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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

**230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604**

REPLY TO THE ATTENTION OF:

Mr. Jim Hunsicker
Environmental Branch Manager
Naval Weapons Support Center Crane
Code 0924
Crane, IN 47522-5009

APR 30 1990

Re: Evaluation of CERCLA Preliminary Assessment

Dear Mr. Hunsicker:

This letter is to inform you that the United States Environmental Protection Agency's (EPA) Region V Office has reviewed the preliminary assessment (PA) report for your federal facility listed on the Federal Agency Hazardous Waste Compliance Docket. EPA has concluded that there is insufficient data to completely determine an appropriate course of action. Two items are enclosed regarding the required data submission. The first is a deficiency checklist identifying the specific areas where additional information is required for EPA to complete its evaluation. The second is draft guidance on conducting PAs under the Revised Hazard Ranking System (HRS). It includes 'Potential Hazardous Waste Site Preliminary Assessment, EPA Form 2070-12(7-81)' and 'Draft Information Sources for Preliminary Assessments/Site Inspections/HRS Scoring.'

It is requested that you review these enclosures and submit this information within 60 days of receipt of this letter. If you have any questions regarding this matter, please call Don Josif, Site Assessment Manager, at 312-886-0393.

Sincerely yours,

William D. Messenger
William Messenger, Chief
Pre-Remedial Unit

Enclosures

cc: Harry Atkinson, Chief
Site Investigation Section
Office of Solid and Hazardous Waste
Indiana Department of Environmental Management
Indianapolis, IN 46206-6015

bcc: Don Josif, Site Assessment Manager

APR 28 11:01

RECEIVED NSWC CRANE

ENCLOSURES

Additional information may be found under 02/03/88.

EPA ID # IN5170023498
 Federal Facility ID # IN-170023500
 Facility Name Naval Weapons Support Center Crane

 City Crane State: IN

INFORMATION IS
 PROVIDED? ACCEPTABLE?
 Y/N Y/N

1. OVERVIEW/SITE HISTORY

1A. Describe site operations (manufacturing, storage, waste disposal practices, etc.) Include the following:

1A1. History of site/years in operation

* 1A2. Topographic map of surrounding area

1A3. Site map or sketch

1A4. Regulatory history of site (i.e. RCRA site, CERCLA site, NPDES permits, etc.)

1B. Describe any emergency or remedial actions that have occurred at the site

1C. Describe any releases of wastes to groundwater, surface water, or air

* 1D. Give the following population information:

- 1D1. 0 - 1/4 mile from site
- 1D2. 1/4 - 1/2 mile from site
- 1D3. 1/2 - 1 miles from site
- 1D4. 1 - 2 miles from site
- 1D5. 2 - 3 miles from site
- 1D6. 3 - 4 miles from site

1E. Describe any prior spills that occurred at the site

1F. Describe site security (e.g., fences monitoring, patrols, gates, etc.)

2. WASTE/SOURCE INFORMATION

(see December 23, 1988, Federal Register, 52016-52017)

2A. Describe as specifically as possible the types of wastes produced at the site and the methods in which these wastes were treated, stored, or disposed

2B. Describe as specifically as possible the amount (volume, weight, etc.) of each waste type produced at the site

| INFORMATION IS PROVIDED? Y/N | ACCEPTABLE? Y/N |
|---------------------------------|--------------------|
| — | — |
| — | — |
| <u>N</u> | <u>N</u> |
| — | — |
| — | — |
| <u>N</u> | <u>N</u> |
| — | — |
| — | — |

PA DEFICIENCY CHECKLIST

| | | INFORMATION IS | |
|----|---|----------------|-------------|
| | | PROVIDED? | ACCEPTABLE? |
| | | <u>Y/N</u> | <u>Y/N</u> |
| | 2C. Describe each waste management unit (e.g., landfill) on-site | <u>—</u> | <u>—</u> |
| ? | 2D. Describe as specifically as possible the amount of waste treated, stored, or disposed in each waste management unit on-site (e.g., landfills, impoundments, tanks, etc.) | <u>N</u> | <u>N</u> |
| ? | 2E. Describe as specifically as possible the condition/integrity of each waste management unit (e.g., are landfills equipped with liners or caps) | <u>N</u> | <u>N</u> |
| | 2F. Describe any secondary containment features/structures associated with each waste management unit (e.g., precipitation run-on and run-off systems, leachate collection systems, gas collection systems) | <u>—</u> | <u>—</u> |
| ? | 2G. Describe the size/volume/capacity of each waste management unit | <u>N</u> | <u>N</u> |
| 3. | GROUNDWATER PATHWAY INFORMATION (see December 23, 1988, Federal Register, 52020-52037) | | |
| ⊗ | 3A. Determine if the groundwater within 4 miles of the site is used for any of the following purposes: | | |
| | 3A1. private or public drinking water source | <u>—</u> | <u>—</u> |
| | 3A2. commercial | <u>N</u> | <u>N</u> |
| | 3A3. Irrigation (5 acre minimum) | <u>N</u> | <u>N</u> |
| | 3A4. Industrial | <u>N</u> | <u>N</u> |
| | 3A5. not used, but usable | <u>N</u> | <u>N</u> |
| | 3A6. unusable | <u>N</u> | <u>N</u> |
| * | 3B. Identify the nearest well within 4 miles of the site that is a source of drinking water | <u>N</u> | <u>N</u> |
| * | 3C. Provide a map (or sketch) locating all drinking water wells within a 4-mile area of the site | <u>N</u> | <u>N</u> |
| † | 3D. Describe the population that drinks groundwater drawn from wells within 4 miles of the site | <u>N</u> | <u>N</u> |

PA DEFICIENCY CHECKLIST

| | | INFORMATION IS | |
|-----|---|----------------|-------------|
| | | PROVIDED? | ACCEPTABLE? |
| | | <u>Y/N</u> | <u>Y/N</u> |
| 3E. | Describe known or probable groundwater flow direction | — | — |
| 3F. | Describe, as precisely as possible, the geology and hydrogeology of the site area (including formation names, thickness, types of material and depth from surface, soils) | <u>Y</u> | <u>N</u> |
| 3G. | Discuss any evidence of aquitards between aquifers within 4 miles of the site | — | — |
| 3H. | Describe any evidence of interconnections between the uppermost aquifer and aquifers used for drinking water supply within 4 miles of the site | — | — |
| 3I. | Estimate annual net precipitation at the site | <u>N</u> | <u>N</u> |
| 3J. | Discuss soil or geologic conditions that might inhibit or facilitate groundwater migration | — | — |
| 3K. | Identify if any underlying aquifers are "sole source" as designated by Section 1424(e) of the Safe Drinking Water Act | — | — |
| 3L. | Determine if site is located in an area of Karst terrain | <u>N</u> | <u>N</u> |
| 4. | SURFACE WATER PATHWAY INFORMATION (see December 23, 1988, Federal Register, 52037-52062) | | |
| 4A. | Describe surface water bodies within 15 miles of the site or provide a map | <u>Y</u> | <u>N</u> |
| 4B. | Discuss the probable surface runoff pattern from the site to surface waters, including the distance to the nearest body of surface water, or provide a map | <u>Y</u> | <u>N</u> |
| 4C. | Describe the points at the site where hazardous substances begin to migrate and their probable point of entry into a surface water body | <u>Y</u> | <u>N</u> |
| 4D. | Identify if surface water drawn from intakes within 15 miles from the probable point of entry is used for any of the following purposes: | <u>Y</u> | <u>N</u> |

PA DEFICIENCY CHECKLIST

| | | INFORMATION IS | |
|------|---|----------------|-------------|
| | | PROVIDED? | ACCEPTABLE? |
| | | <u>Y/N</u> | <u>Y/N</u> |
| 4D1. | commercial livestock watering | <u>N</u> | <u>N</u> |
| 4D2. | commercial food preparation | <u>N</u> | <u>N</u> |
| 4D3. | commercial industrial purposes other than drinking water, recreation, or fishery uses | <u>N</u> | <u>N</u> |
| 4E. | Identify the nature and size of any of the following targets associated with surface water bodies within 15 miles downstream of the probable point of entry | — | — |
| 4E1. | population served by intakes of drinking water | <u>Y</u> | <u>N</u> |
| 4E2. | population associated with recreational use | <u>N</u> | <u>N</u> |
| 4E3. | sensitive environments (including wetlands [5 acre minimum] and critical habitats of a federally endangered species) | <u>N</u> | <u>N</u> |
| 4E4. | economically important resources (e.g., shellfish) | <u>N</u> | <u>N</u> |
| 4F. | Discuss any qualitative, quantitative, or circumstantial evidence of contamination of surface waters caused by management hazardous substances on-site | <u>N</u> | <u>N</u> |
| 4G. | Estimate the size of the upgradient drainage area from the site | <u>N</u> | <u>N</u> |
| 4H. | Determine the 2-year, 24-hour rainfall for the site | — | — |
| 4I. | Discuss the average annual stream-flow associated with surface water within 15 miles of the site | <u>N</u> | <u>N</u> |
| 4J. | Discuss if fisheries (recreational or commercial) exist in surface water bodies within 15 miles of the site | — | — |
| 4J1. | describe production rate of fisheries | <u>N</u> | <u>N</u> |
| 5. | AIR PATHWAY INFORMATION (see December 23, 1988, Federal Register, 52005-52022) | | |
| 5A. | Describe if there has been an observed release of a hazardous substance to the atmosphere | <u>N</u> | <u>N</u> |
| 5B. | Determine the shortest distance to the closest residence or regularly occupied building or area from any on-site air emission source | <u>N</u> | <u>N</u> |

PA DEFICIENCY CHECKLIST

| | | INFORMATION IS | |
|-----|--|----------------|-------------|
| | | PROVIDED? | ACCEPTABLE? |
| | | <u>Y/N</u> | <u>Y/N</u> |
| 5C. | Describe the following types of land use near the site, and indicate their distance from any on-site emission source: | | |
| | 5C1. commercial/industrial/institutional | <u>N</u> | <u>N</u> |
| | 5C2. single family residential | <u>N</u> | <u>N</u> |
| | 5C3. multi-family residential | <u>N</u> | <u>N</u> |
| | 5C4. parks | <u>N</u> | <u>N</u> |
| | 5C5. prime agricultural | <u> </u> | <u> </u> |
| | 5C6. non-prime agricultural | <u> </u> | <u> </u> |
| 5D. | Determine if sensitive environments are within 4 miles of an on-site emission source | <u>N</u> | <u>N</u> |
| 6. | ON SITE INFORMATION (see December 23, 1988, Federal Register, 52062-52070) | | |
| 6A. | Describe any areas of contamination that are within 2 feet of ground surface | <u>N</u> | <u>N</u> |
| 6B. | Provide the number of children under seven years old living, attending school or daycare where contamination is less than 2 feet of ground surface | <u>N</u> | <u>N</u> |
| 6C. | Describe the measures taken to limit access to areas with contamination (e.g., fences, guards, etc.): | <u>N</u> | <u>N</u> |



Preliminary Assessment



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. SITE NAME AND LOCATION

| | | | | | |
|---|----------|---|-----------|----------------|--------------|
| 01 SITE NAME (Legal, common, or descriptive name of site) | | 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER | | | |
| 03 CITY | 04 STATE | 05 ZIP CODE | 06 COUNTY | 07 COUNTY CODE | 08 CONG DIST |
| 09 COORDINATES LATITUDE | | LONGITUDE | | | |
| 10 DIRECTIONS TO SITE (Starting from nearest public road) | | | | | |

III. RESPONSIBLE PARTIES

| | | | | | |
|---|----------|--|----------------------------|--|--|
| 01 OWNER (if known) | | 02 STREET (Business, mailing, residential) | | | |
| 03 CITY | 04 STATE | 05 ZIP CODE | 06 TELEPHONE NUMBER () | | |
| 07 OPERATOR (if known and different from owner) | | 08 STREET (Business, mailing, residential) | | | |
| 09 CITY | 10 STATE | 11 ZIP CODE | 12 TELEPHONE NUMBER () | | |
| 13 TYPE OF OWNERSHIP (Check one) | | | | | |
| <input type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL | | | | | |
| <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN | | | | | |

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

A. RCRA 3001 DATE RECEIVED: _____ MONTH DAY YEAR B. UNCONTROLLED WASTE SITE (CERCLA 103 ci) DATE RECEIVED: _____ MONTH DAY YEAR C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

| | | | | | |
|---|--|---|--|--|--|
| 01 ON SITE INSPECTION | | BY (Check all that apply) | | | |
| <input type="checkbox"/> YES DATE _____ MONTH DAY YEAR | | <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR | | | |
| <input type="checkbox"/> NO | | <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) | | | |
| CONTRACTOR NAME(S): _____ | | | | | |
| 02 SITE STATUS (Check one) | | 03 YEARS OF OPERATION | | | |
| <input type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN | | BEGINNING YEAR _____ ENDING YEAR _____ <input type="checkbox"/> UNKNOWN | | | |
| 04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED | | | | | |
| 05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION | | | | | |

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

A. HIGH (Inspection required promptly) B. MEDIUM (Inspection required) C. LOW (Inspect on time available basis) D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

| | | | | |
|--------------------------------------|-----------------------------|-----------------|----------------------------|--|
| 01 CONTACT | 02 OF (Agency/Organization) | | 03 TELEPHONE NUMBER () | |
| 04 PERSON RESPONSIBLE FOR ASSESSMENT | 05 AGENCY | 06 ORGANIZATION | 07 TELEPHONE NUMBER () | 08 DATE _____/_____/_____ MONTH DAY YEAR |



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) | POTENTIAL | ALLEGED
04 NARRATIVE DESCRIPTION

01 B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) | POTENTIAL | ALLEGED
04 NARRATIVE DESCRIPTION

01 C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) | POTENTIAL | ALLEGED
04 NARRATIVE DESCRIPTION

01 D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) | POTENTIAL | ALLEGED
04 NARRATIVE DESCRIPTION

01 E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) | POTENTIAL | ALLEGED
04 NARRATIVE DESCRIPTION

01 F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____
Acres
02 OBSERVED (DATE: _____) | POTENTIAL | ALLEGED
04 NARRATIVE DESCRIPTION

01 G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) | POTENTIAL | ALLEGED
04 NARRATIVE DESCRIPTION

01 H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) | POTENTIAL | ALLEGED
04 NARRATIVE DESCRIPTION

01 I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 OBSERVED (DATE: _____) | POTENTIAL | ALLEGED
04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

| I. IDENTIFICATION | |
|-------------------|----------------|
| 01 STATE | 02 SITE NUMBER |

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION *(Include names) of species*

02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 M. UNSTABLE CONTAINMENT OF WASTES
Spills/runoff/standing liquids/leaking drums
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

01 P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE: _____) POTENTIAL ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis reports)*

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

General Information

The Potential Hazardous Waste Site, Preliminary Assessment form is used to record information necessary to make an initial evaluation of the potential risk posed by a site and to recommend further action.

The Preliminary Assessment form contains three parts:

Part 1 – Site Information and Assessment

Part 2 – Waste Information

Part 3 – Description of Hazardous Conditions and Incidents

Part 1 – Site Information and Assessment contains all of the data elements also contained on the Site Identification form required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Preliminary Assessment stage. Instructions are given below.

Part 2 – Waste Information and Part 3 – Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hazards, and targets, e.g., population potentially affected, that are used in determining the priority for further action. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Site Inspection Report form where they may be used to update, add, delete, or correct information supplied on the Preliminary Assessment.

An Appendix with feedstock names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is located behind the instructions for the Preliminary Assessment.

General Instructions

1. Complete the Preliminary Assessment form as completely as possible.

2. Starred items (*) are required before assessment information can be added to STS. The system will not accept incomplete assessment information.

3. To add a site to STS at the Preliminary Assessment stage, write "New" across the top of the form and complete items II-01, 02, 03, 04, and 06, Site Name and Location, and item III-13, Type of Ownership.

4. Data items carried in STS, which are identical to those on the Site Identification form and which can be added, deleted, or changed using the Preliminary Assessment form, are indicated with a pound sign (#). To ensure that the proper action is taken, outline the item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" (delete), or "C" (change).

5. There are two options available for adding, deleting, or changing information supplied on the Preliminary Assessment form. The first is to use a new Preliminary Assessment form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "D", or "C", to indicate the action to be taken. If only data carried in STS are to be altered, the Site Source Data Report may be used. Using the report, mark clearly the items to be changed and the action to be taken.

Detailed Instructions

Part 1 Site Information and Assessment

I. Identification: Identification (State and Site Number) is the site record key, or primary identifier, for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.

*I-01 State: Enter the two character alpha FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.

*I-02 Site Number: Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification form.

II. Site Name and Location: If Site Name and Location information require no additions or changes, these items are not required on the Preliminary Assessment form. However, completing these items will facilitate use of the completed form and records management procedures.

#II-01 Site Name: Enter the legal, common, or descriptive name of the site.

#II-02 Site Street: Enter the street address and number (if appropriate) where the site is located. If the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW intersection I-295 & US 99; Post Rd, 5 mi W of Rt. 5.

#II-03 Site City: Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.

#II-04 Site State: Enter the two character alpha FIPS code for the state in which the site is located. The code must be the same as in item I-01.

#II-05 Site Zip Code: Enter the five character numeric zip code for the postal zone in which the site is located.

#II-06 Site County: Enter the name of the county, parish (Louisiana), or borough (Alaska) in which the site is located.

#II-07 County Code: Enter the three character numeric FIPS county code for the county, parish, or borough in which the site is located. (The regional data analyst will furnish this data item.)

#II-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.

II-09 Coordinates: Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0".

II-10 Directions to Site: Starting from the nearest public road, provide narrative directions to the site.

PRELIMINARY ASSESSMENT

III. Responsible Parties

- #III-01 Site Owner: Enter the name of the owner of the site. The site owner is the person, company, or federal, state, municipal or other public or private entity, who currently holds title to the property on which the site is located.
- #III-02 Site Owner Address: Enter the current complete business, residential, or mailing address at which the owner of the site can be reached.
- 03
- 04
- 05
- III-06 Site Owner Telephone Number: Enter the area code and local telephone number at which the owner of the site can be reached.
- #III-07 Site Operator: If different from Site Owner, enter the name of the operator at the site. The site operator is the person, company, or federal, state, municipal or other public or private entity, who currently, or most recently, is, or was, responsible for operations at the site.
- #III-08 Site Operator Address: Enter the current complete business, residential, or mailing address at which the operator of the site can be reached.
- 09
- 10
- 11
- III-12 Site Operator Telephone Number: Enter the area code and local telephone number at which the operator of the site can be reached.
- #III-13 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the site is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.
- III-14 Owner/Operator Notification On File: Check the appropriate box(es) to indicate that the notification required by RCRA (3001) and/or CERCLA (103c, Superfund) have been received. If received, enter the date(s) received. Check none if not received.

IV Characterization of Potential Hazard

- IV-01 On Site Inspection: Check the appropriate box to indicate that the site has been inspected or visited by EPA, a state or local official, or a contractor representative of EPA or a state or local government. Enter the date of the inspection. Check the appropriate box(es) to indicate who visited the site or performed the inspection. If the site visit was performed by a contractor, enter the name of the company.
- *IV-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inactive storage or disposal area. Inactive sites are those at which treatment, storage, or disposal activities no longer occur.
- IV-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1878/1932, of waste treatment, storage, and/or disposal activities at the site. Check Unknown if the years of operation are not known.
- IV-04 Description of Substances Possibly Present, Known, or Alleged: Provide a narrative description of

hazardous, potentially hazardous, or other substances present, or claimed to be present, at the site.

- IV-05 Description of Potential Hazard to Environment and/or Population: Provide a narrative description of the potential hazard the site poses to the environment and to exposed population or wildlife. If no hazard, or potential hazard, exists, provide the basis for that determination.

V. Priority Assessment

- *V-01 Priority for Inspection: Check the appropriate box to indicate the priority for further action or inspection. If no further action is required, complete the Potential Hazardous Waste Site, Current Disposition form. The Priority for Inspection assessed must be supported by appropriate data in Part 2 – Waste Information and Part 3 – Description of Hazardous Conditions and Incidents of this form. If no hazardous conditions exist, Part 3 is not required.

VI. Information Available From

- VI-01 Contact: Enter the name of the individual who can provide information about the site.
- VI-02 Of: If appropriate, enter the name of the Public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- VI-03 Telephone Number: Enter the area code and local telephone number of the individual named as contact.
- VI-04 Person Responsible for Assessment: Enter the name of the individual who made the site assessment and assigned the priority rating to the site. The person responsible for the assessment may be different from the individual who prepared the form.
- VI-05 Agency: Enter the name of the Agency where the individual who made the assessment is employed.
- VI-06 Organization: Enter the name of the organization within the Agency.
- VI-07 Telephone Number: Enter the area code and local telephone number of the individual who made the assessment.
- VI-08 Date: Enter the date the assessment was made.

Part 2 Waste Information

- *I. Identification: Refer to Part 1–1.
- II. Waste States, Quantities, and Characteristics: Waste States, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hazards posed by the waste, considering acute and chronic health effects and mobility along a pathway.
- *II-01 Physical States: Check the appropriate box(es) to indicate the state(s) of waste present, or thought to be present, at the site. If Other is indicated, specify the physical state of the waste.
- *II-02 Waste Quantity at Site: Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For

- example, do not measure the same amounts of waste as both tons and cubic yards.
- *II-03 **Waste Characteristics:** Check all appropriate entries to indicate the hazards posed by waste at the site. If waste at the site poses no hazard, check Not Applicable.
- III. **Waste Category:** General categories of waste typically found are listed here. Enter the estimated gross amount of the category of waste next to the appropriate substance name and enter the unit of measure used with the estimate.
- *III-01 **Gross Amount:** Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tons (MT), tons (TN), cubic meters (CM), cubic yards (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.
- *III-02 **Unit of Measure:** Enter the appropriate unit of measure: MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (number of drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons), next to the estimate of gross amount.
- III-03 **Comments:** Comments may be used to further explain, or provide additional information, about particular waste categories.
- IV. **Hazardous Substances:** Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. This information may not be available at the Preliminary Assessment stage. Substances for which information is available are to be listed here. For each substance listed those data items marked with an "at" sign (@) must be included.
- @IV-01 **Category:** Enter in front of the substance name the three character waste category from Section III which best describes the substance, e.g., OLW (Oily Waste).
- @IV-02 **Substance Name:** Enter one of the following: the name of the substance registered with the Chemical Abstract Service, the common or accepted abbreviation of the substance, the generic name of the substance, or commercial name of the substance.
- @IV-03 **CAS Number:** Enter the number assigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers. CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "999".
- @IV-04 **Storage/Disposal Method:** Enter the type of storage or disposal facility in which the substance was found: SI (surface impoundment, including pits, ponds, and lagoons), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landfarm), OD (open dump).
- IV-05 **Concentration:** Enter the concentration of the substance found in samples taken at the site.
- IV-06 **Measure of Concentration:** Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG/L, UG/L.

- V. **Feedstocks**
- V-01 **Feedstock Name:** If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.
- V-02 **CAS Number:** Enter the CAS Number for each feedstock named. See the Appendix for feedstock CAS Numbers.
- VI. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 3 **Description of Hazardous Conditions and Incidents**
- *I. **Identification:** Refer to Part 1-1.
- II. **Hazardous Conditions and Incidents:**
- II-01 **Hazards:** Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.
- II-02 **Observed, Potential, or Alleged:** Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater contamination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the site.
- II-03 **Population Potentially Affected:** For each hazardous condition at the site, enter the number of people potentially affected. For Soil enter the number of acres potentially affected.
- II-04 **Narrative Description:** Provide a narrative description, or explanation, of each condition. Include any additional information which further explains the condition.
- II-05 **Description of Any Other Known, Potential, or Alleged Hazards:** Provide a narrative description of any other hazardous, or potentially hazardous, conditions at the site not covered above.
- III. **Total Population Potentially Affected:** Enter the total number of people potentially affected by the existence of hazardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.
- IV. **Comments:** Other information relevant to observed, potential, or alleged hazards may be entered here.
- V. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

APPENDIX

FEEDSTOCKS

| CAS Number | Chemical Name | CAS Number | Chemical Name | CAS Number | Chemical Name |
|----------------|-------------------|---------------|-------------------|----------------|----------------------|
| 1. 7664-41-7 | Ammonia | 14. 1317-38-0 | Cupric Oxide | 27. 7778-50-9 | Potassium Dichromate |
| 2. 7440-36-0 | Antimony | 15. 7758-98-7 | Cupric Sulfate | 28. 1310-58-3 | Potassium Hydroxide |
| 3. 1309-64-4 | Antimony Trioxide | 16. 1317-39-1 | Cuprous Oxide | 29. 115-07-1 | Propylene |
| 4. 7440-38-2 | Arsenic | 17. 74-85-1 | Ethylene | 30. 10588-01-9 | Sodium Dichromate |
| 5. 1327-53-3 | Arsenic Trioxide | 18. 7647-01-0 | Hydrochloric Acid | 31. 1310-73-2 | Sodium Hydroxide |
| 6. 21109-95-5 | Barium Sulfide | 19. 7664-39-3 | Hydrogen Fluoride | 32. 7646-78-8 | Stannic Chloride |
| 7. 7726-95-6 | Bromine | 20. 1335-25-7 | Lead Oxide | 33. 7772-99-8 | Stannous Chloride |
| 8. 106-99-0 | Butadiene | 21. 7439-97-6 | Mercury | 34. 7664-93-9 | Sulfuric Acid |
| 9. 7440-43-9 | Cadmium | 22. 74-82-8 | Methane | 35. 108-88-3 | Toluene |
| 10. 7782-50-5 | Chlorine | 23. 91-20-3 | Napthalene | 36. 1330-20-7 | Xylene |
| 11. 12737-27-8 | Chromite | 24. 7440-02-0 | Nickel | 37. 7646-85-7 | Zinc Chloride |
| 12. 7440-47-3 | Chromium | 25. 7697-37-2 | Nitric Acid | 38. 7733-02-0 | Zinc Sulfate |
| 13. 7440-48-4 | Cobalt | 26. 7723-14-0 | Phosphorus | | |

II. HAZARDOUS SUBSTANCES

| CAS Number | Chemical Name | CAS Number | Chemical Name | CAS Number | Chemical Name |
|----------------|---------------------------|----------------|----------------------------------|------------------|---|
| 1. 75-07-0 | Acetaldehyde | 47. 1303-33-9 | Arsenic Trisulfide | 92. 142-71-2 | Cupric Acetate |
| 2. 64-19-7 | Acetic Acid | 48. 542-62-1 | Barium Cyanide | 93. 12002-03-8 | Cupric Acetoarsenite |
| 3. 108-24-7 | Acetic Anhydride | 49. 71-43-2 | Benzene | 94. 7447-39-4 | Cupric Chloride |
| 4. 75-86-5 | Acetone Cyanohydrin | 50. 65-85-0 | Benzoic Acid | 95. 3251-23-8 | Cupric Nitrate |
| 5. 506-96-7 | Acetyl Bromide | 51. 100-47-0 | Benzonitrile | 96. 5893-66-3 | Cupric Oxalate |
| 6. 75-36-5 | Acetyl Chloride | 52. 98-88-4 | Benzoyl Chloride | 97. 7758-98-7 | Cupric Sulfate |
| 7. 107-02-8 | Acrolein | 53. 100-44-7 | Benzyl Chloride | 98. 10380-29-7 | Cupric Sulfate Ammoniated |
| 8. 107-13-1 | Acrylonitrile | 54. 7440-41-7 | Beryllium | 99. 815-82-7 | Cupric Tartrate |
| 9. 124-04-9 | Adipic Acid | 55. 7787-47-5 | Beryllium Chloride | 100. 506-77-4 | Cyanogen Chloride |
| 10. 309-00-2 | Aldrin | 56. 7787-49-7 | Beryllium Fluoride | 101. 110-82-7 | Cyclohexane |
| 11. 10043-01-3 | Aluminum Sulfate | 57. 13597-99-4 | Beryllium Nitrate | 102. 94-75-7 | 2,4-D Acid |
| 12. 107-18-6 | Allyl Alcohol | 58. 123-86-4 | Butyl Acetate | 103. 94-11-1 | 2,4-D Esters |
| 13. 107-05-1 | Allyl Chloride | 59. 84-74-2 | n-Butyl Phthalate | 104. 50-29-3 | DDT |
| 14. 7664-41-7 | Ammonia | 60. 109-73-9 | Butylamine | 105. 333-41-5 | Diazinon |
| 15. 631-61-8 | Ammonium Acetate | 61. 107-92-6 | Butyric Acid | 106. 1918-00-9 | Dicamba |
| 16. 1863-63-4 | Ammonium Benzoate | 62. 543-90-8 | Cadmium Acetate | 107. 1194-65-6 | Dichlobenil |
| 17. 1066-33-7 | Ammonium Bicarbonate | 63. 7789-42-6 | Cadmium Bromide | 108. 117-80-6 | Dichlone |
| 18. 7789-09-5 | Ammonium Bichromate | 64. 10108-64-2 | Cadmium Chloride | 109. 25321-22-6 | Dichlorobenzene (all isomers) |
| 19. 1341-49-7 | Ammonium Bifluoride | 65. 7778-44-1 | Calcium Arsenate | 110. 266-38-19-7 | Dichloropropane (all isomers) |
| 20. 10192-30-0 | Ammonium Bisulfite | 66. 52740-16-6 | Calcium Arsenite | 111. 26952-23-8 | Dichloropropene (all isomers) |
| 21. 1111-78-0 | Ammonium Carbamate | 67. 75-20-7 | Calcium Carbide | 112. 8003-19-8 | Dichloropropene-Dichloropropane Mixture |
| 22. 12125-02-9 | Ammonium Chloride | 68. 13765-19-0 | Calcium Chromate | 113. 75-99-0 | 2,2-Dichloropropionic Acid |
| 23. 7788-98-9 | Ammonium Chromate | 69. 592-01-8 | Calcium Cyanide | 114. 62-73-7 | Dichlorvos |
| 24. 3012-65-5 | Ammonium Citrate, Dibasic | 70. 26264-06-2 | Calcium Dodecylbenzene Sulfonate | 115. 60-57-1 | Dieldrin |
| 25. 13826-83-0 | Ammonium Fluoborate | 71. 7778-54-3 | Calcium Hypochlorite | 116. 109-89-7 | Diethylamine |
| 26. 12125-01-8 | Ammonium Fluoride | 72. 133-06-2 | Captan | 117. 124-40-3 | Dimethylamine |
| 27. 1336-21-6 | Ammonium Hydroxide | 73. 63-25-2 | Carbaryl | 118. 25154-54-5 | Dinitrobenzene (all isomers) |
| 28. 6009-70-7 | Ammonium Oxalate | 74. 1563-66-2 | Carbofuran | 119. 51-28-5 | Dinitrophenol |
| 29. 16919-19-0 | Ammonium Silicofluoride | 75. 75-15-0 | Carbon Disulfide | 120. 25321-14-6 | Dinitrotoluene (all isomers) |
| 30. 7773-06-0 | Ammonium Sulfamate | 76. 56-23-5 | Carbon Tetrachloride | 121. 85-00-7 | Diquat |
| 31. 12135-76-1 | Ammonium Sulfide | 77. 57-74-9 | Chlordane | 122. 298-04-4 | Disulfoton |
| 32. 10198-04-0 | Ammonium Sulfite | 78. 7782-50-5 | Chlorine | 123. 330-54-1 | Diuron |
| 33. 14307-43-8 | Ammonium Tartrate | 79. 108-90-7 | Chlorobenzene | 124. 27176-87-0 | Dodecylbenzenesulfonic Acid |
| 34. 1762-95-4 | Ammonium Thiocyanate | 80. 67-66-3 | Chloroform | 125. 115-29-7 | Endosulfan (all isomers) |
| 35. 7783-18-8 | Ammonium Thiosulfate | 81. 7790-94-5 | Chlorosulfonic Acid | 126. 72-20-8 | Endrin and Metabolites |
| 36. 628-63-7 | Amyl Acetate | 82. 2921-88-2 | Chlorpyrifos | 127. 106-89-8 | Epichlorohydrin |
| 37. 62-53-3 | Aniline | 83. 1066-30-4 | Chromic Acetate | 128. 563-12-2 | Ethion |
| 38. 7647-18-9 | Antimony Pentachloride | 84. 7738-94-5 | Chromic Acid | 129. 100-41-4 | Ethyl Benzene |
| 39. 7789-61-9 | Antimony Tribromide | 85. 10101-53-8 | Chromic Sulfate | 130. 107-15-3 | Ethylenediamine |
| 40. 10025-91-9 | Antimony Trichloride | 86. 10049-05-5 | Chromous Chloride | 131. 106-93-4 | Ethylene Dibromide |
| 41. 7783-56-4 | Antimony Trifluoride | 87. 544-18-3 | Cobaltous Formate | 132. 107-06-2 | Ethylene Dichloride |
| 42. 1309-64-4 | Antimony Trioxide | 88. 14017-41-5 | Cobaltous Sulfamate | 133. 60-00-4 | EDTA |
| 43. 1303-32-8 | Arsenic Disulfide | 89. 56-72-4 | Coumaphos | 134. 1185-57-5 | Ferric Ammonium Citrate |
| 44. 1303-28-2 | Arsenic Pentoxide | 90. 1319-77-3 | Cresol | 135. 2944-67-4 | Ferric Ammonium Oxalate |
| 45. 7784-34-1 | Arsenic Trichloride | 91. 4170-30-3 | Crotonaldehyde | 136. 7705-08-0 | Ferric Chloride |
| 46. 1327-53-3 | Arsenic Trioxide | | | | |

II. HAZARDOUS SUBSTANCES

| CAS Number | Chemical Name | CAS Number | Chemical Name | CAS Number | Chemical Name |
|-----------------|---|-----------------|------------------------------------|-----------------|--|
| 137. 7783-50-8 | Ferric Fluoride | 192. 74-89-5 | Monomethylamine | 249. 7632-00-0 | Sodium Nitrate |
| 138. 10421-48-4 | Ferric Nitrate | 193. 300-76-5 | Naled | 250. 7558-79-4 | Sodium Phosphate, Dibasic |
| 139. 10028-22-5 | Ferric Sulfate | 194. 91-20-3 | Naphthalene | 251. 7601-54-9 | Sodium Phosphate, Tribasic |
| 140. 10045-89-3 | Ferrous Ammonium Sulfate | 195. 1338-24-5 | Naphthenic Acid | 252. 10102-18-8 | Sodium Selenite |
| 141. 7758-94-3 | Ferrous Chloride | 196. 7440-02-0 | Nickel | 253. 7789-06-2 | Strontium Chromate |
| 142. 7720-78-7 | Ferrous Sulfate | 197. 15699-18-0 | Nickel Ammonium Sulfate | 254. 57-24-9 | Strychnine and Salts |
| 143. 206-44-0 | Fluoranthene | 198. 37211-05-5 | Nickel Chloride | 255. 100-420-5 | Styrene |
| 144. 50-00-0 | Formaldehyde | 199. 12054-48-7 | Nickel Hydroxide | 256. 12771-08-3 | Sulfur Monochloride |
| 145. 64-18-6 | Formic Acid | 200. 14216-75-2 | Nickel Nitrate | 257. 7664-93-9 | Sulfuric Acid |
| 146. 110-17-8 | Fumaric Acid | 201. 7786-81-4 | Nickel Sulfate | 258. 93-76-5 | 2,4,5-T Acid |
| 147. 98-01-1 | Furfural | 202. 7697-37-2 | Nitric Acid | 259. 2008-46-0 | 2,4,5-T Amines |
| 148. 86-50-0 | Guthion | 203. 98-95-3 | Nitrobenzene | 260. 93-79-8 | 2,4,5-T Esters |
| 149. 76-44-8 | Heptachlor | 204. 10102-44-0 | Nitrogen Dioxide | 261. 13560-99-1 | 2,4,5-T Salts |
| 150. 118-74-1 | Hexachlorobenzene | 205. 25154-55-6 | Nitrophenol (all isomers) | 262. 93-72-1 | 2,4,5-TP Acid |
| 151. 87-68-3 | Hexachlorobutadiene | 206. 1321-12-6 | Nitrotoluene | 263. 32534-95-5 | 2,4,5-TP Acid Esters |
| 152. 67-72-1 | Hexachloroethane | 207. 30525-89-4 | Paraformaldehyde | 264. 72-54-8 | TDE |
| 153. 70-30-4 | Hexachlorophene | 208. 56-38-2 | Parathion | 265. 95-94-3 | Tetrachlorobenzene |
| 154. 77-47-4 | Hexachlorocyclopentadiene | 209. 608-93-5 | Pentachlorobenzene | 266. 127-18-4 | Tetrachloroethane |
| 155. 7647-01-0 | Hydrochloric Acid (Hydrogen Chloride) | 210. 87-86-5 | Pentachlorophenol | 267. 78-00-2 | Tetraethyl Lead |
| 156. 7664-39-3 | Hydrofluoric Acid (Hydrogen Fluoride) | 211. 85-01-8 | Phenanthrene | 268. 107-49-3 | Tetraethyl Pyrophosphate |
| 157. 74-90-8 | Hydrogen Cyanide | 212. 108-95-2 | Phenol | 269. 7446-18-6 | Thallium (I) Sulfate |
| 158. 7783-06-4 | Hydrogen Sulfide | 213. 75-44-5 | Phosgene | 270. 108-88-3 | Toluene |
| 159. 78-79-5 | Isoprene | 214. 7664-38-2 | Phosphoric Acid | 271. 8001-35-2 | Toxaphene |
| 160. 42504-46-1 | Isopropanolamine Dodecylbenzenesulfonate | 215. 7723-14-0 | Phosphorus | 272. 12002-48-1 | Trichlorobenzene (all isomers) |
| 161. 115-32-2 | Keithane | 216. 10025-87-3 | Phosphorus Oxichloride | 273. 52-68-6 | Trichlorfon |
| 162. 143-50-0 | Kepon | 217. 1314-80-3 | Phosphorus Pentasulfide | 274. 25323-89-1 | Trichloroethane (all isomers) |
| 163. 301-04-2 | Lead Acetate | 218. 7719-12-2 | Phosphorus Trichloride | 275. 79-01-6 | Trichloroethylene |
| 164. 3687-31-8 | Lead Arsenate | 219. 7784-41-0 | Potassium Arsenate | 276. 25167-82-2 | Trichlorophenol (all isomers) |
| 165. 7758-95-4 | Lead Chloride | 220. 10124-50-2 | Potassium Arsenite | 277. 27323-41-7 | Triethanolamine Dodecylbenzenesulfonate |
| 166. 13814-96-5 | Lead Fluoborate | 221. 7778-50-9 | Potassium Bichromate | 278. 121-44-8 | Triethylamine |
| 167. 7783-46-2 | Lead Fluoride | 222. 7789-00-6 | Potassium Chromate | 279. 75-50-3 | Trimethylamine |
| 168. 10101-63-0 | Lead Iodide | 223. 7722-64-7 | Potassium Permanganate | 280. 541-09-3 | Uranyl Acetate |
| 169. 18256-98-9 | Lead Nitrate | 224. 2312-35-8 | Propargite | 281. 10102-06-4 | Uranyl Nitrate |
| 170. 7428-48-0 | Lead Stearate | 225. 79-09-4 | Propionic Acid | 282. 1314-62-1 | Vanadium Pentoxide |
| 171. 15739-80-7 | Lead Sulfate | 226. 123-62-6 | Propionic Anhydride | 283. 27774-13-6 | Vanadyl Sulfate |
| 172. 1314-87-0 | Lead Sulfide | 227. 1336-36-3 | Polychlorinated Biphenyls | 284. 108-05-4 | Vinyl Acetate |
| 173. 592-87-0 | Lead Thiocyanate | 228. 151-50-8 | Potassium Cyanide | 285. 75-35-4 | Vinylidene Chloride |
| 174. 58-89-9 | Lindane | 229. 1310-58-3 | Potassium Hydroxide | 286. 1300-71-6 | Xylenol |
| 175. 14307-35-8 | Lithium Chromate | 230. 75-56-9 | Propylene Oxide | 287. 557-34-6 | Zinc Acetate |
| 176. 121-75-5 | Malthion | 231. 121-29-9 | Pyrethrins | 288. 52628-25-8 | Zinc Ammonium Chloride |
| 177. 110-16-7 | Maleic Acid | 232. 91-22-5 | Quinoline | 289. 1332-07-6 | Zinc Borate |
| 178. 108-31-6 | Maleic Anhydride | 233. 108-46-3 | Resorcinol | 290. 7699-45-8 | Zinc Bromide |
| 179. 2032-65-7 | Mercaptodimethur | 234. 7446-08-4 | Selenium Oxide | 291. 3486-35-9 | Zinc Carbonate |
| 180. 592-04-1 | Mercuric Cyanide | 235. 7761-88-8 | Silver Nitrate | 292. 7646-85-7 | Zinc Chloride |
| 181. 10045-94-0 | Mercuric Nitrate | 236. 7631-89-2 | Sodium Arsenate | 293. 557-21-1 | Zinc Cyanide |
| 182. 7783-35-9 | Mercuric Sulfate | 237. 7784-46-5 | Sodium Arsenite | 294. 7783-49-3 | Zinc Fluoride |
| 183. 592-85-8 | Mercuric Thiocyanate | 238. 10588-01-9 | Sodium Bichromate | 295. 557-41-5 | Zinc Formate |
| 184. 10415-75-5 | Mercurous Nitrate | 239. 1333-83-1 | Sodium Bifluoride | 296. 7779-86-4 | Zinc Hydrosulfite |
| 185. 72-43-5 | Methoxychlor | 240. 7631-90-5 | Sodium Bisulfite | 297. 7779-88-6 | Zinc Nitrate |
| 186. 74-93-1 | Methyl Mercaptan | 241. 7775-11-3 | Sodium Chromate | 298. 127-82-2 | Zinc Phenolsulfonate |
| 187. 80-62-6 | Methyl Methacrylate | 242. 143-33-9 | Sodium Cyanide | 299. 1314-84-7 | Zinc Phosphide |
| 188. 298-00-0 | Methyl Parathion | 243. 25155-30-0 | Sodium Dodecylbenzene Sulfonate | 300. 16871-71-9 | Zinc Silicofluoride |
| 189. 7786-34-7 | Mevinphos | 244. 7681-49-4 | Sodium Fluoride | 301. 7733-02-0 | Zinc Sulfate |
| 190. 315-18-4 | Mexacarbate | 245. 16721-80-5 | Sodium Hydroxide | 302. 13746-89-9 | Zirconium Nitrate |
| 191. 75-04-7 | Monoethylamine | 246. 1310-73-2 | Sodium Hydroxide | 303. 16923-95-8 | Zirconium Potassium Fluoride |
| | | 247. 7681-52-9 | Sodium Hypochlorite | 304. 14644-61-2 | Zirconium Sulfate |
| | | 248. 124-41-4 | Sodium Methylate | 305. 10026-11-6 | Zirconium Tetrachloride |

INSTRUCTIONS FOR THE PA DATA COLLECTION FORM

This PA Data Collection Form has been developed to focus PA data collection activities on those items needed to develop a PreScore under the proposed revised HRS. The form was designed to match the PreScore program (as well as the PA PreScore Scoresheets) and to facilitate data entry. An attempt was made to design a form with descriptive, close-ended questions so that the PA Investigator would not need to refer to the proposed rule on the revised HRS on a routine basis.

Within the time constraints of the PA budget, data should be collected for those items identified in bold, italicized type first. These items are factors that have a significant influence on the overall HRS score. With any remaining time, data should then be collected for the remaining items on the PA form. Keep in mind that "hard" data (i.e., site-specific, fully documented data) will not be readily available for many items listed on the form. In this situation, application of best estimates based on professional judgment is strongly encouraged. For some of the "less critical" factors, default values are provided. These should be used when data cannot be easily obtained, or when data are not available. Default values can be entered directly into the PreScore program (or PreScore scoresheets) except for the value provided for the "land use" factor. For this factor, enter a value of "0" in PreScore for the distance to multi-family residential. This will result in the land use factor receiving the maximum score of "10."

When completing the PA Data Collection Form, please check off one of the three boxes to categorize the type of data used to document the data collected. Checking a box while data collection is ongoing will aid the PA PreScore process at a later time. The three data types are described below.

- H: **Hard Data** - Data that would satisfy formal HRS quality assurance requirements. This type of data would require little or no interpretation and is usually obtained from independent defensible sources. A check in this column indicates that data collection for the factor is complete and will require no further investigation.
- E: **Estimated Data** - Reasonable approximation based on limited hard data and the judgment of the PA Investigator. A check in this column indicates that the factor requires further investigation for SSI candidate sites.
- D: **Default Value** - Assigned to a factor when any type of data is not readily available or when time constraints prohibit further data collection.

Enter the source of information for every item on the form. It is not necessary to give the complete citation because this will be provided in the reference list. It is recommended to enter the number corresponding to the reference source cited on the reference list, as well as the page number of the source.

Since the PA Data Collection Form is a major component of the PA Report, and will facilitate the preparation of the PreScore package, it is important to record all major assumptions or estimates when there is little or no "hard" data to evaluate a revised HRS category. All assumptions, estimates, and calculations for the "critical" factors should be recorded on the documentation record which accompanies the PreScore scoresheets.

Finally, please note that this draft version of the PA Data Collection Form is valid until the Final Phase II PA Report is published. At that time, the final form will supercede all draft versions.

WASTE/SOURCE INFORMATION (COMPLETE ONE PAGE FOR EACH SOURCE)

1) Source Name: _____

2) Source Type (Check One): Drums Land Treatment Waste Pile
 Nondrum Containers Landfill Other (describe) _____
 Contaminated Soil Surface Impoundment _____

Source of information: _____

Data Type (Check One): H E D

VOLUME/AREA INFORMATION

1) Fire Site? Y/N _____ 2) Volume (if applicable): _____ yd³ 3) Area (if applicable): _____ ft²

Is this information complete? _____ Is this area "readily attainable"? _____

Source of Information: _____ Source of Information: _____

Volume Calculation: _____ Area Calculation: _____

4) List all contaminants actually or potentially detectable in this source:

Source of Information: _____

Data Type (Check One): H E D

WASTESTREAM INFORMATION

Instructions: Complete the following for each wastestream known to have been deposited in this source.

1) Wastestream #1 (Name): _____

Quantity Deposited (WQD): _____ Complete? _____

List constituents and concentrations (if known):

| Constituent | Concentration | Constituent | Concentration |
|-------------|---------------|-------------|---------------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Source of information: _____

Data Type (Check One): H E D

2) Wastestream #2 (Name): _____

Quantity Deposited (WQD): _____ Complete? _____

List constituents and concentrations (if known):

| Constituent | Concentration | Constituent | Concentration |
|-------------|---------------|-------------|---------------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Source of information: _____

Data Type (Check One): H E D

PA DATA COLLECTION FORM

CONTAINMENT

Source Type*Air Pathway Gaseous and Particulate Emissions (Check one per category for each source type above, use default of 3 if containment for each source is unknown)*

| | | | |
|--|--|--|--|
| Fire Site Status: | <input type="checkbox"/> Active | <input type="checkbox"/> Inactive | |
| Fire Site Type: | <input type="checkbox"/> Above Ground | <input type="checkbox"/> Below-ground soil cover thickness _____ | <input type="checkbox"/> Soil resistant to gas migration? Y _____ N _____ |
| Container Condition: | <input type="checkbox"/> Intact, sealed | <input type="checkbox"/> Open, unsealed, or non-intact | |
| Container Cover: | <input type="checkbox"/> Maintained | <input type="checkbox"/> Unmaintained | <input type="checkbox"/> Uncovered |
| Landfill | | | |
| Source Condition: | <input type="checkbox"/> Intact, synthetic cover | <input type="checkbox"/> Waste totally enclosed in an intact building | |
| | <input type="checkbox"/> Waste totally enclosed in non-intact building | <input type="checkbox"/> Source exposed | |
| Soil Cover: | <input type="checkbox"/> Untamminated soil cover thickness _____ | <input type="checkbox"/> Contaminated cover soil or waste uncovered or exposed | <input type="checkbox"/> Cover soil resistant to gas migration? Y _____ N _____ |
| Gas Collection System: | <input type="checkbox"/> Functioning | <input type="checkbox"/> Non-Functioning | <input type="checkbox"/> None |
| Vegetation: | <input type="checkbox"/> Heavy | <input type="checkbox"/> Light | <input type="checkbox"/> Substantially devoid of vegetation |
| Windbreak: | <input type="checkbox"/> Site surrounded by windbreak (e.g. fence, trees, etc.) | <input type="checkbox"/> No windbreak | |
| Surface Impoundment (if dry, evaluate as a landfill) | | | |
| Enclosure: | <input type="checkbox"/> Enclosed | <input type="checkbox"/> Non-enclosed | <input type="checkbox"/> None |
| Cover: | <input type="checkbox"/> Totally covered <input type="checkbox"/> maintained <input type="checkbox"/> unmaintained | <input type="checkbox"/> Partially covered <input type="checkbox"/> maintained <input type="checkbox"/> unmaintained | |
| Source of information: | _____ | | |
| Data Type (Check One): | <input type="checkbox"/> H | <input type="checkbox"/> E | <input type="checkbox"/> D |

Source Type*Ground Water and Surface Water Pathways (Check all applicable items, use default of 10 if containment for each source is unknown)*

| | | |
|----------------|--|--|
| Containers | <input type="checkbox"/> All containers buried | <input type="checkbox"/> No evidence of hazardous substance migration |
| Tanks | <input type="checkbox"/> Evidence of hazardous substance migration, or no liner and diking surrounding containment, tank, land treatment, or pile area | <input type="checkbox"/> Is there a single or double liner? _____ |
| Land Treatment | | <input type="checkbox"/> Is the container area surrounded by sound diking? Y/N _____ |
| Pile | | <input type="checkbox"/> Is there a liquids collection and removal system? Y/N _____ |
| | | <input type="checkbox"/> Adequate freeboard? Y/N _____ |
| | | <input type="checkbox"/> Is there run-on control? Y/N _____ |
| | | <input type="checkbox"/> Vegetative cover for land treatment area? Y/N _____ |

PA DATA COLLECTION FORM

CONTAINMENT (continued)

Source Type

Ground Water and Surface Water Pathways (Check all applicable items, use default of 10 if containment for each source is unknown) (Continued)

Landfill

Evidence of hazardous substance migration from the landfill, or no liner or none of the following present: engineered cover, functioning and maintained run-on control system and run-off management system, or leachate collection and removal system.

No evidence of hazardous substance migration

- Is there an engineered cover? Y/N _____
- Is there a functioning and maintained run-on control and run-off management system? Y/N _____
- Is there a single or double liner? _____
- Is there a leachate collection and removal system? Y/N _____

Surface Impoundment

Evidence of hazardous substance migration: or no liner; or free liquids present with either no diking, unsound diking, or diking that is not regularly maintained.

No evidence of hazardous substance migration

- Is there a single or double liner? _____
- Is there sound diking? Y/N _____
- Is there adequate freeboard? Y/N _____
- Have all free liquids been eliminated at closure? Y/N _____

Source of information: _____

Data Type (Check One):

- H E D

SURFACE WATER CONTAINMENT (Flood)

1) Determine the flood frequency (annually, 10 year, 100 year, 500 year) in which this source is partially or fully located.

2) Is the containment at the source adequate to prevent any washout of hazardous substances by a flood (must be certified by a professional engineer)? Y _____ N _____

Source of information: _____

Data Type (Check One):

- H E D

ACCESSIBILITY/FREQUENCY OF USE

1) Does quantitative or qualitative information exist to indicate site-related soil contamination on the property of a park, playground, school, or other areas designated for use by the public?

Y/N _____ (If no, assign a default value of 75)

Source of information: _____

Data Type (Check One):

- H E D

AIR MIGRATION PATHWAY

LIKELIHOOD OF RELEASE

1) Does any qualitative or quantitative information exist to indicate a release to air? Y/N _____

Describe: _____

Source of information: _____

Data Type (Check One):

- H E D

2) If particulates are present at the site, assign a Thornthwaite P-E index (See Figure 2-3 on page FR52011 in proposed rule): _____

PA DATA COLLECTION FORM

AIR MIGRATION PATHWAY(continued)

TARGETS

1) Determine the distance from the emission source to the nearest individual (includes closest residence or regularly occupied building or area): NOTE - if unknown or not readily attainable, assign default value of 50.

Source of information: _____

Data Type (Check One): H E D

2) Determine the population within a four-mile radius of the onsite emission source (use of online databases is encouraged)

| Distance | Population |
|----------|------------|
| onsite | _____ |
| 0-1/4 | _____ |
| 1/4-1/2 | _____ |
| 1/2-1 | _____ |
| 1-2 | _____ |
| 2-3 | _____ |
| 3-4 | _____ |

Source of information: _____

Data Type (Check One): H E D

3) Determine the shortest distance between an onsite emission source and each of the following types of land uses: NOTE - If unknown, or not readily attainable, assign default value of 10.

| Land Use Categories | Distance (miles) |
|-------------------------------------|------------------|
| Commercial/Industrial/Institutional | _____ |
| Single-family residential | _____ |
| Multi-family residential | _____ |
| Parks | _____ |
| Prime agricultural | _____ |
| Non-prime agricultural | _____ |

Source of information: _____

Data Type (Check One): H E D

4) Determine the distance to each sensitive environment within the 2-mile target distance limit (see Attachment A for list of sensitive environments).

| Sensitive Environment | Distance (miles) |
|-----------------------|------------------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Source of information: _____

Data Type (Check One): H E D

PA DATA COLLECTION FORM

GROUND WATER MIGRATION PATHWAY

LIKELIHOOD OF RELEASE

1) *Is there any positive or circumstantial evidence of a release to ground water?* Y/N _____

Describe: _____

Source of information: _____

Data Type (Check One): H E D

2) *Provide the aquifer name and determine whether the aquifer is Karst on Table 1.*

Source of information: _____

Data Type (Check One): H E D

TABLE 1 - Aquifer Selection

| No. | Aquifer Name | Karst (Y/N) |
|-----|--------------|-------------|
| 1 | | |
| 2 | | |
| 3 | | |

3) *On Table 2, provide a description for each geologic/hydrologic unit underlying the site from the surface to the aquifer of concern.*

Source of information: _____

Data Type (Check One): H E D

TABLE 2 - Description of Geologic/Hydrologic Units

| Depth of Contamination (ft) _____ | | Depth to Aquifer (ft) _____ | | |
|-----------------------------------|-----------------|-----------------------------|-----------------------------------|--|
| Layer Description | Layer Thickness | Hydraulic Conductivity | Sorbent Content (%) (See Table 3) | |
| | | | | |

TABLE 3 - Sorbent Content of Geologic Materials

| Type of Material | Average sorbent content (percent clays plus percent organic carbon) |
|--|---|
| Coal seams, peat or organic-rich sediments | 77 |
| Clays, silts, till, loesses, silts, sands, sediments that are predominantly clay or silt, claystones, mudstones, shales (including oil shales or siltstones) | 64 |
| Sands, sediments that are predominantly sands, sandstones, or argillaceous limestones and dolomites | 15 |
| Limestones and dolomites, limy sediments or gravels | 9 |

4) *Determine net precipitation:* _____

Source of information: _____

Data Type (Check One): H E D

PA DATA COLLECTION FORM

GROUND WATER MIGRATION PATHWAY (continued)

GROUND WATER TARGETS

1) What is the distance from the source area to the nearest drinking water well (MEDI)? _____

Source of information: _____

Data Type (Check One): H E O

2) For each distance ring, provide the population served by ground water (NOTE: For those wells with positive or circumstantial evidence of a release, assume actual contamination).

| Distance (miles) | Actual Contamination Population Served | Potential Contamination Population Served |
|------------------|--|---|
| onsite | _____ | _____ |
| 0-1/4 | _____ | _____ |
| 1/4-1/2 | _____ | _____ |
| 1/2-1 | _____ | _____ |
| 1-2 | _____ | _____ |
| 2-3 | _____ | _____ |
| 3-4 | _____ | _____ |

Source of information: _____

Data Type (Check One): H E D

3) Determine drinking water use within a 4-mile radius of the site (Check the highest item from the list).

- | | |
|---|--|
| a. <input type="checkbox"/> Public supply, no water from alternate unthreatened sources available _____ | e. <input type="checkbox"/> Standby well, used less than annually but used in past 10 years _____ |
| b. <input type="checkbox"/> Private supply, no water from alternate unthreatened sources available _____ | f. <input type="checkbox"/> Standby well, maintained but not used in past 10 years _____ |
| c. <input type="checkbox"/> Public water supply, alternative unthreatened source readily available _____ | g. <input type="checkbox"/> Not currently used, but usable _____ |
| d. <input type="checkbox"/> Private water supply, alternative unthreatened source readily available _____ | h. <input type="checkbox"/> Unusable (e.g., extremely saline aquifer as defined in the SDWA) _____ |
| | i. <input type="checkbox"/> Other (describe): _____ |

Source of information: _____

Data Type (Check One): H E D

4) Identify and describe other water use (agricultural, commercial, institutional) within a 4-mile radius of the site (check the highest item from the list).

- | | |
|---|--|
| a. <input type="checkbox"/> Used for irrigation (5 acre min.) of commercial food crops or forage commercial crops _____ | c. <input type="checkbox"/> Used for commercial food preparation _____ |
| b. <input type="checkbox"/> Used for commercial livestock watering _____ | d. <input type="checkbox"/> Commercial/industrial purposes other than drinking water _____ |
| | e. <input type="checkbox"/> Not used for any of the above _____ |

Source of information: _____

Data Type (Check One): H E D

5) Is the site located within a Wellhead Protection Area? Yes _____ No _____

Source of information: _____

Data Type (Check One): H E D

PA DATA COLLECTION FORM

SURFACE WATER MIGRATION PATHWAY

Instructions: Obtain the following information only if there is a surface water body within 2 miles of the site. (See FR52040 or section 4.0.3 for definition of surface water body)

LIKELIHOOD OF RELEASE

1) Enter the following information into Table 4 for all surface water bodies within 15 downstream miles of the site.

- Segment name (i.e., Potomac River, Meddybemps Lake, etc.)
- Segment type (see Table 5)
- Start and end point for each segment in downstream miles from probable point of entry (PPE)
- Average annual stream flow (cubic feet per second (cfs)) NOTE - Define a new segment where there is a change in stream flow or surface water body type

Source of information: _____

Data Type (Check One): H E D

TABLE 4 - Watershed Description

| No | Segment Name | Segment Type from Table 5 | Start Point (miles) | End Point (miles) | Flow (cfs) |
|----|--------------|---------------------------|---------------------|-------------------|------------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |

TABLE 5 - Segment Type

| | | |
|----|--------------------|-------------------|
| #1 | River | |
| #2 | Small Pond | 0-5 Acres |
| #3 | Large Pond | 5-500 Acres |
| #4 | Small Lake | 500-1,000 Acres |
| #5 | Medium Lake | 1,000-5,000 Acres |
| #6 | Large Lake | 5,000+ Acres |
| #7 | Great Lake | |
| #8 | Ocean (Salt Water) | |
| #9 | Mixing Area | |

2) Attach a simplified sketch of surface runoff and surface water flow system for 15 downstream miles. Also, locate intakes, fisheries, sensitive environments, and gauging stations.

3) Is there any positive or circumstantial evidence of surface water contamination? Y/N _____ (If yes, proceed to surface water targets section) Describe: _____

Source of information: _____

Data Type (Check One): H E D

POTENTIAL TO RELEASE

1) Determine the following and enter into corresponding space below:

- 2 yr., 24 hour rainfall _____
- Drainage area in acres (site area and area upgradient of the site). Do not include any portion of the drainage area where runoff is diverted away by storm sewers or run-on control and/or runoff management systems _____
- Runoff curve number based on the predominant land use (within the drainage area) and the hydrologic soil group that is found within the predominant land use category. (see Attachment B) _____
- Distance to surface water (measure from the nearest source to the probable point of entry (PPE)). _____

Source of information: _____

Data Type (Check One): H E D

PA DATA COLLECTION FORM

SURFACE WATER MIGRATION PATHWAY(continued)

DRINKING TARGETS

1) For each drinking water intake located within 15 miles of the site determine the population served (NOTE - for those intakes with positive or circumstantial evidence of a release, assume actual contamination).

| Intake | Distance | Population Served | Level of Contamination | |
|--------|----------|-------------------|---------------------------------|------------------------------------|
| _____ | _____ | _____ | <input type="checkbox"/> Actual | <input type="checkbox"/> Potential |
| _____ | _____ | _____ | <input type="checkbox"/> Actual | <input type="checkbox"/> Potential |
| _____ | _____ | _____ | <input type="checkbox"/> Actual | <input type="checkbox"/> Potential |

Source of information: _____

Data Type (Check One): H E D

2) From the list above, determine the nearest drinking water intake (MEI)? _____

Source of information: _____

Data Type (Check One): H E D

3) Determine surface water drinking water use and other water use within 15 miles downstream of the site (check the highest item on the list).

Surface Water Drinking Water Use

- No adequate alternative supply, and no feasibility study completed
- No adequate alternative supply, could be developed, threatened by site
- No adequate alternative supply, could be developed, unthreatened by site
- Alternative source is developed and threatened by site
- Alternative source is developed and unthreatened by site
- Standby water intake, used less than annually, used in past 10 years
- Standby water intake, maintained but not used in past 10 years
- Private water supply and no alternative is readily available
- Private water supply, alternative unthreatened source readily available
- Designated by state for drinking water use, but not currently used
- Not currently used
- Not usable without extensive treatment because of natural quality problems

Other Water Use

- Used for irrigation (5 acre min.) of commercial food/forage crops
- Used for commercial livestock watering
- Used for commercial food preparation
- Used for commercial/industrial purposes other than drinking water, recreation or fishery
- Not used or unusable

Source of information: _____

Data Type (Check One): H E D

HUMAN FOOD CHAIN TARGETS

1) For each segment in Table 4 describe fisheries within 15 miles downstream of the site (i.e., acreage, production).

| Segment | Acres | Production | | Level of Contamination (Actual or Potential) |
|---------|-------|--------------------------|----------------------|--|
| | | Standing Crop (lbs/acre) | Actual Harvest (lbs) | |
| | | | | |

Source of information: _____

Data Type (Check One): H E D

PA DATA COLLECTION FORM

SURFACE WATER MIGRATION PATHWAY (continued)

HUMAN RECREATION TARGETS

1) For each recreation area within 15 downstream miles provide the following information in Table 6:

- Distance from the PPE to recreation area
- Recreation Area Category (see page FR52059 or section 4.3.3.1.1.1 in proposed rule for definitions)
 - Capital use and access improvements (assigned radius = 125 miles)
 - Access improvements only (assigned radius = 80 miles)
 - Observed use only (assigned radius = 40 miles)
 - None of the above criteria apply and access is not restricted (assigned radius = 10 miles)
- Level of contamination (assume actual contamination if there is positive or circumstantial evidence of a release to the recreation area)

Source of information: _____

Data Type (Check One): H E O

TABLE 6 - Human Recreation Targets

| Recreation Area ID | Distance (miles) | Recreation Area Category (See above) | Level of Contamination (Actual or Potential) |
|--------------------|------------------|--------------------------------------|--|
| | | | |

2) For each recreation area, determine the population residing within each applicable distance category (Use of GEMS is recommended).

| Distance (miles) | Recreation Area #1 | Recreation Area #2 | Recreation Area #3 |
|------------------|--------------------|--------------------|--------------------|
| 0-5 | _____ | _____ | _____ |
| 5-10 | _____ | _____ | _____ |
| 10-20 | _____ | _____ | _____ |
| 20-40 | _____ | _____ | _____ |
| 40-60 | _____ | _____ | _____ |
| 60-80 | _____ | _____ | _____ |
| 80-100 | _____ | _____ | _____ |
| 100-125 | _____ | _____ | _____ |

Source of information: _____

Data Type (Check One): H E O

PA DATA COLLECTION FORM

SURFACE WATER MIGRATION PATHWAY(continued)

ENVIRONMENTAL TARGETS

1) For each sensitive environment within 15 downstream miles, provide the following information in Table 7:

- Distance from the PPE
- Value for sensitive environment (See Table 2-18 on page FR52Q19 or section 2.3.4 in the proposed rule)
- Level of contamination (Assume actual contamination if there is evidence of a release)
- Whether the ecosystem is saltwater or freshwater

Source of information: _____

Data Type (Check One):

H E D

TABLE 7- SENSITIVE ENVIRONMENTS TARGETS

| Sensitive Environment ID | Distance (miles) | Environment Value | Level of Contamination | Salt/Fresh |
|--------------------------|------------------|-------------------|------------------------|------------|
| | | | | |

ONSITE EXPOSURE PATHWAY

RESIDENT POPULATION THREAT - LIKELIHOOD OF EXPOSURE

1) Does any qualitative or quantitative information exist to confirm that people live or attend school on contaminated property?

Y ___ N ___ (If no, do not complete remainder of section) Describe: _____

Source of information: _____

Data Type (Check One):

H E D

RESIDENT POPULATION THREAT - TARGETS

1) Estimate the number of children (less than 7 years old) that potentially live or attend school or day care on contaminated property.

Source of information: _____

Data Type (Check One):

H E D

2) Estimate the total number of individuals that potentially live or attend school or day care on contaminated property (NOTE - Exclude population counted in item #1)

Source of information: _____

Data Type (Check One):

H E D

PA DATA COLLECTION FORM

ONSITE EXPOSURE PATHWAY (continued)

3) From the following list, check off and identify those terrestrial sensitive environments located onsite.

TERRESTRIAL SENSITIVE ENVIRONMENTS

- Terrestrial critical habitat for federally designated endangered or threatened species _____
- National Park _____
- Designated Federal wilderness area _____
- Terrestrial habitat known to be used by Federally designated or proposed threatened or endangered species _____
- National preserve (terrestrial) _____
- National or State wildlife refuge _____
- Federal land designated for protection of natural ecosystems _____
- Administratively proposed Federal wilderness areas _____
- Terrestrial habitat known to be used by State-designated endangered or threatened species _____

Source of information: _____

Data Type (Check One): H E D

NEARBY POPULATION THREAT

1) Determine the population within a one-mile travel distance from the site (See Section 5.2.3 on page FR52068 to determine travel distance): _____

| Distance | Population |
|----------|------------|
| 0-1/4 | _____ |
| 1/4-1/2 | _____ |
| 1/2-1 | _____ |

Source of information: _____

Data Type (Check One): H E D

PA DATA COLLECTION FORM

PAGE 13 OF 14

ATTACHMENT A - LIST OF SENSITIVE ENVIRONMENTS

- A. Critical habitat for Federal designated endangered or threatened species
- B. Marine Sanctuary
- C. National Park
- D. Designated Federal Wilderness Area
- E. Areas identified under the Coastal Zone Management Act
- F. Sensitive areas identified under the National Estuary Program or Near Coastal Waters Program
- G. Critical Areas identified under the Clean Lakes Program
- H. Water segments designated by State as not attaining toxic water quality standards
- I. National Monument
- J. National Seashore Recreational Area
- K. National Lakeshore Recreational Area
- L. Habitat known to be used by Federal designated or proposed endangered or threatened species
- M. Wetlands (freshwater, estuarine or coastal - 5 acre minimum)
- N. National Preserve
- O. National or State Wildlife Refuge
- P. Unit of the Coastal Barrier Resources System
- Q. Coastal Barrier (undeveloped)
- R. Federal land designated for protection of natural ecosystems
- S. Administratively Proposed Federal Wilderness Area
- T. Spawning areas critical for the maintenance of fish species within a river system, coastal embayment, or estuary
- U. Feeding areas critical for the maintenance of fish species within a river system, coastal embayment, or estuary
- V. National river reach designated as recreational
- W. Habitat known to be used by State designated endangered or threatened species
- X. Habitat known to be used by a species under river as to its Federal endangered or threatened status.
- Y. State designated areas for the protection or maintenance of aquatic life (coastal, estuarine, or freshwater area)
- Z. Coastal Barrier (partially developed)
- AA. Federal designated Scenic or Wild River
- BB. State Land designated for wildlife or game management
- CC. State designated Scenic or Wild River
- DD. State designated Natural Area
- EE. Particular areas, relatively small in size, important to the maintenance of unique biotic communities (e.g., prairie pot holes, buffalo wallows, alligator holes, desert springs)



PA DATA COLLECTION FORM

ATTACHMENT B - RUNOFF CURVE NUMBER (Circle runoff curve number selected)

| Predominant Land Use | Hydrologic Soil Group | | | |
|--|-----------------------|-----|-----|-----|
| | A | B | C | D |
| Cultivated Land | | | | |
| With runoff control (e.g., contour farming, sod, waterways, terraces) | 60 | 60 | 80 | 80 |
| Without runoff control | 70 | 80 | 89 | 90 |
| Pasture or Range Land | | | | |
| Poor condition (exposed soil, erosion evident) | 70 | 80 | 85 | 90 |
| Good condition | 40 | 60 | 75 | 80 |
| Meadow | 30 | 60 | 70 | 80 |
| Wood or Forest Land | | | | |
| Thin stand or little soil cover | 45 | 65 | 75 | 85 |
| Normal stand or good soil cover | 25 | 55 | 70 | 75 |
| Open grass-covered areas (lawns, parks, golf courses, cemeteries, etc.) | | | | |
| Good grass cover (75% or more coverage) | 40 | 60 | 75 | 80 |
| Poor grass cover (less than 75% coverage) | 50 | 70 | 80 | 85 |
| Industrial Districts | 80 | 90 | 90 | 95 |
| Residential lots | 60 | 75 | 85 | 90 |
| Paved Lots (parking lots, driveways, large roofs) | 100 | 100 | 100 | 100 |
| Streets and Roads | | | | |
| Paved with curbs and storm sewers | 100 | 100 | 100 | 100 |
| Gravel | 75 | 85 | 90 | 90 |
| Dirt | 70 | 80 | 85 | 90 |
| Landfills | | | | |
| Surface composed of clay | -- | -- | -- | 90 |
| Surface composed of debris | 70 | -- | -- | -- |
| Surface composed of sod | | | | |
| Good sod cover (75% or more) | 40 | -- | -- | -- |
| Poor sod cover (less than 75%) | 50 | -- | -- | -- |

LIST OF INFORMATION SOURCES

Attached is a list of information sources to support data collection for the proposed revised HRS. The form is structured to follow the PA Data Collection Form and the PreScore instructions. Listed under each pathway are the factor categories (i.e., observed release, waste characteristics, targets, etc.) and the individual factors. For each HRS factor, reference sources are provided, as well as the appropriate agency or organization from which the information can be acquired. Phone numbers are provided for most Federal agencies and organizations.

A list of general information sources is also provided. This list provides names of those agencies or organizations that are most commonly contacted to obtain information for some factors. Names of agencies and organizations are provided for the Federal, state, and local levels. Two publications which will direct the PA Investigator to the appropriate state or local office are also given. The types of information that these agencies or publications provide are listed. A more complete list of general information sources will be provided in the Final Phase II PA Report, which will be available at the end of the summer.

DRAFT

INFORMATION SOURCES FOR PRELIMINARY ASSESSMENT/SITE INSPECTION/HRS SCORING

MULTIPLE PATHWAYS

| FACTOR | SOURCE | AGENCY/ORGANIZATION |
|---|--|--|
| OBSERVED RELEASE | Sample Analytical Results State Files | Analytical laboratory Regional EPA Office State Department for Environmental Protection (or equivalent) |
| HAZARDOUS WASTE QUANTITY | | |
| ● Amount Deposited | Waste Manifest, Waste Disposal Records, Hauler Data, Permits, Notices of Permit Violation, Production Records, Generator Records, Site History Records, Spill Records, Waste Storage and Disposal Methods, Extent of Contamination Records | Company Records and Site Officials Regional EPA Offices State Environmental Offices Trucking and Hauling Companies Consultants |
| ● Disposal Capacity of Sources (Volume or Area) | Aerial Photos Waste Containment Data Onsite Field Measurements Permits Designs | National Cartographic Information Center of USGS Eastern Mapping Center (703-860-6336) Western Mapping Center (414-323-8111) Mid-Continent Mapping Center (314-341-0851) Rocky Mountain Mapping Center (303-236-5829) US Army Corps of Engineers (202-272-0344) Environmental Photographic Interpretation Center (EPIC) (703-349-8975) Environmental Monitoring Systems Laboratories (EMSL) (702-798-2100) State Departments of Agriculture State Departments of Transportation |
| CONTAINMENT | State Files, Aerial Photographs, Onsite Reconnaissance | See above for aerial photograph acquisition |
| WASTE CHARACTERISTICS | | |
| ● Toxicity | Reference Tables for Toxicity and Other Substance-Specific Values for 130 Chemicals (May 31, 1989), or see sources listed in Part III | U.S. Environmental Protection Agency, Hazardous Site Evaluation Division, Hazard Ranking and Listing Branch, 401 M Street, S.W., Washington, D.C. 20460 |
| ● Mobility (Ground Water) | Same as Above | Same as Above |
| ● Persistence (Surface Water Drinking Water Threat) | Same as Above | Same as Above |

INFORMATION SOURCES FOR PRELIMINARY ASSESSMENT/SITE INSPECTION/HRS SCORING

MULTIPLE PATHWAYS (cont)

| FACTOR | SOURCE | AGENCY/ORGANIZATION |
|---|---------------|----------------------------|
| WASTE CHARACTERISTICS (cont) | | |
| ● Bioaccumulation Potential (Surface Water Human Food Chain Threat) | Same as Above | Same as Above |
| ● Dose Adjusting Factor (Surface Water Human Recreation Threat) | Same as Above | Same as Above |

AIR MIGRATION PATHWAY

POTENTIAL TO RELEASE

| | | |
|----------------------|---|--|
| ● Source Containment | See Multiple Pathways | |
| ● Source Type | Aerial Photographs | National Cartographic Information Center (NCIC) of USGS Eastern Mapping Center (703-860-6336) Western Mapping Center (415-323-8111) Mid Continent Mapping Center (314-341-0851) Rocky Mountain Mapping Center (303-236-5829) Environmental Photographic Interpretation Center (EPIC) (703-349-8975) Environmental Monitoring Systems Laboratories (EMSL) (702-798-2100) Regional EPA Office |
| | State Files | State Department of Environmental Protection (or equivalent) |
| | Onsite Reconnaissance | |
| ● Source Mobility | See sources listed in Part III or table in Final Rule | |

WASTE CHARACTERISTICS

See Multiple Pathways

TARGETS

| | | |
|--|--------------------------------------|--|
| ● Distance to the nearest individual (includes closest residence or regularly occupied building or area) | USGS Topographic Map Field Survey | U S. Geological Survey - Public Inquiries Office Reston, VA - (703-648-6045) Denver, CO - (302 236-7477) |
|--|--------------------------------------|--|



INFORMATION SOURCES FOR PRELIMINARY ASSESSMENT/SITE INSPECTION/HRS SCORING

AIR MIGRATION PATHWAY (cont)

| FACTOR | SOURCE | AGENCY/ORGANIZATION |
|--------------------------|--|---|
| TARGETS (cont) | | |
| ● Population | Databases | Graphical Exposure Modeling System (GEMS) Private Demographics/Marketing Firms (e.g., National Planning Data Corp. (607-273-8208), CACI (703-698-4600)) |
| | U.S. Bureau of the Census County and City Data Book or State and Metropolitan Area Data Book (to obtain data on persons per household and population density) | U.S. Government Printing Office U.S. Bureau of the Census - Statistical Information Office Washington, D.C. (202-763-5002) |
| | House Counts (Field Surveys) | |
| ● Land Use | Aerial Photographs | NCIC, EPIC, EMSL USGS-Public Inquiries Office Reston, VA - (703-648-6045) Denver, CO - (303-236-7477) |
| | Land Use Maps | Local Department of Planning and Zoning (or equivalent) |
| | Field Surveys (Offsite recons) | |
| ● Sensitive Environments | USGS Topographic Maps | USGS-Public Inquiries Office Reston, VA - (703-648-6045) Denver, CO - (303-236-7477) |
| | Wetlands Inventory Maps | U.S. Fish and Wildlife Service (see Attachment A) State Department of Fish and Wildlife (or equivalent) State Department of Natural Resources State Department of Environmental Protection |
| | Aerial Photographs | NCIC, EPIC, EMSL |
| | Data Bases | Natural Heritage Program (see Attachment B) |

GROUND WATER MIGRATION PATHWAY

POTENTIAL TO RELEASE

- Containment See Multiple Pathways



INFORMATION SOURCES FOR PRELIMINARY ASSESSMENT/SITE INSPECTION/HRS SCORING

GROUND WATER MIGRATION PATHWAY (cont)

| FACTOR | SOURCE | AGENCY/ORGANIZATION |
|---|---|--|
| POTENTIAL TO RELEASE (cont) | | |
| <ul style="list-style-type: none">● Depth to Aquifer/Hydraulic Conductivity | <p>Boring Logs or Well Logs, Well Permits</p> <p>Groundwater Reports RCRA/NPDES/TSCA Permit Applications, Enforcement Actions</p> | <p>Local Well Drillers State/County Water and Sewer Authorities USGS Federal and Local Offices U.S. EPA Regional and State Offices</p> |
| <ul style="list-style-type: none">● Sorptive Capacity | same as above | same as above |
| <ul style="list-style-type: none">● Net Precipitation | <p>Climatic Atlas of the United States</p> <p>Rainfall Frequency Atlas of the United States Technical Paper No. 40 Map included with the Final Rule</p> <p>Climatic Data (monthly precipitation and evapotranspiration)</p> | <p>U.S. Dept. of Commerce National Climatic Center, Asheville, North Carolina (704-259-0682)</p> <p>U.S. Dept. of Commerce, U.S. Government Printing Office, Washington, D.C. 1963</p> <p>National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center Library Information Rockville, MD (301-443-8910) Asheville, NC (704-259-0682)</p> <p>Local Airports Local Universities</p> |
| WASTE CHARACTERISTICS | see Multiple Pathways | |
| TARGETS | | |
| <ul style="list-style-type: none">● Distance to the nearest drinking water well (MEI) | USGS Topographic Maps | USGS-Public Inquiries Office Reston, VA - (703-648-6045) Denver, CO - (303-236-7477) |
| <ul style="list-style-type: none">● MEI (cont) | <p>Maps showing location of municipal wells</p> <p>Field Surveys Data Bases</p> | <p>Local Water and Sewer Departments or Local Water Authorities</p> <p>USGS Ground Water Site Inventory (GWSI)</p> |



INFORMATION SOURCES FOR PRELIMINARY ASSESSMENT/SITE INSPECTION/HRS SCORING

GROUND WATER MIGRATION PATHWAY (cont)

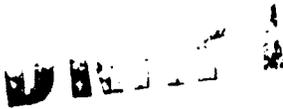
| FACTOR | SOURCE | AGENCY/ORGANIZATION |
|--|--|--|
| TARGETS (cont) | | |
| ● Population | | |
| - Population exposed to contaminant concentrations above health-based benchmarks | Sample Analytical Results Investigation reports on public/private water supply | State or Local Department of Public Health State Pollution Control Agency (or equivalent) |
| - Potential Population | Data Bases U.S. Bureau of the Census County and City Data Book or State and Metropolitan Area Data Book House Counts (USGS Maps or Field Surveys) Interview (for public water supply wells) | GEMS, Private Demographics/Marketing Firms (e.g., National Planning Data Corp., CACI) U.S. Government Printing Office U.S. Bureau of the Census - Statistical Information Office, Washington, D.C. (202-763-5002) USGS - Public Inquiries Office Reston, VA - (703-648-6045) Denver, CO - (303-236-7477) Local Water Authority or Water and Sewer Department |
| ● Ground Water Use | | |
| - Drinking Water Use | Files, Telephone or Personal Interviews | Local Department of Public Health, Local Water and Sewer Department, or Water Authority |
| - Other Water Use | Interviews with County Agriculture Agents and Local Businessmen, Well Permits | Agricultural Cooperative Extension Service, Local Ground Water Office |
| ● Wellhead Protection Area | Data and Files from Regional EPA (Drinking Water Branch) or State/County Municipalities Factor will be tabulated and issued with final rule | EPA Regional Offices of Drinking Water, State and County Municipalities |



INFORMATION SOURCES FOR PRELIMINARY ASSESSMENT/SITE INSPECTION/HRS SCORING

SURFACE WATER MIGRATION PATHWAY

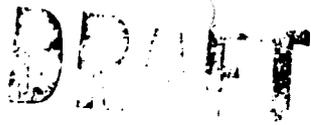
| FACTOR | SOURCE | AGENCY/ORGANIZATION |
|--|---|--|
| POTENTIAL TO RELEASE BY OVERLAND FLOW | | |
| ● Runoff Value | | |
| - Rainfall (2 yr., 24 Hour) | Rainfall Frequency Atlas of the United States | NOAA, National Climatic Data Center, Library Information Services Rockville, MD - (301-443-8330) Asheville, NC - (704-259-0682) |
| - Runoff Curve Number | | |
| 1) Land Use | Aerial Photographs Field Surveys (Offsite recon) USGS Topographic Maps | NCIC, EPIC, EMSL USGS-Public Inquiries Office Reston, VA - (703-648-6045) Denver, CO - (303-236-7477) |
| 2) Hydrologic Soil Group | Urban Hydrology for Small Watersheds, Technical Release 55, June 1989 Soil Maps | U.S. Department of Agriculture Soil Conservation Service (SCS) |
| - Upgradient Drainage Area | USGS Topographic Maps Aerial Photographs Offsite Reconnaissance | USGS Public Inquiries Office Reston, VA - (703-648-6045) Denver, CO - (303-236-7477) NCIC, EPIC, EMSL |
| ● Distance to Surface Water | USGS Topographic Maps Field Surveys | USGS Public Inquiries Office Reston, VA - (703-648-6045) Denver, CO - (303-236-7477) |
| POTENTIAL TO RELEASE BY FLOODING | | |
| ● Flood Containment | File Information | Regional EPA Office State Department for Environmental Protection (or equivalent) |



INFORMATION SOURCES FOR PRELIMINARY ASSESSMENT/SITE INSPECTION/HRS SCORING

SURFACE WATER MIGRATION PATHWAY (cont)

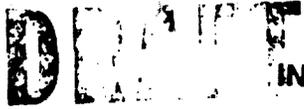
| FACTOR | SOURCE | AGENCY/ORGANIZATION |
|---|---|--|
| <ul style="list-style-type: none">● Flood Frequency | Flood Insurance Rate Maps (FIRM) Flood Plain Maps | FEMA (see Part II for phone numbers) U.S. Department of Housing and Urban Development (HUD) Local Planning Agency, Local Office of Environmental Protection |
| WASTE CHARACTERISTICS FOR DRINKING WATER THREAT | | |
| <ul style="list-style-type: none">● Toxicity | See Multiple Pathways | |
| <ul style="list-style-type: none">● Persistence | See Multiple Pathways | |
| DRINKING WATER THREATS TARGETS | | |
| <ul style="list-style-type: none">● Nearest drinking water intake along the hazardous substance migration pathway (MEI)<ul style="list-style-type: none">- stream flow | Interviews .. Map of Water Supply System Field Measurements, USGS Gauging Stations Watershed Studies | Local Water Authority or Water and Sewer Department Same as Above USGS Local Department of Environmental Planning State Department of Environmental Protection (or equivalent) |
| <ul style="list-style-type: none">● Population<ul style="list-style-type: none">- Population exposed to contaminant concentrations above health-based benchmarks- Potential Population | Sample Analytical Results Investigation Reports on Public/Private Water Supply Interviews Databases | State or Local Department of Public Health State Pollution Control Agency (or equivalent) Local Water Authority or Water and Sewer Department Pathscan |



INFORMATION SOURCES FOR PRELIMINARY ASSESSMENT/SITE INSPECTION/HRS SCORING

SURFACE WATER MIGRATION PATHWAY (cont)

| FACTOR | SOURCE | AGENCY/ORGANIZATION |
|---|---|---|
| <ul style="list-style-type: none"> ● Drinking Water Use | Files | Regional EPA Office State Department for Environmental Protection |
| | Interviews | Local Department of Public Health, Local Water and Sewer Department, or Water Authority |
| <ul style="list-style-type: none"> ● Other Water Use | Interviews with County Agriculture Agents and Local Businessmen | Agricultural Cooperative Extension Service |
| HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS | See Multiple Pathways | |
| HUMAN FOOD CHAIN THREAT TARGETS | | |
| <ul style="list-style-type: none"> ● Actual Contamination of Fishery | Sample Analytical Results | |
| <ul style="list-style-type: none"> ● Production of Fishery Under Evaluation | Data on Yields or Stocking Rate | State Department of Fish and Wildlife (or equivalent) Agricultural Cooperative Extension Service |
| <ul style="list-style-type: none"> ● Fishery Use | Interviews | State Department of Fish and Wildlife (or equivalent) Agricultural Cooperative Extension Service Local Department of Parks and Recreation |
| HUMAN RECREATION THREAT WASTE CHARACTERISTICS | See Multiple Pathways | |
| HUMAN RECREATION THREAT TARGETS | | |
| <ul style="list-style-type: none"> ● Recreation Use Population | | |
| <ul style="list-style-type: none"> - Actual Contamination of Recreation Area | Sample Analytical Results | |
| <ul style="list-style-type: none"> - Accessibility/ Attractiveness Factor | Aerial Photographs Land Use Maps Parks and Recreation Plan Field Surveys | NCIC, EPIC, EMSL Local Department of Planning and Zoning Local Department of Parks and Recreation |



INFORMATION SOURCES FOR PRELIMINARY ASSESSMENT/SITE INSPECTION/HRS SCORING

ONSITE EXPOSURE PATHWAY (cont)

| FACTOR | SOURCE | AGENCY/ORGANIZATION |
|--------------------------------------|---|---|
| ● Targets | | |
| - High Risk Population | U.S. Bureau of the Census City and County Data Book or State and Metropolitan Data Book | U.S. Government Printing Office U.S. Bureau of the Census - Statistical Information Office, Washington, D.C., (202-763-5002) |
| | Door-to-Door Survey Telephone Interview | Day-Care Centers, Schools, and Local Board of Education |
| - Resident Population | U.S. Bureau of the Census (see above) House Counts (from USGS Topographic Map, Aerial Photographs, or Onsite Reconnaissance | |
| - Terrestrial Sensitive Environments | See Air Pathway | |
| NEARBY POPULATION THREAT | | |
| ● Likelihood of Exposure | | |
| - Waste Quantity | See Multiple Pathways | |
| ● Likelihood of Exposure (cont) | | |
| - Accessibility/Frequency of Use | Onsite Reconnaissance | |
| ● Waste Characteristics | See Multiple Pathways | |
| ● Nearby Population | U.S. Bureau of the Census County and City Data Book, or State and Metropolitan Area Data Book House Counts (from USGS Topographic Maps, Aerial Photographs, or Field Survey) | U.S. Government Printing Office U.S. Bureau of the Census - Statistical Information Office, Washington, D.C., (202-763-5002) |

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INFORMATION SOURCES FOR PRELIMINARY ASSESSMENT/SITE INSPECTION/HRS SCORING

SURFACE WATER MIGRATION

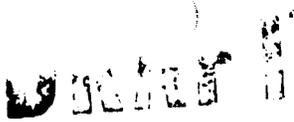
PATHWAY (cont)

| FACTOR | SOURCE | AGENCY/ORGANIZATION |
|---|--|--|
| - Population | Data Bases | GEMS, National Planning Data Corporation CACI |
| | U.S. Bureau of the Census County and City Data Book or State and Metropolitan Area Data Book | U.S. Government Printing Office U.S. Bureau of the Census - Statistical Information Office, Washington, D.C., (202-763-5002) |
| ENVIRONMENTAL THREAT WASTE CHARACTERISTICS | see Multiple Pathways | |
| ENVIRONMENTAL THREAT TARGETS | | |
| ● Sensitive Environment Exceeding Ecological-Based Benchmarks | Sample Analytical Results | |
| ● Location of Sensitive Environments | USGS Topographic Map | USGS-Public Inquiries Office Reston, VA - (703-648-6045) Denver, CO - (303-236-7477) |
| | Wetlands Inventory Map | U.S. Fish and Wildlife Service State Department of Fish and Wildlife (or equivalent) State Department of Natural Resources State Department of Environmental Protection |
| | Aerial Photographs Data Bases | NCIC, EPIC, EMSL Natural Heritage Program |

ONSITE EXPOSURE PATHWAY

RESIDENT POPULATION THREAT

- Likelihood of Exposure
 - Evidence of Soil Contamination
 - Waste Characteristics
- Sample Analytical Results
- see Multiple Pathways



GENERAL INFORMATION SOURCES

INFORMATION SOURCES

TYPES OF INFORMATION

FEDERAL AGENCIES

1. Federal Emergency Management Administration (FEMA):
1-800-333-1363

FEMA Regional Offices:

- Region 1 (Boston): (617) 223-9540
- Region 2 (New York): (212) 238-8207
- Region 3 (Philadelphia): (215) 931-5500
- Region 4 (Atlanta): (404) 853-4400
- Region 5 (Chicago): (312) 408-5500
- Region 6 (Dallas): (818) 898-9399
- Region 7 (Kansas City): (816) 283-7061
- Region 8 (Denver): (303) 235-4811
- Region 9 (San Francisco): (415) 923-7175
- Region 10 (Seattle): (206) 487-8800

2. U.S. Department of Agriculture

- Soil Conservation Service (SCS) - (301) 590-2855
- Agricultural Stabilization and Conservation Service (ASCS) - (301) 590-2846

3. U.S. Department of Commerce

- Bureau of the Census - Statistical Information Office: (202) 763-5002
- National Oceanic and Atmospheric Administration (301) 443-8910

4. U.S. Environmental Protection Agency (Headquarters)

- RCRA/Superfund Hotline (202) 382-3000
- Public Information Center (202) 382-2080

Flood Insurance Rate Maps

Soil surveys for counties
Soil maps and atlases (permeability, soil pH, depth to water table, location of prime agricultural land)

Data on crop yields, statistics on livestock and poultry, and irrigation data

Data on persons/household and population density

Climatic Data: precipitation and evaporation

GENERAL INFORMATION SOURCES

INFORMATION SOURCES

TYPES OF INFORMATION

FEDERAL AGENCIES (con't)

U.S. Environmental Protection Agency (Regional Offices)

- Region 1 (Boston): (617) 573-9697
- Region 2 (New York): (212) 624-6668
- Region 3 (Philadelphia): (215) 597-3165
- Region 4 (Atlanta): (404) 347-5065
- Region 5 (Chicago): (312) 353-1057
- Region 6 (Dallas): (214) 655-6740
- Region 7 (Kansas City): (913) 736-2856
- Region 8 (Denver): (303) 293-1518
- Region 9 (San Francisco): (415) 974-8010
- Region 10 (Seattle): (206) 442-2722

Site inspection files, RCRA permits and applications, NPDES permits and applications, notices of violations, air permits, CERCLA actions, TSCA records, enforcement action files, surface water and ground water reports

Environmental Photographic Interpretation Center (Regional Remote Sensing Coordinators)

- Region 1: Ruth Leabman (617) 573-9617
- Region 2: Carol DiGuardia (201) 321-6714
- Region 3: Bob Kramer (215) 597-8330
- Region 4: Rebecca Flack (404) 347-2316
- Region 5: Barry Bolka (312) 886-6227
- Region 6: Hank Thompson (214) 655-6491
- Region 7: Charles Hemsley (913) 236-3888
- Region 8: Wes Kinney (303) 293-1603
- Region 9: Don Zuroski (415) 974-8597
- Region 10: Bill Bogue (206) 442-1676



GENERAL INFORMATION SOURCES

INFORMATION SOURCES

TYPES OF INFORMATION

FEDERAL AGENCIES (con't)

5. U.S. Department of Interior

- U.S. Geological Survey (USGS) - Public Inquiries Office
Region, VA: (703) 648-6045
Denver, CO: (303) 236-7477

- National Cartographic Information Center (NCIC)

Eastern Mapping Center: (703) 860-6336
Western Mapping Center: (415) 323-8111
Mid-Continent Mapping Center (314) 341-0851
Rocky Mountain Mapping Center: (303) 236-5829

- U.S. Fish and Wildlife Service: (703) 358-2148

Aerial Photographs

Topographic maps, aerial photographs, professional papers, geologic maps, orthophoto maps, national parks, monuments, recreation, historic sites maps, land use/land cover maps, geologic/hydrogeologic reports, water resources investigations and water supply data, hydrologic maps, geophysical reports, annual state water resources data, hydrologic maps, flood plain maps, historical and out-of-print maps

Aerial photographs

National Wetlands Inventory maps, information on Federally endangered species, fish kills

STATE OFFICES

1. State Department for Environmental Protection (or equivalent)

2. State Department of Transportation

Site inspection files; sampling and monitoring reports; soil, surface water, and ground water reports, well logs, and reports on soil borings

Aerial Photographs



GENERAL INFORMATION SOURCES

INFORMATION SOURCES

TYPES OF INFORMATION

COUNTY AND LOCAL OFFICES

1. Department of Public Health
2. Department of Planning and Zoning
3. Department of Public Works
4. City Engineer
5. Agricultural Cooperative Extension Service
6. Water and Sewer Department
7. Department of Parks and Recreation

Sampling and monitoring data on public/private water supply systems

Site plans, comprehensive plans, zoning ordinances, land use and zoning maps, tax maps

Location of utility lines

Building permits

Data on irrigated acreage, crop yields and productivity, location of prime and non-prime agricultural land

Location of public water supply intakes and wells, population served figures, well permits, geographic service area

Map of park and recreation facilities, Parks, Recreation, and Open Space Plan

PUBLICATIONS

1. Directory of State Environmental Agencies, published by the Environmental Law Institute, 1616 P Street, N.W. Washington, D.C. 20036
2. County Agents, The Reference Directory for Agricultural Extension Workers

Telephone numbers and addresses of state environmental agencies

Telephone numbers and addresses for county agriculture agents for every county in every state in the U.S.