthalate	000084-74-2	3.90E+01	6.70E+02	17/106	7.45E+02 ^c	6.70E+02	--	1.72E+08	No:2
Di-n-octyl phthalate	000117-84-0	9.00E+00	3.00E+02	7/108	7.65E+02 ^c	3.00E+02	--	8.52E+05	No:2
Fluoranthene	00208-44-0	6.00E+00	5.80E+03	34/108	4.97E+02	4.97E+02	--	6.51E+05	No:2
Fluorene	000086-73-7	6.40E+01	3.90E+02	4/108	7.59E+02 ^c	3.90E+02	--	6.51E+05	No:2
Indeno(1,2,3-cd)pyrene	000193-39-5	4.80E+01	1.30E+03	19/108	7.19E+02 ^c	7.19E+02	--	3.12E+03	No:2
N-Nitrosodi-n-propylamine	000921-84-7	6.10E+01	6.10E+01	1/108	7.70E+02 ^c	6.10E+01	--	3.44E+02	No:2
N-Nitrosodiphenylamine	000086-30-6	6.60E+01	1.10E+02	2/108	7.55E+02 ^c	1.10E+02	--	3.44E+05	No:2
Phenanthrene	000085-01-8	2.70E+01	3.90E+03	30/108	3.72E+02	3.72E+02	--	--	Yes
Phenol	000108-95-2	9.00E+01	1.20E+02	3/108	7.65E+02 ^c	1.20E+02	--	5.16E+03	No:2
Phenol, 4-chloro-2-(phenylmethyl)	120-32-1	1.10E+02	2.00E+02	4/19	8.38E+02 ^c	2.00E+02	--	--	Yes
Pyrene	00129-00-0	3.00E+00	6.10E+03	36/108	5.02E+02	5.02E+02	--	4.88E+05	No:2
<i>Volatile Organic Compounds (ug/kg)</i>									
1,1,1-Trichloroethane	000071-55-6	3.40E-01	2.10E+02	14/758	5.80E+00 ^c	5.80E+00	--	6.84E+05	No:2
1,1,2-Trichloro-1,1,2-trifluoroethane	000076-13-1	7.40E-01	1.90E+01	17/608	5.70E+00 ^c	5.70E+00	--	6.93E+08	No:2
1,1-Dichloroethane	000075-34-3	3.90E+00	5.20E+00	2/757	5.80E+00 ^c	5.20E+00	--	1.93E+05	No:2
1,1-Dichloroethene	000075-34-3	1.08E+00	3.03E+04	73/884	5.80E+00 ^c	5.80E+00	--	4.20E+04	No:2
1,2-Dibromo-3-chloropropane	000088-12-8	7.00E+00	7.00E+00	1/572	1.10E+01 ^c	7.00E+00	--	7.28E+02	No:2
1,2-Dichlorobenzene	000085-50-1	3.90E-01	3.20E+01	23/679	5.80E+00 ^c	5.80E+00	--	2.88E+05	No:2
1,2-Dichloroethane	000107-06-2	4.80E-01	1.50E+01	3/757	5.70E+00 ^c	5.70E+00	--	3.45E+03	No:2
1,2-Dichloropropane	000078-97-6	4.80E-01	2.00E+00	5/757	5.80E+00 ^c	2.00E+00	--	2.08E+03	No:2
1,3-Dichlorobenzene	000541-73-1	3.90E-01	1.70E+00	8/678	5.80E+00 ^c	1.70E+00	--	5.16E+05	No:2
1,4-Dichlorobenzene	000106-48-7	4.30E-01	4.20E+00	12/678	5.80E+00 ^c	4.20E+00	--	1.08E+05	No:2
2-Butanone	000078-93-3	2.00E+00	7.20E+01	30/754	2.20E+01 ^c	2.20E+01	--	6.65E+08	No:2

Table 2 - Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC? ^b
2-Hexanone	000591-78-6	2.00E+00	1.70E+01	3/755	2.20E+01 ^c	1.70E+01	--	--	No:3
4-Methyl-2-Pentanone	000109-10-1	1.00E+00	1.30E+02	10/755	2.20E+01 ^c	2.20E+01	--	1.47E+06	No:2
Acetone	000067-64-1	2.00E+00	5.30E+02	140/755	2.20E+01 ^c	2.20E+01	--	1.92E+07	No:2
Ammonia	07664-41-7	1.40E+01	2.70E+01	2/13	2.00E+03^c	2.70E+01	--	--	Yes
Benzene	000071-43-2	4.80E-01	1.40E+03	79/872	5.80E+00 ^c	5.80E+00	--	6.46E+03	No:2
Carbon disulfide	000075-15-0	4.00E-01	4.30E+01	83/755	5.80E+00 ^c	5.90E+00	--	1.16E+05	No:2
Carbon tetrachloride	000068-23-6	1.00E+00	5.80E+02	32/866	5.80E+00 ^c	5.80E+00	--	2.44E+03	No:2
Chlorobenzene	000106-90-7	1.60E+00	3.00E+00	3/757	5.80E+00 ^c	3.00E+00	--	4.86E+04	No:2
Chloroform	000067-66-3	1.60E-01	3.67E+03	211/866	3.13E+01	3.13E+01	--	2.56E+03	Yes
Chloromethane	000074-87-3	6.90E-01	6.90E-01	1/757	1.10E+01 ^c	6.90E-01	--	1.58E+04	No:2
cis-1,2-Dichloroethene	000156-59-2	4.30E-01	2.01E+05	157/872	5.80E+00 ^c	5.80E+00	--	2.13E+05	No:2
Cyclohexane	000110-82-7	5.00E-01	6.40E-01	3/583	5.80E+00 ^c	6.40E-01	--	--	No:3
Ethylbenzene	000100-41-4	2.90E-01	7.50E+03	83/871	5.80E+00 ^c	5.80E+00	--	7.80E+04	No:2
Isopropylbenzene	000069-82-8	8.00E-01	8.00E-01	1/585	5.80E+00 ^c	8.00E-01	--	5.28E+04	No:2
Methyl-Cyclohexane	000109-97-2	4.00E-01	1.40E+00	29/593	5.80E+00 ^c	1.40E+00	--	--	No:3
Methylene chloride	00075-09-2	8.40E-01	2.90E+03	340/757	2.01E+01	2.01E+01	--	8.25E+04	No:2
m-Xylene	000106-38-3	1.70E+01	1.70E+01	1/18	5.80E+00 ^c	5.80E+00	--	2.77E+05	No:2
Naphthalene	000091-20-3	2.00E+00	1.30E+02	6/114	5.80E+00 ^c	5.80E+00	--	1.76E+04	No:2
o-Xylene	000085-47-6	7.00E+00	7.00E+00	1/18	5.80E+00 ^c	5.80E+00	--	4.26E+07	No:2
Styrene	000100-42-5	1.80E-01	9.00E-01	7/757	5.80E+00 ^c	9.00E-01	--	1.46E+06	No:2
Tetrachloroethene	00127-18-4	3.50E-01	2.23E+04	327/864	1.92E+02	1.92E+02	--	3.66E+03	Yes
Toluene	00106-98-3	2.20E-01	7.16E+04	577/870	6.40E+02	6.40E+02	--	2.00E+05	No:2
Total 1,2-Dichloroethene	000540-59-0	1.00E+00	1.80E+03	50/192	6.71E+01	6.71E+01	--	1.92E+05	No:2
Total Xylenes	001330-20-7	4.00E-01	2.40E+01	31/798	5.80E+00 ^c	5.80E+00	--	6.42E+04	No:2
trans-1,2-Dichloroethene	000156-80-5	3.20E-01	2.00E+03	35/672	5.80E+00 ^c	5.80E+00	--	4.26E+05	No:3
Trichloroethene	00079-01-6	4.20E-01	1.43E+05	378/863	1.28E+03	1.28E+03	--	4.38E+02	Yes
Trichlorofluoromethane	000075-69-4	2.90E-01	5.50E+00	35/590	5.80E+00 ^c	5.50E+00	--	1.30E+05	No:2
Vinyl chloride	000075-01-4	2.00E+00	2.30E+03	33/866	5.80E+00 ^c	5.90E+00	--	1.07E+03	No:3
Radionuclides (pCi/g)									
Actinium-227		1.50E-01	2.29E+00	52/3883	3.59E-01 ^c	3.59E-01	1.10E-01	4.56E-01	No:3
Actinium-228	14331-93-0	1.90E-01	1.79E+00	409/500	6.46E-01	6.46E-01	--	2.17E-01	No:5
Americium-241		4.00E-02	5.42E-01	78/9978	8.81E-02 ^c	8.81E-02	--	6.32E+00	No:2

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Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC? ^b
Beryllium-7	013968-02-4	2.20E+00	2.20E+00	1/5	4.72E-01 ^c	4.72E-01	--	4.61E+00	No:2
Bismuth-210M		4.79E-02	9.10E-01	6/3168	8.35E-02 ^c	8.35E-02	--	8.97E-01	No:3
Bismuth-212	14913-49-8	3.90E-01	1.76E+00	58/58	1.21E+00	1.21E+00	--	1.11E+00	No:5
Bismuth-214	14733-03-3	2.33E-01	2.50E+00	508/511	8.21E-01	8.21E-01	1.20E+00	1.31E-01	No:1
Cesium-134	13987-70-9	5.30E-02	5.30E-02	1/1	--	5.30E-02	--	1.38E-01	No:2
Cesium-137+D		1.00E-02	1.50E+00	307/3937	6.00E-02^c	6.00E-02	4.20E-01	3.82E-01	Yes
Cobalt-60		1.00E-02	8.85E-02	35/3937	7.80E-02 ^c	7.80E-02	--	7.91E-02	No:3
Lead-210+D	14255-04-0	2.16E-01	5.89E+00	1568/3840	8.69E-01	8.69E-01	1.20E+00	8.25E-01	No:1
Lead-212	15092-94-1	1.12E-01	2.00E+00	153/505	8.81E-01	8.81E-01	1.50E+00	1.79E+00	No:1
Lead-214	15067-28-4	2.20E-01	3.20E+00	489/500	8.69E-01	8.69E-01	1.20E+00	1.00E+00	No:1
Neptunium-237+D	13994-20-2	4.70E-01	4.70E-01	1/1	--	4.70E-01	--	1.10E+00	No:2
Plutonium-238		2.90E-03	5.39E+01	697/4304	8.40E+00^c	8.40E+00	1.30E-01	6.12E+00	Yes
Plutonium-239/240		7.85E-03	1.74E+00	104/639	8.95E-02 ^c	8.95E-02	1.80E-01	8.01E+00	No:2
Potassium-40	13968-00-2	9.90E-01	3.94E+01	540/558	1.44E+01	1.44E+01	3.70E+01	1.18E+00	No:1
Protactinium-231+D		8.67E-01	1.91E+00	5/3168	1.93E+00 ^c	1.91E+00	--	3.91E-01	No:3
Radium-224	13233-32-4	1.04E+00	2.30E+00	13/13	1.90E+00	1.90E+00	1.50E+00	3.24E+00	No:2
Radium-226+D	13982-83-3	1.19E-01	2.80E+00	3889/3942	8.72E-01	8.72E-01	2.00E+00	1.10E-01	No:1
Radium-228+D	15262-20-1	2.90E-01	1.31E+00	9/9	7.58E-01	7.58E-01	--	1.67E-01	Yes
Strontium-90+D		7.18E-02	5.78E+00	6/47	4.88E-01 ^c	4.88E-01	7.20E-01	8.40E+00	No:2
Thallium-208	14913-50-9	7.20E-02	5.80E-01	440/443	2.55E-01	2.55E-01	--	5.59E-02	No:5
Thorium-227	15823-47-9	7.00E-02	2.29E+00	4/7	2.07E+00 ^c	2.07E+00	--	2.14E+00	No:5
Thorium-228+D	14274-82-9(+D)	2.90E-02	2.10E+00	698/719	7.57E-01	7.57E-01	1.50E+00	1.19E-01	No:1
Thorium-230+D		8.40E-02	2.71E+00	708/3957	7.53E+00^c	2.71E+00	1.90E+00	9.26E-02	Yes
Thorium-232+D	7440-29-1	3.70E-02	2.00E+01	3648/4280	4.90E-01	4.90E-01	1.40E+00	8.90E-02	No:1
Thorium-234	15065-10-8	1.16E+00	3.80E+00	37/38	2.12E+00	2.12E+00	--	1.76E+01	No:2
Tritium	10028-17-8	1.70E-02	5.00E+01	119/119	4.57E+00	4.57E+00	1.60E+00	7.58E+03 ^d	No:2
Uranium-233/234	U-233/234	1.89E-01	1.70E+00	525/527	7.16E-01	7.16E-01	--	4.82E-01	Yes
Uranium-234	13968-29-5	2.79E-01	1.08E+00	73/78	8.82E-01	8.82E-01	1.10E+00	1.05E+01	No:1
Uranium-235+D		1.40E-02	1.60E-01	92/544	4.00E-01 ^c	1.80E-01	1.10E-01	1.54E+00	No:2
Uranium-235/238		2.77E-02	1.50E-01	88/420	8.30E-02 ^c	8.30E-02	1.10E-01	3.10E-01	No:2
Uranium-238+D	7440-61-1(+D)	1.80E-01	2.21E+00	2791/3240	6.92E-01	6.92E-01	1.20E+00	4.13E+00	Yes^f

Table 2 - Identification of Constituents of Potential Concern for the Construction Worker Exposed to Surface and Subsurface Soil in Parcel 9

Notes:

a. Unless otherwise denoted, value listed represents 95% UCL

b. COPC analyte status definitions:

Yes—retained as a COPC

No:1—not retained as a COPC due to background concentration > lower of the maximum detected concentration or 95% UCL concentration

No:2—not retained as a COPC due to RBGV > maximum concentration

No:3—not retained as a COPC due to <5% detected

No:4—not retained as a COPC as it is considered an essential nutrient

No:5—not retained as a COPC as it is part of the thorium-232, uranium-235, and uranium-238 natural decay series with a half-lives less than or equal to 8 months

c. Value represents 70th percentile

d. RBGV for chromium (III)

e. RBGV for tritium (particulate)

f. Although the 95% UCL is < background, uranium-238 was retained as a COPC as it is process-related.

Table 3 - Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC? ^b
<i>Inorganics (mg/kg)</i>									
Aluminum	7429-90-5	1.10E+03	3.20E+04	30/30	1.25E+04	1.25E+04	1.90E+04	1.60E+05	No:1
Antimony	7440-36-0	1.00E+00	4.46E+01	14/30	1.97E+01	1.97E+01	--	8.18E+01	No:2
Arsenic	7440-38-2	1.60E+00	7.70E+00	32/36	4.48E+00	4.48E+00	8.60E+00	2.26E+00	No:1
Barium	7440-39-3	1.02E+01	1.10E+02	30/30	5.87E+01	5.87E+01	1.80E+02	1.25E+04	No:1
Beryllium	7440-41-7	1.10E-01	1.40E+00	27/30	8.90E-01	8.90E-01	1.30E+00	3.70E+02	No:1
Bismuth	07440-86-8	3.80E-01	6.91E+01	17/22	2.64E+01	2.64E+01	3.84E+01	--	No:1
Cadmium	7440-43-9	3.50E-01	9.30E+00	20/36	2.83E+00	2.83E+00	2.10E+00	1.01E+01	No:2
Calcium	7440-70-2	4.51E+04	3.45E+05	36/36	1.24E+05	1.24E+05	3.10E+05	--	No:1
Chromium	7440-47-3	2.70E+00	4.64E+01	36/36	2.48E+01	2.48E+01	2.00E+01	3.07E+05 ^d	No:2
Cobalt	7440-48-4	1.00E+00	1.30E+01	36/36	8.52E+00	8.52E+00	1.90E+01	1.83E+03	No:1
Copper	7440-50-8	3.90E+00	4.46E+02	36/36	1.05E+02	1.05E+02	2.60E+01	8.18E+03	No:2
Iron	7439-89-6	3.31E+03	3.40E+04	36/36	1.78E+04	1.78E+04	3.50E+04	--	No:1
Lanthanum	7439-91-0	3.40E+00	4.60E+00	1/2	--	4.60E+00	--	--	Yes
Lead	7439-82-1	2.60E+00	9.81E+01	36/36	2.71E+01	2.71E+01	4.80E+01	--	No:1
Lithium	7439-93-2	1.70E+00	3.95E+01	16/22	1.65E+01	1.65E+01	2.60E+01	--	No:1
Magnesium	7439-95-4	1.44E+04	8.23E+04	36/36	3.84E+04	3.84E+04	4.00E+04	--	No:1
Manganese	7439-96-5	1.34E+02	6.36E+02	36/36	4.07E+02	4.07E+02	1.40E+03	3.25E+03	No:1
Mercury	7439-97-6	1.30E-01	1.20E+00	8/33	2.00E-01 ^e	2.00E-01	1.50E-01	5.78E+04	No:2
Molybdenum	7439-98-7	9.00E-01	2.46E+01	12/16	1.27E+01	1.27E+01	2.72E+01	1.02E+03	No:1
Nickel	7440-02-0	3.20E+00	3.15E+01	36/36	2.10E+01	2.10E+01	3.20E+01	4.08E+03	No:1
Potassium	7440-09-7	5.03E+02	1.00E+04	32/32	4.44E+03	4.44E+03	1.90E+03	--	No:4
Selenium	07782-48-2	3.80E+01	5.50E+01	3/36	1.10E+00 ^f	1.10E+00	5.90E-01	1.02E+03	No:2
Silver	7440-22-4	1.60E+00	2.15E+01	28/36	8.34E+00	8.34E+00	1.70E+00	1.02E+03	No:2
Sodium	7440-23-5	9.34E+01	1.55E+03	28/36	6.94E+02	6.94E+02	2.40E+02	--	No:4
Tantalum	7440-25-7	3.28E+02	3.28E+02	1/1	--	3.28E+02	--	--	Yes
Thallium	07440-28-0	4.30E-01	6.90E-01	2/33	1.64E+00 ^g	6.90E-01	4.60E-01	1.35E+01	No:2
Tin	07440-31-5	1.60E+00	1.81E+01	8/16	6.73E+00	6.73E+00	2.09E+01	1.23E+05	No:1
Total Cyanide	00057-12-5	1.40E-01	3.10E-01	4/23	1.20E+00 ^h	3.10E-01	--	4.08E+03	No:2
Vanadium	7440-82-2	4.80E+00	4.80E+01	36/36	2.36E+01	2.36E+01	2.50E+01	2.04E+02	No:1

Table 3 - Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC ^{2b}
Zinc	7440-66-6	8.40E+00	2.74E+02	36/36	1.38E+02	1.38E+02	1.40E+02	6.13E+04	No:1
<i>Explosives (ug/kg)</i>									
1,3-Dinitrobenzene	000099-65-0	2.00E+02	2.00E+02	1/27	1.50E+03 ^c	2.00E+02	--	2.04E+04	No:2
1,3,5-Trinitrobenzene	000099-35-4	3.10E+02	3.10E+02	1/27	1.50E+03 ^c	3.10E+02	--	6.13E+06	No:2
2,4-Dinitrotoluene	000121-14-2	2.00E+02	2.00E+02	1/84	7.20E+02 ^c	2.00E+02	--	2.57E+03	No:2
HMX	002691-41-0	4.10E+02	6.60E+02	2/32	3.00E+03 ^c	6.60E+02	--	1.02E+07	No:2
RDX	000121-82-4	7.10E+02	6.65E+03	4/32	2.50E+03 ^c	2.50E+03	--	5.20E+04	No:2
<i>Pesticides/PCBs (ug/kg)</i>									
4,4'-DDD	000072-54-8	9.20E-01	2.80E+00	5/37	8.20E+00 ^c	2.80E+00	4.30E+03	2.38E+04	No:1
4,4'-DDE	000072-55-9	2.40E-01	1.60E+00	9/37	3.80E+00 ^c	1.60E+00	4.00E+03	1.68E+04	No:1
4,4'-DDT	000050-29-3	2.20E-01	2.10E+00	6/37	8.92E+00 ^c	2.10E+00	1.30E+04	9.56E+03	No:1
Aldrin	000309-00-2	1.20E-01	2.50E+00	6/37	3.22E+00 ^c	2.50E+00	--	1.03E+02	No:2
alpha-BHC	000319-84-6	2.10E-01	1.10E+01	9/37	2.40E+00 ^c	2.40E+00	--	9.08E+02	No:2
alpha-Chlordane	005103-71-9	1.00E-01	4.80E+00	10/37	1.04E+01 ^c	4.80E+00	--	7.64E+03	No:2
Aroclor-1242	053489-21-9	3.70E+01	1.00E+03	3/547	4.00E+01 ^c	4.00E+01	--	--	No:3
Aroclor-1248	12672-29-6	7.10E+00	3.80E+04	305/547	1.07E+03	1.07E+03	--	--	Yes
Aroclor-1254	011097-69-1	4.24E+01	6.84E+01	5/222	5.62E+01 ^c	5.62E+01	5.80E+04	6.83E+02	No:1
Aroclor-1260	011096-82-5	4.48E+01	9.90E+01	3/222	4.67E+01 ^c	4.67E+01	--	--	No:3
Aroclor-1262	037324-23-5	4.10E+00	1.30E+03	32/325	4.00E+01 ^c	4.00E+01	--	--	Yes
Aroclor-1268	011100-14-4	5.60E+01	1.90E+02	5/325	3.90E+01 ^c	3.90E+01	--	--	No:3
delta-BHC	000319-86-8	1.90E-01	1.90E-01	1/37	6.70E+00 ^c	1.90E-01	--	--	No:3
Dieldrin	000060-57-1	9.20E-02	6.40E+00	9/37	3.82E+00 ^c	3.82E+00	--	3.58E+02	No:2
Endosulfan II	033213-65-9	2.00E-01	3.50E+00	3/37	4.94E+00 ^c	3.50E+00	--	--	Yes
Endosulfan sulfate	001031-07-8	1.30E-01	2.00E+00	4/37	1.78E+01 ^c	2.00E+00	--	--	Yes
Endrin	000072-20-8	1.50E-01	1.60E+00	3/37	5.34E+00 ^c	1.60E+00	--	6.13E+04	No:2
Endrin aldehyde	007421-93-4	7.10E-01	4.70E+00	8/34	1.67E+01 ^c	4.70E+00	--	--	Yes
Endrin ketone	053494-70-5	1.50E-01	2.00E+00	5/37	1.78E+01 ^c	2.00E+00	--	--	Yes
gamma-BHC (Lindane)	000059-89-9	3.30E-02	3.30E-02	1/37	3.54E+00 ^c	3.30E-02	--	4.40E+03	No:2
gamma-Chlordane	005103-74-2	2.90E-01	3.50E+00	7/37	1.04E+01 ^c	3.50E+00	--	7.64E+03	No:2
Heptachlor	000076-44-8	3.60E-02	2.80E-01	2/37	2.88E+00 ^c	2.80E-01	--	1.27E+03	No:2
Heptachlor epoxide	001024-57-3	1.00E-01	4.10E-01	4/37	8.92E+00 ^c	4.10E-01	--	6.29E+02	No:2
Methoxychlor	00072-43-5	3.10E-01	1.80E+01	5/37	8.93E+01 ^c	1.80E+01	3.00E+04	1.02E+06	No:1

Table 3-Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC? ^b
<i>Semi-Volatile Organic Compounds (ug/kg)</i>									
1,2,4-Trichlorobenzene	000120-82-1	3.00E-01	2.20E+00	17/604	5.70E+00 ^c	2.20E+00	--	6.23E+05	No:2
2-Methylnaphthalene	000091-57-8	1.70E+02	1.90E+02	2/39	7.62E+02 ^c	1.90E+02	--	8.18E+05	No:2
4-Methylphenol	000108-44-5	2.60E+02	2.60E+02	1/37	7.72E+02 ^c	2.60E+02	--	1.02E+06	No:2
Acenaphthene	000083-32-9	2.10E+01	1.30E+03	8/39	7.62E+02 ^c	7.62E+02	--	3.09E+06	No:2
Anthracene	000120-12-7	5.20E+01	8.00E+02	9/39	7.46E+02 ^c	7.46E+02	--	1.55E+07	No:2
Benz(a)anthracene	000056-55-3	5.30E+01	2.50E+03	20/39	5.88E+02	5.88E+02	--	1.98E+03	Yes
Benzo(a)pyrene	000050-32-8	3.10E+01	2.30E+03	24/39	5.34E+02	5.34E+02	--	1.98E+02	Yes
Benzo(b)fluoranthene	000205-99-2	4.70E+01	4.90E+03	20/39	9.82E+02	9.82E+02	--	1.98E+03	Yes
Benzo(g,h,i)Perylene	000191-24-2	1.00E+02	1.10E+03	14/39	3.38E+02	3.38E+02	--	--	Yes
Benzo(k)fluoranthene	000207-08-9	3.70E+01	4.50E+03	15/39	9.33E+02	9.33E+02	--	1.98E+04	No:2
Benzoic acid	000085-85-0	8.20E+01	7.70E+02	7/34	3.51E+03 ^c	7.70E+02	--	2.49E+06	No:2
Bis(2-ethylhexyl) phthalate	00117-81-7	6.90E+01	2.90E+03	19/37	7.40E+02	7.40E+02	--	1.25E+05	No:2
Butyl benzyl phthalate	000085-68-7	8.30E+01	6.70E+02	4/37	7.54E+02 ^c	6.70E+02	--	1.25E+07	No:2
Carbazole	000088-74-8	1.90E+01	3.00E+02	4/22	7.05E+02 ^c	3.00E+02	--	8.72E+04	No:2
Chrysene	000219-01-9	2.90E+01	4.00E+03	23/37	6.85E+02	6.85E+02	--	1.98E+05	No:2
Dibenz(a,h)anthracene	000053-70-3	2.40E+01	1.00E+03	7/39	7.62E+02 ^c	7.62E+02	--	1.98E+02	Yes
Dibenzofuran	000132-84-9	4.00E+01	2.40E+02	4/37	7.54E+02 ^c	2.40E+02	--	1.25E+05	No:2
Diethyl phthalate	000084-86-2	8.30E+01	1.10E+02	2/37	7.54E+02 ^c	1.10E+02	--	4.99E+07	No:2
Dimethyl phthalate	000131-11-3	1.10E+02	1.10E+02	1/37	7.72E+02 ^c	1.10E+02	--	2.04E+09	No:2
Di-n-butyl phthalate	000084-74-2	8.80E+01	6.70E+02	7/37	7.42E+02 ^c	6.70E+02	--	6.23E+06	No:2
Di-n-octyl phthalate	000117-84-0	2.40E+01	1.80E+02	4/37	7.72E+02 ^c	1.80E+02	--	8.19E+06	No:2
Fluoranthene	00206-44-0	5.50E+01	5.60E+03	25/39	1.14E+03	1.14E+03	--	2.08E+06	No:2
Fluorene	000086-73-7	6.40E+01	3.90E+02	4/39	7.82E+02 ^c	3.90E+02	--	2.08E+06	No:2
Indeno(1,2,3-cd)pyrene	000183-36-5	4.60E+01	1.30E+03	17/39	3.58E+02	3.58E+02	--	1.98E+03	No:2
Phenanthrene	000085-01-8	5.30E+01	3.90E+03	22/39	1.25E+03	1.25E+03	--	--	Yes
PHENOL, 4-CHLORO-2-(PHENYLMETHYL	120-32-1	1.10E+02	2.00E+02	4/14	6.76E+02 ^c	2.00E+02	--	--	Yes
Pyrene	00129-00-0	3.80E+01	6.10E+03	26/39	1.08E+03	1.08E+03	--	1.55E+06	No:2
<i>Volatile Organic Compounds (ug/kg)</i>									
1,1,1-Trichloroethane	000071-55-8	3.40E-01	2.10E+02	14/621	5.70E+00 ^c	5.70E+00	--	5.72E+07	No:2
1,1,2-Trichloro-1,1,2-trifluoroethane	000075-13-1	7.40E-01	1.80E+01	16/597	5.70E+00 ^c	5.70E+00	--	6.13E+09	No:2
1,1-Dichloroethane	000075-34-3	3.90E+00	5.20E+00	2/621	5.70E+00 ^c	5.20E+00	--	2.04E+07	No:2

Table 3 - Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC? ^b
1,1-Dichloroethene	000075-34-3	1.90E+00	4.20E+00	2/621	5.70E+00 ^c	4.20E+00	--	1.02E+07	No:2
1,2-Dibromo-3-chloropropane	000095-12-9	7.00E+00	7.00E+00	1/587	1.10E+01 ^c	7.00E+00	--	4.09E+08	No:2
1,2-Dichlorobenzene	000065-50-1	3.90E-01	3.20E+01	23/605	5.70E+00 ^c	5.70E+00	--	2.82E+00	No:3
1,2-Dichloroethane	000107-06-2	4.80E-01	1.50E+01	3/621	5.70E+00 ^c	5.70E+00	--	6.29E+04	No:2
1,2-Dichloropropane	000078-87-5	4.80E-01	9.60E-01	4/621	4.79E+01 ^c	9.50E-01	--	8.42E+04	No:2
1,3-Dichlorobenzene	000541-73-1	3.90E-01	1.70E+00	8/604	5.70E+00 ^c	1.70E+00	--	1.87E+06	No:2
1,4-Dichlorobenzene	000106-48-7	4.30E-01	4.20E+00	12/604	5.70E+00 ^c	4.20E+00	--	6.50E-02	No:3
2-Butanone	000078-99-3	2.00E+00	3.80E+01	11/620	2.30E+01 ^c	2.30E+01	--	1.23E+08	No:2
4-Methyl-2-Pentanone	000109-10-1	1.00E+00	1.30E+02	3/620	2.30E+01 ^c	2.30E+01	--	1.64E+07	No:2
Acetone	000067-64-1	4.40E+00	5.30E+02	123/620	2.30E+01 ^c	2.30E+01	--	1.84E+08	No:2
Ammonia	07664-41-7	2.70E+01	2.70E+01	1/1	--	2.70E+01	--	--	Yes
Benzene	000071-43-2	4.80E-01	2.20E+01	12/853	5.70E+00 ^c	5.70E+00	--	1.04E+05	No:2
Carbon Disulfide	000075-15-0	4.00E-01	4.30E+01	65/620	5.70E+00 ^c	5.70E+00	--	2.04E+07	No:2
Chlorobenzene	000109-90-7	1.60E+00	1.80E+00	1/621	5.70E+00 ^c	1.60E+00	--	4.09E+06	No:2
Chloroform	000067-66-3	1.80E-01	1.60E+03	105/621	5.70E+00 ^c	5.70E+00	--	2.04E+06	No:2
Chloromethane	000074-87-3	6.80E-01	6.80E-01	1/621	1.10E+01 ^c	6.80E-01	--	--	No:3
cis-1,2-Dichloroethene	000166-58-2	4.30E-01	1.50E+04	75/584	5.70E+00 ^c	5.70E+00	--	2.04E+06	No:2
Cyclohexane	000110-82-7	5.00E-01	6.40E-01	3/583	1.10E+01 ^c	6.40E-01	--	--	No:3
Ethylbenzene	000100-41-4	2.80E-01	5.00E+00	14/853	5.70E+00 ^c	5.00E+00	--	2.04E+07	No:2
Isopropylbenzene	000098-82-8	8.00E-01	8.00E-01	1/580	5.70E+00 ^c	8.00E-01	--	2.04E+07	No:2
methyl-Cyclohexane	000106-87-2	4.00E-01	1.40E+00	29/583	1.10E+01 ^c	1.40E+00	--	--	No:3
Methylene chloride	00075-09-2	8.40E-01	2.80E+03	326/621	2.16E+01	2.16E+01	--	7.63E+05	No:2
m-Xylene	000109-38-3	1.70E+01	1.70E+01	1/17	6.00E+00 ^c	6.00E+00	--	4.09E+08	No:2
Naphthalene	000091-20-3	2.00E+00	1.30E+02	3/40	--	1.30E+02	--	4.38E-02	Yes
o-Xylene	000065-47-6	7.00E+00	7.00E+00	1/17	6.00E+00 ^c	6.00E+00	--	4.09E+08	No:2
Styrene	000100-42-5	1.80E-01	6.00E-01	3/621	5.70E+00 ^c	6.00E-01	9.40E+00	4.09E+07	No:1
Tetrachloroethene	00127-18-4	3.50E-01	1.20E+04	175/621	1.25E+02	1.25E+02	--	1.06E+04	Yes
Toluene	00109-88-3	2.20E-01	3.00E+03	467/663	6.10E+01	6.10E+01	--	4.09E+07	No:2
Total Xylenes	001330-20-7	8.30E-01	2.40E+01	15/653	1.10E+01 ^c	1.10E+01	--	4.09E+07	No:2
trans-1,2-Dichloroethene	000166-50-5	3.20E-01	4.60E+02	13/584	5.70E+00 ^c	5.70E+00	--	4.09E+06	No:2
Trichloroethene	00079-01-6	4.20E-01	5.30E+04	221/621	5.88E+02	5.88E+02	--	1.43E+04	Yes
Trichlorofluoromethane	000075-69-4	2.80E-01	5.50E+00	35/584	5.70E+00 ^c	5.50E+00	--	6.13E+07	No:2

Table 3 - Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^a	EPC	Background Value	RBGV	COPC? ^b
Vinyl chloride	000075-01-4	3.20E+00	8.70E+00	2/821	5.70E+00 ^c	5.70E+00	—	3.82E+03	No:2
<i>Radionuclides (pCi/g)</i>									
Actinium-227+D		1.50E-01	2.29E+00	32/2530	3.63E-01 ^c	3.63E-01	1.10E-01	5.02E-01	No:3
Actinium-228	14331-83-0	1.90E-01	1.79E+00	383/470	8.46E-01	8.46E-01	—	2.01E-01	No:5
Americium-241		4.00E-02	5.42E-01	81/2583	9.00E-02 ^c	9.00E-02	—	9.93E+00	No:2
Beryllium-7	013966-02-4	2.20E+00	2.20E+00	1/5	4.72E-01 ^c	4.72E-01	—	4.28E+00	No:2
Bismuth-210M		4.85E-02	9.10E-01	4/2242	6.38E-02 ^c	6.38E-02	—	8.67E-01	No:3
Bismuth-212	14913-49-8	3.80E-01	1.78E+00	58/56	1.21E+00	1.21E+00	—	1.03E+00	No:5
Bismuth-214	14733-03-3	2.93E-01	2.50E+00	472/476	8.03E-01	8.03E-01	1.20E+00	1.22E-01	No:1
Cesium-134	13987-70-9	5.30E-02	5.30E-02	1/1	—	5.30E-02	—	1.28E-01	No:2
Cesium-137+D		1.20E-02	1.50E+00	211/2552	6.15E-02^c	6.15E-02	4.20E-01	3.56E-01	Yes
Cobalt-60		1.00E-02	8.95E-02	17/2551	7.80E-02 ^c	7.80E-02	—	7.35E-02	No:3
Lead-210+D	14255-04-0	2.16E-01	5.69E+00	1004/2533	6.65E-01	6.65E-01	1.20E+00	1.19E+00	No:1
Lead-212	15092-04-1	1.12E-01	2.00E+00	474/474	6.64E-01	6.64E-01	1.50E+00	1.73E+00	No:1
Lead-214	15067-28-4	2.20E-01	3.20E+00	485/487	8.49E-01	8.49E-01	1.20E+00	8.29E-01	No:1
Neptunium-237+D	13984-20-2	4.70E-01	4.70E-01	1/1	—	4.70E-01	—	1.09E+00	No:2
Plutonium-238		2.90E-03	5.39E+01	590/2719	7.95E+00^c	7.95E+00	1.30E-01	1.13E+01	Yes
Plutonium-239/240		8.60E-03	1.74E+00	85/540	6.92E-02 ^c	6.92E-02	1.80E-01	1.11E+01	No:2
Potassium-40	13985-00-2	9.90E-01	3.94E+01	494/489	1.49E+01	1.49E+01	3.70E+01	1.12E+00	No:1
Protactinium-231+D		6.67E-01	1.91E+00	4/2243	1.90E+00 ^c	1.90E+00	—	4.41E-01	No:3
Radium-224	13233-32-4	1.04E+00	2.30E+00	13/13	1.80E+00	1.80E+00	1.50E+00	5.47E+00	No:2
Radium-228+D	13982-83-3	1.18E-01	2.72E+00	2525/2552	8.11E-01	8.11E-01	2.00E+00	1.05E-01	No:1
Radium-228+D	15262-20-1	2.90E-01	1.31E+00	9/9	7.58E-01	7.58E-01	—	1.76E-01	Yes
Strontium-90+D		7.18E-02	8.27E-01	5/13	4.32E-01 ^c	4.32E-01	7.20E-01	1.50E+01	No:1
Thallium-208	14913-50-9	7.20E-02	5.80E-01	415/418	2.55E-01	2.55E-01	—	5.18E-02	No:5
Thorium-227	15623-47-9	7.00E-02	2.39E+00	4/7	3.44E-01 ^c	3.44E-01	—	2.17E+00	No:5
Thorium-228+D	14274-82-9(+D)	2.90E-02	2.10E+00	612/622	7.72E-01	7.72E-01	1.50E+00	1.14E-01	No:1
Thorium-230+D		8.40E-02	2.71E+00	616/2560	7.29E+00^c	2.71E+00	1.90E+00	9.58E-02	Yes
Thorium-232+D	7440-29-1	3.70E-02	4.92E+00	2408/2703	6.22E-01	6.22E-01	1.40E+00	6.88E-02	No:1
Thorium-234	15085-10-8	1.16E+00	3.80E+00	34/35	2.08E+00	2.08E+00	—	2.58E+01	No:2
Tritium	10028-17-8	1.02E-01	8.68E-01	8/14	5.73E-01	5.73E-01	1.60E+00	1.45E+04 ^d	No:1

Table 3 - Identification of Constituents of Potential Concern for a Site Employee Exposed to Surface Soil in Parcel 9

Analyte	CAS Number	Minimum Concentration	Maximum Concentration	Detection Frequency	95% UCL or 70th Percentile ^d	EPC	Background Value	RBGV	COPC? ^h
Uranium-233/234	U-233/234	1.89E-01	1.70E+00	495/497	7.14E-01	7.14E-01	--	5.52E-01	Yes
Uranium-234	13986-29-5	3.10E-01	9.40E-01	30/30	7.01E-01	7.01E-01	1.10E+00	1.97E+01	No:1
Uranium-235+D		1.46E-02	1.30E-01	95/498	1.30E-01 ^e	1.30E-01	1.10E-01	1.65E+00	No:2
Uranium-235/238		3.46E-02	1.50E-01	72/358	9.28E-02 ^e	9.28E-02	--	3.32E-01	No:2
Uranium-238+D	7440-61-1(+D)	1.80E-01	2.21E+00	2019/2271	7.07E-01	7.07E-01	1.20E+00	5.22E+00	Yes ^f

Notes:

a. Unless otherwise denote, value listed represents 95% UCL

b. COPC analyte status definitions:

Yes --retained as a COPC

No:1 --not retained as a COPC due to background concentration > lower of the maximum detected concentration or 95% UCL concentration

No:2 --not retained as a COPC due to RBGV > maximum concentration

No:3 --not retained as a COPC due to <=5% detected

No:4 --not retained as a COPC as it is considered an essential nutrient

No:5 --not retained as a COPC as it is part of the thorium-232, uranium-235, and uranium-238 natural decay series with a half-lives less than or equal to 6 months

c. Value represents 70th percentile

d. RBGV for chromium (III)

e. RBGV for tritium (particulate)

f. Although the 95% UCL is < background, uranium-238 was retained as a COPC as it is process-related.

APPENDIX C

Legal Description of Parcel 9



Description of 23.148 Acres

Situated in the State of Ohio, County of Montgomery, City of Miamisburg, being part of Section 36, Fractional Township 2, Range 5, Miami Rivers Survey, being 23.148 acres out of Section 36, being part of City of Miamisburg Lot No. 4777 and Lot No. 2290, being 7.545 acres of land that lie over and across a 79.74 acre tract of land described in deed to the United States of America of record in Deed Microfiche No. 81-376A01, being 4.658 acres of land that lie over and across a 17.68 acre tract of land described in deed to the United States of America of record in Deed Book 1214, Page 248, being 0.030 acres of land that lie over and across a 33.11 acre tract of land described in deed to the United States of America of record in Deed Book 1246, Page 45, being 2.295 acres of land that lie over and across a 20.46 acre tract of land described in deed to the United States of America of record in Deed Book 1215, Page 347, being 6.547 acres of land that lie over and across a 6.66 acre tract of land described in deed to the United States of America of record in Deed Book 1258, Page 56, being 0.529 acres of land that lie over and across a 0.54 acre tract of land described in deed to the United States of America of record in Deed Book 1215, Page 347, being 1.544 acres of land that lie over and across a 1.6 acre tract of land described in deed to the United States of America of record in Deed Book 1258, Page 74, and being more particularly described as follows:

COMMENCING for reference at a railroad spike found at the southeast corner of said Section 36 and the southwest corner of Section 30, Fractional Township 2, Range 5, Miami Rivers Survey and being an angle point in the southerly line of a 94.838 acre tract of land as described in deed to Miamisburg Mound Community Improvement Corporation of record in Deed Microfiche No. 02-128007-0040;

Thence North 05°16'47" East with the section line between Section 30 and Section 36 and crossing said 94.838 acre tract, a distance of 1353.00 feet to a point at the northeasterly corner of a 42.56 acre tract of land described in deed to the United States of America of record in Deed Microfiche No. 81-323A11;

Thence North 83°53'43" West with the northerly line of said 42.56 acre tract and the southerly line of said 79.74 acre tract, a distance of 1146.00 feet to an iron pin found at the southeasterly corner of said 1.6 acre tract, being the southwesterly corner of said 79.74 acre tract, and being the **TRUE POINT OF BEGINNING** of the tract to be described;

Thence North 84°16'50" West with the southerly line of said 1.6 acre tract and the northerly line of said 42.56 acre tract, a distance of 100.33 feet to an iron pin found at the southwesterly corner of said 1.6 acre tract and being on the easterly right of way line of the Consolidated Rail Corporation tract;

Thence North 09°25'27" West with said easterly right of way line and the westerly line of said 1.6 acre tract, a distance of 696.73 feet to an iron pin found at the northwesterly corner of said 1.6 acre tract and the southwesterly corner of said 0.54 acre tract;

Thence North 00°48'14" West with said easterly right of way line and the westerly line of said 0.54 acre tract, a distance of 616.70 feet to a concrete monument found;

Thence North 84°55'06" East with said right of way line and the northerly line of said 0.54 acre tract, a distance of 74.92 feet to an iron pin set at the northeasterly corner of said 0.54 acre tract, being the northwesterly corner of said 6.66 acre tract, and being the southwesterly corner of said 33.11 acre tract;

Thence North 79°29'02" East crossing said 33.11 acre tract, a distance of 98.70 feet to an iron pin set;

Thence crossing into and through said 17.68 acre tract with the following thirty-two courses and distances:

- 1.) North 83°59'02" East, a distance of 347.69 feet to an iron pin set;
- 2.) North 76°52'04" East, a distance of 79.92 feet to an iron pin set;
- 3.) North 63°02'39" East, a distance of 31.36 feet to an iron pin set;
- 4.) North 29°43'09" East, a distance of 122.02 feet to an iron pin set;
- 5.) North 54°03'57" East, a distance of 63.19 feet to an iron pin set;
- 6.) North 67°15'25" East, a distance of 240.29 feet to an iron pin set;
- 7.) North 57°23'02" East, a distance of 36.99 feet to an iron pin set;
- 8.) North 19°27'18" East, a distance of 13.71 feet to a surveyor's nail set;
- 9.) North 06°55'42" East, a distance of 33.94 feet to an iron pin set;
- 10.) South 69°49'16" West, a distance of 84.57 feet to an iron pin set;
- 11.) South 77°13'35" West, a distance of 89.22 feet to an iron pin set;
- 12.) South 09°29'45" West, a distance of 17.42 feet to an iron pin set;
- 13.) South 81°50'07" West, a distance of 28.32 feet to an iron pin set;
- 14.) North 57°54'36" West, a distance of 29.12 feet to an iron pin set;
- 15.) South 82°54'26" West, a distance of 197.88 feet to an iron pin set;
- 16.) South 79°49'02" West, a distance of 75.88 feet to an iron pin set;
- 17.) South 24°27'29" East, a distance of 99.13 feet to an iron pin set;
- 18.) South 75°54'00" West, a distance of 78.91 feet to an iron pin set;
- 19.) North 07°58'24" West, a distance of 93.66 feet to an iron pin set;
- 20.) North 05°28'40" West, a distance of 44.09 feet to an iron pin set;
- 21.) North 07°27'35" West, a distance of 227.31 feet to an iron pin set;
- 22.) North 83°13'43" East, a distance of 387.72 feet to an iron pin set;
- 23.) North 89°28'55" East, a distance of 397.71 feet to an iron pin set;
- 24.) South 01°39'10" East, a distance of 41.56 feet to an iron pin set;
- 25.) South 46°26'35" West, a distance of 201.86 feet to an iron pin set;

- 26.) South 04°41'32" West, a distance of 53.96 feet to an iron pin found;
- 27.) South 32°10'12" West, a distance of 60.23 feet to a railroad spike found;
- 28.) South 67°54'44" West, a distance of 195.34 feet to a railroad spike found;
- 29.) South 63°34'09" West, a distance of 106.73 feet to an iron pin found;
- 30.) South 51°02'43" West, a distance of 58.56 feet to an iron pin found;
- 31.) South 25°16'22" West, a distance of 89.08 feet to an iron pin found;
- 32.) South 50°24'09" West, a distance of 58.42 feet to an iron pin found in said 20.46 acre tract;

Thence crossing said 20.46 acre tract with the following five (5) courses and distances:

- 1.) South 14°15'31" East, a distance of 152.25 feet to an iron pin found;
- 2.) South 75°40'33" East, a distance of 22.83 feet to an iron pin found;
- 3.) South 21°04'56" West, a distance of 206.76 feet to an iron pin found;
- 4.) South 08°49'20" West, a distance of 94.67 feet to an iron pin found;
- 5.) South 05°38'00" West, a distance of 283.96 feet to an iron pin set on the southerly line of said 20.46 acre tract and the northerly line of said 79.74 acre tract;

Thence South 83°58'45" East with said line, a distance of 109.48 feet to an iron pin found;

Thence crossing said 79.74 acre tract with the following three (3) courses and distances:

- 1.) South 24°18'00" East, a distance of 459.08 feet to an iron pin found;
- 2.) South 24°26'31" East, a distance of 23.00 feet to an iron pin found;
- 3.) South 79°07'51" West, a distance of 666.49 feet to an iron pin found on the westerly line of said 79.74 acre tract and the easterly line of said 1.6 acre tract;

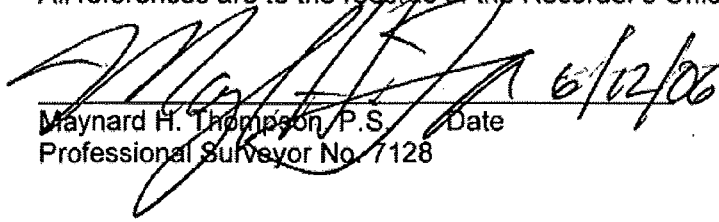
Thence South 09°23'41" East with said line, a distance of 60.41 feet to the **TRUE POINT OF BEGINNING**, containing 23.148 acres of land, more or less.

Subject however to all easements, restrictions and rights-of-way of record, if any.

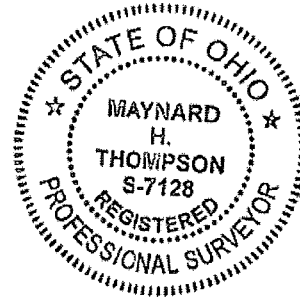
Basis of Bearing is the section line between Sections 30 and 36 being North 05°16'47" East as determined by GPS measurements between Montgomery County Monuments 1057 and 1058 and the Ohio State Plane Coordinate System, South Zone. All iron pins Set are 5/8" solid iron pins 30" in length with an orange plastic cap stamped "Floyd Browne Group".

The above description is based on and referenced to an exhibit prepared by Floyd Browne Group dated 06-12-06, attached hereto and made a part hereof.

All references are to the records of the Recorder's Office, Montgomery County, Ohio.

 6/12/06

Maynard H. Thompson, P.S. Date
Professional Surveyor No. 7128



APPENDIX D

Building Information

BUILDINGS LOCATED IN PARCEL 9

Building 1 & Building 106 Building 1 was a one-story, 986-square-foot concrete block structure, with a sheet metal addition (Building 106) on one side. The roof was of built-up membrane coal tar and asphalt. The building had electrical service of 240V and central steam. Building 1 was constructed in 1958. It consisted of four heavy-walled rooms, plus a small office area with a window air conditioner. The facility had been used to support the same program since construction. Research and testing activities involving energetic materials were conducted in the building. In the past, the building was used for processing and blending of explosive powders. More recently, it was used for packaging of energetic materials.

Building 24 The facility was constructed for the purpose of treating raw well water and had been used for the same purpose since construction. The facility was a concrete block structure built with slab-on-grade floor with built up membrane roof. The facility contained two large-capacity (100,000 gallon) zeolite-softening beds plus the chemicals and injection equipment for chlorination and rust inhibition. The building also contained two high-capacity booster pumps to distribute the treated water.

Building 27 and S-6 The explosive materials laboratory and testing, was a two-story, 5,300-square-foot, reinforced concrete, slab-on-grade structure with a built-up membrane (asphalt) roof. The south wall had frangible panels. The first floor contained laboratories, an office, storage, and explosive bays. The second floor contained a lavatory and a locker room. The building was serviced by sanitary and storm water service lines, a fire sprinkler water main, and electric service. Building 27 was constructed in 1969. The building had been used for the same purpose since construction. Research and testing activities using energetic materials have occurred in the building. Research, development and testing activities using radioactive materials have not occurred in Shed 6 (S-6) which occupied 35 square feet and was removed in 2002.

Building 42 Pyrotechnics and Thermite Production facility was a two-story, 2,892-square-foot combination reinforced concrete and concrete block slab-on-grade structure. It had a built-up membrane (coal tar) roof. A gravel area was on there on the remaining side. On the first floor of the structure (approximately 2,000 square feet) are the assembly cells, an electronic equipment room, lavatory, laboratory, office, storage, and a janitor's closet. The second floor (approximately 200 square feet) was the penthouse containing mechanical equipment. It had an outside access stairway. The building was serviced by central steam for heat and chilled water, and electrical service of 240V Building 42 was constructed in 1970. The building had been used for the same purpose since construction. Component testing and assembly of pyrotechnics and energetic materials have occurred in the building. The assembly rooms had steel blast shields or steel blast cells. The interior assembly

BUILDINGS LOCATED IN PARCEL 9

rooms contain distribution systems for nitrogen, argon, and high-pressure air.

Building 43 was a one-story, 1516 square-foot, reinforced concrete structure. The roof was of built-up membrane (asphalt). The building had been serviced with electrical service of 240V, and central steam and chilled water. Building 43 was constructed in 1971. The facility had been used for the same purpose since construction. Research and development activities involving thermite had been conducted in the building.

Building 67 was a one-story, 3,787-square-foot structure. Built slab-on-grade, it was a concrete-covered, polystyrene foam building with a metal roof. The building previously served as office space for energetic materials support staff. The building contains open office space with relocatable partitions, a lavatory, storage closets for office supplies and records, and a mechanical room with exterior entrance. There was interstitial space between the ceiling and the roof for utility duct work. The building was serviced by central steam for heat and chilled water, and electrical service of 240V. Building 67 was constructed in 1983. Mound personnel familiar with its construction indicated that approximately 15 feet of the site was removed and replaced with select fill prior to construction because of possible contamination involving a classified hazardous material. Records were not available to indicate whether or not all of the contamination had been removed. The building had been used for the same purpose since construction. The building was not contaminated with any radioactive, energetic, or asbestos-containing building materials.

Building 74 was a one-story, 400-square-foot, slab-on-grade structure. The facility was a manufactured Butler Building with metal arched walls and roof. The building was serviced by central steam for heat, an exhaust fan, and electrical service of 120V. Building 74 was constructed in 1984. The building was used for the same purpose since construction until activities were discontinued.

Building 85 was constructed in 1989. The building was built as a Class I powder processing facility, with a high bay area, three-foot thick reinforced concrete wall and ceiling, and an explosion-proof electrical system. The building had never been used.

Building 300 The building housed the OU1 pump and treat system using an air stripper for VOCs. It had been used for the same purpose since construction. The building was a prefabricated metal structure built with slab-on-grade. The facility was not supplied with utilities other than 480V, three-phase power to run the system and provide electric space heat.

Building 301: The building housed the OU1 air sparging/soil vapor extraction process. It had been used for the same purpose since construction. The facility was a

BUILDINGS LOCATED IN PARCEL 9

prefabricated metal structure on skids. The facility was not supplied with utilities other than 480V, three-phase power to run the system and provide electric heat.

Building 301A: The facility housed a gas chromatograph to analyze gases removed in the air sparging/soil vapor extraction process in Building 300. Building 301A was a converted prefabricated guard post building with electrical service.

Magazine 52 was a single compartment unit. This magazine was a reinforced concrete box structure classified as a non-standard, earth-covered magazine. The compartment area was less than 200 sq. ft. Magazine 52 was constructed in 1970, and demolished in 1999. The magazine had been used for the same purpose since construction. The magazine was used for the storage of energetic materials.

Magazine 64 was constructed in 1974. The building had been used for the same purpose since construction. Storage of energetic materials and components had occurred.

Building PH originally housed fuel oil pumps to supply the power house with fuel from a nearby tank (now demolished). It now houses a steam condensate pump and was used for storage. The facility no longer served its original design intent and the pumps have been removed. It then housed a steam line condensate pump and was used for miscellaneous storage of powerhouse supplies and some contractor supplies. No research, development, or production activities using radioactive or energetic materials have occurred in the building. The environmental appraisal showed that the building contained asbestos. The building was a concrete block structure with built-up membrane roof and slab-on-grade flooring. The facility had central steam heat, a window unit air conditioner, and 480V three-phase power. The brine line for the Building 24 zeolite softening bed recharge passed through Building PH.

Old Oil Storage Tank 5 Above ground, 315,000 gallon Fuel Oil Tank

Well Houses (WH)-1. The building, since its initial construction, had covered the well and housed a pump to help supply water to the Mound facility. WH-1, a well house, was a slab-on-grade floor with concrete block walls and a metal roof. The facility was not supplied with utilities other than 480V, three-phase power to run the water well pump and an electric space heater.

WH 2. The building covered a well and pump that helped furnish water to the Mound facility. It had been used for the same purpose since construction. WH-2, a well house, was a concrete slab-on-grade with masonry exterior walls and a built-up membrane roof. The facility had no utilities other than 480V, three-phase power to

BUILDINGS LOCATED IN PARCEL 9

run the water well pump and an electric space heater. A propane-fueled standby, direct-drive engine was hooked to the pump to provide power during electrical power outages.

WH-3. This building covered a well and pump that provides plant water supply to the Mound facility. It had been used for the same purpose since construction. WH-3, a well house, was a concrete slab-on-grade floor with masonry exterior walls and a built-up membrane roof. The facility had no utilities other than 480V, three-phase power to run the water well pump and an electric space heater. There was a propane-fueled, direct-drive engine to provide standby power during electrical power outages.

APPENDIX E

PRS Information

PRS DESCRIPTION	Contaminant	Initial Core Team Decision	Closeout document and decision	Comment period
PRS-8: Site Sanitary Landfill (Waste Storage and Disposal Sites Release Block I). PRSs 8, 9, 10, 11, & 12 included the historical landfill site and historical disposal site of plant waste materials, including general trash and liquid waste in an area of the site commonly referred to as Area B.		NFA	Recommendation signed 3/4/96	3/18/96 – 4/1/96
PRS-9: Area 18, Site Sanitary Landfill Cover (Waste Storage and Disposal Sites Release Block I). PRSs 8, 9, 10, 11, & 12 included the historical landfill site and historical disposal site of plant waste materials, including general trash and liquid waste in an area of the site commonly referred to as Area B.		NFA	Recommendation signed 3/4/96	3/18/96 – 4/1/96
PRS-10: Site Sanitary Landfill (Waste Storage and Disposal Sites Release Block I). PRSs 8, 9, 10, 11, & 12 included the historical landfill site and historical disposal site of plant waste materials, including general trash and liquid waste in an area of the site commonly referred to as Area B.		NFA	Recommendation signed 3/4/96	3/18/96 – 4/1/96
PRS-11: Site Sanitary Landfill (Waste Storage and Disposal Sites Release Block I). PRSs 8, 9, 10, 11, & 12 included the historical landfill site and historical disposal site of plant waste materials, including general trash and liquid waste in an area of the site commonly referred to as Area B. Based on the discovery of thorium contamination commingled with drum remnants at PRS 11.		NFA	OSC signed 11/26/03	12/5/03 – 1/4/04
PRS-12: Site Sanitary Landfill (Waste Storage and Disposal Sites Release Block I). PRSs 8, 9, 10, 11, & 12 included the historical landfill site and historical disposal site of plant waste materials, including general trash and liquid waste in an area of the site commonly referred to as Area B.		NFA	Recommendation signed 3/4/96	3/18/96 – 4/1/96
PRS-13: Trash Incinerator (Former Treatment Site). PRS 13 was identified as a trash incinerator was part of an overall open burning process employed from 1948-1970 in the old burn area, which was part of OU1.		NFA	Recommendation signed 12/18/96	2/22/97 – 4/3/97
PRS-14: Area C, Waste Storage Area (AKA Drum Staging Area and Chemical Waste Storage). Historical use as a drum storage area for staging chemical waste prior to off-site disposal.		NFA	Recommendation signed 5/8/96	6/19/96 – 7/17/96
PRS-21: Building 1, Leach Pit (Area 1). The RCRA PRSs 21, 22, 25, 26, 27, and 29, otherwise known as wastewater transfer structures, were identified as Potential Release Sites because of the concern that residual volatile organic compounds from past operations associated with Buildings 1 & 27 remained in/on the structures.		NFA	Recommendation signed 11/16/00	5/10/01 – 6/10/01
PRS-22: Building 1 Explosives, Waste Water Settling Basin (Tank 200). The RCRA PRSs 21, 22, 25, 26, 27, and 29, otherwise known as wastewater transfer structures, were identified as Potential Release Sites because of the concern that residual volatile organic compounds from past operations associated with Buildings 1 & 27 remained in/on the structures.		NFA	Recommendation signed 11/16/00	5/10/01 – 6/10/01

PRS DESCRIPTION	Contaminant	Initial Core Team Decision	Closeout document and decision	Comment period
PRS-23: Building 43 Explosives Waste Water Settling Basin (Tank 201). PRS 23 was identified as a concrete tank (Tank 201) that was installed in 1969 to filter and settle-out explosive elements from a planned explosive, production process slated to be housed in Building 43.		NFA	Recommendation signed 12/18/96	2/27/97 – 4/3/97
PRS-24: Building 43 Solvent Storage Tank (Tank 221) was identified as a solvent storage tank (Tank 221) that was constructed to store acetone or alcohol solvents for use in Building 43. The proposed use of Building 43, to purify explosive materials, never took place. The tank was never used and was removed in 1990.		NFA	Recommendation signed 12/18/96	2/27/97 – 4/3/97
PRS-25: Building 27 (unlined) Leach Pit (Area 1) was taken out of service in 1985. The RCRA PRSs 21, 22, 25, 26, 27, and 29, otherwise known as wastewater transfer structures, were identified as Potential Release Sites because of the concern that residual volatile organic compounds from past operations associated with Buildings 1 & 27 remained in/on the structures.		NFA	Recommendation signed 11/16/00	5/10/01 – 6/10/01
PRS-26: Building 27 Concrete Flume (Tank 217), use was discontinued in 1991. The RCRA PRSs 21, 22, 25, 26, 27, and 29, otherwise known as wastewater transfer structures, were identified as Potential Release Sites because of the concern that residual volatile organic compounds from past operations associated with Buildings 1 & 27 remained in/on the structures.		NFA	Recommendation signed 11/16/00	5/10/01 – 6/10/01
PRS-27: Building 27 Settling Sump (Tank 218). The RCRA PRSs 21, 22, 25, 26, 27, and 29, otherwise known as wastewater transfer structures, were identified as Potential Release Sites because of the concern that residual volatile organic compounds from past operations associated with Buildings 1 & 27 remained in/on the structures.		NFA	Recommendation signed 11/16/00	5/10/01 – 6/10/01
PRS-28: Building 27 Solvent/Drum Storage Area (Pad). It was an asphalt pad used for the temporary storage of past process solvent waste, and was presently used for storage of acetone.		NFA	Recommendation signed 6/19/01	5/8/02 – 6/8/02
PRS-29: Building 27 Filtration System. The RCRA PRSs 21, 22, 25, 26, 27, and 29, otherwise known as wastewater transfer structures, were identified as Potential Release Sites because of the concern that residual volatile organic compounds from past operations associated with Buildings 1 & 27 remained in/on the structures.		NFA	Recommendation signed 11/16/00	5/10/01 – 6/10/01
PRS-30: Building 27 Diesel Fuel Storage Tank (Tank 213) (AKA Bldg. 27 Propane Tank). PRS 30 was the site north of Building 27 where a propane tank was located. This tank was mistakenly listed as a PRS because it was incorrectly listed as an underground fuel oil tank by Mound Plant UST Plan.		NFA	Recommendation signed 3/18/97	6/17/97 – 7/18/97
PRS-33: Underground Sanitary Sewer Line G14 EAST. PRSs 31-36, 125 & 270 were identified as PRSs as a result of breaks and/or separations in Mound's sanitary sewer lines, identified during 1982 video survey of the lines.		NFA	Recommendation signed 11/26/02	12/4/02 – 1/3/03

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PRS-34: Underground Sanitary Sewer Line GI4 WEST. PRSs 31-36, 125 & 270 were identified as PRSs as a result of breaks and/or PRS-41: Area 3, Thorium Drum Storage and Redrumming Area. PRS 41 was located on the western portion of the site (Figure I).		NFA	Recommendation signed 11/26/02	12/4/02 – 1/3/03
PRS-59: Contaminated Soil Box Storage Area. PRS 59 was identified as a storage area for boxes containing plutonium contaminated soil during a USEPA 1988 preliminary Review Visual Site Inspection		NFA	Recommendation signed 5/13/97	7/15/97 – 8/17/97
PRS-67: Plant Drainage Ditch. PRS 67 was an open, unlined channel that flowed above ground through the central part of the facility from Building 22 to the retention basins on the western plant boundary. Only a portion of this PRS is located within Parcel 9. The ditch carried surface run-off from both the Main Hill and SM/PP Hill areas and the asphalt lined pond (removed) that drained into the ditch through culvert (removed), emerging behind Building 22. From that point the open ditch falls 40 feet over a length of 1800 feet.		NFA	OSC signed 1/10/06	N/A
PRS-69: Overflow Pond and outflow pipe were a PRS due to the presence of plutonium-238 contamination, site sanitary landfill leachate, effluent from the plant drainage system, and storm water runoff. The overflow pond was located near the southwest corner of the original plant property. Operating continuously since 1979, the pond had a capacity of 5 million gallons.		NFA	OSC signed 1/12/06	N/A
PRS-71: Building 85 Waste Solvent Tank (Tank 136). Historical process knowledge indicated that this PRS, which was a below grade tank located adjacent to Building 85, was never used.		NFA	Recommendation signed 3/4/96	3/18/96 – 4/1/96
PRS-75: Railroad Siding (Historical Railroad Spur Area) soils area in the vicinity of the railway siding, created due to its use as a radioactive drum storage, loading, unloading, and repackaging area. Multiple soil samples taken from the PRS 75 area had recorded concentrations of thorium-232 and plutonium-238 in excess of guideline criteria.	Th-232 Pu-238 Ra-226 U-238	RA	OSC signed 1/29/05	N/A
PRS 81: Drilling Mud Drum Storage Areas (3 locations, 2 within Parcel 9). These areas were designated a PRS due to suspected barium contamination from borehole cuttings that were stored in drums. The areas were used from 1987-1989.		NFA	Recommendation signed 5/8/96	5/15/96 – 6/17/96
PRS 176: Area 14, Radioactive Waste Line Break. In 1974, the soils associated with the WTS leaks (PRS-176) were remediated. In the mid 1980s, the WTS line, the two holding tanks, and Building 43 were removed.		NFA	Recommendation signed 12/17/96	1/9/97 - 2/13/97
PRS 282: Spoils Disposal Area Construction Spoils Area		FA	Recommendation signed 1/7/03	1/22/03 – 2/20/03

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PRS-300: Area 19, Underground Waste Transfer Line. This PRS was identified based on the fact that a pair of lines (waste transfer system [WTS]) had been installed to transfer plutonium-238 contaminated waste solutions from SM Building to WD Building. The PRS consisted of the WTS lines and the soil surrounding them from the SM area to the WD Building, a distance of approximately 2,600 feet.		NFA	Recommendation signed 12/17/96	1/9/97 – 2/13/97
PRS 346: Elevated Soil Gas Location was soil PRS located in the southern sector of the original Mound Plant. No radioactive or hazardous waste generating processes or activities were known to have occurred. These soils locations were identified as PRSs due to qualitative hydrocarbon detections found during the PETREX soil gas portion of OU5, Non Area of Concern investigation.		NFA	Recommendation signed 11/20/96	12/19/96 – 1/23/97
PRS 354: Elevated Soil Gas Location was identified due to a single elevated radiological detection of plutonium found during the Mound Soil Screening Analysis performed as part of the June 1994 OU5, Operational Area Phase I Investigation.		NFA	Recommendation signed 2/19/97	5/8/97 – 6/16/97
PRS 357: is a sampling location in the driveway area northwest of Bldg 67, between the main access road and the access roads leading to Bldg 67 and the sewage disposal plant parking lots. This soil location was identified as an PRS due to qualitative hydrocarbon detections found during the PETREX soil gas portion of the OM, Non Area of Concern Investigation. No radioactive or hazardous waste generating processes or activities are known to have occurred at these PRSs.		NFA	Recommendation signed 11/20/96	12/10/96 – 1/23/97
PRS 358: Located along the railroad siding near Bldg 24. Elevated Soil Gas Location was identified due to elevated levels of organic chemicals detected by the qualitative PETREX survey during the OU5, Non-AOC Investigation.		NFA	Recommendation signed 12/18/96	2/27/97 – 4/3/97
PRS 359: Elevated Soil Gas Location		NFA	Recommendation signed 11/20/96	12/19/96 – 1/23/97
PRS 361: Elevated Soil Gas Location		NFA	Recommendation signed 11/20/96	12/19/96 – 1/23/97
PRS 409: The site of a former chemical (Stoddard Solvent) concrete pad staging area. This area was encountered and remediated during the installation of a storm water drainage pipe in 1996. Contamination soils area located in Release Block I, OU1, just west of the site sanitary landfill. This area was identified September 23, 1996 by the contractor installing the OU4 canal re-route drainage pipe.	Stoddard Solvent	RA	Recommendation signed 1/11/05	8/25/05 – 9/24/05

PRS DESCRIPTION	Contaminant	Initial Core Team Decision	Closeout document and decision	Comment period
PRS 410: Based on a surface (8" below grade) soil stain and odor (thought to be diesel fuel) encountered during the removal and replacement of a storm water drainage pipe. The stained soil was sampled for total petroleum hydrocarbons (TPH) and found to contain 198 parts per million (ppm) (vs. 105 ppm Bureau of Underground Storage Tank Regulations criteria). All stained soil was removed, the utility project completed, and the area backfilled with clean gravel. The area was subsequently paved with asphalt.	TPH	FA	Recommendation signed 12/1/04	12/9/04 – 1/9/05
PRS 414: South Area Groundwater and Soil Evaluation.		Retired	Recommendation signed 12/2/04	12/9/04 – 1/8/05
PRS 418: Overflow Pond South Inlet.		NFA	Recommendation signed 6/22/01	8/9/00 – 9/14/00
PRS 419: Drainage Outflow Reroute. The reroute extends for a length of approximately 4500 feet proceeding south from its entrance near the concrete sealed "twin 60s" before exiting the Mound Plant property and emptying into the Great Miami River.		NFA	Recommendation signed 11/17/99	1/19/00 – 2/17/00
PRS 441: Soil Staging Area and Expansion the soil staging area and expansion area located near the rail spur, north of the overflow pond. This area had been used for the staging and loading of contaminated soils and debris awaiting shipment offsite. Includes the soil staging area, rail siding (including a segment formerly part of PRS 75), and a segment of the site drainage ditch (formerly part of PRS 67). The siding had been used for loading and unloading packaged materials and packaged wastes for the polonium, thorium, and plutonium projects during the 1950s, 60s, and 70s.	Th-232 Pu-238 Ra-226 U-238	RA	OSC signed 12/1/09	NA

NFA No Further Assessment
 FA Further Assessment
 RA Removal Action
 NA Not Applicable