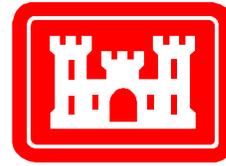


Appendix L

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT



**US Army Corps
of Engineers**
Huntington District



**PHASE I ENVIRONMENTAL SITE ASSESSMENT
BLUESTONE DAM
CONTRACTOR WORK LIMITS (CWL)
DAM SAFETY MODIFICATION STUDY
HINTON, WEST VIRGINIA
JUNE 2016**

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
BLUESTONE DAM
CONTRACTOR WORK LIMITS (CWL)
FOR DAM SAFETY MODIFICATION STUDY
HINTON, WV
JUNE 2016**

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**PHASE I ENVIRONMENTAL SITE ASSESSMENT
BLUESTONE DAM
CONTRACTOR WORK LIMITS (CWL)
FOR DAM SAFETY MODIFICATION STUDY
HINTON, WV
JUNE 2016**

Acronym List

AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
CELRH EC-CE	Environmental and Remediation Section of the Huntington District, United States Army Corps of Engineers
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CWL	Contractor Work Limits
DSMS	Dam Safety Modification Study
EDR	Environmental Data Resources
EM	Engineering Manual
EPCRA	Emergency Planning and Community Right to Know Act
ER	Engineering Regulations
ERGO	Environmental Review Guide for Operations
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act
FINDS	Facility Index System
HTRW	Hazardous, Toxic, and Radioactive Waste
LUST	Leaking Underground Storage Tank
NPL	National Priorities List
QCP	Quality Control Plan
RCRIS-LQG	Resource Conservation and Recovery Information System – Large Quantity Generators
RCRIS-SQG	Resource Conservation and Recovery Information System – Small Quantity Generators
RCRIS-TSD	Resource Conservation and Recovery Information System – Treatment, Storage and Disposal Facilities
REC	Recognizable Environmental Concerns
SHWS	State Hazardous Waste Sites
SSHP	Site Safety and Health Plan
SWF/LF	Solid Waste Facility/Landfill Facilities
TCLP	Toxicity Characteristic Leaching Procedure
USACE	United States Army Corps of Engineers
UST	Underground Storage Tank

EXECUTIVE SUMMARY

The U.S. Army Corps of Engineers (USACE) conducted a Phase I Environmental Site Assessment (ESA) on the Contractor Work Limits (CWL) for the Dam Safety Modification Study (DSMS) being conducted for Bluestone Dam. The DSMS will determine what construction activities will be performed to alleviate deficiencies of the Bluestone Dam stilling basin, designated as Phase 5 construction. The purpose of the Phase I ESA was to identify the potential presence of hazardous, toxic, or radioactive waste (HTRW) contamination in the CWL. The investigation was performed in accordance with ASTM E 1527-15 and 1528-14 Standards, USACE Huntington District ISO 9001 procedures, and USACE HTRW policies.

Environmental professionals conducted the field investigation of the proposed CWL in March and May 2016. During the physical inspection, the ground surface of the area was examined for signs of contamination. Specific indicators of possible environmental contamination include stained soil, stressed vegetation, surface debris, underground storage tank (UST) fill caps or vent lines, and unusual ground depressions or formations. The site reconnaissance also included the assessment of the potential for contamination from activities on adjacent areas. Color photographs of the characteristics of the area were taken during the site assessment.

Title ownership was researched on the non-Federal portion of the CWL between State Route 20 and the New River downstream of the dam. The bulk of the property in the CWL is owned by the Federal Government and has been since the 1940s. Interviews were conducted with USACE Bluestone Dam project personnel to obtain specific information about past activities and current conditions on the sites. Records of regulatory agencies listing recognized environmental conditions in connection with the properties were accessed through Environmental Data Resources Inc., a commercial database retrieval company located in Milford, CT. The current US Geological Survey (USGS) 7.5-minute topographic map and historic USGS topographic maps were obtained and reviewed as part of the ESA.

Based on this assessment, there are no environmental concerns that would impact construction activities in the present CWL. It is recommended that current Phase 3 and Phase 4 construction activities be monitored for any incidents that might environmentally impact future construction activities on the USACE project. If the design plans undergo further changes to include any additional areas for Phase 5 construction or mitigation, then those properties will have to be evaluated for any HTRW concerns.

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
BLUESTONE DAM
CONTRACTOR WORK LIMITS (CWL)
DAM SAFETY MODIFICATION STUDY
HINTON, WV
JUNE 2016**

1. INTRODUCTION

The U.S. Army Corps of Engineers (USACE) conducted a Phase I Environmental Site Assessment (ESA) on the Contractor Work Limits (CWL) for the Dam Safety Modification Study (DSMS) of Bluestone Dam. The DSMS and subsequent construction activities will address the deficiencies of the current stilling basin. The purpose of the Phase I ESA was to identify the potential presence of hazardous, toxic, or radioactive waste (HTRW) contamination in the CWL. The investigation was performed in accordance with ASTM E 1527-15 and 1528-14 Standards, USACE Huntington District ISO 9001 procedures, and USACE HTRW policies.

1.1 Project History

The Bluestone Dam is located near Hinton in Summers County, West Virginia, on the New River, one mile upstream from the confluence with the Greenbrier River. Bluestone Dam was constructed in the 1940's. The original design intent was to provide flood control for the Kanawha River Basin and hydroelectric power generation capacity. At the height of World War II, construction efforts were temporarily suspended because of labor and steel shortages. Once construction was re-initiated, the hydroelectric power function of the dam was revisited. It was decided at that time to only install the six, 19-foot diameter penstocks and indefinitely delay the powerhouse and turbine construction. The dam is a straight, concrete gravity structure with a maximum height above stream channel of about 165 feet. The main body of the dam consists of the left and right abutment sections, the spillway section, assembly bay section, powerhouse intake section, and the non-overflow section. The original conservation pool was 1,490 feet assuming a hydroelectric function. Because the dam currently serves as a flood control structure only, the operating pools are 1,406 feet during winter months and 1,410 feet during summer months. The pool of record for the facility is elevation 1,506 feet, which occurred during a storm event in 1960.

In 1998, the Huntington District received approval to modify the dam to safely pass a Probable Maximum Flood (PMF) event. Construction efforts under the approved plan have been divided into manageable contracts. Five construction contracts have been awarded to date. Phase 1, Phase 2A, and Phase 2B construction efforts are complete. Phase 3 and Phase 4 are currently ongoing. Following are brief descriptions of the work within each of the current construction phases.

- a) Phase 1 – Construction of mass concrete thrust blocks at the toe of the penstock monoliths and 3 hydraulically actuated bulkheads were installed at the end of the penstock to allow for the release of additional discharge.
- b) Phase 2A – Installation of a swing gate closure across State Route 20, east abutment gravity wall and other miscellaneous items.
- c) Phase 2B – Installation of 216 high strength steel strand anchors in the dam and 3 hydraulically actuated bulkheads which completed the installation of the bulkheads from Phase 1.
- d) Phase 3 - Construction of a penstock discharge scour protection stilling basin.
- e) Phase 4 - Installation of 278 high strength steel strand anchors in the dam.
- f) Phase 5 - Current DSMS to address remaining deficiencies.

1.2 Project Overview

The DSMS and subsequent Phase 5 construction will address the potential scouring of the current unlined stilling basin, and confinement of the outflow through the spillway during the PMF. The CWL will allow access to the spillway from both sides of the river downstream of the dam, and the backside of the dam if required.

1.3 Limitations of Investigation

The investigations were performed based solely upon information available to the USACE Huntington District, Environmental and Remediation Section (CELRH-EC-CE) at the time of the investigation. Services for the Phase I ESA did not include sampling, testing, and/or analyses to conclusively ascertain that contamination exists or is absent at or near the project site. Information concerning environmentally-sensitive incidents was gathered based on state and federal databases available for public review and interviews with current owners, occupants, utility company personnel, and/or regulatory agency personnel. No warranties or certifications can be provided by CELRH-EC-CE concerning the accuracy or completeness of all the information reviewed during the investigations.

The determination of potential HTRW contamination should not be considered as a definite assertion that an environmentally-sensitive condition actually exists. The conclusions and recommendations presented herein are based on information gathered using that degree of care and skill ordinarily exercised under similar circumstances by competent members of the environmental profession and no warranties are expressed or implied.

Furthermore, no ESA can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Conducting a Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions and this assessment recognizes reasonable limits of time and cost. In addition, appropriate inquiry does not mean an exhaustive assessment of a property. At some point, the

cost of information obtained or the time required to gather it outweighs the usefulness of the information and in fact may be a material detriment to the orderly completion of transactions. Furthermore, subsequent ESAs should not be considered valid standards to judge the appropriateness of any prior assessment based on hindsight, new information, use of developing technology or analytical techniques, changing regulatory or industry standards, or other factors.

1.4 Scope of Work and Investigative Procedures

In accordance with USACE HTRW Policy and current ISO 9001 procedures and work instructions, a Quality Control Plan (QCP) and a Site-Specific Safety and Health Plan (SSHP) were developed and implemented during all phases of this investigation. Procedures and documentation of the QCP are enclosed in Appendix F. A copy of the SSHP is located in Appendix G.

The following sections describe the general procedures used for the scope of this investigation. Site-specific findings are discussed in Section 2.0 below.

1.4.1 Site Assessment

The fieldwork for the investigation consisted of site visits to observe the conditions of the properties with regard to recognizable environmental concerns (RECs). Environmental professionals physically investigated the area on 24 March 2016, and 18 May 2016. During the physical inspection, the ground surface was examined for signs of contamination. Specific indicators of possible environmental contamination include stained soil, stressed vegetation, surface debris, underground storage tank (UST) fill caps or vent lines, and unusual ground depressions or formations. The site reconnaissance also included the assessment of the potential for contamination on the property due to activities on adjacent properties. Site assessment interviews were completed for this area and are located in Appendix H. Color photographs of the area and of features considered to be possible RECs were taken to supplement written records of the visual observations. These photographs are located in Appendix I.

1.4.2 Interviews

The field investigations were supplemented by interviewing USACE personnel who work at Bluestone Dam. These interviews were performed in order to obtain information about current and previous usage of the properties and about activities associated with environmentally sensitive incidents. Interviews with project personnel are documented in Appendix H.

The following individuals were interviewed:

- Dean Bonifacio, Park Manager, Bluestone Dam
- Whitfield Lance, Construction Inspector, Bluestone Construction RE Office
- John Atkins, Construction Inspector, Bluestone Construction RE Office

1.4.3 Records of State and Federal Agencies

A site map showing the locations of the area was used to obtain federal and state records of environmentally-sensitive incidents and activities in the immediate vicinity of the project area. Federal and state databases were accessed through a commercial database retrieval company.

Records of regulatory agencies listing RECs in connection with the properties were accessed through Environmental Data Resources (EDR), Inc., a commercial database retrieval company located in Milford, Connecticut. The information ascertain provided by EDR is located in Appendix C. Results of the EDR search of available (“reasonable ascertainable”) government records in the proximity of these tracts for the following databases are presented in the following sections. Detailed information regarding the nature and function of these databases is included with the search report.

The target property was found in the following databases:

- RCRA-CESQG – Resource Conservation and Recovery Act Conditionally Exempt Small Quantity Generator
- FINDS - Facility Index System
- ECHO – EPA Enforcement and Compliance History Online
- NY MANIFEST
- WV UST

The first three databases indicate that Bluestone Dam is listed under these programs; there is no present violations, or non-compliance under these programs. Bluestone Dam is listed under the NY Manifest program for disposing of lead contaminated paint removed from the structure to a NY hazardous waste landfill in 1996. The WV UST database indicates that at one time, Bluestone Dam had three underground storage tanks at its facilities. These tanks were removed and the site closed out in 1992.

No mapped sites were found within the search radius around the target property for the following databases:

- Federal
 - NPL – National Priority List
 - Proposed NPL – Proposed National Priority List Sites
 - NPL LIENS – Federal Superfund Liens
 - Delisted NPL – National Priority List Deletions
 - FEDERAL FACILITY – Federal Facility Site Information listing
 - SEMS – Superfund Enterprise Management System
 - SEMS-ARCHIVE – Superfund Enterprise Management System Archive
 - CORRACTS – corrective Action Report
 - CERCLIS – Comprehensive Environmental Response, Compensation, and Liability Information System

- CERC-NFRAP – CERCLIS No Further Remedial Action Planned
- LIESN 2 – CERCLA Lien Information
- CORRACTS – Corrective Action Report
- RCRA-TSDF - Resource Conservation and Recovery Act Treatment, Disposal, or Storage Facility
- RCRA-LQG – Resource Conservation and Recovery Act Large Quantity Generator
- RCRA-SQG - Resource Conservation and Recovery Act Small Quantity Generator
- LUCIS – Land Use Control Information System
- US ENG CONTROLS – Engineering Controls Sites List
- US INST CONTROL – Sites with Institutional Controls
- ERNS – Emergency Response Notification System
- RCRA-NonGen - Resource Conservation and Recovery Act Non Generators
- FUDS – Formerly Used Defense Sites
- SCRDRYCLEANERS – State Coalition for Remediation of Drycleaners Listing
- US FIN ASSUR – Financial Assurance Information
- EPA WATCH LIST – EPA Watch List
- 2020 COR ACTION – 2020 Corrective Action Program List
- TSCA – Toxic Substances Control Act
- TRIS – Toxic Chemical Release Inventory System
- SSTS – Section 7 Tracking System
- ROD – Record of Decision
- RMP – Risk Management Plans
- RAATS – RCRA Administrative Action Tracking System
- PRP – Potentially Responsible Parties
- PADS – PCB Activity Database System
- ICIS – Integrated Compliance Information System
- FTTS – FIFRA/TSCA Tracking System
- MLTS – Material Licensing Tracking System
- COAL ASH DOE – Steam-Electric Plant Operation Data
- COAL ASH EPA – Coal Combustion Residues Surface Impoundments List
- PCB TRANSFORMER – PCB Transformer Registration Database
- RADINFO – Radiation Information Database
- HIST FTTS – FIFRA/TSCA Tracking System Administrative Case Listing
- DOT OPS – Incident and Accident Data
- CONSENT – Superfund (CERCLA) Consent Decrees
- INDIAN RESERV – Indian Reservations
- FUSRAP – Formerly Utilized Sites Remedial Action Program
- UMTRA – Uranium Mine Tailings Sites
- LEAD SMELTERS – Lead Smelter Sites

- US AIRS – Permitted Facility and Emissions Listing
- US MINES – Mines Master Index File
- UXO – Unexploded Ordinance Sites
- DOCKET HWC – Hazardous Waste Compliance Docket Listing

- State and Local Records
 - WV SWF/LF – List of M.S.W. Landfills/Transfer Station Listing
 - WV LCP – Landfill Closure Program
 - WV LUST – Leaking Underground Storage Tanks
 - INDIAN LUST – LUST on Indian Land
 - FEMA UST – Underground Storage Tank Listing
 - WV AST – Aboveground Storage Tanks
 - INDIAN UST – Underground Storage Tanks on Indian Land
 - WV INST CONTROL – Sites with Institutional Controls
 - WV VCP – Voluntary Remediation Sites
 - INDIAN VCP – Voluntary Cleanup Priority Listing
 - WV BROWNFIELDS – Brownfields Sites Listing
 - US BROWNFIELDS – A Listing of Brownfields Sites
 - INDIAN ODI – Report of the Status of Open Dumps on Indian Lands
 - ODI – Open Dump Inventory
 - DEBRIS REGION 9 – Torres Martinez Reservation Illegal Dump Site Locations
 - US HIST CDL – Delisted National Clandestine Laboratory Register
 - WV CDL – Drug Lab Site Locations
 - US CDL – National Clandestine Laboratory Register
 - LIENS 2 – CERCLA Lien Information
 - HMIRS – Hazardous Material Information Reporting System
 - WV SPILLS – Spills Listing
 - WV AIRS – Permitted Facility and Emissions Listing
 - WV COAL ASH – Coal Ash Landfills
 - WV DRYCLEANERS – Listing of Drycleaner Locations
 - WV Financial Assurance – Financial Assurance Information Listing
 - WVNPDES – Wastewater Discharge Permits Listing
 - WVUIC – Underground Injection Wells
 - FUELS PROGRAM – EPA Fuels Program Registered Listing

- EDR Proprietary Historical Databases
 - EDR MGP – EDR Proprietary Manufactured Gas Plants
 - EDR Historical Auto Stations – EDR Proprietary Historic Gas Stations
 - EDR Historical Cleaners – EDR Proprietary Historic Dry Cleaners

- EDR Recovered Government Archives
 - WV RGA LF – Recovered Government Archive Solid Waste Facilities List

- WV RGA LUST – Recovered Government Archive Leaking Underground Storage Tank
- Additional Environmental Records
 - DOD – Federally owned or administered lands, administered by the Department of Defense, that have any area equal or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Due to poor or inadequate address information, two sites could not be plotted by EDR. Unplottable sites were reported in the WV NPDES, FINDS, and ECHO databases. Both are listed as BLUESTONE DAM – DAM SAFETY ASSURANCE. The WV NPDES indicates a water discharge permit required by the Phase 3 Contractor during construction. The FINDS and ECHO are listings for the Contractors during the Dam Safety Assurance construction. There is no present violations, or non-compliance under these programs. Information collected on the orphan sites is summarized in the EDR search reports in Appendix C.

1.4.4 Ownership History

In accordance with CELRH-EC-CE ISO 9001 Work Instruction 3.36.2, Section 6.4, ownership histories were developed for the properties not owned by the Federal government. These properties are located between State Route 20 and the New River downstream of the dam, on the left descending bank. Except for the time that the properties were owned by the State of West Virginia for the relocation of State Route 20 during construction of Bluestone Dam, they have been owned by private individuals. These properties had no development prior to Coastal Drilling leasing the area for an office and warehouse during Phase 4 construction.

1.4.5 Other Phase I HTRW Investigation Reports

A Phase I ESA was performed by CELRH-EC-CE in February 1998 prior to the initial construction activities (Phase 1); this report is out of date, requiring the new ESA. No Phase II Investigations have been performed in this area.

1.4.6 ERGO Report

An environmental compliance review of Bluestone Dam was conducted on 8-10 August 2006 by a multidisciplinary team from the Huntington District based upon the Environmental Review Guide for Operations (ERGO) manual (January 1994), developed by Headquarters, US Army Corps of Engineers (HQUSACE). This review is to ensure that routine business of the Operations project are in compliance with all Federal, State and local environmental laws, regulations, and directives. This review provides a record of the environmental health of the project on the record date, as well as providing a basis against which progress can be measured. The ERGO Report is located in Appendix D.

The environmental compliance review considered twelve major environmental compliance categories, with special emphasis to those pertinent to the site. The twelve categories are:

- Category I – Air Emissions Management
- Category II – Cultural & Historic Resources Management
- Category III – Hazardous Materials Management
- Category IV – Hazardous Waste Management
- Category V – Natural Resource Management
- Category VI – Pesticide Management
- Category VII – Petroleum, Oil, & Lubricant Management
- Category VIII – Solid Waste Management
- Category IX – Special Pollutants Management: Radon, PCBs, Asbestos & Noise
- Category X – Underground Storage Tanks (USTs) Management
- Category XI – Waste Water Management
- Category XII – Water Quality Management

No significant, major or minor findings of non-compliance were noted at Bluestone Dam during the review. The scrapyards mentioned under Category VIII were located outside the CWL and have been removed. The outgranted facilities noted in the report (AEP flyash disposal area, Bluestone raw water treatment plant, and the wildlife management area) are not located within the CWL. The next ERGO review should be performed mid-year of 2016.

1.4.7 Historical Mapping

The purpose of a historical records search is to determine the past usage of each site. Aerial photographs were obtained for this report (included in Appendix B) dated 2011, 2009, 2007, 1996, 1990, 1976, 1967, and 1960. The aerial photographs do not indicate any present or historic activities that would cause HTRW concerns in the CWL. Historical topographic maps (included in Appendix B) dated 2014, 1998, 1976, 1968, 1914, 1912, 1892, and 1887 were obtained and reviewed. The 1914, 1912, 1892, and 1887 topographic maps show the area prior to Bluestone Dam being constructed. The other topographic maps (2014, 1998, 1976, and 1968) do not indicate any present or historic activities that would cause HTRW concerns in the CWL.

1.4.8 Orphan Sites

Due to poor or inadequate address information, two sites could not be plotted by EDR. Unplottable sites were reported in the WV NPDES, FINDS, and ECHO databases. Both are listed as BLUESTONE DAM – DAM SAFETY ASSURANCE. The WV NPDES indicates a water discharge permit required by the Phase 3 Contractor during construction. The FINDS and ECHO are listings for the Contractors during the Dam Safety Assurance construction. Information collected on the orphan sites is summarized in the EDR search reports in Appendix C.

1.4.9 Development of Conclusions and Recommendations

Using the investigative tools outlined above, conclusions and recommendations regarding the potential for contamination were made for this property. Recommendations may include Phase II(a) and/or other intrusive investigations in order to conclusively determine contamination presence. Based on the information obtained, the area was also evaluated for signs which may exhibit potential contamination that would require mitigation measures in accordance with federal and state law, but for which additional HTRW investigations are not recommended at this time.

2. INVESTIGATIVE FINDINGS, CONCLUSIONS, and RECOMMENDATIONS

Following the procedures outlined above, a Phase I ESA was performed on the Contractor Work Limits (CWL) for the Bluestone Dam DSMS. The DSMS and subsequent construction activities will address the deficiencies of the current stilling basin. In accordance with Corps of Engineers policy for HTRW investigations, a Quality Control Plan (QCP) and Site-Specific Safety and Health Plan (SSHP) were developed and implemented prior to and during all phases of this ESA. Procedures and documentation of the QCP are enclosed in Appendix F. A copy of the SSHP is in Appendix G. Records of the interviews and site assessment questionnaires can be found in Appendix H and color photos from the site visits are located in Appendix I. The following sections summarize the findings, conclusions, and recommendations for the CWL.

2.1 CWL Area

The CWL area is outlined on Figure 3 in Appendix A and takes in all of the property required for a Contractor to address the deficiencies of the current stilling basin. The upstream portion of the CWL includes the area immediately behind the dam, the left descending bank upstream to the Corps boat ramp and dock, and the wide areas adjacent to State Route 20 between the boat ramp and present RE Office (Appendix I, Photos BLN01 to BLN06). The downstream portion of the CWL includes the areas authorized by the Corps for the Phase 3 construction exclusive of the Emergency Spillway (Appendix I, Photos BLN07 to BLN16), Phase 4 construction (Appendix I, Photos BLN17 to BLN18), the properties located adjacent to State Route 20 downstream of the dam on the left descending bank (Appendix I, Photos BLN19 to BLN21), and the parking area adjacent to the dam on the left abutment (Appendix I, Photo BLN22).

2.1.1 Phase I Investigation Results

On 24 March 2016, and 18 May 2016, site visits were made to assess the CWL for Phase 5 construction. Site mapping is included in Appendix A. Site photos are included in Appendix I. the following observations were noted during the site visit.

The Phase 3 Contractor, Brayman Construction Company, operates on the right bank of the New River downstream of the dam. During the site visit, a petroleum containment area was observed (Appendix I, Photos BLN13 and BLN14). No spills or stained areas were observed outside of the containment area. Several diesel ASTs were observed around the emergency stilling basin utilized to refuel the compressors, generators, and cranes (Appendix I, Photos BLN15 and BLN16). No staining was observed near the ASTs.

The Phase 4 Contractor, Coastal Drilling, operates on the left bank of the New River downstream of the dam. The Contractor's CWL includes the left bank adjacent to the stilling basin and the spillway section of the dam (Appendix I, Photo BLN17). During the site visit, no environmental concerns were observed in this area.

A portion of the CWL includes property between State Route 20 and the New River from the State Route 3 Bridge to the fishing pier road (Appendix I, Photos BLN19 to BLN21). The property is comprised of four separate tracts owned by the following:

- State Road Commission (State of WV); Map 11, parcel 158
- Jerry and Nannie Kirk; Map 11, parcel 150
- John and Wilma Angotti; Map 11, parcel 150.1
- Mary Meadows; Map 11, parcel 159

A map of the tracts is located in Appendix A (Figure 4). The ownership histories are located in Appendix E. These properties have always been owned by private individuals, except during construction of Bluestone Dam when the State of WV purchased the property to relocate State Route 20. Prior to the Phase 4 construction activities, these properties were undeveloped. Coastal Drilling purchased easements on these properties to place their office trailers, warehouse, and fenced yard (Appendix I, Photos BLN19 and BLN20). During the site visit, no environmental concerns were observed on these properties.

Dean Bonifacio is Park Manager for Bluestone Dam and has worked there since 1990. During his interview he stated that there is currently one 250 gallon diesel AST inside the dam. This AST is present for the emergency generator. Dean stated that there has never been a diesel spill associated with this AST. When questioned about the UST removal in 1992, Dean stated that he was working there when the three USTs were removed next to the maintenance building. At the time of removal, no evidence of contamination was apparent in the tank pit, and confirmation samples taken at the time came back clean. Two Construction Inspectors, Whitfield Lance and John Atkins, were interviewed to determine if any of the past or current construction contractors caused any concerns. Neither Whitfield nor John could recall any incidents from past or current contractors that would environmentally impact the proposed Phase 5 CWL.

Mapping was obtained from EDR for the project area and a review of reasonably ascertainable standard historical sources was performed as part of this investigation. The purpose of this historical record search is to determine the past uses of the project area. Aerial photographs, and USGS 7.5-minute historical topographic maps showing the project area were available and reviewed. Copies of these maps are included in Appendix B. The aerial photos and topographic maps did not indicate any past or present activities that would cause HTRW concerns within the project area.

Review of the records of regulatory agencies listing recognized environmental conditions were obtained for the project area from EDR. The target property was found in the following databases:

- RCRA-CESQG – Resource Conservation and Recovery Act Conditionally Exempt Small Quantity Generator
- FINDS - Facility Index System
- ECHO – EPA Enforcement and Compliance History Online
- NY MANIFEST

- WV UST

The first three databases indicate that the Bluestone Dam is listed under these programs; there is no present violations, or non-compliance under these programs. Bluestone Dam is listed under the NY Manifest program for disposing of lead contaminated paint removed from the structure to a NY hazardous waste landfill in 1996. The WV UST indicates that at one time, Bluestone Dam had three underground storage tanks at its facilities. These tanks were removed and the site closed out in 1992. No mapped sites were found within the search radius around the target property that would be an environmental concern. Due to poor or inadequate address information, two sites could not be plotted by EDR. Unplottable sites were reported in the WV NPDES, FINDS, and ECHO databases. Both are listed as BLUESTONE DAM – DAM SAFETY ASSURANCE. The WV NPDES is a water discharge permit required by the Phase 3 Contractor during construction. The FINDS and ECHO are listings for the Contractors during the Dam Safety Assurance construction.

2.1.2 Recommendation for Bluestone Dam CWL Area

Based on the investigative findings and the planned activities for this DSMS, there are no environmental concerns that would impact construction activities in the proposed CWL. It is recommended that current Phase 3 and Phase 4 construction activities be monitored for any incidents that might environmentally impact future construction activities on the USACE project.

If the design plans undergo further changes to include any additional areas for Phase 5 construction or mitigation, then those properties will have to be evaluated for any HTRW concerns.

3. REFERENCES

[ASTM E 1527-15, Standard Practices for Environmental Site Assessments: Phase I Environmental Site Assessment Process.](#)

[ASTM E 1528-14, Standard Practices for Environmental Site Assessments: Transaction Screening Process.](#)

[EM 385-1-1, Safety and Health Requirements Manual](#)

[ER 1165-2-132, Hazardous, Toxic, and Radioactive Waste \(HTRW\) Guidance for Civil Works Projects.](#)

APPENDIX A
PROJECT MAPPING



BLUESTONE DAM

FIGURE 1

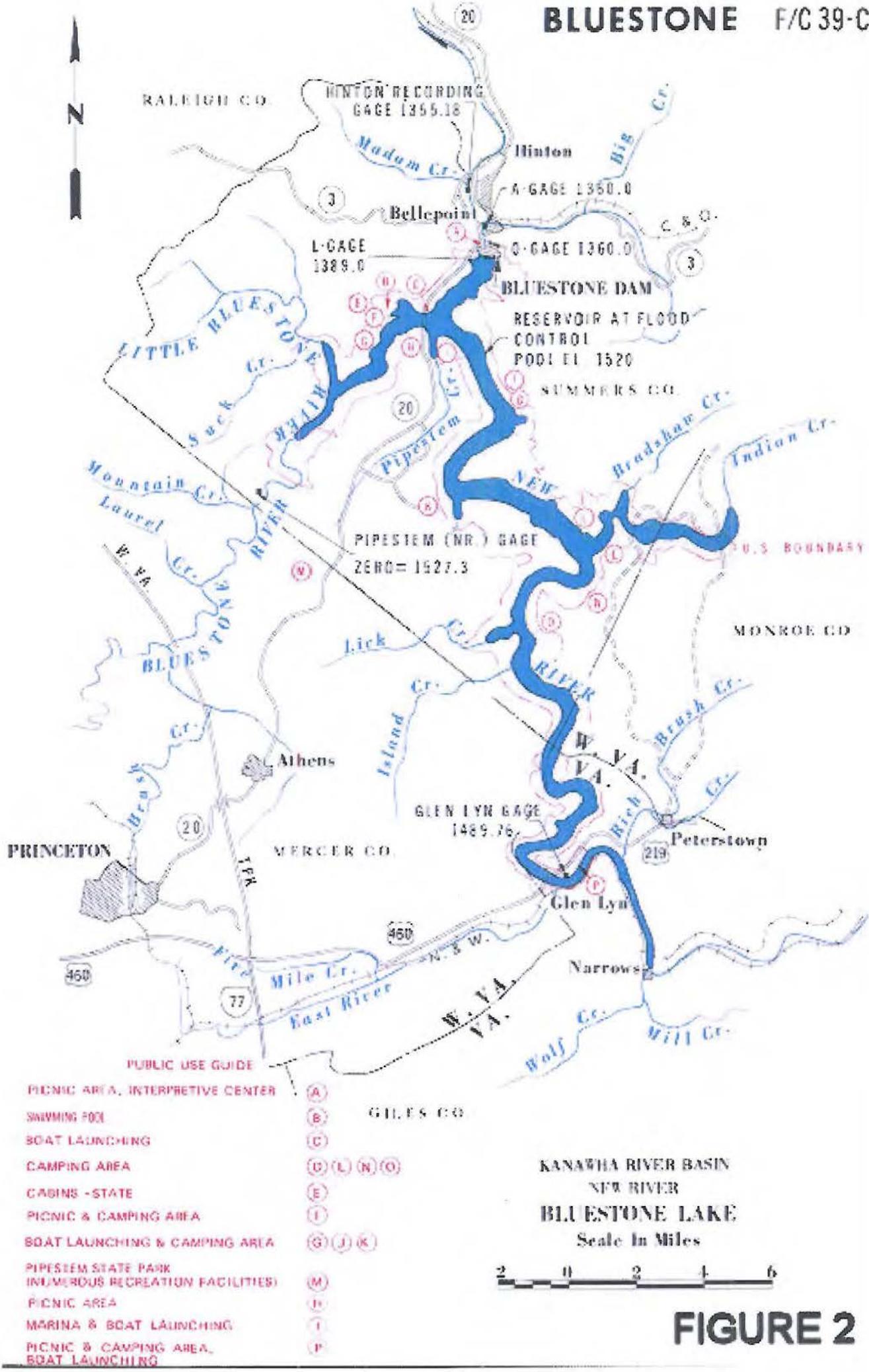


FIGURE 2

BLUESTONE DAM DSMS PHASE 5 CWL

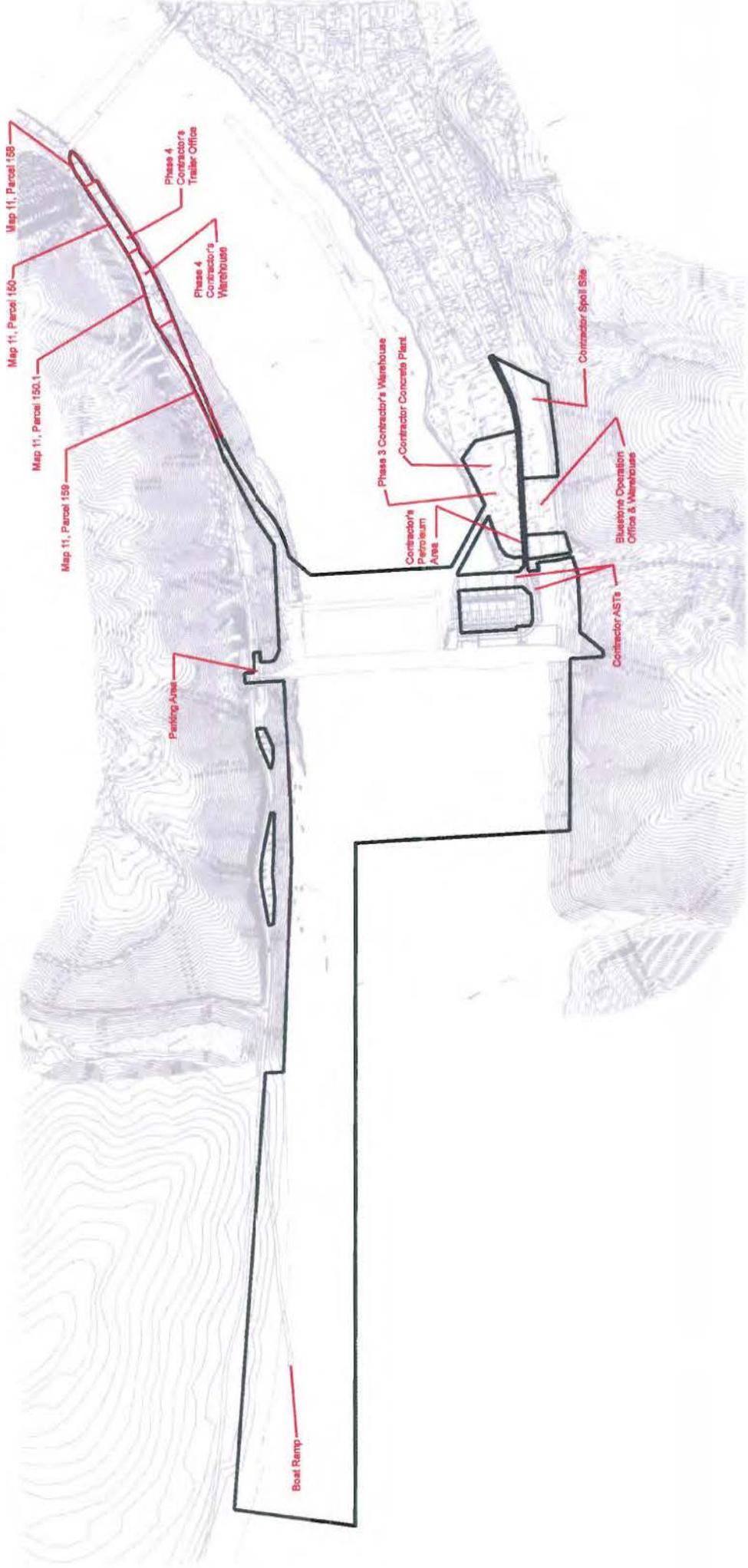


FIGURE 3

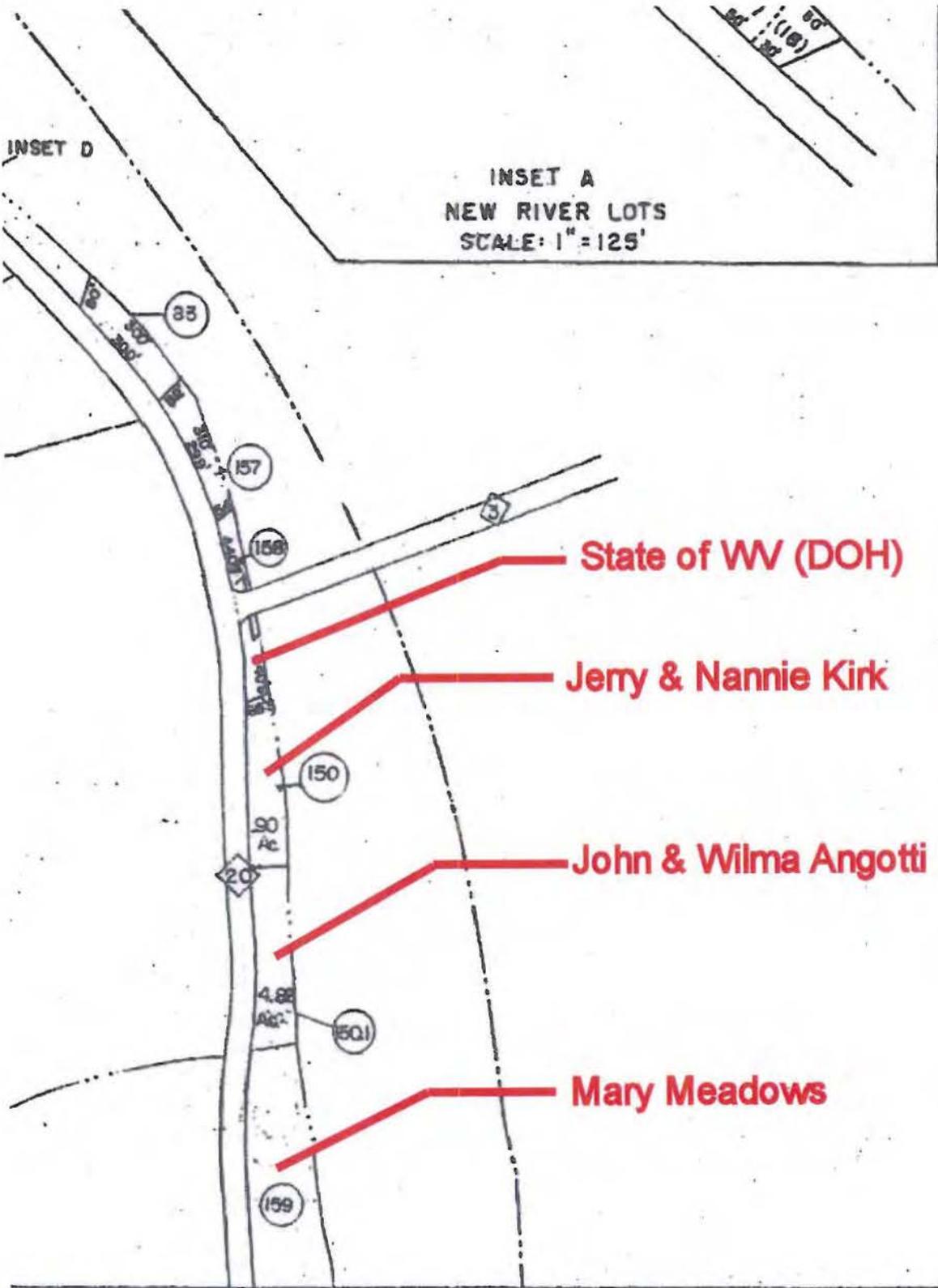


Figure 4
SUMMERS COUNTY ~ WEST VIRGINIA

***APPENDIX B
HISTORIC TOPOGRAPHIC MAPS
AND AERIAL PHOTOS***



Inquiry Number:

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

05/10/16

Site Name:

Bluestone Dam
701 Miller Ave
Hinton, WV 25951
EDR Inquiry # 4614459.7

Client Name:

U.S. Army Corps of Engineers
502 8th Street
Huntington, WV 25701
Contact: Dan Stark



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by U.S. Army Corps of Engineers were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

Coordinates:

P.O.#

Latitude:

Project:

Longitude:

UTM Zone:

UTM X Meters:

UTM Y Meters:

Elevation:

Maps Provided:

2014
1998
1976
1968
1914
1912
1892
1887

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2014 Source Sheets



Talcott
2014
7.5-minute, 24000



Pipestem
2014
7.5-minute, 24000



Forest Hill
2014
7.5-minute, 24000



Hinton
2014
7.5-minute, 24000

1998 Source Sheets



Pipestem
1998
7.5-minute, 24000
Photo Inspected 1998
Aerial Photo Revised 1967



Hinton
1998
7.5-minute, 24000
Photo Inspected 1998
Aerial Photo Revised 1976

1976 Source Sheets



Hinton
1976
7.5-minute, 24000
Photo Revised 1976
Aerial Photo Revised 1976



Pipestem
1976
7.5-minute, 24000
Photo Inspected 1976
Aerial Photo Revised 1967



Forest Hill
1976
7.5-minute, 24000
Photo Inspected 1976
Aerial Photo Revised 1967

1968 Source Sheets



Forest Hill
1968
7.5-minute, 24000
Aerial Photo Revised 1967



Talcott
1968
7.5-minute, 24000
Aerial Photo Revised 1967



Hinton
1968
7.5-minute, 24000
Aerial Photo Revised 1967



Pipestem
1968
7.5-minute, 24000
Aerial Photo Revised 1967

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1914 Source Sheets



Big Bend
1914
15-minute, 62500

1912 Source Sheets



Big Bend
1912
15-minute, 62500

1892 Source Sheets



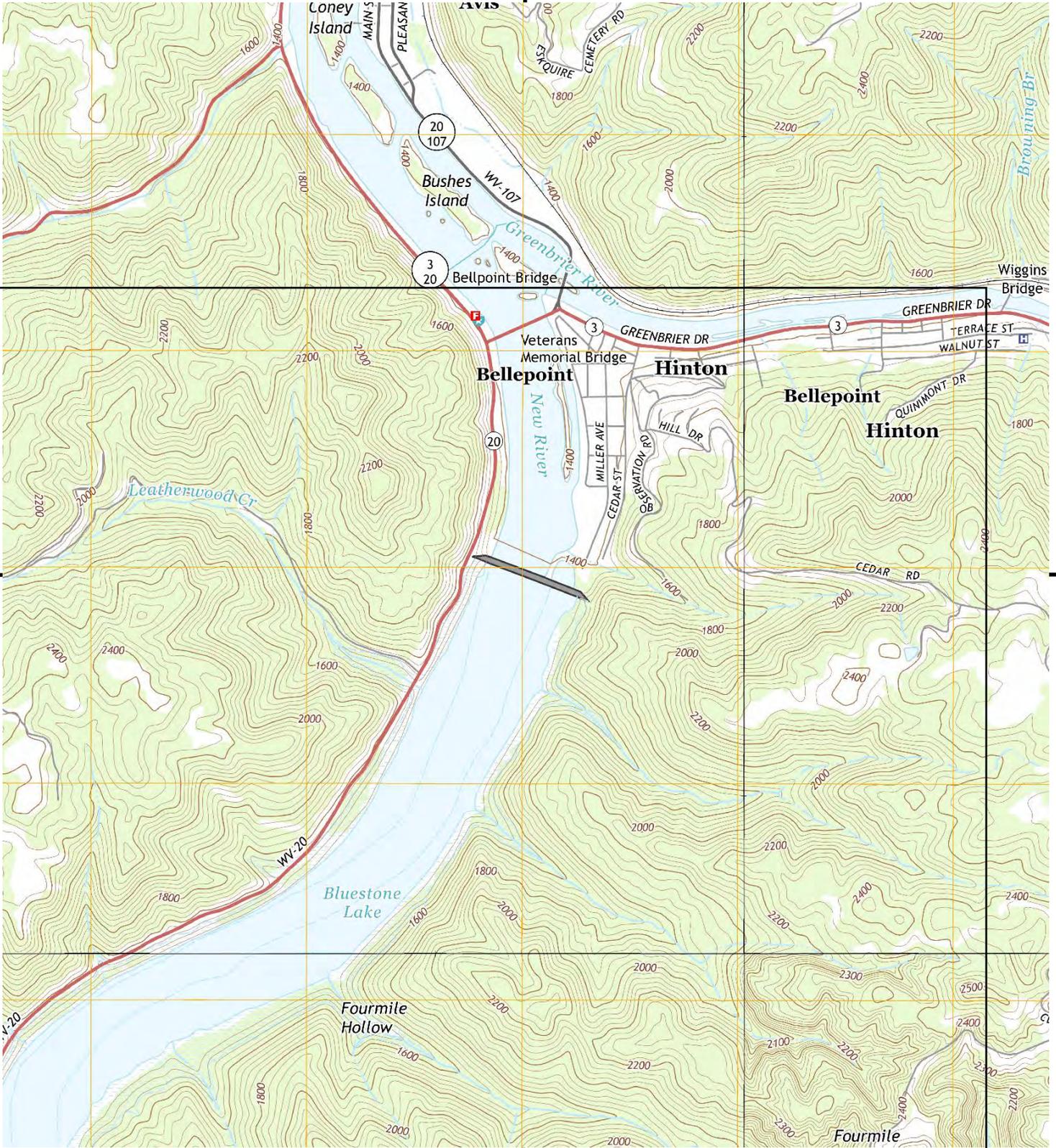
Hinton
1892
30-minute, 125000

1887 Source Sheets

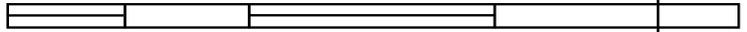


Hinton
1887
30-minute, 125000

Historical Topo Map



This report includes information from the following map sheet(s).

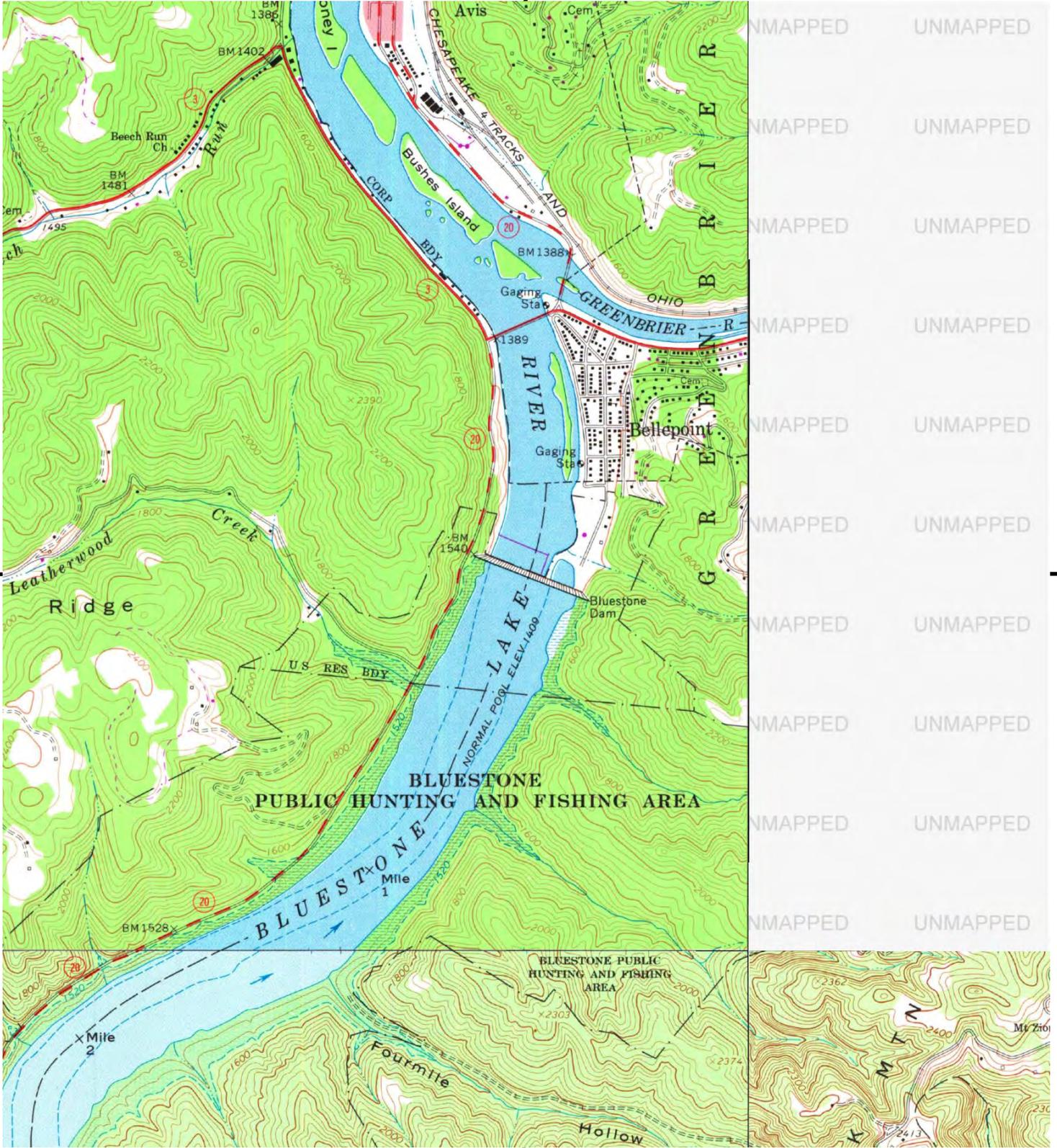


NW	N	NE
TP, Hinton,		
NE, Falcott		
SE, Fore		
SW, Pipest		
SW	S	SE
4614459		

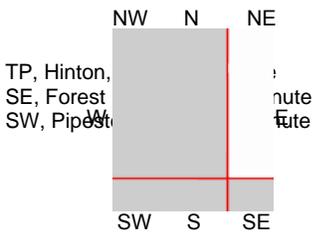
2014

SITE NAME:
ADDRESS:
CLIENT:



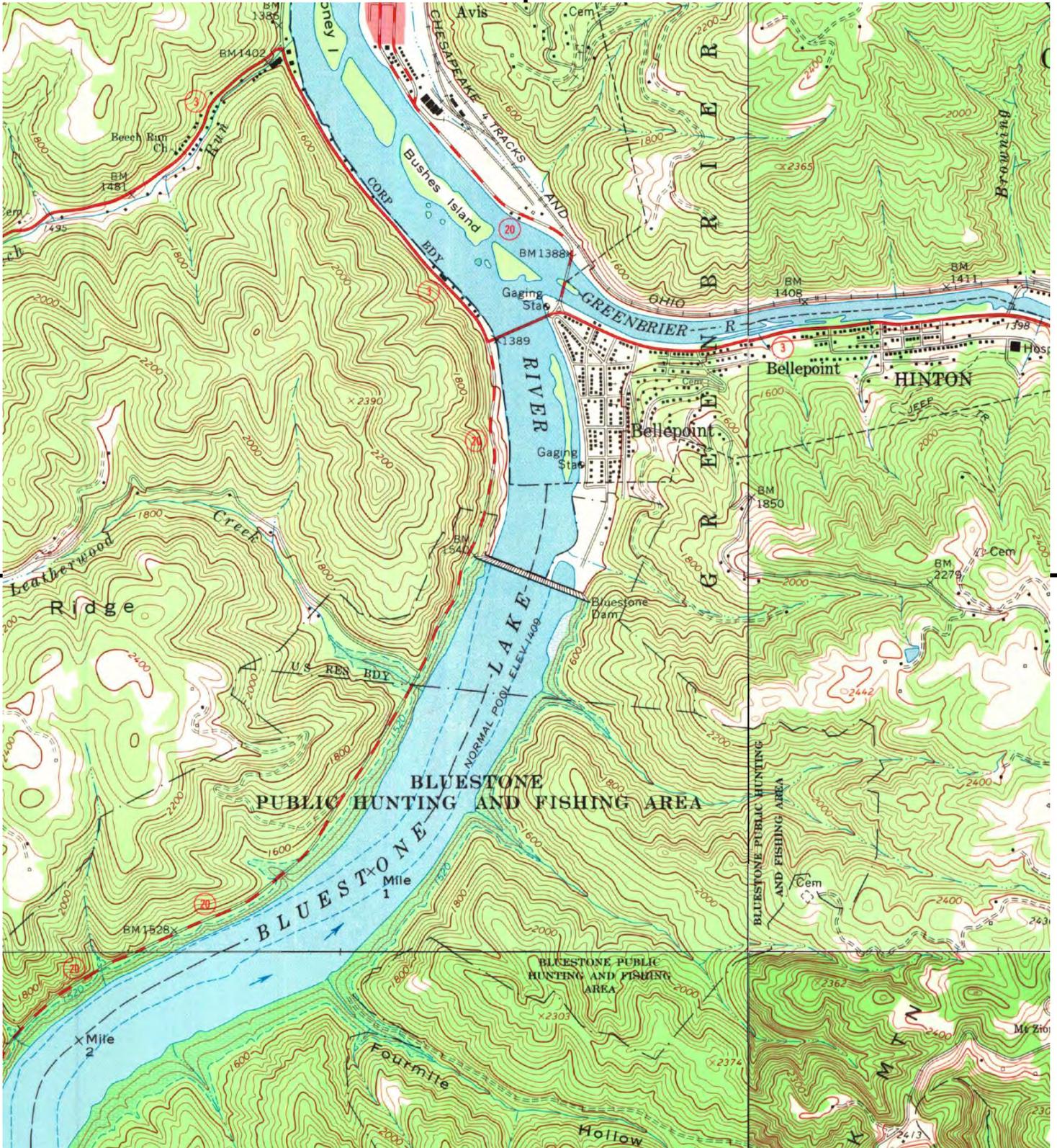


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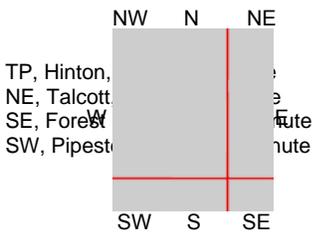
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ADDRESS:
CLIENT:





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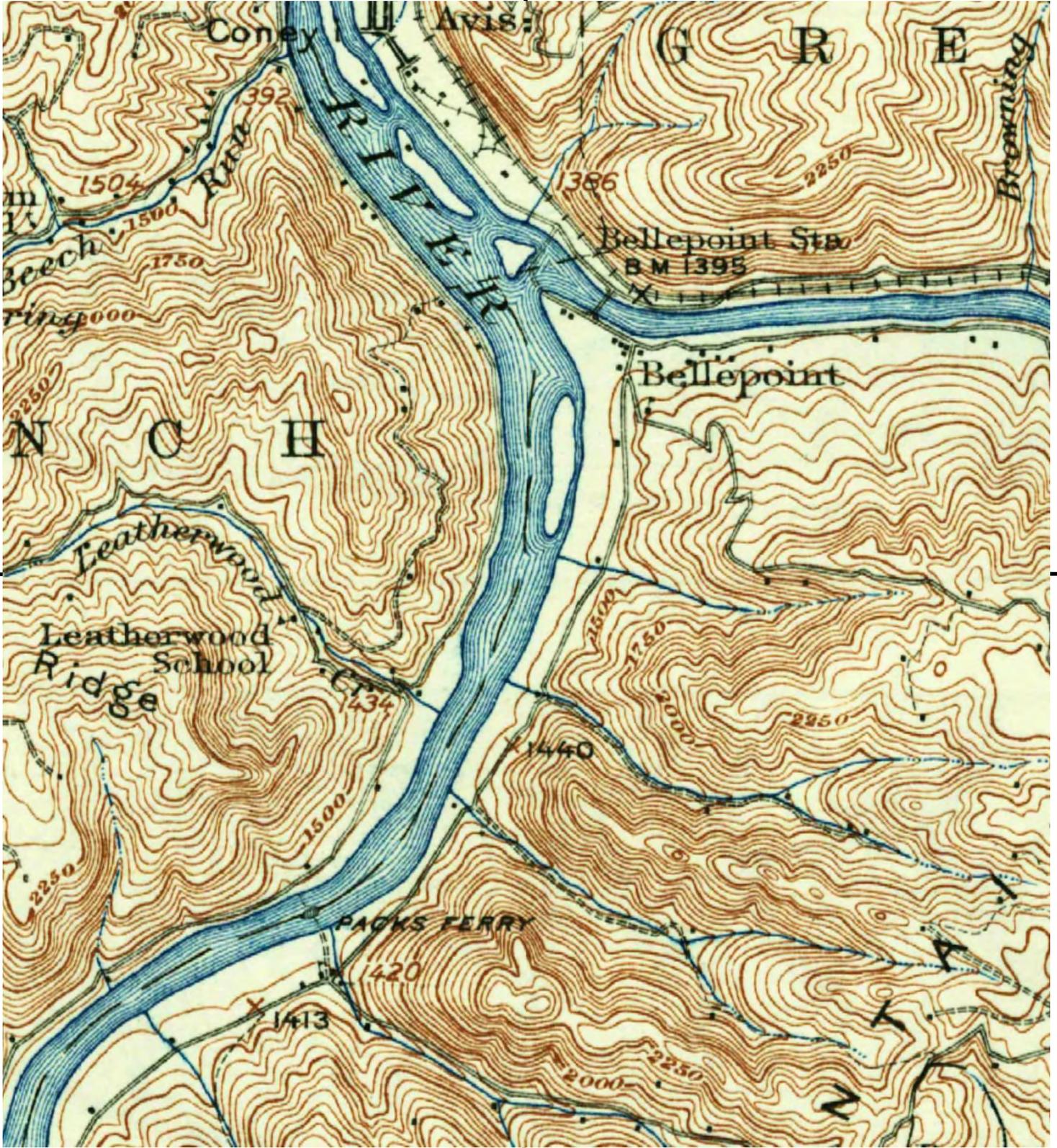
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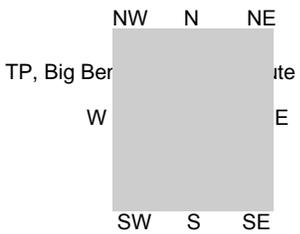
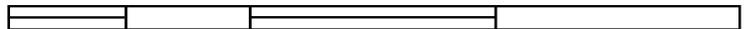
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ADDRESS:

CLIENT:



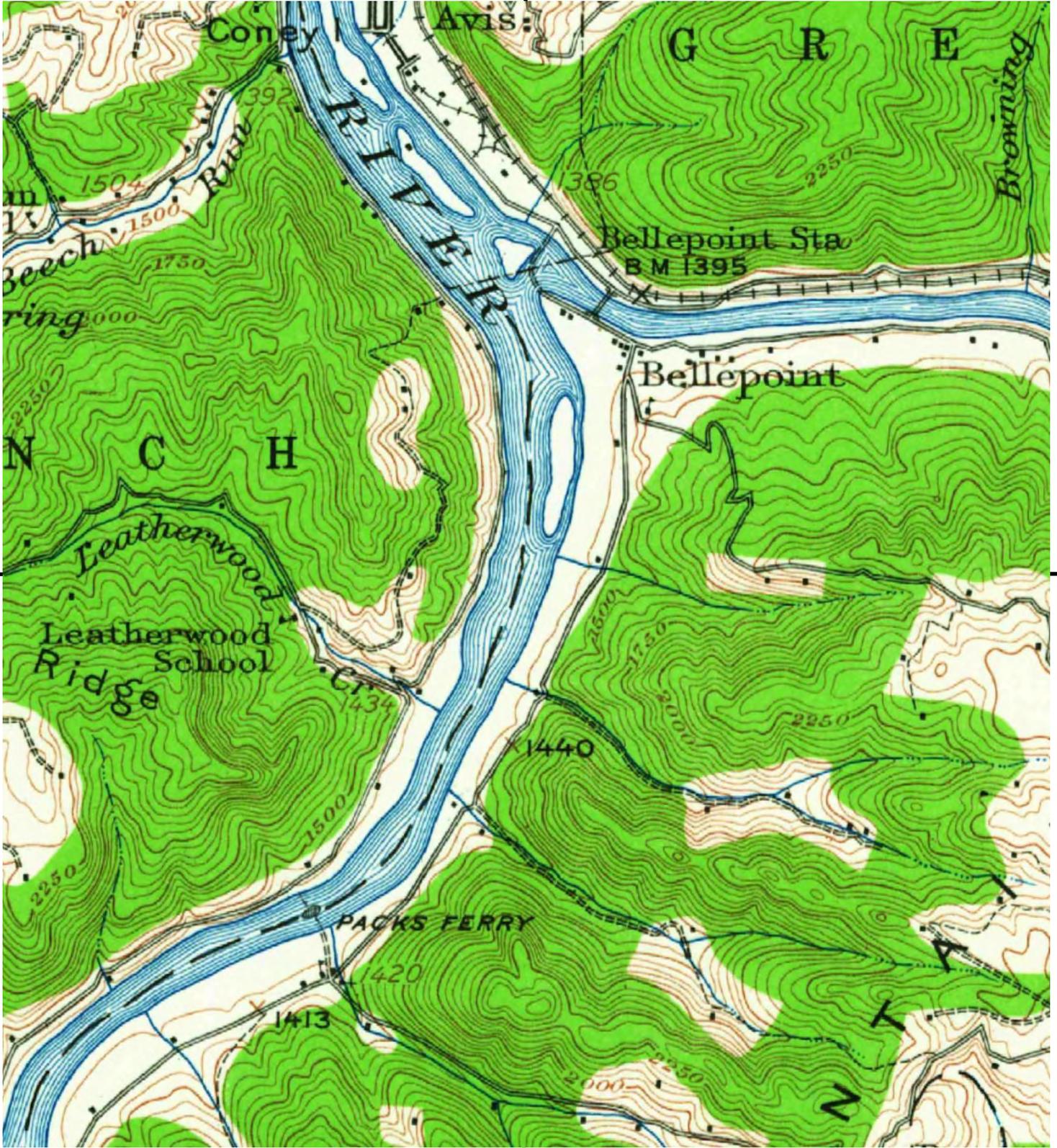


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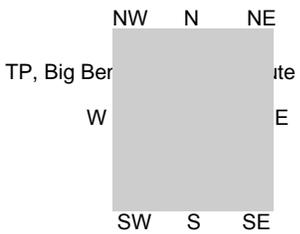
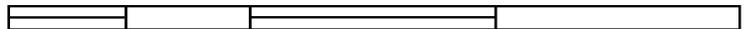


SITE NAME:
ADDRESS:
CLIENT:



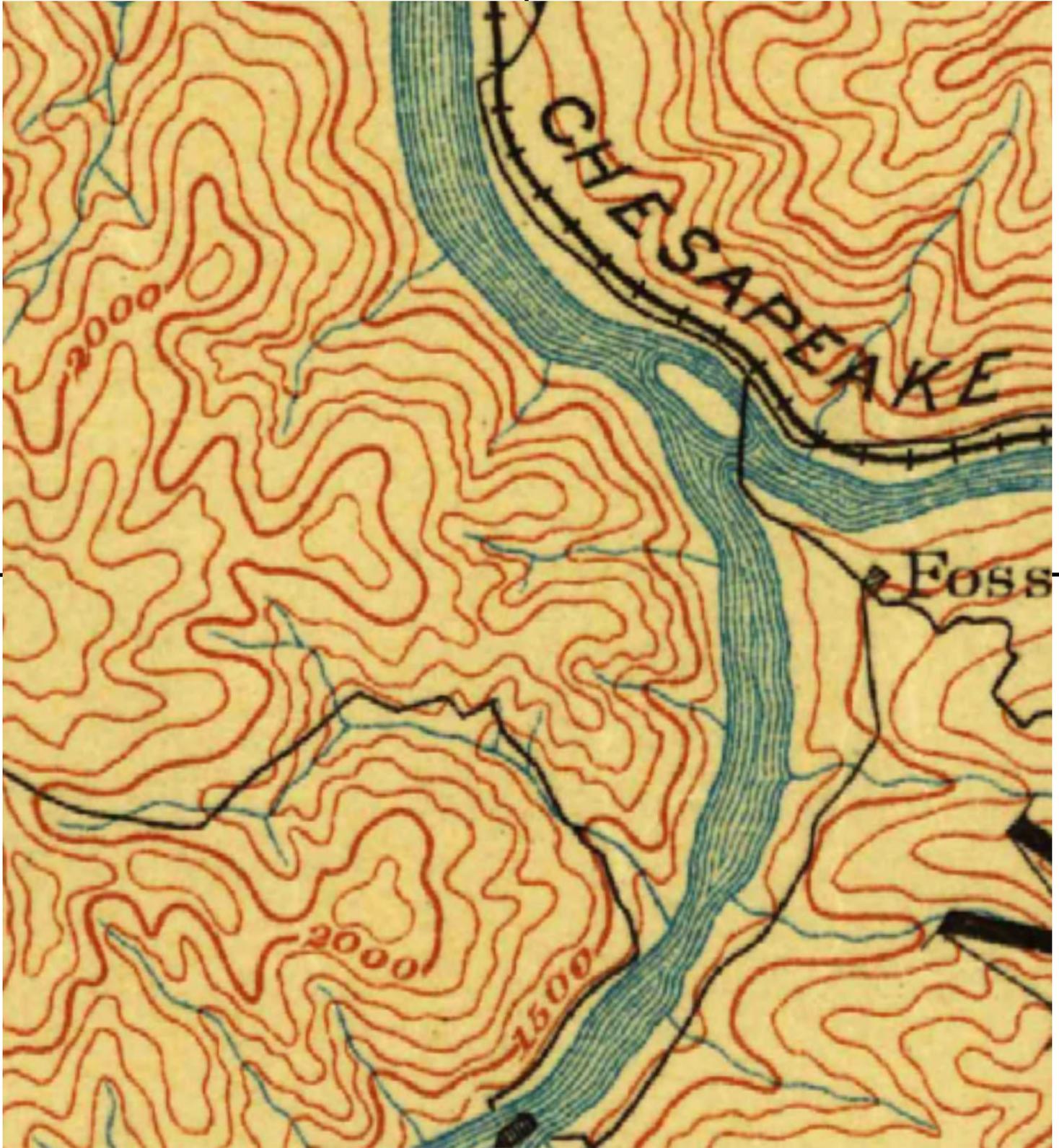


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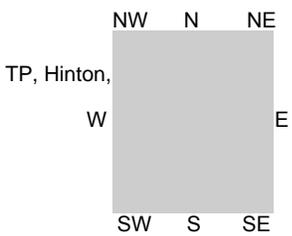
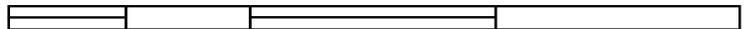


SITE NAME:
ADDRESS:
CLIENT:



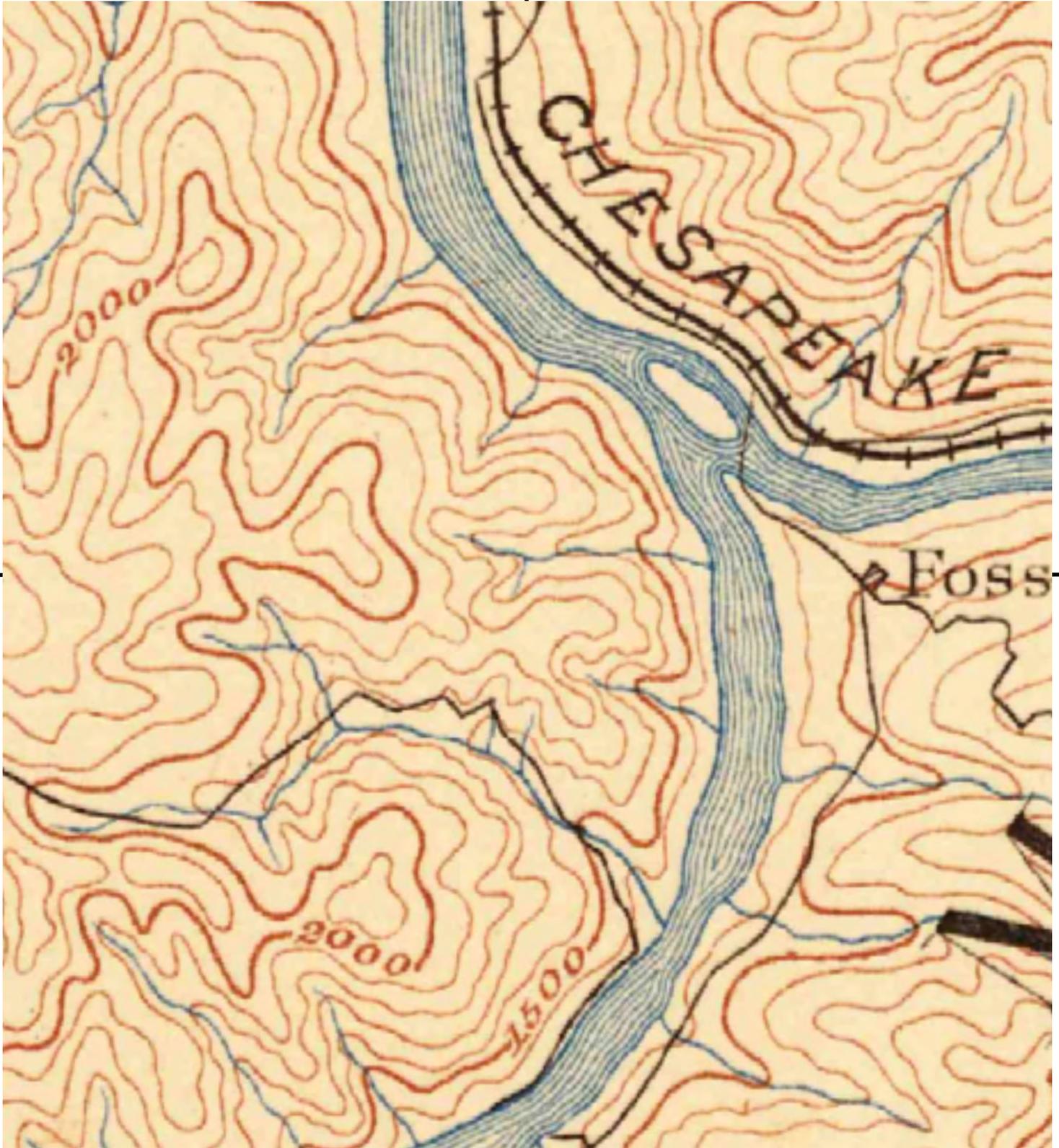


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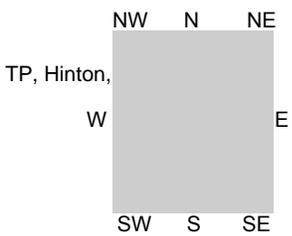
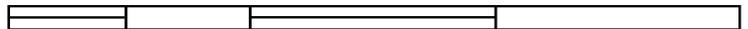


SITE NAME:
ADDRESS:
CLIENT:





This report includes information from the following map sheet(s).



SITE NAME:
ADDRESS:
CLIENT:





Inquiry Number: 4614459.6

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Site Name:

Bluestone Dam
 701 Miller Ave
 Hinton, WV 25951
 EDR Inquiry # 4614459.6

Client Name:

U.S. Army Corps of Engineers
 502 8th Street
 Huntington, WV 25701
 Contact: Dan Stark



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2007	1"=500'	Flight Year: 2007	USDA/NAIP
1996	1"=500'	Acquisition Date: April, 03 1996	USGS/DOQQ
1990	1"=500'	Flight Date: October, 16 1990	USGS
1976	1"=1000'	Flight Date: April, 09 1976	USGS
1967	1"=750'	Flight Date: April, 02 1967	USGS
1960	1"=500'	Flight Date: November, 08 1960	USGS

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INQUIRY # 4614459.6

YEAR: 2011

— = 500'





INQUIRY #: 4614459.6

YEAR: 2009

— = 500'





INQUIRY #: 4614459.6

YEAR: 2007

— = 500'





INQUIRY #: 4614459.6

YEAR: 1996

— = 500'





INQUIRY #: 4614459.6

YEAR: 1990

— = 500'





INQUIRY #: 4614459.6

YEAR: 1976

— = 1000'





INQUIRY # 4614459.6

YEAR: 1967

— = 750'





INQUIRY #: 4614459.6

YEAR: 1960

— = 500'



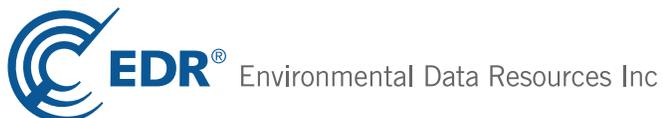
***APPENDIX C
RECORDS OF FEDERAL AND
STATE REGULATORY AGENCIES***

Bluestone Dam

701 Miller Ave
Hinton, WV 25951

Inquiry Number: 4614459.4s
May 10, 2016

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
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Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

701 MILLER AVE
HINTON, WV 25951

COORDINATES

Latitude (North): 37.6407690 - 37° 38' 26.76"
Longitude (West): 80.8864750 - 80° 53' 11.31"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 510015.9
UTM Y (Meters): 4165760.0
Elevation: 1362 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6008643 HINTON, WV
Version Date: 2014

Northeast Map: 6008663 TALCOTT, WV
Version Date: 2014

Southeast Map: 6008633 FOREST HILL, WV
Version Date: 2014

Southwest Map: 6008655 PIPESTEM, WV
Version Date: 2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20110823, 20111005
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 701 MILLER AVE
 HINTON, WV 25951

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	US CORPS OF ENGINEER	701 MILLER AVE	RCRA-CESQG, FINDS, NY MANIFEST, ECHO		TP
A2	BLUESTONE LAKE	701 MILLER AVE	WV UST		TP
Reg	BLUESTONE LAKE		DOD	Same	1 ft.

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
US CORPS OF ENGINEER 701 MILLER AVE HINTON, WV 25951	RCRA-CESQG	WV1960010147
	EPA ID:: WV1960010147	
	FINDS	
	Registry ID:: 110005551321	
BLUESTONE LAKE 701 MILLER AVE HINTON, WV 25951	NY MANIFEST	N/A
	EPA ID: WV1960010147	
	ECHO	
	WV UST	
	Tank ID: D1	
	Tank ID: D2	
	Tank ID: D3	
	Facility ID: 4500716	
	Tank Status: P	
	Date Closed: 01/30/1992	
	Closure Status: Tank removed from ground	

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
 Proposed NPL..... Proposed National Priority List Sites
 NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
 SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

EXECUTIVE SUMMARY

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators

RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

WV SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State and tribal landfill and/or solid waste disposal site lists

WV SWF/LF..... List of M.S.W. Landfills/Transfer Station Listing

WV LCP..... Landfill Closure Program

State and tribal leaking storage tank lists

WV LUST..... Leaking Underground Storage Tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

WV AST..... Aboveground Storage Tanks

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

WV INST CONTROL..... Sites with Institutional Controls

State and tribal voluntary cleanup sites

WV VCP..... Voluntary Remediation Sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

WV BROWNFIELDS..... Brownfields Sites Listing

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

WV CDL..... Drug Lab Site Locations

US CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

WV SPILLS..... Spills Listing

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated

FUDS..... Formerly Used Defense Sites

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION..... 2020 Corrective Action Program List

TSCA..... Toxic Substances Control Act

TRIS..... Toxic Chemical Release Inventory System

SSTS..... Section 7 Tracking Systems

ROD..... Records Of Decision

RMP..... Risk Management Plans

RAATS..... RCRA Administrative Action Tracking System

PRP..... Potentially Responsible Parties

PADS..... PCB Activity Database System

ICIS..... Integrated Compliance Information System

FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

MLTS..... Material Licensing Tracking System

COAL ASH DOE..... Steam-Electric Plant Operation Data

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER..... PCB Transformer Registration Database

RADINFO..... Radiation Information Database

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS..... Incident and Accident Data

EXECUTIVE SUMMARY

CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
UXO.....	Unexploded Ordnance Sites
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
WV AIRS.....	Permitted Facility and Emissions Listing
WV COAL ASH.....	Coal Ash Landfills
WV DRYCLEANERS.....	Listing of Drycleaner Locations
WV Financial Assurance.....	Financial Assurance Information Listing
WV NPDES.....	Wastewater Discharge Permits Listing
WV UIC.....	Underground Injection Wells
FUELS PROGRAM.....	EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historic Gas Stations
EDR Hist Cleaner.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

WV RGA LF.....	Recovered Government Archive Solid Waste Facilities List
WV RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

DOD: Consists of federally owned or administered lands, administered by the Department of

EXECUTIVE SUMMARY

Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

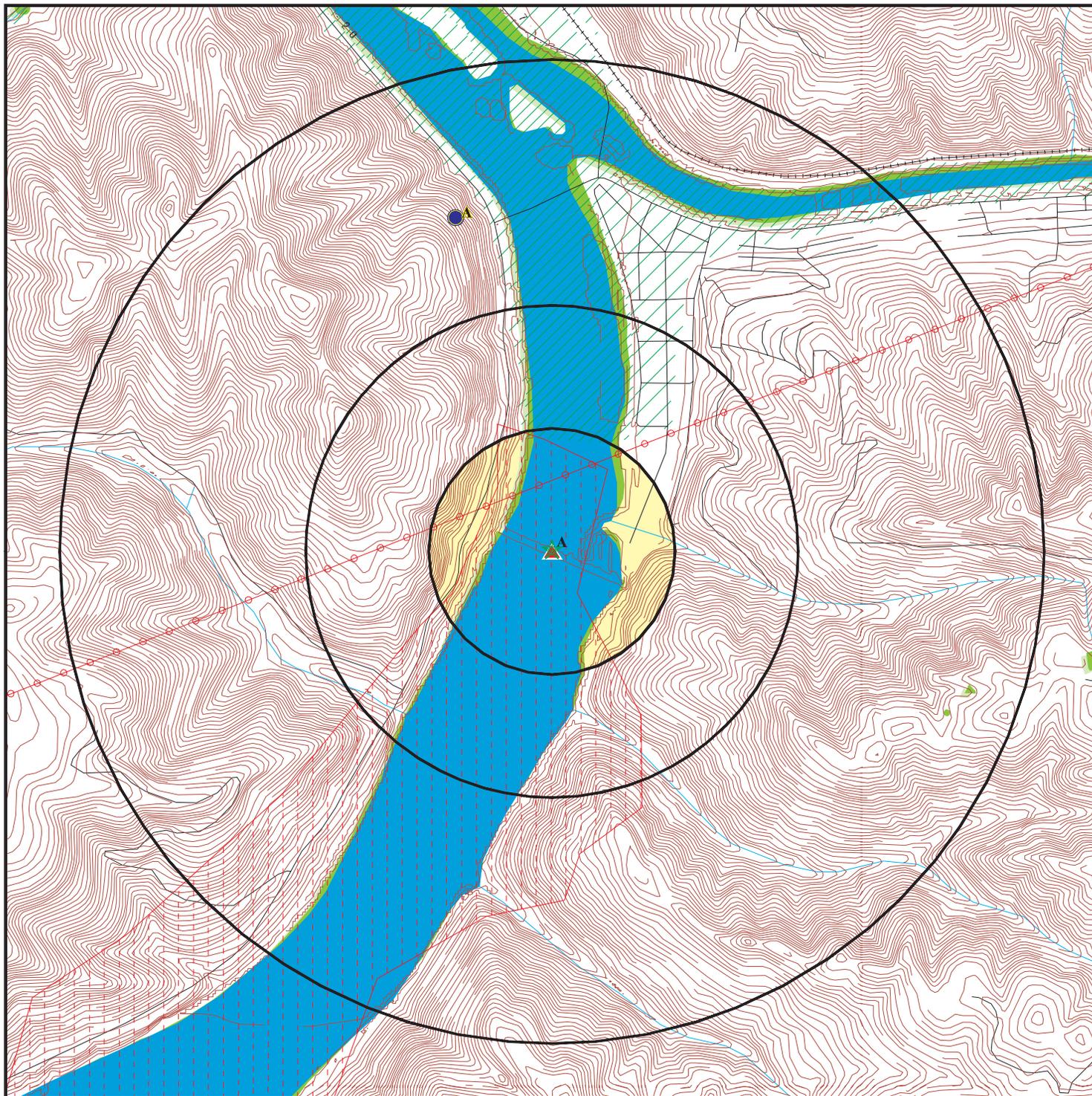
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BLUESTONE LAKE		0 - 1/8 (0.000 mi.)	0	13

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

<u>Site Name</u>	<u>Database(s)</u>
BLUESTONE DAM - DAM SAFETY ASSURAN	WV NPDES
BLUESTONE DAM SAFETY ASSURANCE	FINDS, ECHO

OVERVIEW MAP - 4614459.4S



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites

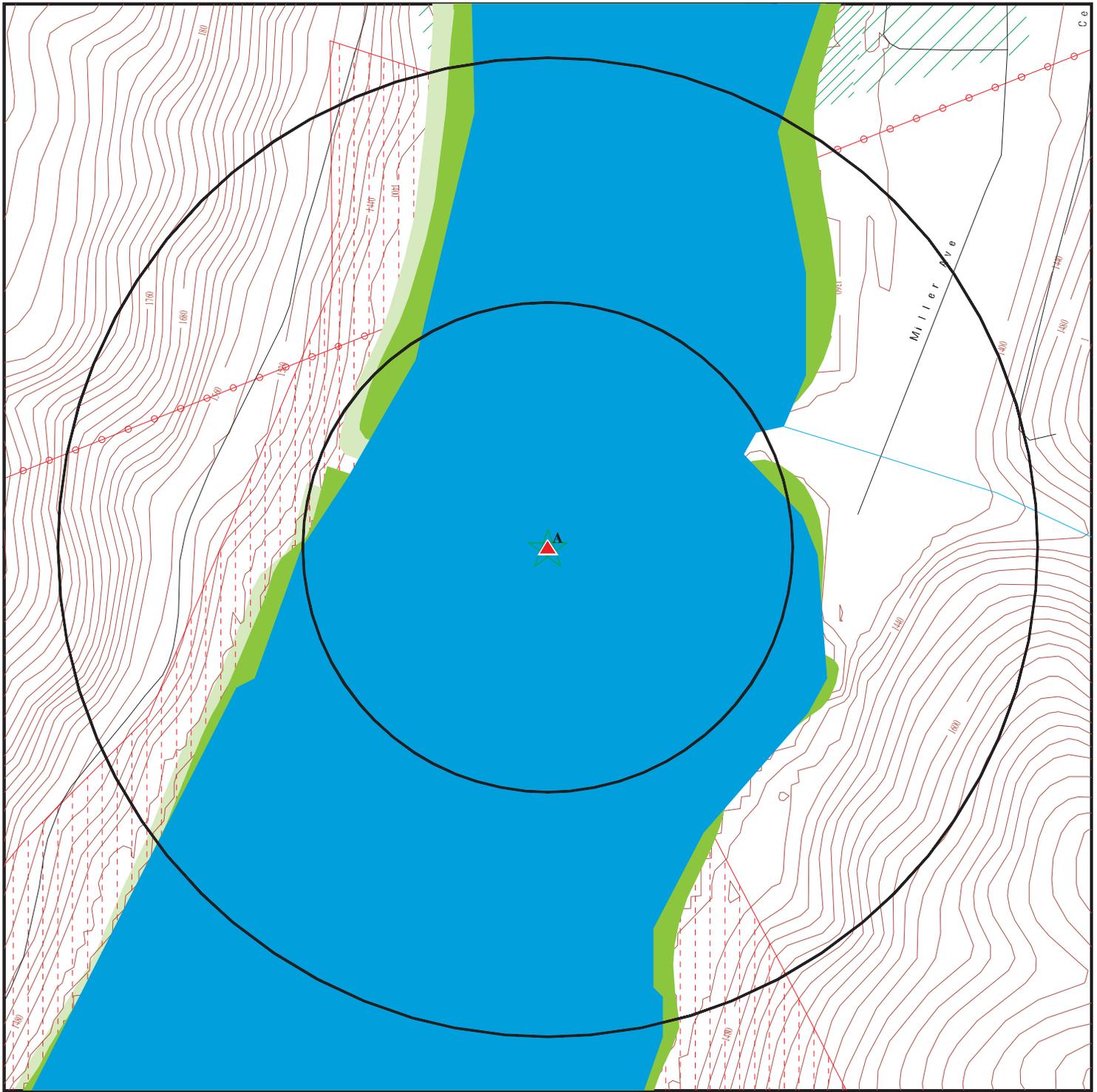
- 0 1/4 1/2 1 Miles
- ☒ Indian Reservations BIA
- ⚡ Power transmission lines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Bluestone Dam
 ADDRESS: 701 Miller Ave
 Hinton WV 25951
 LAT/LONG: 37.640769 / 80.886475

CLIENT: U.S. Army Corps of Engineers
 CONTACT: Dan Stark
 INQUIRY #: 4614459.4s
 DATE: May 10, 2016 12:57 pm

DETAIL MAP - 4614459.4S



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚡ Manufactured Gas Plants
- ⚠ Sensitive Receptors
- 🚧 National Priority List Sites
- 🏠 Dept. Defense Sites



- 🏞️ Indian Reservations BIA
- ⚡ Power transmission lines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory
- 🌿 State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Bluestone Dam
 ADDRESS: 701 Miller Ave
 Hinton WV 25951
 LAT/LONG: 37.640769 / 80.886475

CLIENT: U.S. Army Corps of Engineers
 CONTACT: Dan Stark
 INQUIRY #: 4614459.4s
 DATE: May 10, 2016 12:57 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250	1	0	0	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
WV SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
WV SWF/LF	0.500		0	0	0	NR	NR	0
WV LCP	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
WV LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
WV UST	0.250	1	0	0	NR	NR	NR	1
WV AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
WV INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
WV VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
WV BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
WV CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
WV SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		1	0	0	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
WV AIRS	TP		NR	NR	NR	NR	NR	0
WV COAL ASH	0.500		0	0	0	NR	NR	0
WV DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WV Financial Assurance	TP		NR	NR	NR	NR	NR	0
NY MANIFEST	0.250	1	0	0	NR	NR	NR	1
WV NPDES	TP		NR	NR	NR	NR	NR	0
WV UIC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

WV RGA LF	TP		NR	NR	NR	NR	NR	0
WV RGA LUST	TP		NR	NR	NR	NR	NR	0

- Totals --		5	1	0	0	0	0	6
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MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property

US CORPS OF ENGINEERS - BLUESTONE LAKE
701 MILLER AVE
HINTON, WV 25951

RCRA-CESQG
FINDS
NY MANIFEST
ECHO

1000448591
WV1960010147

Site 1 of 2 in cluster A

Actual:
1362 ft.

RCRA-CESQG:

Date form received by agency: 03/20/2015
Facility name: Not reported
Facility address: 701 MILLER AVE
HINTON, WV 25951
EPA ID: WV1960010147
Mailing address: 502 EIGHTH ST ATTN: OR-E
HUNTINGTON, WV 25701
Contact: DEAN BONIFACIO
Contact address: 701 MILLER AVE
HINTON, WV 25951
Contact country: US
Contact telephone: 304-399-5140
Contact email: LLOYD.D.BONIFACIO@USACE.ARMY.MIL
EPA Region: Not reported
Land type: Federal
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: CORPS OF ENGINEERS
Owner/operator address: Not reported
WV
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: 08/01/1990
Owner/Op end date: Not reported

Owner/operator name: CORPS OF ENGINEERS
Owner/operator address: Not reported
WV
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: 08/01/1990
Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US CORPS OF ENGINEERS - BLUESTONE LAKE (Continued)

1000448591

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 11/01/2006
Site name: US CORPS OF ENGINEERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 05/13/2005
Site name: US CORPS OF ENGINEERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 10/23/2003
Site name: US CORPS OF ENGINEERS
Classification: Not a generator, verified

Date form received by agency: 08/17/1990
Site name: US CORPS OF ENGINEERS
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 06/04/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/16/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/26/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/26/1991

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US CORPS OF ENGINEERS - BLUESTONE LAKE (Continued)

1000448591

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110005551321

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID: WV1960010147
Country: USA
Location Address 1: 701 MILLER AVE
Location Address 2: Not reported
Location City: HINTON
Location State: WV
Location Zip Code: 25951
Location Zip Code 4: Not reported

Mailing Info:

Name: US ARMY CORPS OF ENGINEERS
Contact: MICHAEL MAYNARD
Address: 701 MILLER AVE
City/State/Zip: HINTON, WV 25951
Country: USA
Phone: 304-529-5191

Manifest:

Document ID: NYB8751006
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 80358VNY
Trans2 State ID: Not reported
Generator Ship Date: 11/20/1996
Trans1 Recv Date: 11/20/1996
Trans2 Recv Date: / /
TSD Site Recv Date: 11/21/1996
Part A Recv Date: / /
Part B Recv Date: 12/18/1996
Generator EPA ID: WV1960010147
Trans1 EPA ID: NYD982792814
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 08400
Units: P - Pounds
Number of Containers: 012
Container Type: DM - Metal drums, barrels

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US CORPS OF ENGINEERS - BLUESTONE LAKE (Continued)

1000448591

Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 09100
Units: P - Pounds
Number of Containers: 013
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 01000
Units: P - Pounds
Number of Containers: 005
Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: L Landfill.
Specific Gravity: 100
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 02800
Units: P - Pounds
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 1996

Document ID: NYB8193924
Manifest Status: Completed copy
Trans1 State ID: NY67267K
Trans2 State ID: Not reported
Generator Ship Date: 11/06/1996
Trans1 Recv Date: 11/06/1996
Trans2 Recv Date: / /
TSD Site Recv Date: 11/08/1996
Part A Recv Date: / /
Part B Recv Date: 11/27/1996
Generator EPA ID: WV1960010147
Trans1 EPA ID: NYD000688671
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 07140
Units: P - Pounds
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1996

Document ID: NYB7407432
Manifest Status: Completed copy
Trans1 State ID: TV40957
Trans2 State ID: Not reported
Generator Ship Date: 03/05/1996
Trans1 Recv Date: 03/05/1996
Trans2 Recv Date: / /

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US CORPS OF ENGINEERS - BLUESTONE LAKE (Continued)

1000448591

TSD Site Recv Date: 03/07/1996
Part A Recv Date: / /
Part B Recv Date: 03/18/1996
Generator EPA ID: WV1960010147
Trans1 EPA ID: PAD146714878
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 01500
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 1996

ECHO:

Envid: 1000448591
Registry ID: 110005551321
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110005551321

**A2
Target
Property**

**BLUESTONE LAKE
701 MILLER AVE
HINTON, WV 25951**

**WV UST U003771397
N/A**

Site 2 of 2 in cluster A

**Actual:
1362 ft.**

UST:

Facility ID: 4500716
Owner: US ARMY CORP OF ENGINEERS
Owner Address: 502 EIGHTH ST
Owner Address 2: Not reported
Owner City,St,Zip: HUNTINGTON, WV 25701
Owner Telephone: (304) 529-5388

Tank ID: D1
Tank Status: Permanently Out of Service
Tank Substance: Gasoline
Tank Capacity: 1000
Date Last Used: 09/01/1990
Date Closed: 01/30/1992
Closure Status: Tank removed from ground
Tank Material: Asphalt Coated or Bare Steel
Piping Material: Unprotected Steel
Overfill Installed: No
Installed Spill Protection: No
Cathodic Protection Method: No
Compartment: N
Latitude: Not reported
Longitude: Not reported

Tank ID: D2
Tank Status: Permanently Out of Service
Tank Substance: Diesel
Tank Capacity: 1000
Date Last Used: 09/01/1990

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BLUESTONE LAKE (Continued)

U003771397

Date Closed: 01/30/1992
Closure Status: Tank removed from ground
Tank Material: Asphalt Coated or Bare Steel
Piping Material: Unprotected Steel
Overfill Installed: No
Installed Spill Protection: No
Cathodic Protection Method: No
Compartment: N
Latitude: Not reported
Longitude: Not reported

Tank ID: D3
Tank Status: Permanently Out of Service
Tank Substance: Gasoline
Tank Capacity: 550
Date Last Used: 09/01/1990
Date Closed: 01/30/1992
Closure Status: Tank removed from ground
Tank Material: Asphalt Coated or Bare Steel
Piping Material: Unprotected Steel
Overfill Installed: No
Installed Spill Protection: No
Cathodic Protection Method: No
Compartment: N
Latitude: Not reported
Longitude: Not reported

**DOD
Region**

BLUESTONE LAKE

**DOD CUSA136329
N/A**

< 1/8
1 ft.

BLUESTONE LAKE (County), VA

DOD:
Feature 1: Army Corps of Engineers DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Bluestone Lake
Name 2: Not reported
Name 3: Not reported
State: VA-WV
DOD Site: Yes
Tile name: WVSUMMERS

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HINTON	1014911814	BLUESTONE DAM SAFETY ASSURANCE	MILLER AVENUE	25951	FINDS, ECHO
HINTON	S117441731	BLUESTONE DAM - DAM SAFETY ASSURAN	MILLER AVENUE	25951	WV NPDES

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015	Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 04/08/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2015	Source: EPA
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-438-2474
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-438-2474
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-438-2474
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-438-2474
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 02/16/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/30/2016
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 02/29/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 06/13/2016
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 02/29/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 06/13/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/22/2015

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 06/26/2015

Telephone: 202-267-2180

Date Made Active in Reports: 09/16/2015

Last EDR Contact: 03/30/2016

Number of Days to Update: 82

Next Scheduled EDR Contact: 07/11/2016

Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A

Source: Department of Environmental Protection

Date Data Arrived at EDR: N/A

Telephone: 304-926-0455

Date Made Active in Reports: N/A

Last EDR Contact: 02/22/2016

Number of Days to Update: N/A

Next Scheduled EDR Contact: 06/06/2016

Data Release Frequency: N/A

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of M.S.W. Landfills/Transfer Station Listing

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/06/2016

Source: Division of Environmental Protection

Date Data Arrived at EDR: 01/12/2016

Telephone: 304-926-0499

Date Made Active in Reports: 03/08/2016

Last EDR Contact: 03/28/2016

Number of Days to Update: 56

Next Scheduled EDR Contact: 07/11/2016

Data Release Frequency: Varies

LCP: Landfill Closure Program

The WV DEP's LCAP aids the owners/permittees of landfills that were required to cease operations because of certain statutory closure deadlines for non-composite lined facilities

Date of Government Version: 12/31/2015

Source: Department of Environmental Protection

Date Data Arrived at EDR: 03/18/2016

Telephone: 304-926-0499

Date Made Active in Reports: 04/15/2016

Last EDR Contact: 03/04/2016

Number of Days to Update: 28

Next Scheduled EDR Contact: 06/20/2016

Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 12/28/2015

Source: Division of Environmental Protection

Date Data Arrived at EDR: 03/03/2016

Telephone: 304-926-0455

Date Made Active in Reports: 04/15/2016

Last EDR Contact: 03/03/2016

Number of Days to Update: 43

Next Scheduled EDR Contact: 06/13/2016

Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015	Source: EPA Region 7
Date Data Arrived at EDR: 04/28/2015	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 04/29/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015	Source: EPA Region 4
Date Data Arrived at EDR: 12/01/2015	Telephone: 404-562-8677
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/26/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/08/2015	Telephone: 415-972-3372
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 04/27/2016
Number of Days to Update: 32	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/20/2015	Source: EPA Region 6
Date Data Arrived at EDR: 10/30/2015	Telephone: 214-665-6597
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 111	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015	Source: EPA, Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-7439
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/11/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Varies

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/02/2016	Source: Division of Environmental Protection
Date Data Arrived at EDR: 03/03/2016	Telephone: 304-926-0495
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 02/29/2016
Number of Days to Update: 43	Next Scheduled EDR Contact: 06/13/2016
	Data Release Frequency: Annually

AST: Aboveground Storage Tanks
A listing of aboveground storage tank site locations.

Date of Government Version: 01/25/2016	Source: DEP
Date Data Arrived at EDR: 01/28/2016	Telephone: 304-926-0499
Date Made Active in Reports: 03/08/2016	Last EDR Contact: 04/25/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/20/2015	Source: EPA Region 6
Date Data Arrived at EDR: 10/30/2015	Telephone: 214-665-7591
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 111	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 04/29/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6137
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/24/2015	Source: EPA Region 4
Date Data Arrived at EDR: 12/01/2015	Telephone: 404-562-9424
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/26/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014	Source: EPA Region 9
Date Data Arrived at EDR: 02/13/2015	Telephone: 415-972-3368
Date Made Active in Reports: 03/13/2015	Last EDR Contact: 04/27/2016
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Institutional Controls
Sites that have institutional controls in place.

Date of Government Version: 01/20/2016	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/26/2016	Telephone: 304-558-2508
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 02/22/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 06/06/2016
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Remediation Sites
Sites involved in the Voluntary Remediation Program.

Date of Government Version: 01/20/2016	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/26/2016	Telephone: 304-558-2745
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 02/22/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 06/06/2016
	Data Release Frequency: Semi-Annually

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/01/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites Listing
Brownfields are abandoned, idle or underused commercial or industrial properties, where the expansion or redevelopment is hindered by real or perceived contamination. Brownfields vary in size, location, age, and past use -- they can be anything from a five-hundred acre automobile assembly plant to a small, abandoned corner gas station.

Date of Government Version: 05/14/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/05/2013	Telephone: 304-926-0455
Date Made Active in Reports: 08/15/2013	Last EDR Contact: 04/01/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/22/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/22/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

CDL: Drug Lab Site Locations

A listing of clandestine drug lab site locations.

Date of Government Version: 06/18/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 11/19/2015
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 304-926-0499
Last EDR Contact: 04/13/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

SPILLS: Spills Listing

A listing of spills and releases reported to the Office of Emergency Services, they do not include any TRI information.

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/08/2016
Number of Days to Update: 39

Source: Office of Emergency Services
Telephone: 304-558-5380
Last EDR Contact: 04/25/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/15/2016
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/15/2016
Number of Days to Update: 339	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 02/19/2016
Number of Days to Update: 54	Next Scheduled EDR Contact: 05/30/2016
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/03/2015	Telephone: 202-566-1917
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 02/16/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 05/30/2016
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/09/2016
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 02/12/2016
Number of Days to Update: 6	Next Scheduled EDR Contact: 05/23/2016
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012	Source: EPA
Date Data Arrived at EDR: 01/15/2015	Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 03/24/2016
Number of Days to Update: 14	Next Scheduled EDR Contact: 07/04/2016
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-566-0250
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 02/24/2016
Number of Days to Update: 133	Next Scheduled EDR Contact: 06/06/2016
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 04/25/2016
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 03/08/2016
Number of Days to Update: 74	Next Scheduled EDR Contact: 06/20/2016
	Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/26/2015	Telephone: 202-564-8600
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 04/25/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 02/12/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/23/2016
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014	Source: EPA
Date Data Arrived at EDR: 10/15/2014	Telephone: 202-566-0500
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 04/12/2016
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2015	Telephone: 202-564-5088
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 04/08/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 28

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/04/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/15/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 11/23/2015	Source: Department of Energy
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-586-3559
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 05/09/2016
Number of Days to Update: 86	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 03/28/2016
Number of Days to Update: 146	Next Scheduled EDR Contact: 06/06/2016
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/26/2014	Telephone: 703-603-8787
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 04/07/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (215) 814-5000
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 03/01/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 02/24/2016
Number of Days to Update: 33	Next Scheduled EDR Contact: 06/13/2016
	Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 04/18/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 07/04/2016
	Data Release Frequency: Varies

AIRS: Permitted Facility and Emissions Listing

Permitted facility and emissions information listing.

Date of Government Version: 12/31/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/29/2016	Telephone: 304-926-0499
Date Made Active in Reports: 03/08/2016	Last EDR Contact: 04/25/2016
Number of Days to Update: 39	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

COAL ASH: Coal Ash Landfills

A listing of coal ash landfill site locations.

Date of Government Version: 04/07/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/27/2011	Telephone: 304-926-0499
Date Made Active in Reports: 06/02/2011	Last EDR Contact: 04/11/2016
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Varies

DRYCLEANERS: Listing of Drycleaner Locations

A listing of drycleaners which use perchloroethylene.

Date of Government Version: 05/19/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/22/2015	Telephone: 304-926-0475
Date Made Active in Reports: 07/20/2015	Last EDR Contact: 02/16/2016
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/30/2016
	Data Release Frequency: Varies

Financial Assurance: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/05/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/07/2013	Telephone: 304-926-0499
Date Made Active in Reports: 04/05/2013	Last EDR Contact: 02/29/2016
Number of Days to Update: 29	Next Scheduled EDR Contact: 06/13/2016
	Data Release Frequency: Varies

NPDES: Wastewater Discharge Permits Listing

A listing of wastewater discharge permits.

Date of Government Version: 01/21/2016	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/26/2016	Telephone: 304-926-0495
Date Made Active in Reports: 03/08/2016	Last EDR Contact: 04/19/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: Underground Injection Wells

A listing of underground injection well locations.

Date of Government Version: 01/26/2016	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/28/2016	Telephone: 304-926-0499
Date Made Active in Reports: 03/08/2016	Last EDR Contact: 01/28/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 05/09/2016
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/23/2015	Telephone: 202-564-2280
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 03/23/2016
Number of Days to Update: 103	Next Scheduled EDR Contact: 07/04/2016
	Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/23/2015	Source: EPA
Date Data Arrived at EDR: 11/24/2015	Telephone: 800-385-6164
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 02/24/2016
Number of Days to Update: 86	Next Scheduled EDR Contact: 06/06/2016
	Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Division of Environmental Protection in West Virginia.

Date of Government Version: N/A	Source: Division of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/20/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 203	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Division of Environmental Protection in West Virginia.

Date of Government Version: N/A	Source: Division of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/30/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 182	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/17/2015	Telephone: N/A
Date Made Active in Reports: 08/12/2015	Last EDR Contact: 04/12/2016
Number of Days to Update: 26	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Center List

Source: Office of Social Services

Telephone: 304-558-7980

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BLUESTONE DAM
701 MILLER AVE
HINTON, WV 25951

TARGET PROPERTY COORDINATES

Latitude (North): 37.640769 - 37° 38' 26.77"
Longitude (West): 80.886475 - 80° 53' 11.31"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 510015.9
UTM Y (Meters): 4165760.0
Elevation: 1362 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 6008643 HINTON, WV
Version Date: 2014

Northeast Map: 6008663 TALCOTT, WV
Version Date: 2014

Southeast Map: 6008633 FOREST HILL, WV
Version Date: 2014

Southwest Map: 6008655 PIPESTEM, WV
Version Date: 2014

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

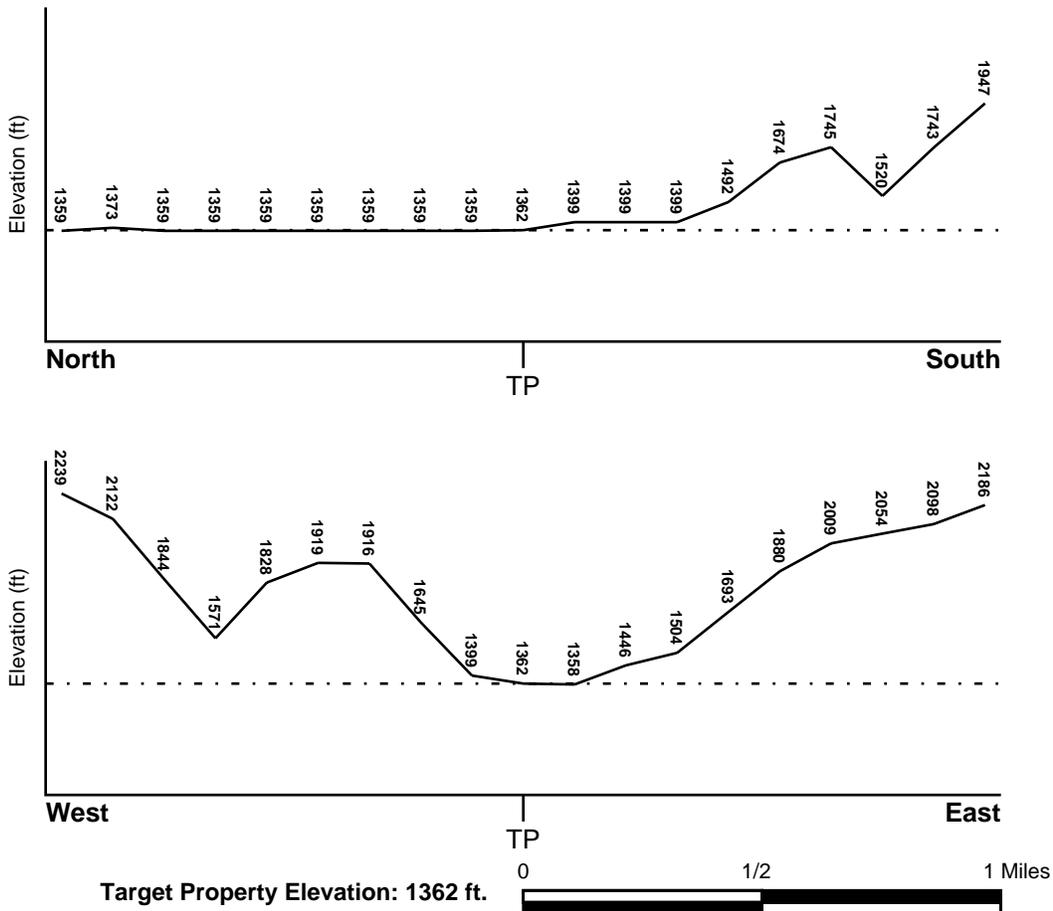
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SUMMERS, WV	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
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Flood Plain Panel at Target Property: 54089C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> HINTON	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
--	---

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Paleozoic
System: Mississippian
Series: Mississippian
Code: M (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CATEACHE

Soil Surface Texture: channery - silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 20 inches

Depth to Bedrock Max: > 40 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	channery - silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50
2	6 inches	28 inches	channery - silty clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50
3	28 inches	32 inches	very channery - silty clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 5.10
4	32 inches	36 inches	weathered bedrock	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: very stony - silt loam
silt loam
channery - sandy loam
loam

Surficial Soil Types: very stony - silt loam
silt loam
channery - sandy loam
loam

Shallow Soil Types: channery - loam
silt loam
channery - sandy loam
clay loam

Deeper Soil Types: silty clay loam
unweathered bedrock
silt loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40001294306	1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

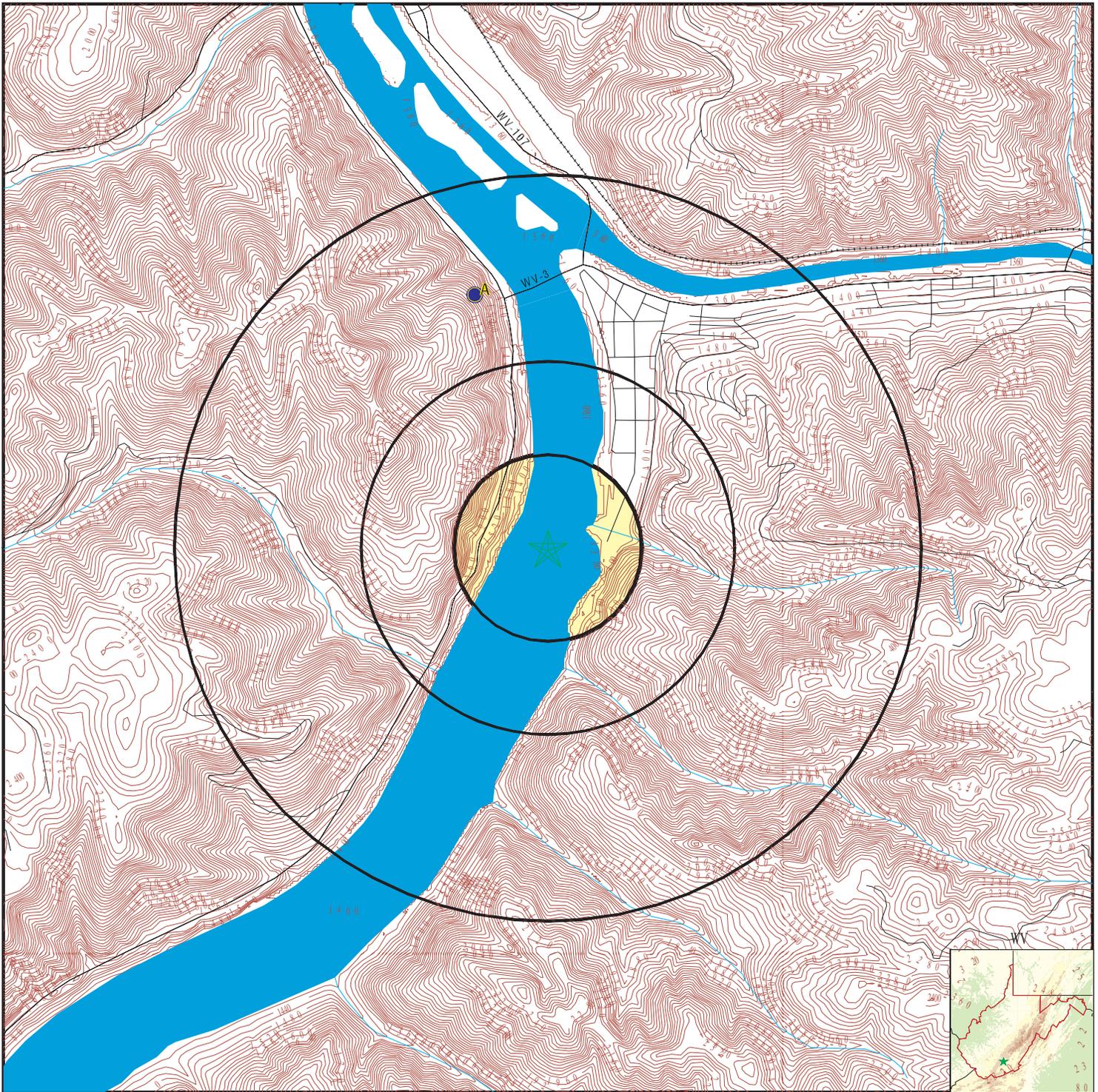
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	WVWELL0228	1/2 - 1 Mile NNW

PHYSICAL SETTING SOURCE MAP - 4614459.4s



-  County Boundary
-  Major Roads
-  Contour Lines
-  Earthquake epicenter, Richter 5 or greater
-  Water Wells
-  Public Water Supply Wells
-  Cluster of Multiple Icons

-  Groundwater Flow Direction
-  Indeterminate Groundwater Flow at Location
-  Groundwater Flow Varies at Location
-  Oil, gas or related wells

SITE NAME: Bluestone Dam
 ADDRESS: 701 Miller Ave
 Hinton WV 25951
 LAT/LONG: 37.640769 / 80.886475

CLIENT: U.S. Army Corps of Engineers
 CONTACT: Dan Stark
 INQUIRY #: 4614459.4s
 DATE: May 10, 2016 12:58 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
NNW
1/2 - 1 Mile
Higher

FED USGS USGS40001294306

Org. Identifier:	USGS-WV		
Formal name:	USGS West Virginia Water Science Center		
Monloc Identifier:	USGS-373900080532501		
Monloc name:	Sum-0044		
Monloc type:	Well		
Monloc desc:	Original station name was JOHNS DAIRYETTE		
Huc code:	05050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.6501193
Longitude:	-80.8900868	Sourcemap scale:	Not Reported
Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	85
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A2
NNW
1/2 - 1 Mile
Higher

WV WELLS WWWELL0228

Id number:	1349	Pwsid:	WV9945021
Sys name:	KIRKS		
Facility id:	567051		
Fac name:	WV9945021#01		
City:	HINTON	County:	SUMMERS
Act status:	A	Water type:	Groundwater
Owner type:	Private	Daily prod:	0
Sys popula:	100	Sys type:	Non Community
Latitude:	37.651111	Longitude:	-80.89
Elevation:	0	Updated:	Not Reported
Wdate:	Not Reported		
Descriptio:	Not Reported		
User initi:	Not Reported	Gudi statu:	No
Sourcetype:	Not Reported	Whp radius:	750
Prod gpd:	2500	Conv fact:	25
Calc pop:	100	Seasonbegi:	Not Reported
Season end:	Not Reported	Facility type:	Well

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

EPA Region 3 Statistical Summary Readings for Zip Code: 25951

Number of sites tested: 41.

Maximum Radon Level: 18.3 pCi/L.

Minimum Radon Level: 0.3 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
32 (78.05%)	7 (17.07%)	2 (4.88%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Federal EPA Radon Zone for SUMMERS County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

West Virginia Water Well Information

Source: Bureau of Public Health

Telephone: 304-558-6765

OTHER STATE DATABASE INFORMATION

West Virginia Oil and Gas Well Database

Source: Department of Environmental Protection

Telephone: 304-926-0450

Oil and Gas well locations in the state.

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA

Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Inquiry Number:

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

05/10/16

Site Name:

Bluestone Dam
701 Miller Ave
Hinton, WV 25951
EDR Inquiry # 4614459.5

Client Name:

U.S. Army Corps of Engineers
502 8th Street
Huntington, WV 25701
Contact: Dan Stark



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Certified Sanborn Results:

Certification # 2C44-40D5-82C2
PO # NA
Project Bluestone DSMS



Sanborn® Library search results

Certification #: 2C44-40D5-82C2

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The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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Bluestone Dam

701 Miller Ave
Hinton, WV 25951

Inquiry Number: 4614459.8
May 11, 2016

The EDR-City Directory Abstract

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Executive Summary

Findings

City Directory Images

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Please contact EDR at 1-800-352-0050
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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1993 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	-	-	-	-
2008	Cole Information Services	-	-	-	-
2003	Cole Information Services	-	-	-	-
1998	Cole Information Services	-	-	-	-
1993	Cole Information Services	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

701 Miller Ave
Hinton, WV 25951

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

701 Miller Ave

Address Not Identified in Research Source

2013, 2008, 2003, 1998, 1993

APPENDIX D
ERGO REPORT

BLUESTONE LAKE
Environmental Compliance Review
Cycle IV
Executive Summary

GENERAL:

This report presents the results of an Environmental Compliance Review conducted by District personnel on 8-10 August 2006, at Bluestone Lake (CELRH-OR-BLN) project and at outgranted facilities on Corps property at Bluestone Lake. The outgranted facilities reviewed were American Electric Power (Flyash Disposal Area), Bluestone Conference Center, Bluestone State Park, Bluestone State Park Marina, Bluestone Treatment Plant (Raw Water Pumping Station), Glen Lyn Park, West Virginia Division of Natural Resources (WVDNR) Bluestone Wildlife Management Area, and WVDNR Wildlife Section. Previous Environmental Compliance Reviews at this site were conducted on 24-26 May 1993 (Cycle I), 16-19 April 1996 (Cycle II), and 25-27 September 2001 (Cycle III), and were referenced during this review. The review was conducted under the protocols of The Environmental Assessment and Management (TEAM) guide, developed by USACERL (Special Report EC 95/05, November 1994). The purpose of the review was to ensure that routine business of the Operations project, as well as all outgranted facilities, are in compliance with all Federal, State and local environmental laws, regulations, and directives.

This "External" Environmental Compliance Review provides an environmental "snapshot in time;" in this case 8-10 August 2006, and will not reflect improvements made since that time by the project or its outgranted facilities; it documents what the conditions were at the time the assessment was undertaken. This provides a record of the environmental health of a project and outgrants on the record date, as well as providing a basis against which progress can be measured. For the next four fiscal years, Bluestone Lake (excluding the outgrants) will undergo an annual "Internal" Assessment, which documents progress made against any findings in this report, lists any new findings since this report, and addresses the status of any uncorrected findings.

BACKGROUND:

Bluestone Lake is located in Hinton, West Virginia. Construction on the dam began on 19 January 1942. Work was suspended during World War II and resumed in January 1946. The project was completed for operational purposes in January 1949. Total construction cost was approximately \$30 million. The reservoir is operated for the control of floods on the New and Kanawha Rivers, and is part of the flood control system for the Ohio and Mississippi Rivers. The operation of Bluestone Lake, in combination with Sutton Lake on the Elk River and Summersville Lake on the Gauley River, provides protection from floods for the highly populated and industrialized Kanawha River valley. These three reservoirs control 57 percent of the total drainage area at Charleston, and Bluestone Lake controls 44 percent of this total. When

Bluestone Dam was built, hydroelectric power was authorized and six penstocks (sluiceways for guiding water to generators) were installed for future use. In 2001, the dam stabilization and modernization project and a hydroelectric power installation project were commenced. The top length of the dam is 2,048 feet, with a top width of 16 feet, and the maximum base width is 200 feet. The top of the dam is at elevation 1,535 feet. There are 21 crest gates measuring 30 feet in width by 31 feet high. The maximum discharge capacity is 430,000 cubic feet per second. Project personnel manage the dam site and operate the structure, to include parking, a scenic overlook, picnic facilities, and an Interpretive Center. Other facilities include a State Park, marina, camping, cabins, boating, fishing, skiing, and other recreational activities.

PROCEDURE AND PERSONNEL:

This Environmental Compliance Review considered the twelve major environmental compliance categories, with special emphasis to those pertinent to the site. It was conducted by a team effort of trained Operations and Real Estate personnel from the District Office, and Bluestone Lake project personnel. Members of this team review were:

Denis Chabot, PE, Environmental Engineer – CELRH-OR-E (Team Leader)
Melva Adkins, Realty Specialist – CELRH-RE-MM

Assisting from the Bluestone Lake project was:

Lloyd D. (Dean) Bonifacio, Park Manager – CELRH-OR-BLN
Tommy Blankenship, Maintenance Worker – CELRH-OR-BLN
David E. Staley, Maintenance Mechanic Leader – CELRH-OR-BLN

Assisting from the Kanawha Area Office was:

Edward A. Nicklow, Park Manager – CELRH-OR-KAO

The team was met and assisted at American Electric Power Flyash Disposal Area by:

Joe Ryder, Plant Environmental Coordinator – American Electric Power
Lee McKinney, Technician – American Electric Power

The team was met and assisted at the Bluestone Conference Center by:

Mark Miller, Camp Director

The team was met and assisted at Bluestone State Park by:

Brett McMillion, Superintendent

The team was met and assisted at the Bluestone State Park Marina by Melvin Ryan

The team was met and assisted at the Bluestone Treatment Plant, Raw Water Pumping Station by:

John Pentasuglia, Production Supervisor
Dave Thomas, Water Quality Supervisor

The team was met and assisted at Glen Lyn Park by:

Howard Spencer – Town of Glen Lyn, Virginia

The team was met and assisted at the West Virginia Division of Natural Resources Bluestone Wildlife Management Area by:

Melissa Pettrey, Administrative Assistant – WVDNR

The team was met and assisted at the West Virginia Division of Natural Resources Wildlife Section, by:

Ronald L. Roles, Wildlife Manager – WVDNR

COMPLIANCE CATEGORIES:

The compliance categories considered were:

- Category I – Air Emissions Management
- Category II – Cultural & Historic Resources Management
- Category III – Hazardous Materials Management
- Category IV – Hazardous Waste Management
- Category V – Natural Resource Management
- Category VI – Pesticide Management
- Category VII – Petroleum, Oil, & Lubricant Management
- Category VIII – Solid Waste Management
- Category IX – Special Pollutants Management: Radon, PCB's, Asbestos & Noise
- Category X – Underground Storage Tanks (USTs) Management
- Category XI – Waste Water Management
- Category XII – Water Quality Management

CATEGORY OF FINDINGS:

For the purpose of this summary, "comments" and "findings" are described as:

- a. **SIGNIFICANT:** A finding requiring immediate action to mitigate direct threats to human health, safety, environment, or the site mission.
- b. **MAJOR:** A finding which requires a relatively large commitment of time, human resources, or financial resources, but poses no immediate threat to human health, safety, environment, or the site mission.
- c. **MINOR:** A finding that can be addressed with relatively modest expenditures of time, human resources, and/or financial resources.
- d. **GENERAL COMMENT:** A comment on a positive (good) or poor management practice, but one that is not a violation of any federal, state or local law.

SUMMARY OF FINDINGS:

BLUESTONE PROJECT SITE: The environmental program at Bluestone Lake is **very good**, and no Significant, Major or Minor findings of non-compliance were noted at the project site during this review. **13 comments** of a general nature (plus **1 positive comment**) are found within.

OUTGRANTS: Findings of non-compliance were noted for the outgranted areas. **1 Major finding**, **4 Minor findings** and **31 comments** of a general nature (plus **4 positive comments**) are listed. Efforts continue by the Real Estate Division to convince the parties responsible at the outgranted areas to bring those facilities into compliance.

APPENDICES (SPECIFIC COMMENTS) FOR OPERATIONS PROJECTS:

Appendix A-1 provides a summary of specific comments by category for Corps facilities at Bluestone Lake under the management of Operations and Readiness Division personnel. The Appendix indicates that the environmental program at facilities under Operations and Readiness Division at Bluestone Lake are well managed, and no significant, major or minor findings of any non-compliance were noted at the project site during this review.

Appendix A-2 contains detailed descriptions of the **13 general comments** pertaining to the Bluestone Lake project (including the Contractor Compound, but not including outgranted areas, which are not the responsibility of Bluestone O&M personnel). In addition, each finding or comment contains a recommended corrective action. Note that the recommendation is just that of the team members, and Bluestone Lake's Park Manager is encouraged to solicit other ideas or implement local ideas towards these improvements.

APPENDICES (SPECIFIC FINDINGS) FOR OUTGRANTED (REAL ESTATE) AREAS:

Findings of major and minor non-compliance were noted at outgranted areas. Recommendations to correct the **1 Major finding, 4 Minor findings** and **31 comments** of a general nature are included. Efforts continue by the Real Estate Division to convince the parties responsible at the outgranted areas to bring those facilities into compliance.

Appendix B-1 provides a summary of specific findings by site pertaining to the outgranted areas within the boundaries of the Bluestone Lake project.

Appendix B-2(A,B,C,D,E,F,G,H) contains applicable comments and detailed descriptions of each finding pertaining to the outgranted areas within the boundaries of the Bluestone Lake project. Also included are recommended remedies to all findings.

Appendix B-2A provides information concerning environmental condition at the American Electric Power Flyash Disposal Area.

Appendix B-2B addresses findings/comments at the Bluestone Conference Center

Appendix B-2C addresses findings/comments at Bluestone State Park

Appendix B-2D addresses findings/comments at Bluestone State Park Marina

Appendix B-2E provides information concerning environmental condition at the Bluestone Treatment Plant (Raw Water Pumping Station)

Appendix B-2F addresses comments at Glen Lyn Park

Appendix B-2G addresses comments at the West Virginia Division of Natural Resources (WVDNR) Bluestone Wildlife Management Area

Appendix B-2H addresses findings/comments at the WVDNR – Wildlife Section

APPENDIX A - 1

SUMMARY OF FINDINGS BLUESTONE LAKE OPERATIONS AND READINESS DIVISION

The following summarizes the number and types of findings or comments for each category pertaining to facilities under the responsibility of the Operations and Readiness Division:

CATEGORY I – AIR EMISSIONS MANAGEMENT

No findings, facility in compliance

CATEGORY II – CULTURAL & HISTORIC RESOURCES MANAGEMENT

No findings, facility in compliance

CATEGORY III – HAZARDOUS MATERIALS MANAGEMENT

No findings, 9 general comments, facility in compliance

CATEGORY IV – HAZARDOUS WASTE MANAGEMENT

No findings, facility in compliance

CATEGORY V – NATURAL RESOURCE MANAGEMENT

No findings, facility in compliance

CATEGORY VI – PESTICIDE MANAGEMENT

No findings, facility in compliance

CATEGORY VII – PETROLEUM, OIL, & LUBRICANT MANAGEMENT

No findings, 3 general comments, facility in compliance

CATEGORY VIII – SOLID WASTE MANAGEMENT

No findings, 1 general comment, facility in compliance

CATEGORY IX – SPECIAL POLLUTANTS MANAGEMENT: RADON, PCB'S, ASBESTOS & NOISE

No findings, facility in compliance

CATEGORY X – UNDERGROUND STORAGE TANKS (USTS) MANAGEMENT

No findings, facility in compliance

CATEGORY XI – WASTE WATER MANAGEMENT

No findings, facility in compliance, 1 positive comment

CATEGORY XII – WATER QUALITY MANAGEMENT

No findings, facility in compliance

APPENDIX A - 2

DETAILED FINDINGS & REMEDIES ENVIRONMENTAL COMPLIANCE REVIEW **BLUESTONE LAKE** OPERATIONS AND READINESS DIVISION

CATEGORY III – HAZARDOUS MATERIALS MANAGEMENT

Location: Dam; Third Floor; Oil Closet

General Comment/Recommendation: The project does a good job of keeping many of the drums and containers of various materials in a single location in the Oil Closet on the third floor. No secondary containment has been made available for these materials. **Recommend** that the project utilize the Oil Closet room as secondary containment by installing a liquid proof lip completely across the access to the closet.

Location: Contractor Compound

General Comment/Recommendation: Gasoline and oil were observed being stored in the contractor's trailer. Secondary containment was not being provided, and any leak from the gasoline and oil containers would leak from the trailer and immediately contaminate the ground below. **Recommend** that all liquid fuels, oil, and other liquid chemicals be placed within proper secondary containment. Further, all gasoline should be stored at the point furthest from the door, to permit personnel to escape in the event of a fire.

Location: Old Barge

General Comment/Recommendation: Hydraulic hoses on old barge may degrade over time due to use, weather, and sunlight. Hydraulic hoses may not show signs of impending failure, but fail instantly under load. A ruptured hose under load can quickly evacuate the contents of the hydraulic tank into the environment. **Recommend** that:

- 1) The hoses frequently be visually inspected, and
- 2) That a hose change-out cycle be implemented and adhered to. This change-out cycle should be developed by determining from the manufacturer the maximum expected life of the hoses, then applying a factor to compensate for the effect of the hoses being out-of-doors year-round, in cold and hot weather, and sunlight.

Location: Old Barge

General Comment/Recommendation: A spill kit should be permanently stationed on the old barge for use if a hydraulic hose ruptures, or if any type of oil leak should occur. **Recommend** that this spill kit be obtained and stored in a clean, dry container which is covered to protect from sunlight, moisture, and heat to prevent premature deterioration of the absorbent material.

Location: Contractor Compound; Pole Building

General Comment/Recommendation: Various flammable and combustible materials are stored at the site. **Recommend** that National Fire Protection Association (NFPA) signs be posted on or next to the entrance to the Pole Building to assist emergency personnel. These signs should indicate the highest hazard levels contained in each building in the *Health* (blue), *Flammability* (red), and *Reactivity* (yellow) diamonds.



Location: Contractor Compound

General Comment/Recommendation: An unmarked drum of material was observed at the Contractor Compound. **Recommend** that this drum be either labeled or properly disposed of.

Location: Contractor Compound

General Comment/Recommendation: A propane tank at the contractor compound was not marked as to contents; there were also no warnings posted to prohibit smoking. **Recommend** that this tank be labeled as to contents, and “No Smoking within 50 feet” signs be conspicuously posted.

Location: Maintenance Compound; Truck-mounted Fuel Tank

General Comment/Recommendation: A truck-mounted fuel tank was observed at the Maintenance Compound which did not have warnings to prohibit smoking. **Recommend** that this tank be provided with “No Smoking” signs on all sides except for the side up against the truck cab.

Location: Contractor Compound

General Comment/Recommendation: Lead-acid batteries were observed under the trailer without secondary containment. **Recommend** that the batteries be placed in secondary containment; otherwise completely removed from the site and cores recycled.

CATEGORY VII – PETROLEUM, OIL, & LUBRICANT MANAGEMENT

Location: Dam; Fifth Floor

General Comment/Recommendation: An abandoned diesel tank remains in the dam; there are no plans to re-activate usage of this tank. **Recommend** that the tank be removed from the dam, cut into two or more pieces, and taken to the landfill. Special precautions are required prior to cutting fuel tanks; OR-BLN may contact OR-E for advice prior to taking this step.

Location: Dam; Fourth Floor

General Comment/Recommendation: An oil tank for the penstock gates has been installed on the Fourth Floor of the Dam which is not fitted with secondary containment. **Recommend** that adequate secondary containment be installed for this oil tank.

Location: Dam; Fourth Floor

General Comment/Recommendation: The hydraulic tank for the drift and debris tower is located on the Fourth Floor of the Dam, and does not have secondary containment. **Recommend** that adequate secondary containment be installed for the hydraulic tank.

CATEGORY VIII – SOLID WASTE MANAGEMENT

Location: Scrap Yard

General Comment/Recommendation: The scrap yard had an inordinate amount of material which was not cataloged and haphazardly stored. In addition to safety and some minor environmental concern, the material was obviously becoming waste

material, and the area is quickly becoming an unlicensed junk yard. **Recommend** that the scrap yard be given a discerning review for what to keep and what should be disposed of, either through recycling or paid landfill.

CATEGORY XI – WASTE WATER MANAGEMENT

Location: Lift Station (in field between Maintenance Compound and Dwelling)

General Comment: A pump test was performed on the lift station. All parts of the lift station were found to be in good condition and working properly. *(Note: That the Lift Station was found to be in excellent operating condition indicates a Good Management Practice).*

APPENDIX B - 1

SUMMARY OF FINDINGS BLUESTONE LAKE REAL ESTATE DIVISION (**OUTGRANTS**)

The following summarizes the number and types of findings or comments for each category pertaining to facilities under the responsibility of the Real Estate Division:

CATEGORY I – AIR EMISSIONS MANAGEMENT

No findings, all outgranted facilities in compliance

CATEGORY II – CULTURAL & HISTORIC RESOURCES MANAGEMENT

No findings, all outgranted facilities in compliance

CATEGORY III – HAZARDOUS MATERIALS MANAGEMENT

Bluestone Conference Center: 1 Minor finding, 3 general comments

Bluestone State Park: 1 Minor finding, 8 general comments, 1 positive comment

Bluestone State Park Marina: 1 Major finding, 1 general comment

WVDNR Bluestone Wildlife Management Area: No findings, 8 general comments

WVDNR Wildlife Section (Parks): No findings, 3 general comments

No findings at other outgranted facilities; these other facilities in compliance

CATEGORY IV – HAZARDOUS WASTE MANAGEMENT

No findings, all outgranted facilities in compliance

CATEGORY V – NATURAL RESOURCE MANAGEMENT

No findings, all outgranted facilities in compliance

CATEGORY VI – PESTICIDE MANAGEMENT

No findings, all outgranted facilities in compliance

CATEGORY VII – PETROLEUM, OIL, & LUBRICANT MANAGEMENT

WVDNR Wildlife Section (Parks): 1 Minor finding

No findings at other outgranted facilities; these other facilities in compliance

CATEGORY VIII – SOLID WASTE MANAGEMENT

Bluestone State Park: No findings, 1 general comment

WVDNR Bluestone Wildlife Management Area: No findings, 1 general comment

No findings at other outgranted facilities; these other facilities in compliance

CATEGORY IX – SPECIAL POLLUTANTS MANAGEMENT: RADON, PCB'S, ASBESTOS & NOISE

No findings, all outgranted facilities in compliance

CATEGORY X – UNDERGROUND STORAGE TANKS (USTS) MANAGEMENT

No findings, all outgranted facilities in compliance

CATEGORY XI – WASTE WATER MANAGEMENT

Bluestone Conference Center: No findings, facility in compliance, 2 positive comments

Bluestone State Park Marina: 1 Minor finding

Glen Lyn Park: No findings, 1 general comment

No findings at other outgranted facilities; these other facilities in compliance

CATEGORY XII – WATER QUALITY MANAGEMENT

Bluestone Conference Center: No findings, 1 general comment, 1 positive comment

Bluestone State Park: No findings, 2 general comments

Glen Lyn Park: No findings, 1 general comment

WVDNR Wildlife Section (Parks): No findings, 1 general comment

No findings at other outgranted facilities; these other facilities in compliance

APPENDIX B – 2A

DETAILED FINDINGS & REMEDIES
ENVIRONMENTAL COMPLIANCE REVIEW
BLUESTONE LAKE
AMERICAN ELECTRIC POWER FLYASH DISPOSAL AREA
REAL ESTATE DIVISION (OUTGRANT)

NOTE: No findings were observed at the American Electric Power Flyash Disposal Area. The ERGO team reviewed practices at the site, and discussed procedures with the Plant Environmental Coordinator. Discussion focused on the processes for fly-ash compaction and cover.

The site is in excellent shape. Wild animals (deer, rabbit, waterfowl) were observed utilizing the reclaimed portions at the northern end of the site. No erosion or release of any fly-ash were noted.

The disposal area has a collection system and monitoring wells completely along the perimeter. Since the date of the inspection on 9 August 2006, AEP has submitted sampling reports to OR-E showing the results from these monitoring wells. All readings are either non-detectable or well below the limits which the State of Virginia Department of Environmental Quality (VDEQ) requires of AEP. The State also monitors air quality at the site.

The site will require perpetual mechanical “brush hogging” and monitoring by American Electric Power Company. Real Estate Division will need to require this.

(NOTE: American Electric Power is utilizing Good Management Practices with regards to the Glen Lyn Flyash Disposal Area).

APPENDIX B – 2B

DETAILED FINDINGS & REMEDIES
ENVIRONMENTAL COMPLIANCE REVIEW
BLUESTONE LAKE
BLUESTONE CONFERENCE CENTER
REAL ESTATE DIVISION (OUTGRANT)

CATEGORY III – HAZARDOUS MATERIALS MANAGEMENT

Finding Number: BLN/06-03-001

Ranking: Minor

Location: Shop

Comment: Oil, 5-gallon gasoline cans, mineral spirits, and oil-based paint are being stored at this location without any secondary containment.

Recommendation: Gather all compatible materials together in a few distinct locations and provide adequate secondary containment. Adequate requires that the containment be large enough to hold 110 percent of the largest container in the system if a release occurs. Reminder when designing secondary containment: gasoline must be placed away from exits.

Location: Shop

General Comment/Recommendation: Unlabeled drums of used oil were observed at the site. The drums were also not provided with secondary containment. **Recommend** the drums be marked "USED OIL" in accordance with state law, and placed within adequate secondary containment.

Location: Shop

General Comment/Recommendation: Various materials are stored at the site. **Recommend** that National Fire Protection Association (NFPA) signs be posted on or next to the access doors of the Shop to assist emergency personnel. These signs should indicate the highest hazard levels contained in each building in the *Health* (blue), *Flammability* (red), and *Reactivity* (yellow) diamonds.



Locations:

- 1) Carpenter Shop
- 2) Pool

General Comment/Recommendation: MSDS sheets were only available in the Main Building, but were not available in the Carpenter Shop or at the Pool, where most materials were being stored and used. **Recommend** that Conference Center personnel ensure that MSDS sheets are available for all materials on site, and the these MSDS sheets are available at all times in the areas where the materials are being stored, mixed, applied or used.

CATEGORY XI – WASTE WATER MANAGEMENT

Location: Sewage Lagoon

General Comment: The Sewage Lagoon was checked and found to be operating properly. At this area there was no odor, and the NPDES permit had been secured. *(Note: This check of the Sewage Lagoon indicates that the Bluestone Conference Center operates this area using Good Management Practices).*

Location: Lift Station

General Comment: The Lift Station on the site was checked and found to be operating properly and maintained with no problems. *(Note: This indicates that the Bluestone Conference Center operates this area using Good Management Practices).*

CATEGORY XII – WATER QUALITY MANAGEMENT

Location: Water Plant

General Comment: The Water Plant was checked and found to be in good repair and utilizing good housekeeping and recordkeeping. A check of records of turbidity indicated that turbidity levels were on an order of magnitude 10 times lower than allowable. *(Note: This check of the turbidity at the Water Plant indicates that the Bluestone Conference Center operates this plant using Good Management Practices).*

Location: Main Building; and other areas on site

General Comment/Recommendation: At the Main Building, a hose was connected to a threaded spigot and was found lying in a sink. The spigot did not contain a vacuum breaker (backflow preventer), and the situation was perfect for the siphoning of contaminated water back into the drinking water system. **Recommend** that all threaded hose connections on site be inventoried and a vacuum breaker be placed on each threaded spigot. The Conference Center was provided with a working sample vacuum breaker and should purchase and install similar vacuum breakers for all remaining spigots.

APPENDIX B – 2C

DETAILED FINDINGS & REMEDIES
ENVIRONMENTAL COMPLIANCE REVIEW
BLUESTONE LAKE
BLUESTONE STATE PARK
REAL ESTATE DIVISION (OUTGRANT)

CATEGORY III – HAZARDOUS MATERIALS MANAGEMENT

General Note:

Bluestone State Park corrected the most serious deficiency identified during the 2001 ERGO assessment, that of chlorine gas cylinders being employed as disinfectant for the swimming pool. Mishandling or accidental discharge of the chlorine gas, which is heavier than air and would have hovered just above the surface, could have resulted in many deaths and injuries during a day of heavy visitation. Park personnel have removed all cylinders from the system, and now utilize solid tablets for disinfections, which are easy to handle and improve safety. *(This correction indicates a Good Management Practice).*

Finding Number: BLN/06-03-002

Ranking: Minor

Location: Gas Shed

Comment: At this location, gasoline and diesel products are dispensed into equipment and vehicles. Currently, the fuel dispensing takes place on a surface of gravel over earth. Overfills or inattention could result in spills which immediately contaminate the environment.

Recommendation: Recommend that a fuel-dispensing pad be poured whenever funds permit. The surface of this pad should be liquid-tight, and sloped only gently (approx. 1/16" per foot or less) which will allow time for personnel to place absorbents on a spill when it occurs. Recommend also that the State Park personnel procure some absorbents in readiness for a spill event, storing them near the dispensing pumps in a position where they can be reached within a few seconds.

(Note: This was a general comment five years ago; it is elevated to a Minor Finding due to lack of attention to this easy fix, as well as continual fueling operations being performed at this location)

Location: Gas Shed

General Comment/Recommendation: Hydraulic oils, gasoline cans containing fuel, motor oil, transmission fluid, and kerosene are all being stored at the Gas Shed without proper secondary containment. **Recommend** that adequate secondary containment be provided for these and all other fuel and chemically-based products.

Location: Maintenance Shop

General Comment/Recommendation: Unlabeled drums of used oil were observed at the Maintenance Shop. **Recommend** the drums be marked "USED OIL" in accordance with state law. (See next comment concerning placement within adequate secondary containment).

Location: Maintenance Shop

General Comment/Recommendation: The secondary containment for the used oil at the Maintenance Shop was computed and was found to be inadequate at current 5' x 7' x less than 1.5 inches. For 110 percent of the largest container, the walls of the secondary containment must be 4 inches in height to provide adequate volume; currently the walls are just over 1 inch in height. **Recommend** the modification be made to increase the volume of the secondary containment.

Location: Maintenance Shop

General Comment/Recommendation: Waste batteries were being stored on a pallet by the side of the Maintenance Shop. In lieu of secondary containment for these batteries, **recommend** that these (battery) cores be removed from the site and taken to a recycling center.

Location: Office

General Comment/Recommendation: Propane tanks at the Office were not marked as to contents; there were also no warnings posted to prohibit smoking. **Recommend** that the tanks be labeled as to contents, and "No Smoking" signs be conspicuously posted.

Location: Pool

General Comment/Recommendation: Muriatic acid is being stored at the Pool without proper secondary containment. **Recommend** that adequate secondary containment be provided for the muriatic acid.

Location: Pool

General Comment/Recommendation: Chlorine and muriatic acid are being stored and used at the Pool, and Material Safety Data Sheets for these chemicals were not present. **Recommend** that MSDS sheets for all materials being used or stored at the Pool be obtained and placed in a convenient and conspicuous location.

Location: Maintenance Shop

General Comment/Recommendation: Various fuels and oils were being stored at the Maintenance Shop. **Recommend** that National Fire Protection Association (NFPA) signs be posted on or next to the access doors to assist emergency personnel. These signs should indicate the highest hazard levels contained in the building by placing the correct numbers in the *Health* (blue), *Flammability* (red), and *Reactivity* (yellow) diamonds.



CATEGORY VIII – SOLID WASTE MANAGEMENT

Location: Maintenance Shop

General Comment/Recommendation: Solid waste was building up on site and had been so for some time. **Recommend** that the solid waste be removed and properly disposed of.

CATEGORY XII – WATER QUALITY MANAGEMENT

Location: Sewage Treatment Plant

General Comment/Recommendation: A threaded hose connection at the Sewage Treatment Plant did not contain an anti-siphon backflow preventer. To protect the drinking water supply from possible contamination which might occur during low

pressure situations, **recommend** that this and all threaded hose connections on site be inventoried and a vacuum breaker be placed on each threaded spigot. State Park personnel were provided with a working sample vacuum breaker and should purchase and install similar vacuum breakers for all remaining threaded hose connections.

Location: Pool

General Comment/Recommendation: Backwash of filters is being discharged onto the ground. An NPDES permit had not been obtained from the State for this discharge. **Recommend** plumbing the backwash discharge into the existing lift station, which would take to backwash water to the sewage treatment plant. In lieu of this, if discharges are to remain unchanged, then **recommend** that the NPDES permit be secured and posted.

APPENDIX B – 2D

DETAILED FINDINGS & REMEDIES
ENVIRONMENTAL COMPLIANCE REVIEW
BLUESTONE LAKE
BLUESTONE STATE PARK MARINA
REAL ESTATE DIVISION (OUTGRANT)

CATEGORY VII – PETROLEUM, OIL, & LUBRICANT MANAGEMENT

Finding Number: BLN/06-07-001

Ranking: **MAJOR**

NOTE: These same findings were observed during Cycle III and documented as Finding Number BLN/01-07-001. These findings have not been corrected by the Bluestone State Park Marina.

Location: Marina, Fuel Oil Tank

Comment: The fuel oil tank was examined by the team and found lacking in several areas. These comments were made:

- 1) An electrical solenoid valve is absent and tank contents could be completely siphoned into lake.
- 2) Tank did not contain proper vents.
- 3) No smoking signs were absent from the tank.

Recommendations:

- 1) That a normally-closed electrical solenoid valve be provided on the tank to prevent the siphoning of the entire contents of the fuel tank into the lake in the event of an accident. The solenoid valve should be wired in conjunction with the dispensing pump, so that when the lever on the pump is raised, the solenoid is energized and opened (*Note: This absence of a siphon prevention device is the deficiency leading to the cause of the assignment of "Major finding."*)
 - 2) That the fuel storage tank be vented to a minimum of 12 feet above ground level.
 - 3) That "Flammable – No Smoking" signs be placed on all 4 sides of the fuel trailer.
-

Location: Marina

General Comment/Recommendation: Gas cans were outside of the fuel trailer without any secondary containment. **Recommend** that the gas cans be placed into adequate secondary containment.

CATEGORY XI – WASTE WATER MANAGEMENT

Finding Number: BLN/06-11-001

Ranking: Minor

Location: Residential Trailer

Comment: The toilet in the trailer is hooked up for use, but sewage outfall discharges into a gray water pit. There is no septic system at the location; no lift station and no commercial sewer. The hookup is not in conformance with code (illegal outfall).

Recommendation: Recommend that the toilet in the trailer be physically removed and the outlet pipe be plugged (and this step verified by the District); then the gray water pit can continue to be used for any sinks and laundry in the trailer.

NOTE: This same finding was observed during Cycle III and documented as Finding Number BLN/01-11-001. This finding was not corrected by the Bluestone State Park Marina.

APPENDIX B – 2E

**DETAILED FINDINGS & REMEDIES
ENVIRONMENTAL COMPLIANCE REVIEW
BLUESTONE LAKE
BLUESTONE TREATMENT PLANT (RAW WATER PUMPING STATION)
REAL ESTATE DIVISION (OUTGRANT)**

General Note:

The ERGO Team met with the Raw Water Pumping Station management, and reviewed the physical facilities at the site. No deficiencies; therefore no findings or comments, were noted in the review. The Bluestone Treatment Plant (Raw Water Pumping Station) management is very interested in environmental protection, and are proving to be good partners with the Corps in this realm.

APPENDIX B – 2F

DETAILED FINDINGS & REMEDIES
ENVIRONMENTAL COMPLIANCE REVIEW
BLUESTONE LAKE
GLEN LYN PARK
REAL ESTATE DIVISION (OUTGRANT)

CATEGORY XI – WASTE WATER MANAGEMENT

Location: Glen Lyn Park; Trailers

General Comment/Recommendation: Part of Glen Lyn Park is a campground, so trailers are permitted to utilize the site. A trailer dump station is provided. However, on the day of the assessment, trailers for an event were also allowed to park behind the comfort station. It was one of these trailers where it was noted that the sewage discharge was exiting the trailer directly to the ground. Mr. Spencer of the town of Glen Lyn spoke with owners of the trailer and requested that they discontinue this practice. The owners were departing the site within two hours, but had been dumping wastewater onto the ground the entire week. Because of this incident, the ERGO team examined every trailer at the site to ensure no other were releasing wastewater, and determined that none were. **Recommend** that the City of Glen Lyn periodically check to ensure that no trailers are discharging wastewater rather than taking it to the dump station, and ensure that any permission given for a temporary trailer comes with a strict warning that there will be no tolerance for releasing wastewater onto the ground. Instances of this should be immediately reported to Real Estate Division.

CATEGORY XII – WATER QUALITY MANAGEMENT

Location: Various locations at site

General Comment/Recommendation: Several threaded hose connections were seen without anti-siphon backflow preventers. To protect the drinking water supply from possible contamination which might occur during low pressure situations, **recommend** that anti-siphon devices be purchased and placed on all threaded connections. The Superintendent of Public Works for Glen Lyn was provided with a working frostproof backflow preventer as a sample of what should be purchased for hose connectors. All additional backflow preventers should be purchased and installed by the town.

APPENDIX B – 2G

DETAILED FINDINGS & REMEDIES
ENVIRONMENTAL COMPLIANCE REVIEW
BLUESTONE LAKE
WEST VIRGINIA DIVISION OF NATURAL RESOURCES
BLUESTONE WILDLIFE MANAGEMENT AREA
REAL ESTATE DIVISION (OUTGRANT)

CATEGORY III – HAZARDOUS MATERIALS MANAGEMENT

Location: Gashouse

General Comment/Recommendation: A large amount of fuel and oils in 55 gallon drums are stored and used out of the Gashouse. The gashouse has no secondary containment for any of the materials. **Recommend** adequate secondary containment be provided for these materials. On the day of the assessment, adequate secondary containment would have been a minimum of 61 gallons. Due to the large number of drums and other primary containers, recommend that the Gashouse itself be sealed to become secondary containment.

.....

Location: Gashouse

General Comment/Recommendation: Unlabeled drums of used oil were observed at the Gashouse. **Recommend** the drums be marked "USED OIL" in accordance with state law.

.....

Location: Gashouse

General Comment/Recommendation: Some containers at the Gashouse were unlabeled, and Bluestone Wildlife Management Area personnel could not identify some of the materials in the unmarked containers. Other containers were mislabeled. **Recommend** that all materials in the containers be identified, and all containers properly marked.

.....

Location: Gashouse

General Comment/Recommendation: At this location, gasoline and diesel products are dispensed into equipment and vehicles. Currently, the fuel dispensing takes place on a surface of gravel over earth. Overfills or inattention could result in spills which immediately contaminate the environment. **Recommend** that a fuel-dispensing pad be poured whenever funds permit. The surface of this pad should be liquid-tight, and sloped only gently (1/16" per foot or less) which will allow time for personnel to place absorbents on a spill when it occurs. Recommend also that the Wildlife Management Area personnel procure some absorbents in readiness for a spill condition, storing them near the dispensing pumps in a position where they can be reached within a few seconds.

Location: 3 Locations on Site

General Comment/Recommendation: Three propane tanks at the Wildlife Management Area did not have warnings posted to prohibit smoking. **Recommend** that the tanks be labeled as to contents, and "No Smoking" signs be conspicuously posted.

Location: Mechanics Shop

General Comment/Recommendation: An unmarked sprayer was observed in the Mechanics Shop. **Recommend** that the sprayer be dedicated to the use of one material, and mark the sprayer accordingly for that material.

Location: Welding Shop

General Comment/Recommendation: An oxygen cylinder was observed to be not adequately secured to the structure or a cart at the Welding Shop. **Recommend** that the chain is tightened to secure the cylinder against falling.

Location: Gashouse

General Comment/Recommendation: Various fuels and chemicals are stored in the Gashouse. In the event of a fire, emergency personnel will need to know the hazards faced. **Recommend** that National Fire Protection Association (NFPA) signs be posted on or next to the access doors to assist these



emergency personnel. These signs should indicate the highest hazard levels contained in the building by placing the correct numbers in the *Health* (blue), *Flammability* (red), and *Reactivity* (yellow) diamonds.

CATEGORY VIII – SOLID WASTE MANAGEMENT

Location: Behind Paint Shed

General Comment/Recommendation: A huge collection of solid waste was building up behind the buildings. This collection is haphazardly placed, and is on the verge of becoming a non-permitted disposal area (junk-yard), with the wooded area growing up through the waste. **Recommend** that the solid waste be removed and taken to a licensed landfill (or recycling).

APPENDIX B – 2H

DETAILED FINDINGS & REMEDIES
ENVIRONMENTAL COMPLIANCE REVIEW
BLUESTONE LAKE
WEST VIRGINIA DIVISION OF NATURAL RESOURCES
WILDLIFE SECTION
REAL ESTATE DIVISION (OUTGRANT)

CATEGORY III – HAZARDOUS MATERIALS MANAGEMENT

Location: Fuel Storage Building

General Comment/Recommendation: At this location, gasoline and diesel products are dispensed into equipment and vehicles. Currently, the fuel dispensing takes place on a surface of gravel over earth. Overfills or inattention could result in spills which immediately contaminate the environment. **Recommend** that a fuel-dispensing pad be poured whenever funds permit. The surface of this pad should be liquid-tight, and sloped only gently (1/16" per foot or less) which will allow time for personnel to place absorbents on a spill when it occurs. Recommend also that the Wildlife Section personnel procure some absorbents in readiness for a spill condition, storing them near the dispensing pumps in a position where they can be reached within a few seconds.

Location: Gas House

General Comment/Recommendation: Material Safety Data Sheets (MSDS) were not present at the Gas House. Fuels and other chemicals are being stored or used at this area. **Recommend** that MSDS be obtained for every fuel and chemical on site, and posted conspicuously where the materials are used or stored.

Locations:

- 1) Storage Building
- 2) Well House

General Comment/Recommendation: The LP gas tanks were not labeled as to content and not marked prohibiting smoking. **Recommend** that the tanks be marked "Propane" and also "Flammable, No Smoking," or equivalent. The LP gas company servicing the tank should be able to supply decals, at Wildlife Section personnel's request, likely without charge.

CATEGORY VII – PETROLEUM, OIL, & LUBRICANT MANAGEMENT

Finding Number: BLN/06-07-001

Ranking: Minor

Location: Gas House

Comment: An observation of diesel fuel being stored in a kerosene container was made during the Assessment. Although this is not as dangerous a situation as gasoline being stored in a kerosene container (the result of which would be a Significant or Major finding), it could result in an injurious situation.

Recommendation: Recommend that all containers be marked properly, and the contents always be double-checked to ensure that the material contained is that which is stated on the label.

CATEGORY XII – WATER QUALITY MANAGEMENT

Location: Various locations at site

General Comment/Recommendation: In 2001, the ERGO team recommended that all threaded hose connections at the site be fitted with anti-siphon backflow preventers. Wildlife Section Management has decided to prohibit drinking of the water and use it only for non-potable purposes. This is an acceptable practice, but there are no warnings that the water is not potable. **Recommend** that all water points be labeled “Water Not Fit to Drink,” or equivalent.

APPENDIX E
DEED SEARCHES

TRACT	GRANTOR	GRANTEE	D. B. / PG.	TRANSFER DATE	NOTES
Map 11 par 1.58 0.6Ac	Ball, Ethel S. (widow); Ball, Thomas & Irene K. (h&w); Ball, Robert & Elizabeth (h&w); Meadows, Emma J. & Harvey S. (h&w); Ball, Benjamin (single); Ball, Jack G. (infant); Ball, James O. Jr & Mary Elizabeth (h&w).	State Road Commission	87/342	15-Oct-52	Portion of 8.63 Ac

TRACT	GRANTOR	GRANTEE	D. B. / PG.	TRANSFER DATE	NOTES
Map 11 par 150 0.90 Ac	Kirk, Maxine J (widow)	Kirk, Jerry P & Nannie K (h&w)	218/96	23-Mar-05	Portion of 3.56 Ac
	Kirk, John Robert (deceased)	Kirk, Maxine J (widow)	WB 20/629	19-Sep-03	
	Skaggs, Gordon H (deceased)	Kuhn, Mary A;	WB 9/398	18-Nov-79	
	WV DOH	Skaggs, Gordon H;	119/215	18-Jan-73	
	Ball, J.O. & Eithel (h&w)	WV DOH	66/120	5-Jan-35	

TRACT	GRANTOR	GRANTEE	D. B. / PG.	TRANSFER DATE	NOTES
Map 11 par 150.1 4.11 Ac	Ball, Ethel S. (widow); Ball, Thomas & Irene K. (h&w); Ball, Robert & Elizabeth (h&w); Meadows, Emma J. & Harvey S. (h&w); Ball, Jack G. (infant); Ball, James O. Jr & Mary Elizabeth (h&w).	Angotti, John & Wilma (h&w)	108/13	15-May-71	8/12 Interest
	WV DOH	Ball, Ethel S. (widow); Ball, Thomas & Irene K. (h&w); Ball, Robert & Elizabeth (h&w); Meadows, Emma J. & Harvey S. (h&w); Ball, Benjamin (single); Ball, Jack G. (infant); James O. Jr & Mary Elizabeth (h&w).	98/349	15-Oct-52	Quit Claim Deed
	Ball, J.O. & Ethel (h&w)	WV DOH	66/120	5-Jan-35	
	Kirk, Maxine J (widow)	Kirk, Jerry P & Nannie K (h&w)	218/96	23-Mar-05	3/12 Interest
	Kirk, John Robert (deceased)	Kirk, Maxine J (widow)	WB 20/629	19-Sep-03	
	Ball, Benjamin Harrison	Kirk, J. R.	107/744	24-Apr-71	Quit Claim Deed
	WV DOH	Ball, Ethel S. (widow); Ball, Thomas & Irene K. (h&w); Ball, Robert & Elizabeth (h&w); Meadows, Emma J. & Harvey S. (h&w); Ball, Benjamin (single); Ball, Jack G. (infant); James O. Jr & Mary Elizabeth (h&w).	98/349	15-Oct-52	Quit Claim Deed
	Ball, J.O. & Ethel (h&w)	WV DOH	66/120	5-Jan-35	
	Meadows, Mary Eleanor (deceased)	The Hinton First United Methodist Church	WB 24/254	19-Apr-09	1/12 Interest
	Skaggs, Gordon (deceased)	Meadows, Mary Eleanor	WB 9/398	18-Nov-79	
	Ball, Benjamin Harrison	Skaggs, Gordon	107/744	24-Apr-71	Quit Claim Deed
	WV DOH	Ball, Ethel S. (widow); Ball, Thomas & Irene K. (h&w); Ball, Robert & Elizabeth (h&w); Meadows, Emma J. & Harvey S. (h&w); Ball, Benjamin (single); Ball, Jack G. (infant); James O. Jr & Mary Elizabeth (h&w).	98/349	15-Oct-52	Quit Claim Deed
Ball, J.O. & Ethel (h&w)	WV DOH	66/120	5-Jan-35		

TRACT	GRANTOR	GRANTEE	D.B. / PG.	TRANSFER DATE	NOTES
Map 11 par 159 0.56 Ac	Skaggs, Gordon H (deceased)	Meadows, Mary Elizabeth	WB 9/398	18-Nov-79	1/2 Interest
	WV DOH	Skaggs, Gordon H; Kirk, John Robert	119/215	18-Jan-73	
	Lilly, V.T. & Ada Mae (h&w)	WV DOH	66/116	30-Jul-35	
	Kirk, Maxine J (widow)	Kirk, Jerry P & Nannie K (h&w)	218/96	23-Mar-05	1/2 Interest
	Kirk, John Robert (deceased)	Kirk, Maxine J (widow)	WB 20/629	19-Sep-03	
	WV DOH	Skaggs, Gordon H; Kirk, John Robert	119/215	18-Jan-73	
	Lilly, V.T. & Ada Mae (h&w)	WV DOH	66/116	30-Jul-35	

APPENDIX F
QUALITY CONTROL PLAN

Preparer of the Phase I Hazardous, Toxic, and Radioactive Waste Investigation Report on the Bluestone Dam DSMS Contractor Work Limits (CWL), Hinton, WV: Daniel F. Stark

Qualifications: See below.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

 31-MAY-2016
Daniel F. Stark, PG Date
Environmental Geologist

Environmental Professional in Responsible Charge: Daniel F. Stark, PG

Qualifications:

Relevant Education:

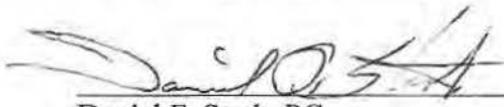
MS, 33 Semester hours – Environmental Science, WV College of Graduate Studies
1993-2001

BS, Geology, West Virginia University, 1979

Relevant Experience:

1996-present, Environmental Geologist, US Army Corps of Engineers – Perform environmental site assessments and plan and manage environmental investigation and remediation of residential and commercial sites.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of this part.

 31-MAY-2016
Daniel F. Stark, PG Date
Environmental Geologist

**PROJECT SPECIFIC QUALITY CONTROL PLAN
BLUESTONE DAM DSMS CONTRACTOR WORK LIMITS
(CWL), HINTON, WV
PHASE I HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE
(HTRW) SITE INVESTIGATION**

I. Purpose.

This Quality Control Plan (QCP) presents the policy and specific actions that are being implemented on this program to insure that high quality products are produced on time and within budget. It defines the responsibilities and roles of each member on the Independent Quality Control Team. This QCP covers the review of Phase I HTRW Investigations prepared by the Environmental and Remediation Section (CELRH-EC-CE) and those prepared by an Architect-Engineer (A-E) consultant.

II. References.

- a. ER 1110-1-2 Engineering and Design Quality Management
- b. CELRDC 5-1-1 Quality Management Plan
- c. CELRHR 5-2-5 Quality Management Plan
- d. Work Instruction 3.36.2, Huntington district ISO standard for conducting Phase I Environmental Site Assessments, 28 March 2003
- e. EM 385-1-1 Safety and Health Requirements Manual
- f. ASTM E 1527-15 and E 1528-14, ASTM Standards on Environmental Site Assessments for Commercial Real Estate
- g. ER 1110-2-1150, Engineering and Design - Engineering and Design for Civil Works Projects, 31 August 1999.

III. General.

- A. Type of Project** – Phase I HTRW Environmental Site Assessment Report on Bluestone Dam DSMS Contractor Work Limits (CWL).
- B. Location** – Bluestone Dam, Miller Avenue, Hinton, WV.
- C. Customer/Sponsor** – The customer for this project is the U.S. Army Corps of Engineers.
- D. Project Description** – Assessment of all project lands that could be contaminated prior to conducting work on the site. A site assessment of all project lands shall include investigation of adjacent properties from which contamination could migrate. The Assessment shall consist of an environmental site assessment using standard practices to determine the potential for or presence of hazardous, toxic, or radioactive waste (HTRW) or other environmental concerns.

IV. Quality Control Plan.

An effective Quality Control Plan (QCP) is important to the undertaking of this program due to the potential risks that HTRW poses to human health and the environment. An effective QCP will ensure that a high quality technical product will be produced that will require little or no revision prior to a quality assurance review.

A qualified environmental professional from CELRH-EC-CE is responsible for compiling the Quality Control Plan. A QCP review team shall review this document.

V. Quality Control Process.

The Phase I HTRW Investigation shall be conducted by a functional team of qualified environmental professionals from CELRH-EC-CE with full communication between team members. The Lead Environmental Professional shall be responsible for coordination of the Phase I investigation and the development of the final report in accordance with standard practices, policies, and guidelines. The functional team will be responsible for ensuring a quality product is produced through internal checks, review and interaction with the Independent Quality Control Team (IQCT) members assigned to monitor project Quality.

The QCP shall apply to all tasks/activities and products (SSHP and Draft/Final reports) associated with this project. The Quality Control Plan was prepared according to [ER 1110-1-12 Change 2, Engineering and Design, Quality Management, 31 March 2011](#); LRD Regional Business Processes Manual: 08000 Engineering & Construction: 08504 LRD – QC/QA Procedures for Civil Works; 08504 LRH –QCP Work Instruction; and the applicable ISO processes developed for this type of work.

The QCP addresses all work information and activities required for the SSHP and Phase I HTRW Investigation. The plan addresses the responsibilities and roles of each member on the Independent QC Team (IQCT), along with those preparing or performing the tasks/activities for this project. Quality control shall be managed in compliance with required ISO procedures for quality control. USACE guidance documents and links to the ISO 9000 process can be found on the internet at the following address: <https://pmbpmanual.lrl.ds.usace.army.mil/qualtrax/>

The draft and final versions of the Phase I HTRW Report shall include a separate QC appendix that includes an activity review checklist (appropriate checks on those activities that were performed/reviewed) for the specific product along with a signed sheet which designates the name, date and official work title of the those persons performing/conducting the following activities: performance of activities/investigation, independent review of documents/reports, and approval of all work necessary to complete these activities. All comments and responses from USACE's QC review of the draft SSHP, QCP, and Phase I HTRW Report shall be included in the QC appendix of the final plans and reports.

VI. IQCT Review Team.

An IQCT will be assembled and will consist of experienced professionals knowledgeable of the technical requirements, customer needs, and schedule. Reviewers will be independent of the Functional Team. Members of the Environmental and Remediation Section or other district elements may serve as reviewers if they have not participated in report preparation.

Only quality products will be released from the IQCT review team. All members of the review team will sign a quality certification sheet.

VII. Quality Assurance.

A quality assurance (QA) review of the Phase I HTRW Investigations executed by CELRH-EC-CE will be conducted by the designated Quality Assurance team member.

Phase I HTRW Investigation Reports that are prepared by CELRH-EC-CE will be kept on file in the district office. Reports that contain questionable findings or recommendations for Phase II will be sent to the CELRN Environmental Restoration Design Center (ERDC) for QA review.

VIII. Resolution and Documentation.

The reviewers will provide a written record of comments for resolution. The functional team will respond to all comments and incorporate appropriate changes. Review comments and responses form an important record that completes the final product. Documentation of the independent review will be consistent, accurate, and a permanent part of the record.

IX. Checklist.

A checklist is included in Section XII of this plan and is intended to serve as a guide in checking or reviewing the Phase I HTRW Investigation Report. The checklist shall not substitute for sound judgment by reviewers.

X. QC Certification

The QC Certification will be completed on a project by project basis and placed in the project file.

XI. Project Schedule.

The Environmental & Remediation Section will follow the schedules as set by the Project Delivery Team (PDT) and Planning Division.

XII. QC Review Checklist

Project: Bluestone Dam DSMS Contractor Work Limits (CWL), Phase I HTRW
Environmental Site Assessment Report.

QC Reviewer: Janet K. Wolfe

The following checklist is provided for QC review. Response "Y", "N", or "NA" should be marked in the space provided.

A. Introduction / Executive Summary

Y

B. Site Description

1. Background and Site History
2. USGS Topographic Map
3. Site Vicinity Map
4. Site Map

Y
Y
Y
Y

C. Assessment Methodology

1. Environmental Screening
2. Deed Search
3. Aerial Photo's
4. Site Reconnaissance
5. Site Photo's
6. Ascertainable/Standard Sources
7. Safety Plan
8. Interviews
9. Data Review
10. Conformance to ASTM Standards

NA
Y
Y
Y
Y
Y
Y
Y
Y
Y

D. Summary of Findings

Y

E. Conclusions

Y

F. Exposure Assessment

NA

G. Recommendations

1. Other Actions

Y
NA

H. Appendices

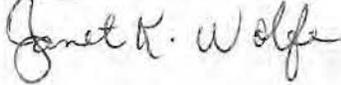
1. Site Maps
2. Interview Records
3. Photo documentation
4. Environmental Screening Data

Y
Y
Y
Y

XIII. Quality Certification Document

This is to certify that the Lead Environmental Professional and the IQCT members have reviewed the attached document in accordance with the Quality Control Plan. All comments resulting from the various reviews have been resolved and incorporated.

Internal Quality Control Team

	NAME	SIGNATURE	DATE
LEP:	Daniel F. Stark		23-June-2016
	IQCT: Janet K. Wolfe		23-June 2016



MEMORANDUM FOR CELRH-EC-CE, ATTN: Dan Stark

SUBJECT: Comments on the Draft Phase I Environmental Site Assessment, Bluestone Dam, Contractor Work Limits (CWL), Dam Safety Modification Study, June 2016

1. Comments on the above referenced document are included below.
2. General Comment: I noticed you have Roman Numerals for page numbers rather than Arabic Numerals (i.e., 1, 2, 3, etc.). Just checking to see if this is intentional.
3. Section 1, Introduction, line 3. Clarify "this study". Are you referring to the DSMS or the Phase I ESA? In line 5, clarify "this area". Are you referring to the stilling basin?
4. Section 1.4.3, Records of State & Fed Agencies, page xi – 1st full paragraph. Information you have here about "these 2 sites" that "could not be plotted" could be referenced in Section 1.4.8, Orphan Sites.
5. Section 1.4.4, Ownership History. Tract maps for the non-federal properties should be included. What type of activities was conducted on the property by DOH? Did they store explosives for blasting activities in road construction? Any gas, oil, chemicals, maintenance products, etc. stored at this location during DOH use?
6. Section 1.4.5, Other Phase I HTRW Reports. Provide a clearer reference to the previous HTRW Report. Include the date and name of the report.
7. Section 1.4.6. CELRH Operations Division has files for old ERGO Reports. Operations Division also has UST files. Have you checked the ERGO files to see if there are ERGO Reports preceding the August 2006 ERGO Report? Operations' UST files should have a record of the UST Closures. The records could show if any soil was remediated and if Closure was deemed complete by WVDEP.
8. Section 2, Investigative Findings, 2nd line, page xiii. Re: "this study". Same comment as No. 3 above.
9. Section 2.1, CWL Area. Tract maps for the non-federal properties should be included. The locations of these tracts should also be shown on Figure 3.
10. Section 2.1.1, Phase I Investigation Results, page xiv. You could include Parcel Numbers for each of the property owners in the bulleted list.
11. Section 3, References. Correct the typo. ASTM 1527-135 should be corrected to ASTM 1527-13.
12. Appendix A, Project Mapping. Tract maps of the non-federal properties should be included in the report. The drawing (Figure 3) of the CWLs in Appendix A should be revised to include the location of the non-federal properties.

13. Appendix D, ERGO Report. For clarity, you could include a statement in the body of the ESA report that indicates that none of the outgranted facilities (i.e., AEP flyash disposal area, raw water pumping station, etc.) listed on pg 1 of the Bluestone Lake Cycle IV Environmental Compliance Review are located within the CWLs.

14. Appendix D, ERGO Report. In Category VIII – Solid Waste Management, there is mention of a scrap yard. Is this storage/disposal area located within the CWLs? If so, provide a current status of the scrap yard.

15. Appendix D, ERGO Report. In Category XI – Waste Water Management, there is mention of a lift station. Is this storage/disposal area located within the CWLs?

16 Appendix F. Quality Control Plan, Section V, Quality Control Process. The references should be checked and updated if necessary. The following are helpful suggestions:

- a. I couldn't find those same documents you referenced in Section V your QCP when I recently updated the QCP for one of my recent projects. I finally made a reference to the following in Qualtrax: "LRD Regional Business Processes Manual: Quality Management System Operational Process".
- b. I've checked Qualtrax again. Under the LRD Regional Business Processes Manual, there are the following subsections under 08000 Engineering & Construction: 08504 LRD – QC/QA Procedures for Civil Works; 08504 LRH –QCP Work Instruction.
- c. The section 08504 LRD - QC/QA Procedures for Civil Works has a reference to [ER 1110-1-12 Change 2, Engineering and Design, Quality Management, 31 March 2011](#).
- d. We can check Qualtrax further to see if there are other references that should be included. I've also suggested that it would be good if additional guidance/training be provided to our section on this.

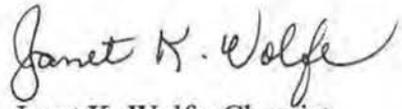
17. Appendix F. Quality Control Plan. Section V, Quality Control Process. The link to MYCO in the 3rd paragraph would not open. This may be a website that has changed.

18. Appendix F. Quality Control Plan. Section XII, QC Review Checklist. The name of the project needs to be changed to Bluestone.

19. Appendix I, Color Photographs. Recommend that the CWL drawing (Figure 3 in Appendix A) include the location of some or all of the following that is shown in the photos:

- Contractor warehouse (photo 10)
- Contractor concrete plant (photo 11)
- Contractor Spoil Site (photo 12)
- Contractor Petroleum Area (photo 13)
- Diesel AST (15)
- Contractor's trailer office (photo 19)
- Contractor's yard & easement (photo 20)
- LRH Operations office/warehouse (photos 23 & 24).

20. If you have any questions, let me know.

A handwritten signature in black ink that reads "Janet K. Wolfe". The signature is written in a cursive style with a large initial 'J' and a long, sweeping tail.

Janet K. Wolfe, Chemist
Environmental and Remediation Section

MEMORANDUM FOR CELRH-EC-CE, ATTN: Janet Wolfe

SUBJECT: Response to Comments on the Draft Phase I Environmental Site Assessment, Bluestone Dam, Contractor Work Limits (CWL), Dam Safety Modification Study, June 2016

1. Response to your comments on the above referenced document are included below.
2. General Comment: I noticed you have Roman Numerals for page numbers rather than Arabic Numerals (i.e., 1, 2, 3, etc.). Just checking to see if this is intentional.
Response: This document will be an Appendix to an EIS. Roman Numerals were intentionally utilized to differentiate from main EIS report.
3. Section 1, Introduction, line 3. Clarify “this study”. Are you referring to the DSMS or the Phase I ESA? In line 5, clarify “this area”. Are your referring to the stilling basin?
Response: “This study” refers to the DSMS, and has been clarified. “This area” refers to the CWL, and has been clarified.
4. Section 1.4.3, Records of State & Fed Agencies, page xi – 1st full paragraph. Information you have here about “these 2 sites” that “could not be plotted” could be referenced in Section 1.4.8, Orphan Sites.
Response: Concur. Sites have been discussed in Section 1.4.8.
5. Section 1.4.4, Ownership History. Tract maps for the non-federal properties should be included. What type of activities was conducted on the property by DOH? Did they store explosives for blasting activities in road construction? Any gas, oil, chemicals, maintenance products, etc. stored at this location during DOH use?
Response: Concur. Tract map showing the non-federal properties is included in Appendix A as Figure 4. As stated in the report, the DOH utilized the property to relocate State Route 20; any property not required for the right-of-way of State Route 20 was sold. The relocation of the roadway was performed in the 1940’s; records indicating storage of explosives, gas, oil, and chemicals would not be specific.
6. Section 1.4.5, Other Phase I HTRW Reports. Provide a clearer reference to the previous HTRW Report. Include the date and name of the report.
Response: Concur. The date of the older Phase I HTRW Report has been included. A copy of the report is not available, so the name of the report has not been included.
7. Section 1.4.6. CELRH Operations Division has files for old ERGO Reports. Operations Division also has UST files. Have you checked the ERGO files to see if there are ERGO Reports preceding the August 2006 ERGO Report? Operations’ UST files should have a record of the UST Closures. The records could show if any soil was remediated and if Closure was deemed complete by WVDEP.
Response: The ERGO report gives a snapshot of the compliance of the project with all Federal, State, and local environmental laws. The 2006 report indicated no current impact of the UST removal. Discussion with Dean Bonifacio, who was present during the UST removal in 1992

and the 2006 ERGO review, indicated that there was no environmental impact related to the USTs. The UST files were not acquired for the report.

8. Section 2, Investigative Findings, 2nd line, page xiii. Re: “this study”. Same comment as No. 3 above.

Response: Concur. “This study” has been clarified.

9. Section 2.1, CWL Area. Tract maps for the non-federal properties should be included. The locations of these tracts should also be shown on Figure 3.

10. Section 2.1.1, Phase I Investigation Results, page xiv. You could include Parcel Numbers for each of the property owners in the bulleted list.

Response: Concur. Parcel numbers have been included.

11. Section 3, References. Correct the typo. ASTM 1527-135 should be corrected to ASTM 1527-13.

Response: Concur. Corrected.

12. Appendix A, Project Mapping. Tract maps of the non-federal properties should be included in the report. The drawing (Figure 3) of the CWLs in Appendix A should be revised to include the location of the non-federal properties.

Response: Concur. Tracts of non-federal properties were annotated on Figure 3.

13. Appendix D, ERGO Report. For clarity, you could include a statement in the body of the ESA report that indicates that none of the outgranted facilities (i.e., AEP flyash disposal area, raw water pumping station, etc.) listed on pg 1 of the Bluestone Lake Cycle IV Environmental Compliance Review are located within the CWLs.

Response: Concur. Language included indicating that the outgranted facilities are not located in the CWL.

14. Appendix D, ERGO Report. In Category VIII – Solid Waste Management, there is mention of a scrap yard. Is this storage/disposal area located within the CWLs? If so, provide a current status of the scrap yard.

Response: Concur. The scrap yard was located outside of the CWL and has been removed.

Language referencing this scrap yard has been included.

15. Appendix D, ERGO Report. In Category XI – Waste Water Management, there is mention of a lift station. Is this storage/disposal area located within the CWLs?

Response: The location of the lift station is noted in the ERGO report and is not included in the CWL.

16 Appendix F. Quality Control Plan, Section V, Quality Control Process. The references should be checked and updated if necessary. The following are helpful suggestions:

- a. I couldn't find those same documents you referenced in Section V your QCP when I recently updated the QCP for one of my recent projects. I finally made a reference to the following in Qualtrax: “LRD Regional Business Processes Manual: Quality Management System Operational Process”.

- b. I've checked Qualtrax again. Under the LRD Regional Business Processes Manual, there are the following subsections under 08000 Engineering & Construction: 08504 LRD – QC/QA Procedures for Civil Works; 08504 LRH –QCP Work Instruction.
- c. The section 08504 LRD - QC/QA Procedures for Civil Works has a reference to [ER 1110-1-12 Change 2, Engineering and Design, Quality Management, 31 March 2011](#).
- d. We can check Qualtrax further to see if there are other references that should be included. I've also suggested that it would be good if additional guidance/training be provided to our section on this.

Response: Concur. References have been updated.

17. Appendix F. Quality Control Plan. Section V, Quality Control Process. The link to MYCO in the 3rd paragraph would not open. This may be a website that has changed.

Response: Concur. Link has been updated.

18. Appendix F. Quality Control Plan. Section XII, QC Review Checklist. The name of the project needs to be changed to Bluestone.

Response: Concur. Name of project changed to Bluestone.

19. Appendix I, Color Photographs. Recommend that the CWL drawing (Figure 3 in Appendix A) include the location of some or all of the following that is shown in the photos:

- Contractor warehouse (photo 10)
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- Diesel AST (15)
- Contractor's trailer office (photo 19)
- Contractor's yard & easement (photo 20)
- LRH Operations office/warehouse (photos 23 & 24).

Response: Concur. The above locations were annotated on Figure 3.

20. If you have any questions, let me know.

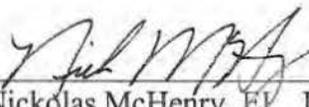


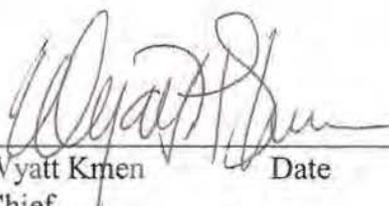
Daniel F. Stark, Environmental Geologist
Environmental and Remediation Section

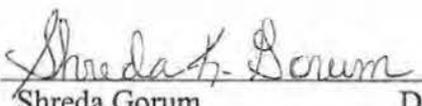
APPENDIX G
SITE SAFETY AND HEALTH PLAN

**GENERIC
SITE SAFETY AND HEALTH PLAN
FOR
PHASE I HTRW ENVIRONMENTAL SITE ASSESSMENTS**

Prepared by:
U.S. Army Corps of Engineers
Huntington District
502 8th Street
Huntington, West Virginia 25701-2070

Prepared by:  6/2/2010
Nickolas McHenry, EI Date
Environmental Engineer
Environmental and Remediation Section

Reviewed by:  10/19/10
Wyatt Kmen Date
Chief
Environmental and Remediation Section

Approved by:  10/19/10
Shreda Gorum Date
Safety & Occupational Specialist
Safety Office

1.0 INTRODUCTION

1.1 Purpose. The purpose of this Site Safety and Health Plan (SSHP) is to establish personnel protection standards, mandatory safety practices, and procedures for all work conducted in the execution of Phase I HTRW Investigations and Asbestos Inspections. The plan assigns responsibilities, establishes standard operating procedures, and provides emergency procedures while operations are being conducted during these field activities. This SSHP is designed to comply with the USACE Safety and Health Requirements Manual, EM 385-1-1, 03 November 2003.

1.2 Policy. The provisions set forth in this SSHP are mandatory for all personnel who perform or assist in the conduct of this work. All personnel must become familiarized with the requirements of this SSHP prior to performance of any Phase I HTRW Investigation or Asbestos inspection. The SSHP shall be amended to be site-specific, i.e., show local hospital route, site locations, etc., prior to each new field activity.

2.0 SITE DESCRIPTION AND CONTAMINATION CHARACTERISTICS

2.1 General. Sites to be investigated will include residential or commercial properties, civil works sites, former manufacturing facilities, military sites, or work for others sites.

2.2 Contamination Characteristics. Investigations and inspections at sites other than typical residential or commercial (non-industrial) shall be performed with extreme caution due to the unknown nature of the contaminants. Contamination may range from minor petroleum contamination (fuel spills, motor oil) or improperly disposed household wastes, to more toxic wastes such as PCBs, heavy metals, dioxins, volatiles, and ordnance. Prior to the site visit, the inspection team shall assess the hazardous and toxic contamination potential for the site and amend this SSHP, as appropriate. It is noted that intrusive sampling, other than sampling for asbestos containing materials (ACM), is beyond the scope of Phase I HTRW Investigations.

Each site shall be thoroughly inspected for any evidence of HTRW contamination in accordance with the requirements of ASTM E 1527-05 and ASTM E 1528-00. Structures shall be inspected for potential ACM and samples taken and analyzed in accordance with USEPA guidance for this work. The site shall be thoroughly walked over and inspected for any signs of contamination, such as distressed vegetation, partially buried drums, excavation or fill activities, underground storage tanks, soil staining, etc.

3.0 HAZARD/RISK ANALYSIS

3.1 Chemical Hazards. Inspectors could be exposed to a variety of contaminants; however, due to the non-intrusive nature of a Phase I investigation, the likelihood for exposure is very minimal. Inspectors shall not open any drums or underground storage tanks (USTs), nor

disturb any other areas of suspect contamination. If a hazardous or toxic condition is evident or suspected, the team shall immediately cease the investigation and notify the Chief, Environmental and Remediation Section. Re-entry to the site shall not be permitted until the situation has been thoroughly investigated.

ACM inspectors shall reduce the risk of exposure to these materials with the use of safe sampling procedures. Inspectors shall wear appropriate respiratory protection if the suspect material appears to be friable. Friable sampling areas shall be wetted prior to sampling and immediately sealed with a clear lacquer or other encapsulating material following the sampling activity.

3.2 Accident Prevention. The most significant hazards expected to be encountered while performing these investigations will be slip, trips, falls, and cuts. These hazards are prevalent due to uneven terrain, weather conditions (rain or snow), dilapidated structures, unstable refuse piles, etc. The use of protective gloves and appropriate footwear will minimize these hazards. Inspectors must remain aware of these hazards at all times and shall employ use of the "buddy system" when performing these inspections to reduce the possibility of injury. Inspectors shall also use sound judgment when inspecting a site and shall cease the inspection immediately when human health and safety is jeopardized. Obviously hazardous areas, such as structures with rotten floors, open tanks and drums, confined space entry, etc., will be avoided.

Execution of these field activities will be conducted during both hot and cold temperatures, as well as during inclement weather. Investigators shall take such precautions as wearing rain suits, layering clothing for cold weather, or wearing loose-fitting clothing during hot weather. Since these activities are not particularly physically taxing, workers should not experience heat or cold stress. Frequent breaks in the shade or in a warm vehicle will be possible, as well as replenishing oneself with cold or warm fluids as applicable.

Other hazards to be aware of are biological hazards, such as bees, ticks, snakes, etc., as well as vicious animals. Fieldwork shall be abandoned when any of these hazards are present and shall not resume until safe site entry can be made.

3.3 Vehicle Operation. Field personnel may require the use of a motor vehicle. All vehicles shall be operated in accordance with EM 385-1-1, 18.B. Key points from the Corps safety manual are:

- Operators shall exercise defensive driving techniques.
- Seat belts shall be worn by all occupants.
- The operator shall have the vehicle under control at all times.
- Vehicles shall be driven at speeds not greater than the posted legal speed limit, weather permitting.
- Vehicles shall not be left unattended until the motor has been shut off and the key removed from the ignition.
- Headlights shall be used from sunset until sunrise and during times of adverse weather or sight conditions.

- All equipment shall be properly secured.
- Vehicle shall be maintained in good working order.
- Personnel shall be clear of traffic when exiting the vehicle.

Special considerations need to be taken for off-road usage of vehicles. Off-road areas include but are not limited to trails, tracks, and haul roads and the following precautions shall be exercised:

- Reduce speed on trails, tracks, and haul roads compared to similarly-constructed civil roads.
- Trails, tracks, and haul roads are not built to highway standards for width and sight distance, so be alert for other vehicles.
- Intersections of trails, tracks, or haul roads must be considered high-risk areas - proceed with extreme caution.
- Cross-country driving is discouraged unless a ground guide is leading the vehicle on foot.
- Grades greater than 10% shall not be driven on.

If all-terrain vehicles (ATVs) or utility vehicles are used, the requirements of EM 385-1-1 Section 18.D or Section 18.F, respectively, must be followed.

4.0 STAFF ORGANIZATION, QUALIFICATIONS AND RESPONSIBILITIES

4.1 Staff Organization. The Corps inspection team shall consist of two field workers, environmental engineers or engineering technicians. If ACM sampling is required, one team member shall be certified to conduct this work. Each individual shall be responsible as a site safety and health officer due to the minimal hazards associated with this work. Key personnel for this work include the following:

Environmental Engineers	Frank Albert, P.E. Lisa Humphreys
Chemist	Janet Wolfe Jason Ritter
Geologist	Daniel Stark, P.G.
Engineering Technician	Jo Huff (Asbestos)

Additional personnel may be essential to these work activities, as approved by the Chief, Environmental and Remediation Section.

4.1.1 Section Chief's Responsibilities. For job-related injuries which require medical treatment, the Section chief shall accompany the injured employee to the medical treatment facility and explain the employee's regular duties and the availability of "Light Duty" so that the injured employee can return to work as soon as medically possible.

4.1.2 Employee's Responsibilities. Employees shall be required to read this SSHP and comply with all aspects contained herein. Employees shall not endeavor to conduct these investigations without use of the "buddy system". Employees shall immediately notify the Chief, Environmental and Remediation Section, of any hazardous or potentially hazardous incident or working situation. Employees shall comply with all property owners' security or clearance requirements. Finally, employees shall comply with a property owner's request to vacate the premises, if so directed, and shall immediately apprise the Chief, Environmental and Remediation Section, of this situation.

4.1.3 Reporting and Investigation. All accidents shall be reported as soon as possible to the Section Chief. The Branch Collateral Duty Safety Officer shall investigate the accident and recommend any corrective actions on ENG Form 3394, furnished to the Safety Office within 2 working days following the accident.

4.2 Training. All investigators have been trained for HTRW work in accordance with 29 CFR 1910.120(e) and receive an annual eight-hour refresher course in hazardous waste site operations. This training meets the requirements of EM 385-1-1, 28.D. All personnel have received Red Cross-sponsored first aid and CPR training and are qualified to administer minor first aid treatment, which is considered adequate for these investigations. Training documentation is on file at the District office. Additionally, all personnel have received site-specific training as required in EM 385-1-1, 28.D.03. Inspectors involved in sampling suspect ACM have received USEPA-sponsored training that meets the requirements of 40 CFR Part 763 AHERA for purposes of accreditation required under Toxic Substances Control Act (TSCA) Section 206. Asbestos inspectors shall also receive an annual training refresher and license renewal.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

5.1 General. All personnel have been issued their own PPE and received training in the proper use of this equipment. Regular inspections of this equipment are the individual's responsibility. Any defective equipment shall be reported immediately to the Section Chief so that a replacement can be issued. All PPE meets or exceeds the appropriate ANSI standard.

5.2 Protection Requirements. The level of protection for these investigations should be Level D. No personnel shall enter a site or situation that requires protection above this level. The minimum requirements for Level D protection are sleeved (long or short) shirts, long trouser pants, and steel-toed safety shoes or boots. Personnel may be required to wear safety glasses with side shields, a hard hat, or protective gloves depending on the work situation (sampling asbestos, entering crawl spaces, etc.). All employees receive regular medical exams to assure that they are physically fit to conduct hazardous waste site investigations in accordance with EM 385-1-1, 05.E. and 29 CFR 1910.120.

6.0 MEDICAL SURVEILLANCE

6.1 General. All employees engaged in HTRW activities are required to enter the District's medical surveillance program, which is executed by the Safety and Occupational Health Office. The program is conducted in accordance with EM 385-1-1, Appendix K and 29 CFR 1910.120 and its appendices. The Safety Office contracts with licensed Occupational Health physicians who are knowledgeable of the physical requirements for hazardous waste site workers.

A baseline physical exam and assessment are conducted to assure that the employee is physically fit to perform the duties required in hazardous waste site operations. This initial exam includes a complete physical examination of major vital organs, chest x-ray, EKG, complete blood workup, audiogram and pulmonary function tests. The examining physician then furnishes the Safety Office a certification of the employee's ability to perform this work or any restrictions that should be imposed.

Annual exams are then conducted which consist of the physical exam, blood work, audiogram, and pulmonary function tests. A chest x-ray and EKG are conducted every third year, or at the discretion of the Safety Office or examining physician. The District Safety Office maintains the medical files for all hazardous waste site workers for a period of 30 years following employment with the Government.. Additional, non-scheduled examinations shall be conducted, given the following conditions:

- After an employee has been subjected to a known acute exposure of a hazardous or toxic material.
- After an employee has been subjected to a potential acute exposure of a hazardous or toxic material.
- At the request of an employee who feels that he or she has the symptoms of an acute exposure.
- Prior to an employee's return to work following extended absence due to work-related injury or illness.

7.0 MONITORING

7.1 Air Monitoring. Due to the non-intrusive nature of these investigations, air monitoring should not be required. Employees shall avoid areas that may be suspect for collection of toxic vapors such as manholes, confined spaces, etc. Sampling for ACM shall be conducted in a controlled manner to eliminate air borne particulates. Employees shall use a respirator as required to conduct this work and shall not allow unprotected field personnel or the public within any exposure areas. Employees using respirators must have annual respirator training.

7.2 Heat/Cold Stress Monitoring. Due to the short term nature of these field investigations, heat or cold stress related problems should not occur. Employees should be able to perform their limited field activities and then seek comfort within a heated or air conditioned

vehicle, in shady areas, in a nearby building, etc.

8.0 STANDARD SAFETY PROCEDURES

Standard safety procedures for these HTRW/ACM activities include the following:

- Employees shall always use the "buddy system".
- Employees shall never open or tamper with drums, containers, USTs, or any other potential sources of hazardous and toxic substances.
- Employees shall use sound judgment when entering potentially dangerous situations, i.e., dilapidated structures, properties with vicious dogs, etc. If any of these situations arise, the investigation shall cease until safe site entry can be made.

9.0 SITE CONTROL

These investigations will be conducted on private, public, and Government property. Site control will not be under the control of the field personnel on public or private property. Personnel shall be required to maintain control within the vicinity of ACM sampling activities, however, to protect other field workers and the public.

10.0 PERSONAL HYGIENE AND DECONTAMINATION

Personnel shall adhere to the standard safety procedures noted in Section 8.0 and avoid contact with any potentially hazardous or toxic substances. If contact is made with minor contaminants, such as petroleum products, normal washing with soap and water should be adequate. Should contact be made with caustic or acidic substances, the exposed area shall be flushed with water for 15 minutes and the injured worker rushed to the local hospital or other medical facility.

Workers involved with sampling of ACM shall take care to avoid contact with any particulates. If exposure occurs, the affected area shall be washed with soap and water to remove any contamination.

Workers shall always practice good hygiene and be sure to wash their hands prior to eating, drinking, or smoking. They shall also thoroughly wash their face, hands, and any other exposed areas following the conduct of daily field activities.

11.0 EQUIPMENT DECONTAMINATION

The equipment necessary to conduct these field activities includes a camera and asbestos sampling tools. Decontamination of the asbestos sampling tools shall be accomplished by wiping the tool clean after each sampling activity to avoid any cross-contamination between samples. Wiping cloths shall be double-bagged and disposed of in a sanitary landfill.

12.0 EMERGENCY EQUIPMENT AND FIRST AID

All employees engaged in these activities have received Red Cross-sponsored training in minor first aid and CPR. Since the "buddy system" shall be employed during these activities, the requirement in EM 385-1-1 to have two employees on the site certified in first aid and CPR shall be met. The Government vehicle shall be equipped with a first aid kit to treat minor injuries. The first aid kit shall be restocked prior to each field investigation and checked to assure that the contents have remained sterile.

13.0 EMERGENCY RESPONSE

13.1 General. If an emergency arises that involves a major personal injury, fire, or other threat to the surrounding area, local emergency responders shall be contacted. Since these activities may be conducted in remote locations, employees must become familiar with the location of the closest medical facility and the most direct route to that facility.

13.2 Emergency Contacts:

Ambulance	911
Fire and/or Sheriff	911
Summers County ARH 1500 Terrace St, Hinton, WV	(304) 466-1000

13.3 Directions to Hospital:

1. Head **north** on **Miller Ave.** 0.5 mi
2. Turn **right** onto **WV-3/Greenbrier Drive** 1.3 mi
3. Turn **right** onto **Terrace Street** 0.1 mi
4. Destination will be on the **left**.

APPENDIX A
JOB HAZARD ANALYSIS

**JOB HAZARD ANALYSIS
FOR
PHASE I HTRW INVESTIGATIONS & ASBESTOS INSPECTIONS**

ACTIVITY	HAZARD	REMEDY
<i>Vehicle operation</i>	<ol style="list-style-type: none"> 1. Inclement weather or visibility hazards. 2. Medication or other drowsiness. 3. Other drivers and traffic. 	<ol style="list-style-type: none"> 1. Always wear seat belts; use headlights from dusk to dawn or in fog; obey posted speed limit; slow down as appropriate; apply 2 second rule. 2. Never operate a vehicle if medication causes drowsiness; never drive if you are sleepy or otherwise impaired. 3. Use defensive driving techniques; park your vehicle clear from traffic.
<i>Phase I HTRW Inspection</i>	<ol style="list-style-type: none"> 1. Slip, trip and fall 2. Unknown HTRW 3. Confined spaces 4. Biological and physical hazards 	<ol style="list-style-type: none"> 1. Assure firm footing; do not climb unstable slopes; wear protective footwear. 2. Never open drums, containers or underground storage tanks for these investigations. 3. Never enter confined spaces for these investigations. 4. Use tick or insect repellent; do not enter sites with vicious animals.
<i>Asbestos sampling</i>	<ol style="list-style-type: none"> 1. Airborne particulates. 2. Cuts or abrasions. 3. Sample cross-contamination. 	<ol style="list-style-type: none"> 1. Adequately wet the sample area prior to sampling; wear respiratory protection as required. 2. Wear protective leather gloves; always use a sharp sampling tool. 3. Thoroughly wipe sampling tools after each sampling activity.

701 Miller Ave

Hinton, WV 25951

- ↑ 1. Head north on Miller Ave toward Rose St 0.5 mi
- ↘ 2. Turn right onto WV-3 E/Greenbrier Dr 1.3 mi
- ↘ 3. Turn right onto Terrace St 0.1 mi
 - i Destination will be on the left

Summers County ARH Hospital

1500 Terrace Street, Hinton, WV 25951

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



Map data ©2016 Google 1000 ft

701 Miller Ave

Hinton, WV 25951

- ↑ 1. Head north on Miller Ave toward Rose St 0.5 mi
- 2. Turn right onto WV-3 E/Greenbrier Dr 1.3 mi
- 3. Turn right onto Terrace St 0.1 mi
i Destination will be on the left

Summers County ARH Hospital

1500 Terrace Street, Hinton, WV 25951

APPENDIX H
INTERVIEWS

CONVERSATION RECORD

TIME
1330

DATE
20-April-2016

TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING
 OUTGOING

ROUTING

NAME/SYMBOL	INT

Location of Visit / Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

Dean Bonifacio, Park Manager

ORGANIZATION (Office, dept., bureau,

CELRH-OR-BLN

TELEPHONE NO.

304-466-1234

SUBJECT

Environmental Concerns - Bluestone Dam

SUMMARY

Dean Bonifacio, Bluestone Park Manager, has worked at Bluestone Dam since 1990. Dean stated that they removed the three USTs at their maintenance office in 1992. At the time of removal, no evidence of contamination was present in the tank pits; confirmation samples were taken and they came back clean. A 250 gallon diesel tank is present inside the dam structure for the emergency generator. The tank is double-walled, and there has been no diesel spills. Dean stated that the past, or ongoing, Phased construction Contractors have not environmentally impacted the areas that comprise the proposed CWL for Phase 5.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

Daniel F. Stark

SIGNATURE



DATE

20-April-2016

ACTION TAKEN

SIGNATURE

TITLE

DATE

CONVERSATION RECORD

TIME 13:00

DATE 24-March-2016

TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING
 OUTGOING

ROUTING

NAME/SYMBOL	INT

Location of Visit / Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU
Whitfield Lance

ORGANIZATION (Office, dept., bureau,
CELRH-EC-C-BLN

TELEPHONE NO.
304-466-6950

SUBJECT

Environmental Concerns - Bluestone Dam

SUMMARY

Whitfield Lance has been a Construction Inspector at Bluestone Dam for 19 years. During his tenure, there has been no incidents at, or in close proximity to the Bluestone Dam that would environmentally impact the Project. As a requirement of the construction Contractors during Phase 1 through Phase 4, they were/are obligated to advise the RE Office of any environmental incidents that would impact the site and remediate the concern according to State and Federal regulations. The Contractors were/are required to verify that the CWLs have no environmental concerns after their construction contracts are finished.

ACTION REQUIRED

None.

NAME OF PERSON DOCUMENTING CONVERSATION

Daniel F. Stark

SIGNATURE

DATE

25-March-2016

ACTION TAKEN

SIGNATURE

TITLE

DATE

APPENDIX I
COLOR PHOTOGRAPHS



**Photo BLN01 – CWL Behind Dam
24 March 2016**



**Photo BLN02 – Left Descending Bank Behind Dam
24 March 2016**



**Photo BLN03 – Access Road to Corps Dock & Boat Launch Ramp
24 March 2016**



**Photo BLN04 – Corps Dock and Boat Launch Ramp
24 March 2016**



**Photo BLN05 – Wide Area#1 Between State Route 20 and Lake
24 March 2016**



**Photo BLN06 – Wide Area#2 Between State Route 20 and Lake
24 March 2016**



**Photo BLN07 – Phase 3 CWL Downstream Right Bank
24 March 2016**



**Photo BLN08 – Phase 3 CWL Adjacent to Dam and Emergency Stilling Basin
Downstream Right Bank
24 March 2016**



**Photo BLN09 – Phase 3 CWL Downstream of Emergency Stilling Basin Right Bank
24 March 2016**



**Photo BLN10 – Phase 3 Contractor's Warehouse Downstream Right Bank
24 March 2016**



**Photo BLN11 – Phase 3 Contractor’s Concrete Plant Downstream Right Bank
24 March 2016**



**Photo BLN12 – Phase 3 Contractor’s Spoil Site Downstream Right Bank
24 March 2016**



**Photo BLN13 – Phase 3 Contractor’s Petroleum Containment Area
Downstream Right Bank
24 March 2016**



**Photo BLN14 – Phase 3 Contractor’s Petroleum Containment Area
Downstream Right Bank
24 March 2016**



**Photo BLN15 – Phase 3 Contractor Diesel AST Adjacent to Emergency Stilling
Basin Downstream Right Bank
24 March 2016**



**Photo BLN16 – Phase 3 Contractor Diesel AST Adjacent to Emergency Stilling
Basin Downstream Right Bank
24 March 2016**



**Photo BLN17 – Phase 4 CWL Adjacent to Dam Left Bank and Stilling Basin
24 March 2016**



**Photo BLN18 – Public Fishing Pier Left Bank and Stilling Basin
24 March 2016**



**BLN19 – Phase 4 Contractor’s Trailer Office on Easement
Downstream Left Bank
18 May 2016**



**BLN20 – Phase 4 Contractor’s Yard and Warehouse on Easement
Downstream Left Bank
18 May 2016**



**BLN21 – Phase 4 Contractor’s Easement
Downstream Left Bank
18 May 2016**



**BLN22 – Parking Lot Adjacent to Dam on Left Abutment
18 May 2016**



**BLN23 – Operations Office 701 Miller Avenue
18 May 2016**



**BLN24 – Operations Office and Warehouse 701 Miller Avenue
18 May 2016**

CERTIFICATION OF RECORDS SEARCH
BLUESTONE LAKE PROJECT
AEP FLY ASH DISPOSAL
TRACTS NOS. 70, 70-A, 71-1, 71-A, 71-2 and 300B

1. A comprehensive search of pertinent records was conducted on November 2016 by CELRH- EC-CE

2. Summary of records search:

() No records were found which indicated that this property has been the site of a release, storage or disposal of any hazardous substances.

(X) The records search delineated in paragraph 1 (above) indicates that a problem may exist concerning hazardous substances in relation to the tracts of land associated with this action. See attached Findings prepared by this office.

() There are no available records on subject tracts.

BY: 

DATE: 29-December-2016

MEMORANDUM FOR CELRH-RE-Q, ATTN: Steven Rhodes, Jr.

SUBJECT: Bluestone Lake Project, AEP Flyash Site, Update of Environmental Baseline Study (EBS) for Tracts Nos. 70, 70-A, 71-1, 71-A, 71-2, and 300B

1. Reference the email request from Steven Rhodes, Jr., CELRH-RE-Q, dated 26 October 2016, requesting an EBS for subject tracts in order to dispose of land that had been leased by American Electric Power (AEP) at the Glen Lyn Power Plant .
2. The subject tracts are located along the left descending embankment of the New River in Giles County, Virginia, downstream of the town of Glen Lyn. The subject tracts are generally level property adjacent to the New River.
3. A records search was conducted in November 2016. No internal records could be found concerning the subject tracts, however, records supplied by AEP indicate the presence of fly ash landfills and impoundments on some of the subject tracts.
4. Tracts 70 and 70-A have been identified as containing two fly ash landfills and a leachate pond. One landfill, designated as AEP Landfill, was operated from 1977 to 2010 when it was closed and capped. The other landfill, designated by AEP as West Pond, was operated from 1974 and is presently inactive awaiting closure. The leachate pond is currently active servicing the two adjacent landfills.
5. Tracts 71-1 and 71-A have been identified as containing a fly ash pond, designated by AEP as Auxiliary Fly Ash Pond, closed in 2014 and awaiting closure.
6. Tracts 71-2 and 300B are located adjacent and downstream of an ash pond, designated by AEP as Bottom Ash Pond. This ash pond was constructed in 1957 and is presently inactive awaiting closure. This ash pond, though not on the two tracts, is in the flooding easement for the New River.
7. Fly ash contains metals that, in certain concentrations, have the potential to be hazardous substances. The landfills and ponds are also located in the low lying areas that are subject to flood water inundation and erosion. The potential erosion during flood events could compromise the stability of the ponds and landfills resulting in exposure of the New River to the fly ash.
8. The Corps of Engineers (USACE) has not performed any activities on or in close proximity to the subject tracts that would environmentally impact them.
9. USACE has not detected any environmental impact downstream as a result of the activities performed by AEP on or in close proximity to the subject tracts.

10. For further information, please contact Dan Stark at x5363 (office), or daniel.f.stark@usace.army.mil.

A handwritten signature in black ink, appearing to read "Wyatt H. Kmen", with a long horizontal flourish extending to the right.

WYATT H. KMEN
Chief, CELRH-EC-CE

