**SITE INSPECTION REPORT**

**FOR**

**Site Name/Address**

CERCLIS NO. XXXXXXXXXX

SITE INSPECTION

Region I 8(a) Superfund Technical Assessment and Response Team

Prepared for:

U.S. Environmental Protection Agency

Region I

Office of Site Remediation and Restoration

Boston, MA 02109-3912

EPA CONTRACT NO. XXXXXX

Submitted December 20, 2021 by:

MEDEP or Contractor

Environmental Protection Agency

Reviewed and Approved:

|  |  |  |  |
| --- | --- | --- | --- |
| Name of EPA SAM |  | Date |  |

Contractor Company Name

Reviewed and Approved:

|  |  |  |  |
| --- | --- | --- | --- |
| QA NAME/AFFILIATION  Title |  | Date |  |
|  |  |  |  |
| Site Project Manager NAME/AFFILIATION  Title |  | Date |  |

**Table of Contents**

[1.0 INTRODUCTION 3](#_Toc371413257)

[2.0 SITE DESCRIPTION 3](#_Toc371413258)

[3.0 OWNERSHIP, OPERATIONAL AND REGULATORY HISTORY 4](#_Toc371413259)

[4.0 WASTE CHARACTERISTICS AND CONCEPTUAL SITE MODEL 4](#_Toc371413260)

[5.0 GROUNDWATER MIGRATION PATHWAY 6](#_Toc371413261)

[5.1 DRINKING WATER SAMPLE LOCATIONS 7](#_Toc371413262)

[5.2. DRINKING WATER ANALYTICAL RESULTS 8](#_Toc371413263)

[5.3. ATTRIBUTION AND DRINKING WATER RECEPTORS 9](#_Toc371413264)

[6.0 SURFACE WATER MIGRATION PATHWAY 9](#_Toc371413265)

[6.1 SURFACE WATER SAMPLING LOCATIONS 11](#_Toc371413266)

[6.2 SURFACE WATER ANLYTICAL RESULTS 11](#_Toc371413267)

[6.3 ATTRIBUTION AND SURFACE WATER RECEPTORS 12](#_Toc371413268)

[7.0 SOIL EXPOSURE PATHWAY 12](#_Toc371413269)

[7.1 SOIL PATHWAY SAMPLE LOCATIONS 13](#_Toc371413270)

[7.2 SOIL PATHWAY ANALYTICAL RESULTS 13](#_Toc371413271)

[7.3 ATTRIBUTION AND SOIL PATHWAY RECEPTORS 13](#_Toc371413272)

[8.0 AIR MIGRATION PATHWAY 13](#_Toc371413273)

[8.1 AIR PATHWAY SAMPLE LOCATIONS 15](#_Toc371413274)

[8.2 AIRPATHWAY ANLYTICAL RESULTS 15](#_Toc371413275)

[8.3 ATTRIBUTION AND AIR PATHWAY RECEPTORS 15](#_Toc371413276)

[9.0 DATA QUALITY 15](#_Toc371413277)

[9.1 DATA QUALITY ASSESSMENT 15](#_Toc371413278)

[9.2 DATA QUALITY OBJECTIVES 15](#_Toc371413279)

[10.0 SUMMARY & CONCLUSIONS 15](#_Toc371413280)

[FIGURES 16](#_Toc371413281)

[REFERENCES 17](#_Toc371413282)

**LIST OF APPENDICES**

**Title**

1. Photograph Log

**LIST OF TABLES**

**Table No. Title Page**

\*NOTE: At a minimum we want to have the site name, page number and date in the footer

# 

# 1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) requested that CONTRACTOR perform a INSERT REPORT TYPE of the SITE NAME property, located in SITE TOWN, STATE. This work was performed under Contract No. XXXXXXXXX. Tasks were conducted in accordance with the SI/ESI scope of work provided by EPA. A SITE DISCOVERY (SD) REPORT/PRE-CERCLIS SCREENING for the SITE NAME was prepared by CONTRACTOR/STATEon DATE. On the basis of the information provided in the SD REPORT/PRE-CERCLIS SCREEN, theSITE NAME SI was initiated.

Background information used in the generation of this report was obtained through file searches conducted at EPA, STATE REGULATOR, telephone interviews with town officials, conversations with persons knowledgeable of the SITE NAME, and conversations with other Federal, State, and local agencies.

This report follows the guidelines developed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended, commonly referred to as Superfund. However, these documents do not necessarily fulfill the requirements of other EPA Region I regulations such as those under the Resource Conservation and Recovery Act (RCRA) or other Federal, State, or local regulations. SI/ESI are intended to provide a preliminary screening of sites to facilitate EPA Region I’s assignment of site priorities. They are limited efforts and are not intended to supersede more detailed investigations.

The street address, coordinates, and contaminant locations presented in this report identify the general area in which the site is located. They represent one or more locations EPA considers to be part of the site based upon the screening information collected or generated in the course of this, or previous investigation(s). The EPA Site Assessment program is designed to identify “releases or threats of releases” of hazardous substances, and the focus of this investigation is on the release(s) or potential release(s), rather than precisely delineated site boundaries. A site is defined under the EPA Site Assessment program as where a hazardous substance has been “deposited, stored, placed, or otherwise come to be located.” EPA anticipates that the preliminary description of site boundaries will be refined as more information is developed regarding where the contamination has come to be located.

# 2.0 SITE DESCRIPTION

What to include in this section:

* How big is the site (usually expressed in acres)
* Where is it located
* What constitutes the site e.g. building, landfill, ground water
* Latitude/Longitude
* What is the site bounded by?
* Other CERCLIS sites within 1-mile radius
* Map/Book/Page/Lot number from the Town Assessor’s Office

# 3.0 OWNERSHIP, OPERATIONAL AND REGULATORY HISTORY

GOAL: Trace the history of the property back to when it was first developed or as far back in time as there is information to support statements made.

If there is a lot of history it is best represented as a table, please make use of tables as appropriate.

Owner/operator history and any state or federal regulatory involvement history for the site

# 4.0 WASTE CHARACTERISTICS AND CONCEPTUAL SITE MODEL

Waste Characteristics portion of this section:

* briefly summarize what confirmed sources are
* briefly summarize the spatial location of confirmed sources on site

Provide short descriptions of the sources/source locations:

Conceptual Site Model portion of this section:

* Brief Narrative Description of what the Conceptual Site Model (CSM) shows. The CSM (typically identified as Figure 3 Conceptual Site Model) will be included with the other figures in the figure section at the end of the report. A generalized format for the CSM figure will be provided by EPA.
* The CSM sources and exposure routes should be updated based on the sampling data obtained during the field sampling event.

**4.0 WASTE/SOURCE SAMPLING**

* Description of sampling locations and analysis
* Include a figure depicting approximate sample locations
* Include a summary of source sample information that supports the information laid out in table 1.
* Include a summary of contaminated source material that supports the information laid out in table 2.

**Table 1**

**Soil Sample Summary SITE NAME**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sample ID** | **Sample Location** | **Sample Depth (feet bgs)** | **Latitude North** | **Longitude West** | **Sample Description** |
|  |  |  |  |  |  |
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| **Notes:** | | | | | | |
| Samples collected by START personnel on May 21 and 22, 2012  Where not indicated, the density of the sample was not determined. | | | | | | |
| bgs = Below ground surface | | | | | | |
| ppmv = Parts per million by volume | | | | | | |
| PID = Photoionization detector  **Table 2**  **Summary of Analytical Results**  **Contaminated Soil Sample Summary SITE NAME**   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Sample**  **Location** | **Compound/ Element** | **Sample Conc.** | **Reference Conc.** | **Comments** | **CT Industrial Soil** | **CT GA-A PMC** | **CT Residential Soil** | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  | |  |  |  |  |  | |  |  |  |  |  |  |  |  |   **Notes:**   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Samples collected by START personnel on May 21 and 22, 2012  Reference Concentration is from sample GSB-10-0002, collected May 21, 2012 from the adjacent GioGraphics property. | | | | | | | | VOCs | = Volatile organic compounds | |  |  |  |  | | Conc. | = Concentration | |  |  |  |  | | REF | = Reference Concentration |  |  |  |  |  | | mg/Kg | = Milligrams per kilogram, equivalent to parts per million (ppm) | |  |  |  |  | | µg/Kg | = Micrograms per kilogram, equivalent to parts per billion (ppb) | | | |  |  | | J | = Concentration is an estimate based upon quality control (QC) discrepancies | | | |  |  | | CT Industrial Soil | = Appendix A to Sections 22a-133k-1 through k-3 of the Regulations of Connecticut State Agencies; Direct Exposure Criteria for Soil – Industrial Exposure Scenario | |  |  |  |  | | CT Residential Soil | = Appendix A to Sections 22a-133k-1 through k-3 of the Regulations of Connecticut State Agencies; Direct Exposure Criteria for Soil – Residential Exposure Scenario | |  |  |  |  | | CT GA-A PMC | = Appendix B to Sections 22a-133k-1 through k-3 of the Regulations of Connecticut State Agencies; Pollutant Mobility Criteria for Soil; GA, GAA Groundwater Aquifer | |  |  |  |  | | SPLP | = Promulgated standard is based upon Synthetic Precipitation Leaching Procedure results. | | | | | | | | | | | | |

# 5.0 GROUNDWATER MIGRATION PATHWAY

What to include in this section:

* Description of the site and regional geology, hydrogeology, meteorology
* Known private/public drinking water supplies within 4 mile radius of the site
* Include a Figure depicting the general locations of drinking water supply wells within 4 miles of the site and the nearest private drinking water supply wellAre there any monitoring wells installed on the site? If so, describe
* Is there a suspected or known release to ground water
* If there was a release what remedial steps were taken?
* Are there any water supplies impacted or threatened by a known or suspected release at the site?
* If there was any sampling performed at this site prior to this report please describe.
* Are there any transient populations or part time residents who may be threatened or impacted by a release?

Table 3 summarizes the public groundwater supply sources within 4-radial miles of the SITE NAME.

**Table 3**

**Public Groundwater Supply Sources Within 4-Radial Miles of SITE NAME (former)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Distance/  Direction from Site | Source  Name | Location  of Sourcea | Estimated  Population Served | | Source  Typeb |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

a Indicates Town in which well is located.

b Overburden, Bedrock, or Unknown.

Table 4 summarizes the estimated drinking water population served by groundwater sources within a 4-mile radius of the SITE NAME.

**Table 4**

**Estimated Drinking Water Populations Served by Groundwater Sources**

**Within 4-Radial Miles of SITE NAME**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Radial Distance from  SITE NAME  (miles) | Estimated Population  Served by  Private Wells | | Estimated Population Served by Public Wells | | Total Estimated Population Served by Groundwater Sources Within the Ring | |
| ≥ 0.00 to 0.25 |  |  |  |  |  |  |
| > 0.25 to 0.50 |  |  |  |  |  |  |
| > 0.50 to 1.00 |  |  |  |  |  |  |
| > 1.00 to 2.00 |  |  |  |  |  |  |
| > 2.00 to 3.00 |  |  |  |  |  |  |
| > 3.00 to 4.00 |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |

## 5.1 DRINKING WATER SAMPLE LOCATIONS

* Breifly describe the type, rationale and location of samples taken in narrative format and present in table 5.
* Include a figure of the sampling locations and data

**Table 5**

**Groundwater Sample Summary SITE NAME**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample ID** | **Sample Location** | **Sample Depth (feet bgs)** | **Latitude North** | **Longitude West** | | | **Sample Description** |
|  |  |  |  |  | | |  |
|  |  |  |  |  | | |  |
| **Notes:** | | | | |
| Samples Collected by START Personnel on June 7, 2012 | | | | | |
| Coordinates are given in decimal degrees; Datum = NAD83 | | | | | |
| bgs = Below ground surface | | | | | |
| MS/MSD - Matrix Spike/Matrix Spike Duplicate | | | | | |
| °C = degrees Celsius | | | | | |
| µS/cm - MicroSiemens per centimeter | | | | | |
| mv = Millivolts | | | | | |
| mg/L = Milligram per liter | | | | | |
| NTU =-Nephelometric turbidity units | | | | | |

## 5.2. DRINKING WATER ANALYTICAL RESULTS

* Breifly describe samples taken and any analytes detected. This description should support and match the information that is fully laid out in the table 6.

**Table 6**

**Summary of Analytical Results**

**Groundwater Samples for Site Name**

|  |  |  |  |  |  |  |  |  |
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**Notes:**

If a compound or element was not detected in the respective reference samples, that compound or element is designated by its relative difference above the laboratory sample quantitation limit (SQL). If the compound or element was rejected in the reference sample, that compound or element is compared against the SQL.

**Bold** values indicate the detected concentration exceeds applicable standards.

|  |
| --- |
| VOCs = Volatile Organic Compounds |
| REF = Reference Concentration |
| SQL = Sample Quantitation Limit |
| µg/L = Micrograms per liter, equivalent to parts per billion (ppb) |
| U = The substance was analyzed for, but was not detected. The associated numerical value is the laboratory quantitation limit. |
| MCL = Maximum Contaminant Level (Federal Drinking Water Standards) |
| CT SWPC = Connecticut Surface Water Protection Criteria Appendix D to Regulations of Connecticut State Agencies 22a-133k-1 through 22a-133k-3 |
| CT GA GWPC = Connecticut Groundwater Protection Criteria Appendix C to Regulations of Connecticut State Agencies 22a-133k-1 through 22a-133k-3 |
| CT Res. Vol. Criteria = Connecticut Residential Volatilization Criteria for Groundwater Appendix E to Regulations of Connecticut State Agencies 22a-133k-1 through 22a-133k-3 |
| NL = Not Listed. An applicable action level has not been promulgated. |

## 5.3. ATTRIBUTION AND DRINKING WATER RECEPTORS

* Describe receptors and routes of exposure to any contamination based on sampling data obtained. Also describe if there are not any risks for exposure
* Please refer the reader to the updated CSM to help strengthen this section

Include a summary paragraph at the end of the ground water section that includes:

* Is a release to the groundwater pathway suspected or known?
* Are any impacts to drinking water supplies suspected or known? If so, please summarize~~.~~
* Briefly describe any response action(s) taken

# 6.0 SURFACE WATER MIGRATION PATHWAY

What to include in this section:

* Describe the regional surface water hydrology; including 15-mile Target Distance Limit (TDL)
* Include a Figure depicting each reach of the 15-mile TDL and the locations of any fisheries or wetlands
* Describe site location within FEMA flood zones
* What is/are the probable point(s) of entry
* Flow characteristics of the waterbody(ies); please site USGS data
* Summarize any specific regulations or restrictions or habitats involving waterbodies in the 15 mile TDL
* Are there any fisheries? If so, describe fishery characteristics and any evidence of fishing
* Are there any threatened or endangered species or sensitive environments along the 15-mile TDL? If so, what?
* If there was any sampling performed at this site prior to this report please describe.
* Are there any transient populations or part time residents who may be threatened or impacted by releases to the surface water pathway?

Table 5 summarizes the surface water body characteristics located along the 15-mile downstream pathway.

**Table 5**

**Surface Water Bodies Along the 15-Mile Downstream Pathway**

**from SITE NAME**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Surface  Water Body | Descriptora | Length of Reach  (miles) | | Flow Characteristics (cfs)b | | Length of Wetland  Frontage  (miles) | |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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a Small to moderate stream 10-100 cfs. Moderate to large stream >100-1,000 cfs.

b Cubic feet per second.

The sensitive environments along the 15-mile downstream pathway are listed in Table 6.

**Table 6**

**Sensitive Environments Along the 15-Mile Downstream Pathway**

**from** **SITE NAME**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sensitive  Environment  Name | Sensitive  Environment  Type | Surface  Water Body | Downstream  Distance from PPE (miles) | | Flow Rate  at Environment  (cfs)a | |
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a Cubic feet per second

PPE = Probable Point of Entry

## 6.1 SURFACE WATER SAMPLING LOCATIONS

* Breifly describe the type, rationale and location of samples taken in narrative format and present in table 7.
* Include a figure of the sampling locations

**Table 7**

**Surface Water Sample Summary SITE NAME**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample ID** | **Sample Location** | **Sample Depth (feet bgs)** | **Latitude North** | **Longitude West** | | | **Sample Description** |
|  |  |  |  |  | | |  |
|  |  |  |  |  | | |  |
| **Notes:** | | | | |
| Samples Collected by START Personnel on June 7, 2012 | | | | | |
| Coordinates are given in decimal degrees; Datum = NAD83 | | | | | |
| bgs = Below ground surface | | | | | |
| MS/MSD - Matrix Spike/Matrix Spike Duplicate | | | | | |
| °C = degrees Celsius | | | | | |
| µS/cm - MicroSiemens per centimeter | | | | | |
| mv = Millivolts | | | | | |
| mg/L = Milligram per liter | | | | | |
| NTU =-Nephelometric turbidity units | | | | | |

## 6.2 SURFACE WATER ANLYTICAL RESULTS

* Breifly describe samples taken and any analytes detected. This description should support and match the information that is fully laid out in the table 8.

**Table 8**

**Summary of Analytical Results**

**Surface Water Samples for Site Name**

|  |  |  |  |  |  |  |  |  |
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**Notes:**

If a compound or element was not detected in the respective reference samples, that compound or element is designated by its relative difference above the laboratory sample quantitation limit (SQL). If the compound or element was rejected in the reference sample, that compound or element is compared against the SQL.

**Bold** values indicate the detected concentration exceeds applicable standards.

|  |
| --- |
| VOCs = Volatile Organic Compounds |
| REF = Reference Concentration |
| SQL = Sample Quantitation Limit |
| µg/L = Micrograms per liter, equivalent to parts per billion (ppb) |
| U = The substance was analyzed for, but was not detected. The associated numerical value is the laboratory quantitation limit. |
| MCL = Maximum Contaminant Level (Federal Drinking Water Standards) |
| CT SWPC = Connecticut Surface Water Protection Criteria Appendix D to Regulations of Connecticut State Agencies 22a-133k-1 through 22a-133k-3 |
| CT GA GWPC = Connecticut Groundwater Protection Criteria Appendix C to Regulations of Connecticut State Agencies 22a-133k-1 through 22a-133k-3 |
| CT Res. Vol. Criteria = Connecticut Residential Volatilization Criteria for Groundwater Appendix E to Regulations of Connecticut State Agencies 22a-133k-1 through 22a-133k-3 |
| NL = Not Listed. An applicable action level has not been promulgated. |

## 6.3 ATTRIBUTION AND SURFACE WATER RECEPTORS

* Describe receptors and routes of exposure to any contamination based on sampling data obtained. Also describe if there are not any risks for exposure
* Please refer the reader to the updated CSM to help strengthen this section

Include a summary at the end of the surface water section with the same type of information

* Is a release to the surface water pathway known or suspected?
* Any receptors potentially or actually impacted? If so, what?
* Have any remedial actions been taken?

# 7.0 SOIL EXPOSURE PATHWAY

What to include in this section:

* Release to soil known or suspected?
* Are there any areas of contaminated surface soil or other source areas which may pose a threat of direct exposure within 200 feet of an occupied building?
* Have there been any response actions taken?
* Describe site security and access points for vehicle and foot traffic, trespassing, vandalism
* Where is the nearest residence?
* Are there any schools and day-care facilities within one mile? If so, describe
* Are there any sensitive environments or habitats on the site? If so, describe
* What is the population within 1-mile?
* If there was any sampling performed at this site prior to this report please describe.
* Are there any transient populations or part time residents that may be exposed to site wastes?

## 7.1 SOIL PATHWAY SAMPLE LOCATIONS

* Breifly describe the type, rationale and location of samples taken in narrative format and present in table X.
* Include a figure of the sampling locations

## 7.2 SOIL PATHWAY ANALYTICAL RESULTS

* Breifly describe samples taken and any analytes detected. This description should support and match the information that is fully laid out in the table X.

## 7.3 ATTRIBUTION AND SOIL PATHWAY RECEPTORS

* Describe receptors and routes of exposure to any contamination based on sampling data obtained. Also describe if there are not any risks for exposure
* Please refer the reader to the updated CSM to help strengthen this section

Include a summary at the end of the soil section with the same type of information

* Is a release to the soil exposure pathway known or suspected?
* Any receptors potentially or actually impacted? If so, what?
* Have there been any remedial actions?

# 8.0 AIR MIGRATION PATHWAY

What to include in this section

* Release to air known or suspected?
* Has sampling been performed to document an air release?
* Have there been any response actions taken?
* Describe and quantify the on-site population
* Describe location of schools/day care within 4 mile radius.
* Describe sensitive environments habitats available to the pathway and within 4 mile radius.

Table 11 summarizes the estimated population within 4-radial miles of the SITE NAME.

**Table 11**

**Estimated Population Within 4-Radial Miles of**

**SITE NAME**

|  |  |  |
| --- | --- | --- |
| Radial Distance from SITE NAME (miles) | Estimated Population | |
| On Site |  |  |
| > 0.00 to 0.25 |  |  |
| > 0.25 to 0.50 |  |  |
| > 0.50 to 1.00 |  |  |
| > 1.00 to 2.00 |  |  |
| > 2.00 to 3.00 |  |  |
| > 3.00 to 4.00 |  |  |
| TOTAL |  |  |

Table 12 summarizes the sensitive environments located within 4-radial miles of the TSY property.

**Table 12**

**Sensitive Environments Located Within 4-Radial Miles**

**of the SITE NAME**

|  |  |
| --- | --- |
| Radial Distance from SITE NAME (former) | Sensitive Environment |
| On a source |  |
| > 0.00 to 0.25 |  |
| > 0.25 to 0.50 |  |
| > 0.50 to 1.00 |  |
| > 1.00 to 2.00 |  |
| > 2.00 to 3.00 |  |
| > 3.00 to 4.00 |  |

# 8.1 AIR PATHWAY SAMPLE LOCATIONS

* Breifly describe the type, rationale and location of samples taken in narrative format and present in table X.
* Include a figure of the sampling locations

## 8.2 AIRPATHWAY ANLYTICAL RESULTS

* Breifly describe samples taken and any analytes detected. This description should support and match the information that is fully laid out in the table X.

## 8.3 ATTRIBUTION AND AIR PATHWAY RECEPTORS

* Describe receptors and routes of exposure to any contamination based on sampling data obtained. Also describe if there are not any risks for exposure
* Please refer the reader to the updated CSM to help strengthen this section

Include a summary at the end of the air section with the same type of information

* Likelihood or suspected or known release?
* Any receptors potentially or actually impacted? If so, what?
* Have there been any remedial actions?

# 9.0 DATA QUALITY

## 9.1 DATA QUALITY ASSESSMENT

## 9.2 DATA QUALITY OBJECTIVES

# 10.0 SUMMARY & CONCLUSIONS

Summary:

* Include all the summary paragraphs from the end of each pathway for the summary segment of this section.

Conclusion:

Based on the information presented in this SI report a release to the (insert pathway name(s)) is documented/suspected. Identify any known or suspected receptors of the release(s)

**SITE NAME**

# FIGURES

Figure 1. Site Locus

What to include in the site locus:

* Site in the middle of the 1-mile radius. Actual site outline to the best you can, on a PA it may be a dot.
* 1-mile radius around the site. The radius should match the shape of the site outline.
* Locations of nearest public water system(s) and private well(s) ~~if~~ within one mile
* Inset map showing where the site is located within the state
* Nearest residence if within 1mile
* Label major features, if they are not labeled clearly

Figure 2. Site Plan

What to include in the Site Plan:

* Source areas
* Property boundaries
* Water bodies on or abutting site
* Drinking water or monitoring wells
* Buildings and other relevant site features
* Previous sampling locations \*but if there are a lot of locations and it makes the figure hard to read create a new figure for this information

Figure 3. Conceptual Site Model

Figure 4. 15-mile Target Distance Limit

What to include in the 15-mile TDL:

* Clearly label the water bodies and other major features
* Fisheries
* Flow direction
* Probable Point of Entry
* Drinking water intakes
* Sensitive environments e.g. wetlands

**SITE NAME**

# REFERENCES

* References in the narrative should use a number system and look like: 1, pp 24-32
* Tables also need to be properly referenced

References in the Reference section should be in the format below:

[1] Author. Year. Title or reference. Date.

[2] Author. Year. Title or reference. Date.

**ATTACHMENT A**

**SITE NAME**

**PHOTOGRAPH LOG**

\*\*\*\*\*Photolog should be limited to pictures which represent unique or relevant site features\*\*\*\*\*

**On-Site Reconnaissance Photograph Log: Site Name**

**Site City, State**

|  |  |
| --- | --- |
| O:\Active\83090.00 Melville\Photos\June 23-24, 2010 Photos\DSCF0002.JPG  Descriptive Text Entered Here | O:\Active\83090.00 Melville\Photos\June 23-24, 2010 Photos\DSCF0002.JPG  Descriptive Text Entered Here |
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