

GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

Project Name	<u>FIELDS BROOK</u>	ProjectID: 05-04
Last Updated:	08/20/04	
City:	Ashtabula	
County:	Ashtabula	
State:	OH	
Country:	USA	
Bodies of Water:	Fields Brook; Ashtabula River	
US EPA Region:	V	
Status (Active, Complete, or Monitoring Only):	Active	
Date On NPL:	1989	
ROD/ESD Date:	1986 (OU-1); 1997 (OU-4); 1997 (ESD for OU-1); 1999 (site-wide ESD); 2001 (ESD for OU-1)	
Operable Unit:	OU-1; OU-3	
Areas of Concern (length or acres):	3.5 miles of the main stem and adjacent floodplains of Fields Brook upstream from its confluence with the Ashtabula River. The affected floodplain areas range in width from 25 to 400 feet.	
Other Characteristics of Water Body:	The Superfund site encompasses the entire 6.1-square mile drainage basin of the brook. Floodplain areas are covered by trees and heavy underbrush.	
Contaminants of Concern:	PCBs (primarily 1248); metals; VOCs; SVOCs; radionuclides; DNAPL	
Source of Contamination:	Several chemical companies and waste disposal Sites located in an industrialized area of Ashtabula through which Fields Brook flows.	
Contaminated Area Physical Characteristics:	Stream sediments and floodplain/wetland soils are targeted. Creek sediments and floodplain/wetlands soils are being treated as separate OUs for design purposes. In addition, both are separated depending on whether they border industrial or residential areas. For excavation purposes, the brook is further segmented into exposure units (EUs). The two risk drivers at the site are PCBs and hexachlorobenzene and the only method of exposure considered during development of site-specific cleanup goals was ingestion of soils and sediments from direct contact from Fields Brook. Human health risks associated with the Ashtabula River downstream of its confluence with Fields Brook have been attributable to the consumption of contaminated fish. It is unclear what portion of this risk, if any, has been attributed to contamination originating from Fields Brook.	
Type of Regulatory Action:	Superfund. Final.	
Overall Status Summary:	<p>The original ROD, for sediment OU-1, was issued in 1986. An ESD for OU-1 was issued in late 1997 and reduced the volume of sediments (contaminated with PCBs, metals, and VOCs) to be remediated from the 52,000 cy specified in the ROD to 14,000 cy. Target cleanup levels in sediments are set at 1.3 ppm PCBs and 3.1 ppm PCBs for areas adjacent to residential and industrial properties, respectively. Reasons for the volume reduction include (1) deleting stream areas lying upstream of the sources, (2) targeting average cleanup levels, and (3) allowing contaminated sediments below the depth of hydraulic scour to be left in place. An estimated 3,000 cy of sediments contaminated with 50 ppm or greater PCBs, and those sediments with high potential for mobility which have a soil/water partition coefficient (KOC) of less than 2,400, were to be thermally treated at an offsite facility; the remaining sediments were to be disposed of in an onsite landfill to be constructed on one of the industrial sites adjacent to the brook.</p> <p>A separate ROD (OU-4) for the Floodplains/Wetlands areas (FWA) was issued in June 1997 and called for FWA sediments to be excavated in non-residential areas to 50 ppm PCBs and in</p>	

GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

Project Name

FIELDS BROOK

ProjectID: 05-04

Last Updated:

08/20/04

residential areas to 30 ppm. Residential areas with PCB concentrations between 6 and 30 ppm were to be covered with 6 inches of soil. The ROD also specified that excavated soils/sediments would be disposed of in a TSCA-equivalent landfill to be located on the RMI Sodium property adjacent to the brook.

As of Oct. 1998, radioactive material (radium) was discovered on the Millennium property and in adjacent and downstream FWAs and brook sediment. This event required modification to the original design to address disposal of removed soils/sediments contaminated with radionuclides (i.e., upgrade the landfill design and determine the impact on incineration). An ESD was issued in April 1999 to modify the remedial actions proposed in the previous RODs to accommodate the impact of removing radionuclide-contaminated materials. The ESD provided cleanup levels for radionuclides in FWAs and Fields Brook sediment (residential areas: 5 pCi/g above background; industrial areas: 10 pCi/g above background). In addition, the ESD required that all FWA soils and creek sediments with radionuclides above cleanup levels be removed and that the landfill design be modified to add an additional three-foot thickness of clay to the base of the landfill and an additional two-foot thickness of clay to the landfill cover.

A consent decree was signed in 1999 that required the 25 PRPs to pay the government \$1,703,817 in past costs, \$840,000 in NRD, and to finance the cost for clean up and long-term monitoring of Fields Brook.

Remediation began in late August 2000, about one month behind the proposed construction schedule as a result of weather-related delays in completing the landfill. Remediation was by dry excavation; 2,000-ft. sections of the creek were isolated by damming and by-passing creek flow to allow removal of creek sediment and FWA soils simultaneously. Floodplain areas were removed to a maximum two-foot depth and were to be revegetated with native plant species following completion. Excavation of FWA soils began in upstream areas adjacent to the industrial properties; work continued downstream toward the residential properties. In addition, although no homes are situated in the contaminated areas, residential properties reportedly extend across the floodplain to the brook centerline. Property access issues in and around the residential properties required resolution prior to working in these areas.

The specified removal depth for sediments from the brook was set at the depth of scour (estimated at 1 - 3.5 ft.), but in no case was excavation depth to exceed two feet. Sediments contaminated with PCBs above the action level at depths greater than the depth of scour (or two feet, whichever was less) were to be left in place as long as the area remediated was backfilled and armored. Excavated areas susceptible to scour were to be covered with erosion-resistant materials following excavation.

The combined volume of sediment and FWA soils to be removed from areas adjacent to residential and industrial properties was estimated to be 19,200 cubic yards and 20,000 cubic yards, respectively. Disposal for a majority of the removed material would be to a three-acre double-lined landfill located at the former RMI Sodium Plant (one of the industrial sites identified as a historical source of contamination to Fields Brook). An estimated 3,000 cy was to be sent off-site to Port Arthur, TX for thermal treatment.

Confirmation sampling was required only in areas where radionuclides were found; all other areas required excavation to the depth target of two feet maximum. During excavation of the FWA and creek adjacent to the Millennium property, which was the identified source of the radionuclides, the contractor reportedly found previously unidentified radionuclide hot spots that required removal and added to the originally estimated total removal volume.

GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

Project Name

FIELDS BROOK

ProjectID: 05-04

Last Updated:

08/20/04

During work in 2000, a layer of DNAPL was discovered in soil beneath the FWA and Sediment OU adjacent to the Detrex property. As a result of this discovery, an ESD was issued in August 2001 that specified the remedial and treatment requirements for DNAPL-contaminated soil. The ESD required that areas with liquid DNAPL would be excavated and areas with no liquid DNAPL would be excavated to 200 ppm hexachlorobenzene. The anticipated removal volume was 10,000 cubic yards of DNAPL-contaminated soil. The ESD also changed the treatment method for DNAPL-contaminated soil from offsite incineration to onsite thermal treatment. Liquid DNAPL collected during soil excavation was sent for offsite incineration.

Harding Lawson Associates was the original primary cleanup contractor but was replaced by Severson Environmental Services following the 2000 work season; de maximus, inc. was the oversight contractor; and Conestoga-Rovers provided QA/QC support.

Work on the project ended in February 2003 following demobilization of equipment from the site. A total of 53,094 cy of soil and sediment was removed at a cost of between \$15 and \$16 million (between \$283 and \$301 per cy). Of the total volume of material removed, 31,238 cy were disposed in an onsite dedicated landfill, 1,436 cy went to offsite thermal treatment, and 20,420 cy were thermally treated onsite.

Remedial Action Planned: ☒

Risk Assessment: ☒

Remedial Action Implemented: ☐

Status of Dredging ☐

PRPs: ☒

Contacts: ☒

References: ☒

Modeling: ☐

Fishing Advisory: ☒

Key Conditions: commercial landfill, dedicated landfill or CDF, floodplains targeted, incineration, post monitoring, property access issues

REMEDIAL ACTION PLANNED

Project Name	<u>FIELDS BROOK</u>	ProjectID: 05-04
Last Updated:	03/05/03	
Target Sediment Cleanup Standards (TSCS):	For Sediment OU: 1.3 ppm PCBs - residential areas 3.1 ppm PCBs - industrial areas	
How TSCS Established:	Cleanup Goals (CUGs) were established for each contaminant of concern.	
Target Bank and Floodplain Cleanup Levels (if applicable):	<p>For the Floodplain/Wetlands OU, average CUGs (cleanup goals) for PCBs are: 1 ppm in residential areas; 6 to 8 ppm in industrial areas. CUGs were established from a 1996 Human Health Risk Assessment. Excavation goals are as follows:</p> <ul style="list-style-type: none">• Excavation of soils with total PCB concentrations above 30 ppm and hexachlorobenzene concentrations above 80 ppm in FEU 2 and 3 (residential);• Excavation of soils with total PCB concentrations above 50 ppm and hexachlorobenzene concentrations above 200 ppm in FEU 4, 6, and 8 (industrial);• Placement of a 6-inch soil cover of hydric-compatible soils over soils containing between 6 and 30 ppm in FEU 2 and 3 with subsequent vegetation;• Disposal of excavated soils in an on-site landfill located at a selected industrial facility on the Fields Brook site; and• Physical inspections and chemical sampling to be conducted as part of long term monitoring.	
Other Target:	<p>Source Control OU delineation is as follows:</p> <ul style="list-style-type: none">• Acme Property - dig up the first foot of surface soil containing PCBs at concentrations > or = 50 ppm and dispose of either at an on-site or off-site TSCA-approved landfill. Cap remaining soils.• RMI property - soils > 10 ppm to be excavated.• Millennium property - soils at > 50 ppm to be excavated and disposed of either at an on-site or off-site TSCA-approved landfill. Remaining soils may be consolidated and capped.• Detrex property - included 1,500 ft. slurry wall to contain ground water flow; GW pump and treat using 40 extraction wells.• Conrail property - 90 cy of soil to be excavated• Sewers - sewer sediments will either be removed, or stabilized with cement and left in place. Replacement sewers will be added.	
Environmental Sample Data References:	<ul style="list-style-type: none">• Sediment:• Water:• Fish:	
Estimated Target Volume:	Creek Sediments (OU-1): 14,000 cy; Floodplain/Wetland Area (OU-4): 15,300 cy.	
Planned Disposal Method:	For OU-1, 3,000 cy of contaminated sediments in excess of 50 ppm PCBs will be thermally treated at an off-site facility; the remaining 11,000 cy will be disposed of in an on-site landfill located at a selected industrial facility within the Fields Brook site. All excavated soil/sediment from the Floodplain/Wetlands OU will be disposed of at the same on-site landfill.	
Estimated Calendar Time to Implement Remedy:	Preparation work to commence in Spring 1999 and removal work to extend through 2000.	
Estimated Time to Implement Remedy:	22 months; Tentatively design to be completed in Spring 1999, preparation activities are scheduled to begin in Summer/Fall 1999, and the remedial action is targeted to be performed in 2000.	

REMEDIAL ACTION PLANNED

Project Name	<u>FIELDS BROOK</u>	ProjectID: 05-04
Last Updated:	03/05/03	
Estimated Cost to Implement Remedy:	Acme - \$3.2 million; RMI - \$200,000; Millennium - \$7.5 million; Detrex - \$5.1 million; Conrail - \$104,000; Sewers - \$610,000 For Floodplain/Wetland Area: Estimated removal costs (present worth) - \$6,900,000 Estimated cover cost (present worth) - \$60,000 Estimated O & M cost (1 year present worth) - \$111,000	
Stated Remedial Action Objectives (and Source):		
Measures of Success to be Used:	Floodplain/Wetland area cleanup levels for PCBs (solid and sediment remediation): Industrial Areas - 50 ppm Residential Areas - 30 ppm; 6-30 ppm (covered)	
Planned Monitoring and Restoration:	Physical inspections and chemical sampling are required as part of long-term monitoring.	
Agency Position on Sediment Removal (and Source):		

RISK ASSESSMENT

Project Name ***FIELDS BROOK***

ProjectID: 05-04

Last Updated: 08/11/98

RA Type: Human Health

RA Status: Complete

RA Objectives: As part of the ARCS program, a baseline human health risk assessment was performed in which exposure and risk assessment guidelines, developed for the EPA Superfund program, were applied to determine the baseline human health risks associated with direct and indirect exposures to sediment-derived contaminants in the Ashtabula River AOC. These risks were estimated for non-carcinogenic (e.g., reproductive toxicity, teratogenicity, liver toxicity) and carcinogenic (i.e., probability of an individual developing cancer over a lifetime) effects.

For the Floodplain/Wetlands areas (FWA) HHRA, the objective was to determine the potential risks to human health posed by the contaminants detected in the FWA soils and sediments.

***Company
Performing RA:*** AScl

RA Reference Report: Reference M-111

***RA Summary and
Conclusions:*** "This assessment focused on only one pathway by which residents of the lower Ashtabula River were likely to be exposed to sediment-derived contaminants: the consumption of contaminated fish. Other exposure pathways were determined to be either incomplete (e.g., ingestion of sediments) or insignificant in terms of risk (e.g., ingestion of surface water during infrequent swimming events)."

"Non-carcinogenic risks, as represented by the Hazard Index (HI), were below levels of concern (i.e., less than 1) for most of the typical and reasonable maximum exposure scenarios. For fish collected from the Ashtabula Harbor, only the consumption of whole carp under the subsistence exposure scenario resulted in significant risk. The subsistence consumption of large mouth bass fillets, bluegill fillets, and whole carp collected from below Fields Brook could pose a potential non-carcinogenic risk to anglers and their families; the reasonable maximum consumption of carp at this site was also of concern. The estimated risks were mostly attributable to methyl mercury and copper contamination. Methyl mercury has been shown to cause central nervous system effects in humans at the lowest adverse effect level of 0.003 mg/kg/day. Information about the types of non-carcinogenic effects one might experience from chronic exposure to copper was not available."

"A carcinogenic risk estimate could not be calculated for the consumption of small/large mouth bass collected from the Ashtabula Harbor and for bluegills collected from both the river and harbor; this was because no carcinogens were detected in these fish fillets. The upper-bound carcinogenic risk estimates associated with the consumption of large mouth bass fillets collected below Fields Brook were below concern levels (i.e., less than 10⁻⁶) under all three exposure scenarios."

"Methylene chloride was the only carcinogen detected in the bass for which a toxicity value was available. The consumption of whole carp was of concern at both the harbor and river under all three exposure scenarios. The carcinogenic risk from consuming carp was attributable to PCB contamination. There is a possibility that people who ingest, inhale, or have dermal contact with certain PCB mixtures may have a greater chance of incurring liver cancer; however, this statement is based on suggestive evidence rather than on verified data (IRIS data base retrieval for PCBs, 1992)."

"The human health risks attributable to carp consumption were probably overestimated because the risk estimates were based on data derived from whole carp instead of fillets. In addition, the data were also based on raw fish; (different preparation and cooking techniques may reduce concentrations of hydrophobic organic contaminants (e.g., PCBs) in fish as the fat is trimmed away prior to cooking)"

Project Name **FIELDS BROOK****ProjectID:** 05-04**Last Updated:** 08/11/98

"Several assumptions and estimated values were used in this baseline risk assessment that contributed to the overall level of uncertainty associated with the noncarcinogenic and carcinogenic risk estimates. As with most environmental risk assessments, the uncertainty of the risk estimates probably varied by around an order of magnitude or greater. One of the greatest sources of uncertainty was the assumption that exposure intakes and toxicity values would not change during the exposure duration. This assumed that human activities and contaminant levels would remain the same over the exposure duration, and that toxicity values would not be updated."

(Source: 1997 ROD [OU-4]): "For the Floodplain/Wetlands areas, the total potential carcinogenic risk associated within each FEU is greater than the 10^{-6} risk which is considered the departure point for acceptable risk by U. S. EPA. The potential excess cancer risks ranged from 1.6×10^{-3} (at FEU 3) to 1.2×10^{-4} (at FEU 8). Exposure to PCBs and hexachlorobenzene, both Class B2 carcinogens, contributed the majority of the excess cancer risk. There is not likely to be a short term risk to anyone walking along the brook in the FWA. However, there is a calculable cancer risk to residents, workers, and trespassers due primarily to long-term exposures through ingestion of soils and contaminants in the FWA soils and brook sediments."

"In FEU 2, FEU 3, FEU 4, and FEU 6, the hazard indices (HI) are greater than one, indicating that adverse health effects may occur from exposure to the site. The hazard indices range from 25 in FEU 3 (due primarily to potential exposures to PCBs) to 1.6 in FEU 8 (due to potential exposures to the same contaminant). These values reflect addition of all the HI's in a given FEU regardless of the chemical-specific endpoint."

"The two major risk drivers at the Fields Brook site are PCBs and HCB. Risk from these two contaminants account for all of the additive risk at the site. Beryllium and tetrachloroethane contribute a risk in the 10^{-6} range in FEU's 2 and 3 and FEU 6 respectively. Both PCB and HCB have carcinogenic and non-carcinogenic effects. In addition, both PCB and HCB have been shown to affect the developing fetus, indicating that the hazard indices for these two chemicals can be appropriately added."

(Source: 1986 ROD): "Excess cancer risks due to ingestion of sediments was reviewed as part of another risk analysis. The results of this assessment concluded that in most reaches of Fields Brook and its tributaries, excess lifetime cancer risks greater than the 10^{-6} level could occur due to sediment ingestion. For example, the excess lifetime cancer risk for residents near the Detrex Tributary is estimated to be 5×10^{-2} (maximum concentration) and 2×10^{-2} (average concentrations). For workers near this same tributary, the excess lifetime cancer risk is estimated at 1×10^{-4} (average concentrations) and 5×10^{-4} (maximum concentrations)."

REMEDIAL ACTION IMPLEMENTED

Project Name:	<u>FIELDS BROOK</u>	ProjectID: 05-04
Last Updated:	08/20/04	
Physical Target:	Approximately 30,000 cy of stream sediment and floodplain/wetlands soils.	
Goals:	Remove all brook sediment containing greater than 1.3 ppm PCBs and greater than 3.1 ppm PCBs in residential and industrial stretches of the brook, respectively. For floodplain/wetland areas, remove all soil containing greater than 30 ppm PCBs and 50 ppm PCBs in residential and industrial areas, respectively; additionally, cover residential areas contaminated with between 6 and 30 ppm PCBs with 6 inches of soil. Remove all brook sediment and floodplain/wetland soil containing greater than 5 pCi/g above background and 10 pCi/g above background in residential and industrial areas, respectively. In areas of DNAPL, all soils with visually observed liquid DNAPL would be removed and all soil with greater than 200 ppm hexachlorobenzene in areas with not visually observed liquid DNAPL would be removed.	
Primary Contractor:	Initially, Harding Lawson Associates (later became Harding ESE, a Mactec Company); in April 2001, replaced by Severson Environmental Services.	
Other Contractors:	Conestoga-Rovers & Associates (environmental consultant to the Fields Brook Action Group)	
Generic Remediation Method:	Dry excavation	
Equipment:	Conventional earth moving equipment that included excavators (both conventional and long-reach) and trucks for transporting the removed materials. Floodplains/wetlands soils were removed and placed directly into trucks for transport.	
Material Handling:	Most areas required clearing and grubbing of vegetation prior to the start of removal activities. Remediation was performed isolating 2000-ft. sections of the creek by damming and by-pass pumping of creek flow that allowed removal of sediment and FWA soils simultaneously. Floodplain soils were removed to a maximum two-foot depth and excavated areas were revegetated with native plant species following completion. Removed material designated for onsite landfill disposal was first solidified. Work was performed upstream to downstream to avoid recontamination of previously remediated areas. Excavated areas of the brook susceptible to scour were covered with erosion-resistant materials, e.g., geotextile, jute mesh, rip-rap and other stone, following excavation. Excavated areas were backfilled using a combination of low-temperature thermal desorption treated soils and imported fill and topsoil.	
Volume Removed:	53,094 cy; specifically: 11,942 cy of sediment; 20,732 cy of floodplain /wetlands soil; 20,420 cy of DNAPL impacted soils	
Calendar Time:	April 2000 (initial mobilization to the site) to February 2003 (demobilization from the site)	
Time To Implement:	Two years and ten months	
Total Cost:	\$15 to \$16 million	
Dredging Cost:		
Disposal of Sediment:	Of the 53,094 cy of sediment and floodplain soil removed, 31,238 cy were disposed in the onsite dedicated landfill, 1,436 went to offsite thermal treatment, and 20,420 cy were thermally treated onsite.	
Volume of Water:	Water impacted by excavation activities was collected and transported to an influent pond prior to treatment.	
Method of Water Treatment:		

REMEDIAL ACTION IMPLEMENTED

Project Name: **FIELDS BROOK**

ProjectID: 05-04

Last Updated: 08/20/04

Water Discharge Limit: Discharge limits were provided for VOCs, SVOCs, PCBs, target metals, and radionuclides.

Air Monitoring During Remediation:

Water Monitoring During Remediation:

Outcome: The specified removal depth for sediments from the brook was set at the depth of scour (estimated at 1-3.5 ft.), but in no case was removal to exceed 2 ft. Sediments contaminated with PCBs above the action level at depths greater than the depth of scour (or 2 feet, which ever was less) were left in place as long as the area remediated was backfilled and armored.

Collection of confirmation samples was only required in areas of the floodplains/wetlands in which radium had been detected. Following excavation, these areas were divided into 50x50 ft grids and confirmation samples were collected using real-time instrumentation. If real-time measurements indicated that sufficient material was removed, a five-point composite sample was collected from each grid for laboratory analysis for both radium 226 and radium 228 for comparison to target cleanup levels. Following confirmation that the target cleanup level was met, the area was backfilled.

Restoration and Post-Monitoring: A plan has been prepared and submitted to the agency for the long-term operation, monitoring, and maintenance of the site. Remedial construction activities required significant restoration of impacted areas. Restoration in sediment removal areas included backfilling and placement of erosion protection, e.g., coir logs, rip rap. Restoration in floodplain/wetlands areas included backfilling and replacement of vegetation similar to that observed in the same areas prior to the start of remedial activities. Planting of wetland vegetation was performed in 2002 and 2003.

Site-Specific Difficulties: (1) Numerous access issues in and around the residential properties that required resolution prior to commencing work in these areas.

(2) Inadequate delineation of the target areas resulted in the finding of an area of previously undetected DNAPL following the start of excavation work. This discovery delayed further work on the project to allow for investigation and delineation of the area impacted by the DNAPL; to formulate a plan for addressing the DNAPL area; to issue a separate ESD by the agency to explain the selected remedy; and to mobilize an LTTD unit to the site to treat DNAPL-contaminated sediment and soils.

Monitoring Data

References:

- *Sediment*
- *Water:*
- *Fish:*

POTENTIALLY RESPONSIBLE PARTIES

Project Name **FIELDS BROOK**

ProjectID: 05-04

PRP Name: PRP INFORMATION NOT RELEASED

PRPID:

Street Address:

City:

State:

KEY CONTACTS

Project Name **FIELDS BROOK**

ProjectID: 05-04

Last Name: KEY CONTACT INFORMATION NOT RELEASED

Contact ID:

First Name:

Title:

Company:

Address:

City:

State:

Postal Code:

Work Phone # :

Other Phone #:

Fax # :

Email Address:

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: A

ReferenceID: 6

Title: ***Record of Decision: Fields Brook - Operable Unit #4
Floodplains/Wetlands Area***

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:** 77 West Jackson Blvd.
Chicago, IL 60604

Prepared For: General Public

Date Published: June 30, 1997

**Key Words and
Phrases:**

Reference Type: A

ReferenceID: 34

Title: ***Record of Decision: Remedial Alternative Selection***

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: September 30, 1986

**Key Words and
Phrases:**

Reference Type: A

ReferenceID: 186

Title: ***Explanation of Significant Differences: Sediment Operable
Unit - Fields Brook Site, Ashtabula Ohio***

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author: Woodward-Clyde Consultants

**Preparer/Author
Address:**

Prepared For: US EPA Region V, Superfund Division

Date Published: August 15, 1997

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: A

ReferenceID: 187

Title: ***Record of Decision: Fields Brook Superfund Site - Source Control Operable Unit***

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author: Woodward-Clyde Consultants

**Preparer/Author
Address:**

Prepared For: US EPA Region V, Superfund Division

Date Published: September 29, 1997

**Key Words and
Phrases:**

Reference Type: A

ReferenceID: 344

Title: ***Sediment Quantification Design Investigation (SQDI), Task Work Plan, Fields Brook Site, Ashtabula, Ohio (Revision 3)***

Location: AEM

Category: Contaminated Sediments: Investigation/Delineation

Prepared by/Author: Woodward-Clyde Consultants

**Preparer/Author
Address:** 122 S. Michigan
Chicago, IL 60603

Prepared For: Fields Brook Settling Companies

Date Published: May 15, 1990

**Key Words and
Phrases:**

Reference Type: A

ReferenceID: 345

Title: ***Appendix C, Field Sampling Plan, Sediment Quantification Design Investigation (SQDI), Fields Brook Site, Ashtabula, Ohio (Revision 3)***

Location: AEM

Category: Contaminated Sediments: Investigation/Delineation

Prepared by/Author: Woodward-Clyde Consultants

**Preparer/Author
Address:** 122 S. Michigan
Chicago, IL 60603

Prepared For: Fields Brook Settling Companies

Date Published: May 15, 1990

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: A

ReferenceID: 449

Title: **Project Update - Millennium Soil Cleanup Completed
Fields Brook Superfund Site**

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: December 1999

**Key Words and
Phrases:**

Reference Type: A

ReferenceID: 950

Title: **EPA Superfund Explanation of Significant Differences: Fields
Brook OUI**

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For:

Date Published: August 15, 2001

**Key Words and
Phrases:**

Reference Type: A

ReferenceID: 951

Title: **Phase III Floodplain Sampling Design**

Location: AEM

Category: Contaminated Sediments: Investigation/Delineation

Prepared by/Author: Woodward-Clyde

**Preparer/Author
Address:** 30775 Bainbridge Road, Suite 200
Solon, OH 44139

Prepared For: Fields Brook PRP Organization

Date Published: October 1994

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: A
Title: ***FWA Delineation Sampling Plan***
Location: AEM
Category: Contaminated Sediments: Investigation/Delineation
Prepared by/Author: Woodward-Clyde
Preparer/Author Address: 30775 Bainbridge Road, Suite 200
Solon, OH 44139
Prepared For: Fields Brook Action Group
Ashtabula, OH
Date Published: March 20, 1997
Key Words and Phrases:

ReferenceID: 952

Reference Type: A
Title: ***Sediment Operable Unit – PCB Delineation Sampling Plan***
Location: AEM
Category: Contaminated Sediments: Investigation/Delineation
Prepared by/Author: Woodward-Clyde
Preparer/Author Address: 30775 Bainbridge Road, Suite 200
Solon, OH 44139
Prepared For: Fields Brook Action Group
Ashtabula, OH
Date Published: February 5, 1997
Key Words and Phrases:

ReferenceID: 953

Reference Type: A
Title: ***Site-Wide Explanation of Significant Differences – Modifying the Decisions For The Sediment, Floodplain/Wetland and Source Control Operable Units***
Location: AEM
Category: ROD/Proposed Plan/Action Memo/Decision Document
Prepared by/Author: US EPA Region V
Preparer/Author Address:
Prepared For:
Date Published: April 8, 1999
Key Words and Phrases:

ReferenceID: 954

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: A

ReferenceID: 956

Title: ***Unilateral Administrative Order in The Matter of: Fields Brook Site, Operable Units 1 & 4***

Location: AEM

Category: Legal

Prepared by/Author: US EPA Region V

Preparer/Author Address:

Prepared For: Multiple Respondents

Date Published: December 17, 1997

Key Words and Phrases:

Reference Type: A

ReferenceID: 957

Title: ***Consent Decree with Archer Daniels Midland Company***

Location: AEM

Category: Legal

Prepared by/Author:

Preparer/Author Address:

Prepared For:

Date Published: July 7, 1999

Key Words and Phrases:

Reference Type: A

ReferenceID: 958

Title: ***Explanation of Significant Differences - - Modifying the Decisions for the Sediment and Floodplain / Wetland Operable Units to Address DNAPL-Impacted Soils and Sediments***

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author: US EPA Region V

Preparer/Author Address:

Prepared For:

Date Published: August 17, 2001

Key Words and Phrases:

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: A
Title: ***NPL Fact Sheets for Ohio: Fields Brook***
Location: AEM
Category: Site Update
Prepared by/Author: US EPA Region V
Preparer/Author Address:
Prepared For: General Public
Date Published: January 2003
Key Words and Phrases:

ReferenceID: 1044

Reference Type: A
Title: ***Final Construction Report - Sediment Operable Unit and Floodplain/Wetlands Operable Unit (Volume 1 of 5) (Draft)***
Location: AEM
Category: Close-Out Report
Prepared by/Author: Conestoga - Rovers & Associates
Preparer/Author Address: 651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
Prepared For: US EPA Region V
Date Published: August 11, 2003
Key Words and Phrases:

ReferenceID: 1058

Reference Type: B
Title: ***Fields Brook Superfund Site - Update Ashtabula, Ohio***
Location: AEM
Category: Site Update
Prepared by/Author: US EPA Region V
Preparer/Author Address: 77 West Jackson Boulevard
Chicago, IL 60604-3590
Prepared For: General Public
Date Published: July 1992
Key Words and Phrases:

ReferenceID: 31

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: B

ReferenceID: 124

Title: **EPA National Priorities List: Fields Brook
(EPA ID# OHD980614572)**

Location: AEM

Category: Site Update

Prepared by/Author: US EPA HQ

**Preparer/Author
Address:** Office of Emergency and Remedial Response

Prepared For: General Public

Date Published: February 1996

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 125

Title: **Remediation Information (1986 ROD Summary)**

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For:

Date Published:

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 218

Title: **1. Fields Brook; Ashtabula, Ohio**

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For:

Date Published: December 12, 1996

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: B

ReferenceID: 505

Title: ***EPA Proposes Plan for New Contamination Found at Fields Brook Site; Meeting May 10, 7 P.M.***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

Preparer/Author Address: 77 West Jackson Blvd
Chicago, IL 60604

Prepared For: General Public

Date Published: May 3, 2001

Key Words and Phrases:

Reference Type: B

ReferenceID: 546

Title: ***EPA Revises Plan For New Contamination At Fields Brook Site***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

Preparer/Author Address:

Prepared For: Distribution

Date Published: August 28, 2001

Key Words and Phrases:

Reference Type: B

ReferenceID: 795

Title: ***Realizing Remediation I - Great Lakes Contaminated Sediments Ashtabula Fields Brook Superfund Site (see Reference A-905)***

Location: AEM

Category: Dredging: Remedial (Contaminated Sediments)

Prepared by/Author: US EPA Great Lakes National Program Office (GLNPO)

Preparer/Author Address: 77 West Jackson Boulevard (G-17J)
Chicago, IL 60604

Prepared For: General Public

Date Published: August 1, 2002

Key Words and Phrases:

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: B

ReferenceID: 839

Title: ***Realizing Remediation II - Updated Summary:
Ashtabula River - Fields Brook Superfund Site
(see Reference A-907)***

Location: AEM

Category: Dredging: Remedial (Contaminated Sediments)

Prepared by/Author: US EPA Great Lakes National Program Office (GLNPO)

**Preparer/Author
Address:** 77 West Jackson Boulevard (G-17J)
Chicago, IL 60604

Prepared For: General Public

Date Published: July 2000

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 884

Title: ***Memo re: Transmittal of Revised Figures (for Phase III
Floodplain Sampling Design)***

Location: AEM

Category: Contaminated Sediments: Investigation/Delineation

Prepared by/Author: Martin L. Schmidt

**Preparer/Author
Address:** Woodward-Clyde

Prepared For: Edward J. Hanlon

Date Published: November 1994

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: B
Title: ***Memo re: Floodplains/Wetlands Sampling Plan***
Location: AEM
Category: Contaminated Sediments: Investigation/Delineation
Prepared by/Author: Edward J. Hanlon
Preparer/Author Address: US EPA Region V
Prepared For: Joseph A. Heimbuch
de maximis, inc
Civic Center Plaza, Suite 104
33300 Five Mile Road
Livonia, MI 48154
Date Published: December 13, 1994
Key Words and Phrases:

ReferenceID: 885

Reference Type: B
Title: ***Project Update – Fields Brook Superfund Site (November 1998)***
Location: AEM
Category: Site Update
Prepared by/Author: US EPA Region V
Preparer/Author Address:
Prepared For: General Public
Date Published: November 1998
Key Words and Phrases:

ReferenceID: 886

Reference Type: B
Title: ***EPA and DOJ Sign Consent Decree for Fields Brook Site (July 1999)***
Location: AEM
Category: Legal
Prepared by/Author: US EPA Region V
Preparer/Author Address:
Prepared For: General Public
Date Published: May 19, 1999
Key Words and Phrases:

ReferenceID: 887

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: B

ReferenceID: 888

Title: **Project Update – Fields Brook Superfund Site**

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: July 1999

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 889

Title: **Majority of Cleanup to be Finished This Year**

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: March 2000

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 890

Title: **Monthly Technical Status Report (August 1 through August 31, 2000)**

Location: AEM

Category: Site Update

Prepared by/Author: (1) Robert Rule; (2) Jeff Daniel; (3) Allan Steckelberg

**Preparer/Author
Address:** (1) de maximus, inc.
(2) Conestoga Rovers Associates
(3) Harding Lawson Associates Construction Division

Prepared For: US EPA Region V

Date Published: August 31, 2000

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: B

ReferenceID: 891

Title: ***EPA: Excavation Begins at Fields Brook Site***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: September 11, 2000

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 892

Title: ***Fields Brook Cleanup Report (Issue No. 1 - Summer/Fall, 2000)***

Location: AEM

Category: Site Update

Prepared by/Author: Fields Brook Action Group

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: 2000 Fall

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 893

Title: ***e-mail re: EPA Holds Public Meeting to Discuss Fields Brook Site, 7 PM, Monday, December 11***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: November 30, 2000

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: B

ReferenceID: 894

Title: ***Fields Brook Cleanup Report (Issue No. 2 - Fall/Winter, 2000-2001)***

Location: AEM

Category: Site Update

Prepared by/Author: Fields Brook Action Group

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: 2001 Winter

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 895

Title: ***U.S. EPA Evaluates On-Site Treatment Proposal for Additional Contamination Found Last Fall***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: May 2001

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 896

Title: ***Substantial Progress Made in Industrial Cleanups; Additional Contamination Found in Brook & Floodplain***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: November 2000

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: C

ReferenceID: 8

Title: ***EPA OKs Ohio ROD over state objections***

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Superfund Week

Date Published: November 14, 1997

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 16

Title: ***Source fix could cost \$17M at Fields Brook***

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Superfund Week

Date Published: August 22, 1997

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 20

Title: ***EPA delivers Fields Brook ROD***

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Superfund Week

Date Published: August 8, 1997

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: C

ReferenceID: 41

Title: **\$24M Fields Brook project needs contractors**

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Superfund Week

Date Published: April 3, 1998

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 61

Title: **EPA Tests Sediment Cleanup Methods in Ohio**

Location: AEM

Category: Contaminated Sediments: Treatment Technologies

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Hazardous Waste Report

Date Published: September 21, 1992

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 151

Title: **Fields Brook gets excavation, capping plan**

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Superfund Week

Date Published: November 29, 1996

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: C

ReferenceID: 152

Title: *Talks start for Fields Brook sediment fix*

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Superfund Week

Date Published: November 11, 1994

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 279

Title: *Millions in Fields Brook cleanup bids eyed*

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Superfund Week

Date Published: April 19, 1996

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 416

Title: *ESD Likely after Discovery of Radium at Fields Brook; Some
Limited Work Open*

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Superfund Week

Date Published: December 18, 1998

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: C

ReferenceID: 599

Title: ***Discovery of Concealed Contamination Threatens to Delay Ashtabula Cleanup***

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Superfund Week

Date Published: December 1, 2000

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 774

Title: ***Ohio: Revision Targets DNAPL***

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Hazardous Waste/Superfund Week

Date Published: September 10, 2001

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 1017

Title: ***Soil, Sediment Cleanup Could Go Out For Bid This Summer at Fields Brook***

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Superfund Week

Date Published: May 28, 1999

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: C

ReferenceID: 1018

Title: *'Thermal Desorption' Heat Technology To Be Tried on Ashtabula, Ohio, Soil*

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Hazardous Waste/Superfund Week

Date Published: May 14, 2001

**Key Words and
Phrases:**

Reference Type: E

ReferenceID: 18

Title: *Carcinogenic Human Health Risks Associated with Consuming Contaminated Fish from Five Great Lakes Areas of Concern*

Location: AEM

Category: Risk Assessment

Prepared by/Author: Judy L. Crane

**Preparer/Author
Address:** Minnesota Pollution Control Agency
Water Quality Division
520 Lafayette Road
St. Paul, MN 55155-4194.

Prepared For: Journal of Great Lakes Research 22 (3): 653-668

Date Published: 1996

**Key Words and
Phrases:**

Reference Type: I

ReferenceID: 103

Title: *Past Project Experience*

Location: AEM

Category: Site Update

Prepared by/Author: Severson Environmental Services, Inc.

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: 2001 circa

**Key Words and
Phrases:** silt curtains; turbidity control curtains

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: I

ReferenceID: 117

Title: ***Past Project Experience: Fields Brook Superfund Site***

Location: AEM

Category: Contractor and Vendor Information

Prepared by/Author: Severson Environmental Services, Inc.

**Preparer/Author
Address:**

Prepared For:

Date Published: 2003 circa

**Key Words and
Phrases:**

Reference Type: L

ReferenceID: 10

Title: ***Memo re: Fields Brook***

Location: AEM

Category: Site Update

Prepared by/Author: AEM, Inc.

**Preparer/Author
Address:** Malvern, PA 19355

Prepared For: Internal file

Date Published: August 5, 1997

**Key Words and
Phrases:**

Reference Type: L

ReferenceID: 31

Title: ***A Summary of Operable Unit-4 Record of Decisions for the
Fields Brook Site***

Location: AEM

Category: Site Update

Prepared by/Author: AEM, Inc.

**Preparer/Author
Address:** Malvern, PA 19355

Prepared For: Internal file

Date Published: August 8, 1997

**Key Words and
Phrases:**

REFERENCES

Project Name **FIELDS BROOK**

ProjectID: 05-04

Reference Type: L

ReferenceID: 212

Title: ***E-mail with Subject: Excavation Begins at Fields Brook Site:
Request for info***

Location: AEM

Category: Site Update

Prepared by/Author: AEM, Inc.

**Preparer/Author
Address:**

Prepared For: Internal Distribution

Date Published: September 14, 2000

**Key Words and
Phrases:**

Reference Type: L

ReferenceID: 213

Title: ***E-mail with Subject: Excavation Begins at Fields Brook Site:
Request for Info***

Location: AEM

Category: Site Update

Prepared by/Author: AEM, Inc.

**Preparer/Author
Address:**

Prepared For: Internal Distribution

Date Published: September 14, 2000

**Key Words and
Phrases:**

Reference Type: T

ReferenceID: 20

Title: ***Monthly Technical Status Reports and Weekly Meeting Minutes
April 1997 to July 2002***

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: US EPA Region V

Date Published: April 1997 to July 2002

**Key Words and
Phrases:**

FISH ADVISORIES

Project Name ***FIELDS BROOK***

ProjectID: 05-04

Advisory: Ashtabula River ***AdvisoryID:*** 715
Extent: 24th Street Bridge to Lake Erie
Pollutant: PCBs (total)
Species: carp-common
Population: RGP
Population Definition: Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.

Advisory Type: River ***Advisory Number:*** 786

Status (Active or Rescinded): Active ***Date Rescinded:***

Contact Name: Robert Johnson ***Contact Number:*** 614-644-6447

Advisory: Ashtabula River ***AdvisoryID:*** 716
Extent: 24th Street Bridge to Lake Erie
Pollutant: PCBs (total)
Species: catfish-channel
Population: RGP
Population Definition: Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.

Advisory Type: River ***Advisory Number:*** 786

Status (Active or Rescinded): Active ***Date Rescinded:***

Contact Name: Robert Johnson ***Contact Number:*** 614-644-6447

Advisory: Ashtabula River ***AdvisoryID:*** 171
Extent: 24th Street Bridge to Lake Erie
Pollutant: hexachlorobenzene
Species: all fish
Population: NCGP
Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River ***Advisory Number:*** 786

Status (Active or Rescinded): Rescinded ***Date Rescinded:***

Contact Name: Robert Johnson ***Contact Number:*** 614-644-6447

FISH ADVISORIES

Project Name ***FIELDS BROOK***

ProjectID: 05-04

Advisory: Ashtabula River

AdvisoryID: 172

Extent: 24th Street Bridge to Lake Erie

Pollutant: PCBs (total)

Species: all fish

Population: NCGP

Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River

Advisory Number: 786

Status (Active or Rescinded): Rescinded

Date Rescinded:

Contact Name: Robert Johnson

Contact Number: 614-644-6447

Advisory: Ashtabula River

AdvisoryID: 173

Extent: 24th Street Bridge to Lake Erie

Pollutant: pentachlorobenzene

Species: all fish

Population: NCGP

Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River

Advisory Number: 786

Status (Active or Rescinded): Rescinded

Date Rescinded:

Contact Name: Robert Johnson

Contact Number: 614-644-6447

Advisory: Ashtabula River

AdvisoryID: 174

Extent: 24th Street Bridge to Lake Erie

Pollutant: tetrachloroethane

Species: all fish

Population: NCGP

Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River

Advisory Number: 786

Status (Active or Rescinded): Rescinded

Date Rescinded:

Contact Name: Robert Johnson

Contact Number: 614-644-6447

FISH ADVISORIES

Project Name ***FIELDS BROOK***

ProjectID: 05-04

<i>Advisory:</i>	Ashtabula River	<i>AdvisoryID:</i> 529
<i>Extent:</i>	24th Street Bridge to Lake Erie	
<i>Pollutant:</i>	mercury	
<i>Species:</i>	bass-largemouth	
<i>Population:</i>	RSP	
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 786
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Robert Johnson	<i>Contact Number:</i> 614-644-6447
<hr/>		
<i>Advisory:</i>	Ashtabula River	<i>AdvisoryID:</i> 530
<i>Extent:</i>	24th Street Bridge to Lake Erie	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	bass-smallmouth	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 786
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Robert Johnson	<i>Contact Number:</i> 614-644-6447
<hr/>		
<i>Advisory:</i>	Ashtabula River	<i>AdvisoryID:</i> 531
<i>Extent:</i>	24th Street Bridge to Lake Erie	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	walleye	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 786
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Robert Johnson	<i>Contact Number:</i> 614-644-6447
