

# **MOUND SITE ASSESSMENT OF POST-CLOSURE DATA NEEDS**

## **I. Purpose of This Document**

This document is prepared in response to a task sponsored by John Lee, DOE, as part of the effort to evaluate future capabilities of the Landtrek project, a web-based information repository on site closure practices within the Department of Energy (DOE), the Department of Defense (DOD), and other Federal agencies. The DOE Mound Site is approaching key site closure milestones, and therefore it was determined that an evaluation of information requirements would identify key requirements for post-closure information at Mound and potentially other DOE sites. A key component of this analysis was to evaluate whether these future needs could be satisfied through web-based solutions, such as those offered through the Landtrek project.

The project sponsor at the DOE Mound Site was Arthur Kleinrath, DOE. Mr. Kleinrath provided the team conducting this assessment access to key information users and providers, and assisted the team in developing the content and organization of this document. The team focused on analyzing three components relative to Mound closure and post-closure information:

- Type of information required by users, discussed in Section IV, V, and VI.
- Processes by which information is disseminated, discussed in Section VII.
- Future access requirements for this information, either electronic or paper-based, and the type of repositories that will best serve the user groups after site closure, discussed in Section VIII.

In Section IX, recommendations are presented for proceeding forward with the development of a final information collection, management, and transfer solution.

## **II. Project Background**

The Mound Site is at the forefront of site closure policies, activities, and information needs. As DOE reduces and ultimately eliminates its presence at the Mound Site, the responsibility for converting the property to other industrial uses, and continuing to maintain the property for this purpose, may be divided among several entities. In addition, DOE's responsibility for the site may not completely transfer to other parties. Monitoring of groundwater and institutional controls will continue, and DOE will need to be responsive to future cleanup actions, should the need arise after closure.

For DOE to exit smoothly, information on the history, cleanup actions, and current site activities will need to be accessible to all parties involved in closure, transition, and stewardship. Since Mound will be one of the first sites to enter closure and stewardship, many of the users, specific information needs, and information access processes have not been defined. The intent of this analysis is to document what is known about the future information needs, what decisions will need to be made relative to the availability and transfer of that information, and the viability of Internet-based technologies as a mechanism to deliver and maintain this information.

## **III. Summary of Findings**

Interviews and documentation reviews clearly indicate that DOE and its site contractor staff, BWX Technologies of Ohio (BWXTO), have long-standing processes for collecting and disseminating information to a variety of user groups outside of the Mound complex, and that these processes have been very effective over the years. It is also clear that for effective information access to continue in the future without the DOE and BWXTO presence, new information repositories and user access processes will need to be developed prior to site closure. There is an opportunity to leverage the technologies and documentation available at the site now, and a challenge to utilize these resources through new communications mechanisms that provide access to information in the future. General conclusions reached through this analysis are summarized below:

- The current information transfer processes at Mound are efficient and effective in reaching multiple audiences.

- Often, there are overlaps in information requirements across user groups; different user groups require the same type of information, although differences in preferred presentation, format, and level of detail might exist. Given these similarities common platforms for information management and access can be used in the future to address various information needs.
- Many of the information transfer processes needed after site closure have not been identified, but are to be defined through the Site Stewardship and Operation and Maintenance plans currently being developed. Since DOE and BWXTO's obligations to maintain the current information repositories will no longer exist after site closure, responsibilities for future ownership and management of information need to be defined.
- A suite of resources will likely be needed to address all post-closure information needs. Due to the public's interest in maintaining a communication mechanism similar to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) public reading room, and other user groups' preference for electronic access (e.g., monitoring data database, mapping system), this suite of resources should include both electronic and paper-based access.
- A publicly accessible web site can serve as a component of the suite of resources used for site closure information and can be integrated into the Landtrek project.

#### IV. Information Needs Evaluation Process

Representative individuals that are Mound Site employees, employees of regulatory agencies, members of stakeholder groups, and employees of other local, city, or state organizations that currently take an interest in the Site were interviewed to identify post-closure information needs. A total of 28 interviews were conducted in person and by phone (see Attachment A: List of Interviewees). Each interviewee was asked a standard set of questions regarding current and future usage of Mound information (see Attachment B: Interview Questions to Identify Post-Closure Information Needs). These questions were developed to capture key characteristics about information needs and usage patterns that will assist in creating a profile for future information needs requirements. These key characteristics are shown in Table 1.

**Table 1: Information Needs and Usage Characteristics**

Characteristic	Description
Ownership	Identifies the organization responsible for generating and updating information.
Management	Identifies the organization responsible for maintaining information and location of that information.
Media	Identifies if the information is in a paper, electronic, web-based, or other media.
Format	Identifies if the information is in a full document, spreadsheet, database, map, drawing, or photograph format.
Level of Detail	Identifies if the information is full document or other summarization (e.g., tables), and the level of detail needed to support decision-making.
Accessibility	Identifies if the information is easily obtainable and available to users (i.e., level of effort to get information is minimal), and preferred access capabilities.
Consistency	Identifies if information characteristics remain constant or vary over time, and if information sources are reliable.
Completeness	Identifies if the information addresses an issue or topic in its entirety, and is necessary for decision-making.
Update Frequency	Identifies how often information is updated (e.g., quarterly, as needed basis) and how often users need information updates.
Update Trigger	Identifies the event that requires information to be updated (e.g., sampling event) and the event that requires users to obtain updated information.
Organization	Identifies how the information is optimally organized (e.g., chronologically, geographically, by topic area).

## V. Interview Results

Based on the interviews conducted, current and potential users of Mound information now and in the post-closure phase are organized into the following groups:

- **General Public Interest Group** –includes members of local environmental groups, the general public in the Miamisburg area, and other local citizens groups.
- **Real Estate Transactions Group** – includes local, regional, and state officials interested in economic development, members of the Miamisburg Mound Community Improvement Corporation (MMCIC) who will take ownership of the Mound Site and oversee the sale or lease of the property parcels to private organizations; and future owners/lessees of property formerly part of the DOE Mound Site.
- **Regulatory Compliance Group** –includes state and local regulators interested in the continued environmental integrity of the Mound Site and ensuring that land use restrictions are properly monitored and enforced, as required by Federal and/or state regulations.
- **City of Miamisburg Management Group** – includes city employees that will assume responsibility for infrastructure support of the Site once it is converted to non-DOE industrial uses, and will need to provide services for water, sewer, and other utilities. Also included are city police and emergency response groups. Some representatives from this group were unavailable at the time of this assessment; therefore this group's information needs may not be complete.
- **Worker Transition Group** – this group includes current DOE and/or BWXTO employees that may require access to information on site closure activities where these activities or future events affect worker health, receipt of benefits, or other data associated with DOE's responsibility to past employees and contractors. Representatives from this group were unavailable at the time of this assessment; therefore this group's information needs are not provided.

For each of these groups where representatives were interviewed, specific types of information that they currently receive were discussed to obtain current and future information needs, and the associated format, media, level of detail, and usage patterns for the information. Table 2 summarizes the feedback received from each user group. Detailed tables listing specific information sources and their associated characteristics are presented in Attachment C.

**Table 2 Information Needs Summary by User Group**

<b>Information User Group</b>	<b>General Information Needs</b>	<b>Preferred Media</b>	<b>Preferred Access</b>	<b>Special Considerations / Comments</b>
<b>General Public</b>	Information on Mound Site activities, including general events and cleanup actions. Information required to participate in the CERCLA process by reviewing and commenting on the cleanup actions performed onsite. This group has an interest in learning about Mound’s role in U.S. History; the programs, processes, and operations performed onsite; as well as the impacts from these processes and operations on human health and the environment. In the future, the general public wants to ensure that the site remains protective of human health and the environment for its intended use.	Paper – concern that not all public users have electronic access.	Paper mechanism similar to CERCLA Public Reading Room, preferable near or on the Mound Site.  Web site access is also preferred for general information and “news item” information for current activities.	Need access to a more extensive repertoire of site pictures and photographs – preferably through a kiosk.  Need access to detailed vs. summary information on past operations, contamination, and cleanup.  Expressed interest in information on human health and environmental impacts of contaminants found at Mound.
<b>Real Estate Transactions</b>	Information related to property transfer and leasing arrangements; including information associated with availability, characteristics, conditions, and legal requirements of parcels of property or buildings from preparation for transfer through post-transfer. A primary document is the QuitClaim Deed, which dictates the terms and conditions associated with property transfer, and documents historical contamination and cleanup activities.	Electronic – maps, current building layouts, property descriptions, QuitClaim Deed, Mound 2000 documentation.  Paper – as-built drawings, pre-Mound 2000 documentation.	Electronic - through city or regional web site for maps, building layouts, site demographics.  Paper access to old drawings, legal documents, or city-processed paperwork may also be required.	Expressed interest in existing GIS-based resources. However, expressed concern that required expertise to retain a GIS system after closure may not be feasible.
<b>Regulatory Compliance</b>	Regularly receives monitoring data to ensure compliance with permits, CERCLA regulations, Ohio State Regulations, and other Environmental Protection Agency (EPA)-mandated monitoring/documentation requirements. These individuals advise the site on monitoring planning, and assist the public in validating site monitoring results or addressing public concerns. This group needs to be informed of any changes in site conditions, such as soil movement offsite,	Electronic – CD ROM, spreadsheet of monitoring data (including point discharges of surface water, soil, and ground water data).  Paper / electronic– Mound 2000 documentation, site maps, other technical information.	Electronic - same as current for monitoring data.  Electronic access to documents and data is preferred. Paper-only access to some documentation may be unavoidable.	Requires now and in the future detailed technical information and raw data that can be accessed and manipulated.  Expressed interest in GIS-based information and maps.

<b>Information User Group</b>	<b>General Information Needs</b>	<b>Preferred Media</b>	<b>Preferred Access</b>	<b>Special Considerations / Comments</b>
	spikes in monitoring data, or discovery of additional contamination.	Updates to agency-maintained databases.		
<b>Miamisburg City Management</b>	Needs general information on cleanup status, existing contamination, on-going DOE operations, stored chemicals, and infrastructure. This information is required to communicate to the public and local/state authorities, and respond to emergencies, should they occur onsite. Currently, the city has representatives that participate on the Mound Reuse Committee to serve as a bridge between DOE and the public.	<p>Paper and electronic – NPDES permit report and data.</p> <p>Paper and electronic – monitoring data in spreadsheet format.</p> <p>Not all information needs have been identified.</p>	<p>Download electronically for NPDES and monitoring data.</p> <p>Paper media for maps and other official documents is preferred.</p>	<p>Will require access to post-closure information and events (e.g. construction uncovers some contamination or debris) that may be of interest to the public and/or will require an official response from DOE, steward, or regulatory agencies) and keep up to date on “news item” kind of information. To be informed of events and be able to respond in a timely manner, a notification process will need to be in place.</p> <p>A web site for historical and background information would be useful to this group as a reference for exit-state site conditions.</p>
<b>Worker Transition</b>	To be determined.	To be determined.	To be determined.	To be determined.

## VI. Conclusions from Interviews

Based on the interviews conducted, the following conclusions can be made about user group information needs and information transfer processes:

- (1) **The current information transfer processes at Mound are efficient and effective in reaching multiple audiences.** The CERLCA public participation process and DOE Public Reading Room are sufficient mechanisms for communicating and addressing public concerns. Generally, the document format and content associated with the CERCLA process is clear, consistent, reader-friendly, and useful for decision-making. Users also rely heavily on personal relationships with DOE or other site staff to obtain information.
- (2) **The current need to access a variety of information documented in the Site's Administrative Record will continue into the future.** The majority of this documentation is maintained in a paper media, however several users indicated an interest in accessing this information electronically. Based on discussions with DOE and BWXTO employees, documentation generated under the Mound 2000<sup>1</sup> Approach exists in an electronic format. For pre-Mound 2000 documentation, access to electronic files may be difficult, and extensive research would need to be done to determine if electronic files exist. The general public users suggested that the Public Reading Room (with hard copy documentation) be maintained in some future capacity, preferably on or near the Mound Site.
- (3) **A variety of user groups require access to pictures, aerial photographs, maps, and other GIS-based products.** Currently, several sources provide this information, including the GIS system, Mound web site, and the MMCIC. The BWXTO Cultural Resource Coordinator is also collecting historical photographs for the Mound Museum. General public users have an interest in accessing a more extensive repertoire of photographs and maps, possibly through a kiosk. The property transfer and city management groups need a mapping system that is robust to accommodate a wide range of requests.
- (4) **Access to post-closure monitoring data will be required should such monitoring be necessary.** Most current environmental monitoring activities will end once cleanup activities are completed and each parcel of land is prepared for other industrial uses. However, there is potential for some level of groundwater monitoring to continue after site closure, and the city of Miamisburg will take over responsibility for the site wide National Pollution Discharge and Elimination System (NPDES) permit required by the Clean Water Act for all point discharges of surface water. These data are currently maintained electronically in spreadsheets with updates sent to the Ohio Environmental Protection Agency (OEPA) databases on a regular basis. If monitoring continues after site closure, DOE will need to establish responsible parties for ongoing monitoring, and methods to provide these data to regulators. General access to monitoring results may be required either electronically or through a point of contact. It is anticipated that the specific data to be collected after site closure will be defined in the Mound Site-Wide Operations and Maintenance Plan (currently being developed).
- (5) **Access to pre-closure monitoring data, and transfer of some monitoring data to city staff for on-going regulatory compliance will be required.** Environmental monitoring data currently resides in the Mound Environmental Information Management System (MEIMS) and supporting geographic information systems. However, there are issues associated with data characteristics and retrieval that present a risk of retrieving incorrect data sets, or users misinterpreting data. In addition, historical monitoring data will often be associated with a process or location that no longer exists on the site, and where such location or monitoring site boundaries (e.g., Potential Release Sites or "PRSs") may not be relevant to the future site configuration. Further, non-technical users currently rely on intermediate analyses from DOE staff or OEPA representatives to interpret the data. Access to raw data for regulatory users and interpreted data for general users will need to be retained in any future information repository.
- (6) **Monitoring of institutional controls in place at the site, and any violations of those controls is a required information need for all user groups.** Land use restrictions are the centerpiece of the Institutional Controls

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<sup>1</sup> In 1995, DOE and its regulators developed the Mound 2000 Approach, an approach to making decisions about environmental restoration at the Mound Site and its facilities. This approach will be used to address the environmental issues associated with restoration of the site, DOE's exit from the site, and deletion of the site from the National Priorities List (NPL).

implemented at Mound to preserve the protection of human health and the environment over the long-term. These controls have been implemented through deed restrictions, but monitoring for continued compliance with the restrictions, and processes to notify and remind land owners/lessees of those restrictions are still being developed. It is anticipated that the specific data to be collected after site closure will be defined in the Mound Site-Wide Operations and Maintenance Plan (currently being developed).

- (7) **During the post closure phase, information on changes in site conditions or environmental events that occur on the site will need to be communicated in a timely manner.** It appears that any notification of these types of events is currently through the personal network established between DOE and user groups requiring this information. Without DOE contacts in the future, a more formal mechanism for communicating this information may be necessary. This mechanism will need to identify who requires information, what information is needed, and how it will be communicated.
- (8) **Representatives for Worker Transition were not available for interviews during the assessment period.** Therefore, information needs are not identified for this user group.
- (9) **Some representatives for the City of Miamisburg were not available for interviews during the assessment period.** Therefore, information needs identified for this user group may be incomplete.
- (10) **Public interest groups have a need for information on impacts of contaminants and releases on human health and the environment.** This information would optimally be presented by topic area and use common terminology explaining the risks of specific contaminants. In addition, these groups suggested that other general information be provided, such as an explanation of measurements used at the Mound Site (e.g., pCi/g, greys) and differences between waste types (e.g., low-level, industrial).
- (11) **Although several Parcels have been transferred to the MMCIC, a complete listing of detailed documentation necessary for land transfer has not been developed.** The DOE Site Transition Team is spearheading the development of a standardized document package for land transfer. However, discussions between the DOE Site Transition Team and the MMCIC need to be completed in order to define this documentation.

## VII. Information Transfer Process

Figure 1 Mound Information Transfer Process

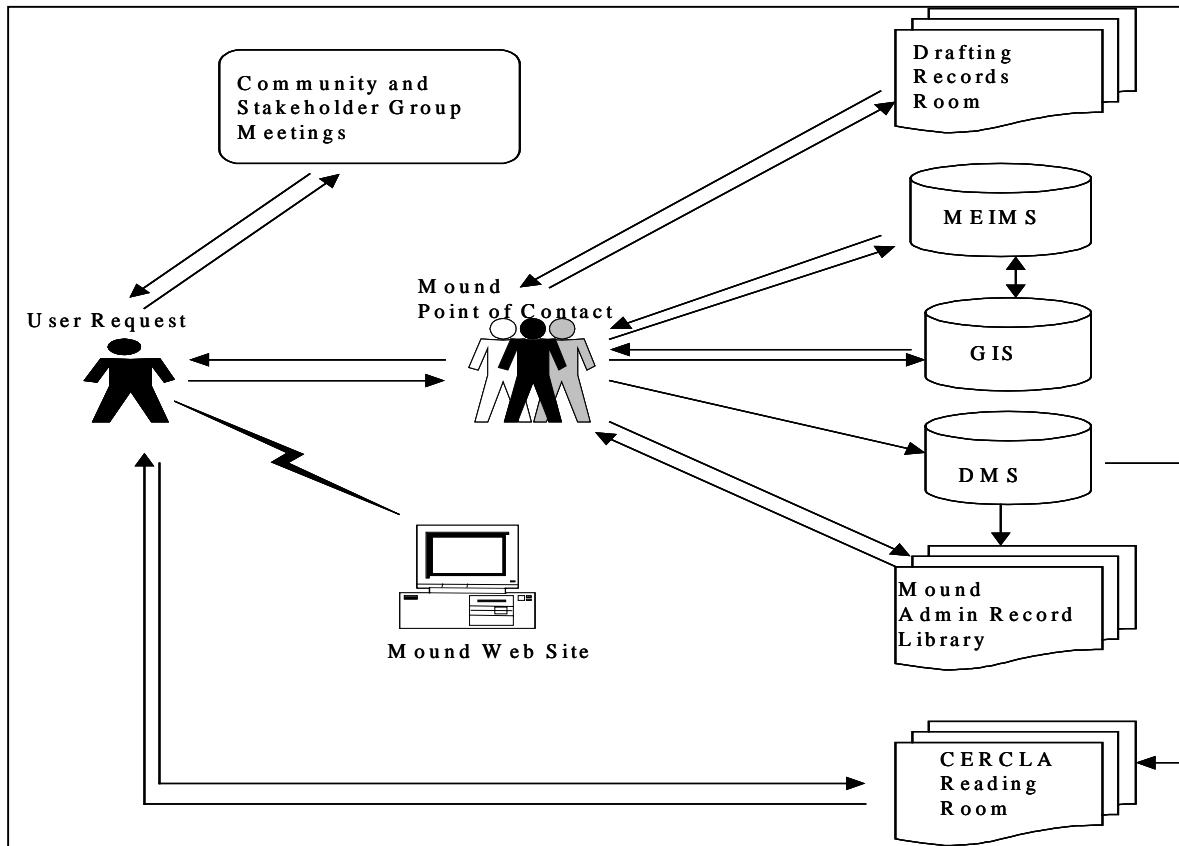


Figure 1 above depicts the processes used most frequently to request and receive information from the Mound site. Information requests are generally satisfied through the following resources:

- Community and Stakeholder Meetings (e.g., Mound Action Committee).
- Information posted to the Mound web site (<http://www.doe-md.gov/>).
- Draft Records Room . Located at the Mound site and contains engineering drawings and building layouts.
- Mound Environmental Information Management System (MEIMS). Contains environmental monitoring data for air, surface water, and groundwater.
- GIS systems. Stores site maps containing a variety of geographic data, and is used in conjunction with MEIMS data to produce map-based environmental data.
- The Mound Document Management System (DMS). Stores the location of paper copies of reports, including the Administrative Record documentation.
- The Mound Administrative Record Library. Located at the Mound Site, contains paper copies of reports on site activities (including property transfer).
- The CERCLA Reading Room. Located in the City of Miamisburg, and stores many of the Administrative Record documents and other reports.

Other sources of information not depicted are employee (DOE or BWXTO) "non-records" and other smaller systems managed by program offices (e.g., personal property database).

As the diagram shows, information users have three direct pathways for receiving information: (1) attending community action meetings, (2) visiting the Mound web site, or (3) visiting the CERCLA Reading Room, or making requests for public documents under the Freedom of Information Act (FOIA). Most other requests are processed

indirectly through a point of contact (POC) at Mound, either a DOE employee or a BWXTO contact. Often these POCs will extract or distill data from one of the large information resources (e.g., GIS) before passing on the requested information to the user.

Based on the interviews performed and review of the information transfer process tables, a number of issues associated with transferring information to subsequent users / owners were identified.

- (1) **Access to information contained in the GIS system should continue in the future, after BWXTO's obligation to manage the GIS system has ended.** Since many users requested a need for future access to GIS-based products, at the very least the products that can currently be produced using this technology should be retained. In addition, DOE and future stewards should investigate maintaining the GIS system after closure.
- (2) **The need to access information contained in the CERCLA Reading Room will continue in the future, after DOE's obligation to maintain the Reading Room has ended.** In many cases, paper documents will be the sole media available as a resource for information. Some user groups expressed a desire to retain access to paper records through a repository similar to the current CERCLA Reading Room. DOE and future stewards should discuss options to retain a reading room after site closure.
- (3) **The Mound Document Management System (DMS) and MS Access personal records tracking databases allow for quick identification of the name and location of paper resources of information. These are contractor-built DOE management systems, where DOE's obligation to retain them ends after site closure.** Since a significant effort has been put into these systems to catalog and organize Mound Site documentation, these systems could be used as a launching pad for future document management. DOE and future stewards should investigate how these catalog systems can be leveraged as future paper document tracking tools.
- (4) **Notification of changes in site conditions, environmental events, or events that trigger community and regulator action are currently communicated through local action groups or through Mound individual points of contact. The need for timely access to such events in the future will continue after site closure.** Site condition changes and events may include: incidents with workers, adverse monitoring results, violations of institutional controls, and discovery of contamination through future site construction activities. DOE and future stewards need to consider long-term points of contact and communication processes for this type of information.
- (5) **Interest in information about the Site's institutional controls and ongoing monitoring of those controls may increase after site closure. It is unclear how these processes will be communicated.** Several interviewees expressed a concern that the controls in place (i.e., deed restrictions) can be lost or forgotten with time. Regulators and the general public expressed a need to know that monitoring of institutional controls is occurring regularly, and that site owners/lessees are compliant with these restrictions. Since the detailed procedures for monitoring have not been finalized, it is premature at this time to determine how this information could be communicated. Once these procedures are finalized, DOE and future stewards need to consider how the monitoring schedule and results should be communicated.
- (6) **The majority of information about site environmental monitoring has been communicated through a site point of contact. Although on-going monitoring will significantly decrease after closure, the need for access to this data will continue.** There may be a need for some level of ground water monitoring after site closure. In addition, some user groups requested access to historical monitoring data. Currently, DOE and BWXTO employees manage the monitoring process and data (through the MEIMS software and reporting processes to OEPA). These groups have indicated some risk associated with making the raw data available to the public without some intermediate interpretation. However, the OEPA has indicated that this information should be readily available. DOE and future stewards need to determine: (1) whether access to raw data will be acceptable given the complexities and risk in interpretation, (2) whether official interpretation of this data will be required, and (3) how data will be maintained and presented to the public (e.g., direct database access, spreadsheets, graphics, text).

- (7) **Future property owners or tenants may have information access needs not currently identified. For example, it is not clear if or how building maintenance records and schedules, building systems operation manuals, and personal property maintenance records and operating manuals will be turned over to a new owner or lessee, or if a need for this information exists.** Although these records exist for Mound buildings and property, it is unclear if new owners will require access to them or if MMCIC or future steward will be the recipient of such documentation. MMCIC needs to be contacted to determine if this need exists.
- (8) **Several mechanisms are available now to support a public information/public participation process that will not be available after site closure. General public access and procedures for public comment may still be required in the future.** Resources such as the Mound web site are available now which post general information for the public and provide details on how people can be involved in the public participation process. The schedule, events, and minutes of public meetings are also available through this web site. As indicated by the public, regulatory agencies, and the City of Miamisburg, the current public participation process is efficient and effective at communicating site events and activities. The need for such communications, and the scope of this process in the future is currently not known. DOE should engage stakeholder representatives in discussions about future public participation processes and determine the scope of information needs that may be required.
- (9) **Response to requests for information is facilitated at Mound through long-standing professional relationships between Mound employees (DOE and BWXTO) and the various user groups. These individuals will not be available after site closure.** These relationships provide an informal mechanism for requesting additional information and data, and appear to be used quite often for obtaining timely response to information needs. DOE will need to consider the impacts to user groups of the absence of points of contact, and prepare the users in advance for new information access processes.
- (10) **Although interviewees indicated that the ability to access information electronically was convenient, it is not clear whether the information available, mostly in a paper-form media, can be converted for electronic access.** Much of the information is available in paper-form only, where original electronic files would be difficult to locate. Some interviewees expressed preference for paper-based information (e.g., in the case where documents are large in size). Some information (e.g., building permits) would be best retained in paper-form. However, a number of interviewees indicated that accessing information electronically was convenient and was the trend in information transfer. Large amounts of information could be posted electronically using an Internet-based information resource. A determination needs to be made, based on characterization of the existing sources and how the information is used, whether paper-based information will be converted for electronic access.

## VIII. Feasibility of Web-Based Solutions

The information needs for the current user community characterized in this document represent approximately 80% of the current requirements. In addition, many of the transfer mechanisms have been documented, and several decision requirements identified to complete characterization of future information access processes. Interviewees were asked about future requirements, but it is admittedly difficult to predict what type of information one may require in subsequent years. Given these gaps and uncertainties, it is perhaps premature to presume that a web-based information repository is the complete solution. Nevertheless, it seems appropriate that a publicly accessible web site could serve as at least part of a suite of resources for site closure information.

A prototype web site was developed which shows structure and content of a potential Internet-accessible information source. It was developed to stimulate discussion about the feasibility of providing existing information electronically, and to encourage dialogue between information users, providers, and managers on how information transfer will occur in the future, including existing technologies that could be leveraged now to provide information after site closure.

Attachment D provides a mockup of web site slides, along with specifications on the taxonomy of information that could be made available on each page.

Although many of the menu options are not active at this time, the following features are available in the prototype:

- The Mound 2000 Approach Document is an active link from the Site Closure Process menu option on the Home Page.
- The Operations and Maintenance Plan is an active link from the Site Stewardship menu option on the Home Page.
- The Site Operational History menu option on the Home Page is active. The following options are available:
  - Site Background. The Contaminants of Concern menu option on this page contains two active links to ATSDR fact sheets on Plutonium-238 and TCE.
  - Site Projects. Project pictures, borrowed from the current Mound web page, are shown. The Waste Management project is active, with text borrowed from the current Mound web page.
- Parcel 5 and Parcel D (labeled MMCIC South) are active links from the home page.
- Potential Release Sites 304, 312, 313, 380, and 381 are active links from the Parcel D page.
- Building 100 is an active link from Parcel D. A building layout map is an active link from the Building 100 page.

## IX. Recommendations

The Mound staff has built excellent communications and trust with the general public, city, and regulator communities. In planning for the future, DOE Mound staff is taking the initiative to preserve this relationship after the Mound Site closes and DOE staff is no longer available. Format, content, use, and access to information in the future are the key components that drive the development of a long-term solution. This document serves to characterize these components and highlight decisions that need to be made to establish information resources and processes for accessing those resources. In the ensuing months, the following activities are recommended:

- (1) **Form a working group to establish the technologies to be used in the future.** Specifically:
  - Review media requirements and limitations for existing information (e.g., paper only, electronic format) to determine the feasibility of, and the specific information that could be made available through an electronic resource.
  - Review and demonstrate the prototype web site, and discuss maintenance and up-keep for the long term.
  - Determine what paper-based access, if any, will be required.
- (2) **Establish a team to evaluate information needs to determine the scope of information to be made available in the future.** Specifically:
  - Determine what technical information would require translation or intermediate analysis to be correctly interpreted.
  - Evaluate the key questions that may be asked of technical data, and determine if solutions can be pre-packaged for future presentation.
  - Determine whether technical information (such as environmental monitoring data) could be made available to specific, knowledgeable user groups without intermediate analyses or intervention.
- (3) **Establish a team to work with long-term stewardship planners to identify roles and responsibilities for future information “stewards”.** Specifically:
  - Determine what, if any, individual points of contact will be required.
  - Determine the physical locations and maintenance responsibilities for paper-based access.
  - Determine the physical locations and maintenance responsibilities for electronic-access.
- (4) **Evaluate and integrate other efforts on retaining information for the long-term, such as those beginning through the DOE Office of Site Closure (EM-30), the Landtrek project, and Grand Junction Office or Pinellas sites where closure activities are complete or nearing completion.** This will reduce duplication of efforts, allow the Mound Site to take advantage of resources and technologies available through DOE Headquarters or other site programs, and incorporate lessons learned from other closing or closed sites.

The results of these activities will ultimately lead DOE to establish a suite of resources, and documented access processes for future users to obtain the information that they require after the Mound site closes.

**Attachment A: List of Interviewees**

<b>Name</b>	<b>Organization</b>	<b>Need / Expertise</b>
Billy Farmer	BWXTO	Monitoring Data – Air / Environmental
Steve Powell	BWXTO	GIS System
Dave Rakel	BWXTO	Environmental Compliance, Monitoring
Ron Paulick	BWXTO	Ground Water Monitoring Data
Floyd Hertweck	BWXTO	MMCIC Mound Museum
Kathy Gunckle	BWXTO	Document Management System
John Lyons	BWXTO	MIEMS System, Monitoring Data
Steve Snow	BWXTO	GIS System, MEIMS System
Dottie Atkins	BWXTO	Public Relations
Donna Gallaher	BWXTO	Real Estate Transactions
Cheryl Kirkwood	BWXTO	Records Management
Art Kleinrath	DOE-Mound	Site Closure
Linda Watkins	DOE-Mound	Real Estate Transactions
Debbie Gill	ExperiaCenter	Student Educational Center
Beth Moore	City of Miamisburg Environmental Coordinator	NPDES Permit, Monitoring Data
Joline Walker	City of Miamisburg Manager Office	General Cleanup Information
Gary Giles	City of Miamisburg Public Information Officer	General Public
Keith Johnson	City of Miamisburg Economic Development Director	Economic Development
Bob Stanley	City of Miamisburg Planning and Engineering Department	Utilities, Infrastructure
Dann Bird	Miamisburg Mound Community Improvement Corp (MMCIC)	Real Estate Transactions
Sharon Cowdrey	Mound Environmental Safety and Health Organization (MESH)	General Public
Rv. Dr. Velma Shearer	Neighbors in Need (NIN)	General Public
Celeste Lipp	Ohio Department of Health	Monitoring Data
Ruth Vandergrift	Ohio Department of Health	Monitoring Data
Matt Justice	Ohio Environmental Protection Agency	Ground Water Data User
Joe Bartozsek	Ohio Environmental Protection Agency	SW Data User
John Spitler	Ohio Environmental Protection Agency	NPDES Regulations
Bill Lohner	Ohio Environmental Protection Agency	Air Regulations

## **Attachment B: Interview Questions to Identify Post-Closure Information Needs**

### **Information Needs**

- a) What is your organization's interest in / responsibilities for the DOE Mound Site, Miamisburg, OH?
- b) What types of decisions does your organization need to make in order to fulfill its interest in the Mound Site?
- c) What type of information does your organization need to make these decisions (e.g., information on cleanup actions)?
- d) Does your organization currently receive this type of information on the Mound Site?
- e) What event(s) trigger the need for your organization to obtain this information (e.g., quarterly reporting, change in site tenant)?
- f) How often does / will your organization require updated information?
- g) What documents contain the information your organization requires?
- h) Where is this information located (e.g., web site, library, administrative record location)?
- i) Who provides your organization with this information (e.g., own research, DOE)?
- j) What media is this information in (e.g., paper, electronic, web-based)?
- k) What type of media would be most useful to present this information to your organization?
- l) What format is this information in (e.g., spreadsheet, document, graphs, presentations, web application)?
- m) What format would be most useful to present this information to your organization (e.g., spreadsheet, text)?
- n) Is this information readily and easily accessible?
- o) Is this information presented in a consistent fashion?
- p) Is information consistent between documents (e.g., are there any conflicting data sources)?
- q) Is this information "reader-friendly" and conducive to your organization's decision-making?
- r) Does your organization have a need to manipulate data?
- s) Does your organization want to download information?
- t) Does your organization obtain information from multiple data sources?
- u) Does the data source(s) provide this information in a condensed fashion (e.g., is too much time spent sifting through documents to find relevant data)?
- v) What level of detail of this information would be most useful to your organization (e.g., full text documents vs. summary tables)?
- w) What event(s) change the information that your organization requires (e.g., sampling event)?
- x) How often is the information that your organization requires updated (e.g., after every sampling event)?

- y) How can the information be presented in a manner conducive to your organization's decision-making (e.g., geographically, chronologically, topic area)?
- z) Are there any gaps in the information your organization currently receives that would assist in decision-making?
- aa) Does your organization have any other issues associated with the information it currently receives (e.g., data quality)?
- bb) Does your organization have any other suggestions for presenting information to more effectively assist in decision-making?

## Attachment C: Detailed Results from Interviews, by Information User Group

**Table C-1: General Public Group**

**Group Representatives:** Dottie Atkins (BWXTO – Public Information Office), Dr. Velma Shearer (Neighbors in Need), Sharon Coudrey (MESH), Debbie Gill (ExperiaCenter)

**General Needs Description:** This group receives information on Mound Site activities, including general events and cleanup actions. This group participates in the CERCLA process by reviewing and commenting on the cleanup actions onsite. In addition, this group has an interest in learning about Mound’s role in U.S. History; the programs, processes, and operations performed onsite; as well as the impacts and releases that occurred from these processes and operations on human health and the environment.

Type of Data and Description	Current Format	Reporting Interval / Level	Current Data Source	Future Format	Other Comments
General Site Events – New Directions – Informed of site activities, events, and meetings.	Paper.	Monthly. Site-wide.	DOE Public Relations	Keep as current. See Section VII, Issue #8.	General public groups think that they are in-tune with Site events and activities.
Site Maps and Pictures – Interest in viewing site, site events and activities pictorially.	Paper, Web Site, Negatives.	Static. Variable – by event, site-wide.	Mound Web Site.	Museum Displays. Kiosk.	MESH suggested providing a kiosk with site pictures. Also suggested providing a mechanism for commenting or asking questions triggered by review of the pictures.
PRS / Building Packages and Documentation - Reviewed as part of public participation process. Need to ensure appropriate actions are being taken to protect human health and the environment.	Paper, Web Site.	As needed – when documentation is submitted for CERCLA review process. By PRS, Building.	Mound Document Management System, Public Reading Room, Mound Web Site.	Keep as current. See Section VII, Issue #2.	
Mound 2000 Document – Interest in understanding Mound’s	Paper, Web Site.	Static. Site-wide.	Public Reading Room, Mound Web Site.	Keep as current.	The Mound 2000 Approach Document effectively explains the

<b>Type of Data and Description</b>	<b>Current Format</b>	<b>Reporting Interval / Level</b>	<b>Current Data Source</b>	<b>Future Format</b>	<b>Other Comments</b>
approach to cleanup.					cleanup process being done at Mound.
Public Notifications and Calendar of Events - Informed of site events, activities, and meetings.	Paper, Web Site.	As needed. Monthly. Site-wide, by event.	Mound Public Relations, Mound Web Site.	Keep as current. See Section VII, Issue #8.	Public participation process after site closure is yet to be determined.
MAC Meeting Minutes - Documents the topics of discussion and decisions in the Mound Reuse Action Committee meetings.	Paper, Web Site.	Monthly. By meeting.	Mound Public Relations, Mound Web Site.	Keep as current. See Section VII, Issue #8.	Public participation process after site closure is yet to be determined.
Annual Environmental Report - Understanding site risks and data supporting conclusions. Need to know if appropriate actions are being taken to protect human health and the environmental.	Paper.	Annual. Site-wide.	Mound Public Relations	Provide one document summarizing all sampling data, results, and conclusions. See Section VII, Issue #6.	MESH stated that some areas require additional rationale associated with samples taken and conclusions made.
Ohio EPA Annual Report on Mound Site - Provides an outside review of Mound activities. Need to know if appropriate actions are being taken to protect of human health and the environment.	Paper.	Annual. Site-wide.	Ohio EPA	Not specified. See Section VII, Issue #6.	Not anticipated to be an on-going reporting requirement after closure.
Impacts of contaminants / releases on human health and the environment - Interest in	Not specified.	Not specified.	Not specified.	Use of ASTDR fact sheets.	Both MESH and ExperiaCenter stated that this information should be provided by topic area and in

Type of Data and Description	Current Format	Reporting Interval / Level	Current Data Source	Future Format	Other Comments
understanding how the contaminants identified at Mound impact human health and the environment.					everyday terminology for public to understand risks of specific contaminants.
Site history, including programs, processes and operations - Interest in information on Mound's history.	Web Site, Paper.	Static.	Mound Web Site, Public Reading Room.	Summary / excerpts from report available in electronic format.	MESH, NIN, and ExperiaCenter stated that Mound's history could be organized by release block, program, process, waste types. Provide explanation of measurements used (e.g., pCi/g, greys) and waste types (e.g., low-level, industrial). Expand on information available in Public Reading Room.
Stewardship Program – DOE wide policy and Mound-specific activities - Need to ensure the site remains protective of human health and the environment for industrial use.	Paper (DOE-HQ policy). Not specified (Mound-specific activities).	Not specified.	DOE-HQ (new stewardship policy information)	Not specified. See Section VII, Issue #4 and #5.	MESH, NIN, and ExperiaCenter need confirmation of adequate stewardship program for the future to assure safe environment for users / owners of Site.

**Table C-2: Property Transfer/Real Estate Transactions Group**

**Group Representatives:** Dann Bird (MMCIC), Linda Watkins (DOE – Site Transition), Keith Johnson (Miamisburg Economic Development), Bob Stanley (Miamisburg City Engineer)

**General Needs Description:** This group needs access to all information related to property transfer and leasing arrangements, specifically, information associated with availability, characteristics, condition, and legal requirements of parcels of property from preparation for transfer through post-transfer.

Type of Data and Description	Current Format	Reporting Interval / Level	Current Data Source	Future Format	Other Comments
Property Descriptions <ul style="list-style-type: none"> <li>• Acreage</li> <li>• Building size</li> <li>• Space</li> <li>• Building modifications</li> </ul> <p>- Legal documentation delineating boundaries of transfer.</p>	Paper, Electronic. Verbal information through MMCIC contact. Surveyor to generate metes and bounds, or information generated through GIS system.	As needed. By parcel to be transferred.	MMCIC, DOE Site Transition Office	City or regional web site.	Keith Johnson stated that there are currently web sites sponsored by the city and the county that show details on property available for sale/lease. Attempt should be made to integrate with these existing sites.
GIS-based maps <ul style="list-style-type: none"> <li>• Infrastructure</li> <li>• Proximity to roads</li> <li>• Parking</li> <li>• Buildings</li> <li>• Area demographics</li> </ul> <p>- Detailed view of property being transferred.</p>	Paper, CAD.	As needed. Variable – by parcel, area, building.	MMCIC, Mound Drafting Records Area.	Paper through single reference site or on web site where possible. See Section VII, Issue #1.	Bob Stanley indicated that what is done in the future will need to be weighed against what the city is capable of supporting from a technology standpoint. City has limited resources to support/maintain high tech systems.
Pictures/aerial photographs - Pictorial overview of property being transferred.	Paper.	As needed. Variable – by parcel, area, building, site-wide.	MMCIC, Mound Drafting Records Area.	Paper, or on web site where possible.	No comment.
Deeds/Deed Restrictions	Paper, Electronic.	As needed. By parcel.	MMCIC, DOE Site Transition Office, Ohio	MMCIC (or future owner). Paper,	No comment.

<b>Type of Data and Description</b>	<b>Current Format</b>	<b>Reporting Interval / Level</b>	<b>Current Data Source</b>	<b>Future Format</b>	<b>Other Comments</b>
- Legal documentation and restrictions associated with transfer.			Field Office	Electronic.	
“As built” drawings of buildings - Detailed drawing of initial building structure, indicating condition of building.	Paper.	As needed. By building.	Mound Drafting Records Area. MMCIC for buildings that they own.	Paper.	MMCIC has drawings for buildings 100 and 105 transferred in 1998.
Current building layouts - Detailed drawing of currently building structure, indicating condition of building.	Paper, CAD.	As needed. By building.	Mound Drafting Records Area. MMCIC will have records for building they own.	Paper, or on web site where possible.	MMCIC has current drawings for buildings 100 and 105 transferred in 1998
PRS / Building Packages and Documentation -Details the physical and environmental conditions, and identifies any hazards or risks associated with a PRS / building.	Paper.	As needed. By PRS, building.	Mound Document Management System, Public Reading Room, Mound Web Site.	MMCIC (or future owner). Paper, Electronic. See Section VII, Issue #3 and #10.	No comment.
Facility Survey - Facility walk-down results indicating the architectural, engineering (building systems), and aesthetic condition of the building.	Paper.	As needed. By building.	MMCIC	MMCIC (or future owner). Paper. See Section VII, Issue #10.	Linda Watkins provides this in the case of a lease. This survey is also a component of the building data package.
Sales / Lease Contract - Specifies conditions of sale and lease.	Paper, Electronic.	As needed. Variable – by building, site-wide.	DOE Site Transition Office, Ohio Field Office	MMCIC (or future owner). Paper, Electronic.	Linda Watkins is currently developing a standardized package of documents for land transfer.
Phase I Environmental Assessment	Paper.	As needed. By area, group of	Not specified.	MMCIC (or future owner). Paper. See	These Phase I assessments were

<b>Type of Data and Description</b>	<b>Current Format</b>	<b>Reporting Interval / Level</b>	<b>Current Data Source</b>	<b>Future Format</b>	<b>Other Comments</b>
- Identifies any known or potential hazards or risks associated with an area or building.		buildings.		Section VII, Issue #10.	conducted before the Mound 2000 approach.
Record of Decision - Substantiates that the parcel is protective of human health and the environment for industrial use.	Paper.	As needed. By parcel.	Mound Document Management System	MMCIC (or future owner). Paper, Electronic. See Section VII, Issue #3 and #10.	No comment.
Residual Risk Evaluation - Substantiates that the parcel is protective of human health and the environment for industrial use.	Paper.	As needed. By parcel.	Mound Document Management System	MMCIC (or future owner). Paper, Electronic. See Section VII, Issue #3 and #10.	No comment.
Environmental Summary Document - Substantiates that the parcel is protective of human health and the environment for industrial use.	Paper.	As needed. By parcel.	Mound Document Management System	MMCIC (or future owner). Paper, Electronic. See Section VII, Issue #3.	No comment.
Title Transfer Documentation - Legal documentation transferring title to new owner.	Paper, Electronic.	As needed. By parcel.	DOE Site Transition Office, Ohio Field Office	MMCIC (or future owner). Paper, Electronic.	No comment.
Building Maintenance Records and Schedules - Need for information to be determined.	Paper.	As needed. By building.	Building Managers, Contractor primary equipment operator	MMCIC (or future owner). Lessee. See Section VII, Issue #7.	DOE needs to verify with MMCIC that this is an information need. Preventative maintenance schedule include as part of lease documentation.
Operating Manuals for Building Systems	Paper.	As needed. By building.	Building Managers.	MMCIC (or future owner). Lessee. See	DOE needs to verify with MMCIC that this

<b>Type of Data and Description</b>	<b>Current Format</b>	<b>Reporting Interval / Level</b>	<b>Current Data Source</b>	<b>Future Format</b>	<b>Other Comments</b>
- Need for information to be determined.				Section VII, Issue #7.	is an information need.
Personal Property Information (including maintenance records and operating manuals) - Need for information to be determined.	Paper, Electronic listing.	As needed. By piece of personal property.	Personal Property Database, Personal Property Custodians.	MMCC (or future owner). Lessee. Paper, Electronic. See Section VII, Issue #7.	DOE identified an issue of whether maintenance records and operating manuals are turned over to new user. DOE needs to verify with MMCIC that this is an information need.

**Table C-3: Regulatory Compliance Group**

**Group Representatives:** Brian Nickel (OEPA), Matt Justice (OEPA), John Spitler (OEPA), Bill Lohner (OEPA), Joe Bartozsek (OEPA); Celeste Lipp (Ohio Department of Health - ODH), Ruth Vandergrift (ODH), County and City Health Organizations

**General Needs Description:** This group regularly receives monitoring data to ensure compliance with permits, CERCLA regulations, Ohio State Regulations, and other EPA-mandated monitoring/documentation requirements. Also, these individuals advise the site on monitoring planning, and assist the public in validating site monitoring results or addressing public concerns. As such, this group is generally interested in and would require information on any significant changes in site conditions.

Type of Data and Description	Current Format	Reporting Interval / Level	Current Data Source	Future Format	Other Comments
NPDES Permit Data - Requirement to confirm water discharges are within regulatory limits.	Electronic Document – Monthly Operating Reports  Paper - Annual Site Environmental Report  Monthly updates to SWMW are database directly from Mound.	Monthly. By monitoring site.	Mound Regulatory Compliance Group, NPDES Permit Office.	Same as current.	Responsibility for the NPDES permit will shift to the City after site closure.
Air Monitoring Data - Need for information to be determined.	Not specified.	Not specified.	Mound Regulatory Compliance Group	Not specified. See Section VII, Issue #6.	No comment.
Ground Water Monitoring Data (including measurements, sampling point characteristics, sampling protocols) - Need to monitor ground water plume changes. Verification that remedies in place remain effective.	CD ROM copy of MIMS database, Spreadsheet.	Annual. By monitoring site.  As needed –when core team addresses PRS.	Mound Regulatory Compliance Group, Ohio EPA	Should continue, as is, either CDROM or other downloadable database. See Section VII, Issue #6.	Would prefer data quarterly rather than annually. Needs to retain all historical sampling data for trend analysis. EPA provides these data to ODH along with analysis. ODH is interested in radiological data only.
Surface Water Monitoring Data - TSS - Radiological - VOCs	Paper – Annual Site Environmental Report.  Other EPA reports.	Most quarterly, some constituents may be different. By monitoring site.	Mound Regulatory Compliance Group	Downloadable file to spreadsheet or CDROM – Fernald already experimenting with	Monitoring frequency may reduce in post-closure years, every quarter for first 5-10 years, after that could

Type of Data and Description	Current Format	Reporting Interval / Level	Current Data Source	Future Format	Other Comments
<p>- Metals</p> <p>- Verification that remedies in place remain effective.</p>				<p>these files, currently submitting through CD ROM. See Section VII, Issue #6.</p>	<p>move to biannually and finally annually.</p>
<p>Soil Monitoring Data</p> <p>- Delineate boundaries of cleanup action to be taken. Verification that cleanup action is complete.</p>	<p>Paper, Electronic – Spreadsheet, CD ROM.</p>	<p>As needed – when PRS / building is addressed by core team. By sample site.</p>	<p>MEIMS Database, Ohio EPA</p>	<p>Historical information downloadable to spreadsheet or CDROM or spreadsheet. See Section VII, Issue #6.</p>	<p>Soil monitoring not anticipated to continue after DOE’s exit as conditions on site will be protective of human health and the environment for industrial use. EPA provides this data to ODH along with analysis. ODH is interested in radiological data only.</p>
<p>Building Monitoring Data</p> <p>- Delineate boundaries of cleanup action to be taken.</p>	<p>Document.</p>	<p>As needed – when core team addresses building. By sample site by building.</p>	<p>Mound/DOE Program Managers.</p>	<p>Not specified. See Section VII, Issue #4.</p>	<p>Current monitoring data would be part of the building data package. ODH is interested in radiological data only.</p>
<p>Changes in site conditions – Notification of unauthorized movement of radiological materials offsite</p>	<p>Verbal notification.</p>	<p>When radiological materials are discovered to be disposed offsite (e.g., in a landfill).</p>	<p>Mound/DOE Program Managers.</p>	<p>Not specified. See Section VII, Issue #4.</p>	<p>Need to specify triggers for information (e.g., who requires, how to be communicated, what information is needed).</p>
<p>Changes in site conditions – Notification of unauthorized soil movement offsite or other site activities/disturbances that could constitute violation of institutional controls</p>	<p>Not specified.</p>	<p>Not specified.</p>	<p>Not specified.</p>	<p>Institutional controls / deed restrictions enforcement. See Section VII, Issue #4 and #5.</p>	<p>Monitoring protocols/frequency could change if event triggers some environmental/human health concerns. ODH is interested only in ensuring that</p>

Type of Data and Description	Current Format	Reporting Interval / Level	Current Data Source	Future Format	Other Comments
					radiologically contaminated soils do not move offsite. ODH has not addressed situations with soil movement associated with new buildings or modifications.
Changes in site conditions – Notification of spills, other adverse environmental events	Not specified.	Not specified.	NPDES Permit Office, Mound Program Managers	Not specified. See Section VII, Issue #4.	Monitoring protocols or frequency could change if event triggers some environmental or human health concerns.
General Site Events – New Directions - Informed of site-wide activities, events, and meetings.	Document.	Monthly. Site-wide.	Mound/DOE Public Relations	Same as current.	
PRS / Building Data Packages and Documentation - Reviewed as part of CERCLA review process. Need to ensure actions are being taken to protect human health and the environment.	Paper, Documents, Electronic through e-mail.	As needed – when PRS / building is being addressed by core team. By PRS, building.	Document Management System - Public Reading Room, Mound Web Site.	Same as current.	ODH states that sometimes PRS packages do not include adequate references to substantiate conclusions. However, these issues are addressed through the CERCLA review periods.
Site Maps - Pictorial view of PRS / building being addressed.	Paper.	As needed – when PRS / building is being addressed by core team. By PRS, building, parcel area.	Document Management System - Public Reading Room, Mound Web Site.	Paper. See Section VII, Issue #10.	ODH suggested that any maps or documentation of significant size be provided in a paper format.
Technical Documents – raw data (e.g., radiological surveys) - Raw data evaluated as	Paper, Documents.	As needed - when PRS / building is being addressed by core team. By	Mound Document Management System, Public Reading Room, Mound/DOE Program	Not specified. See Section VII, Issue #9.	ODH suggested that documentation of significant size be provided in a paper

<b>Type of Data and Description</b>	<b>Current Format</b>	<b>Reporting Interval / Level</b>	<b>Current Data Source</b>	<b>Future Format</b>	<b>Other Comments</b>
part of CERCLA review process for PRS / buildings.		sample site by PRS / building.	Managers.		format.
Technical Documents – Mound procedures and protocols - Additional information on how data was collected, evaluated, processed.	Paper, Documents.	As needed - when PRS / buildings is being addressed by core team. By topic area.	Mound Document Management System, Public Reading Room, Mound/DOE Program Managers.	Not specified. See Section VII, Issue #9.	ODH suggested that documentation of significant size be provided in a paper format.

**Table C-4: Miamisburg City Management Group**

**Group Representatives:** Gary Giles (Miamisburg Public Information Officer), Joline Walker (Miamisburg City Manager Office), Beth Moore (Miamisburg Environmental Coordinator), Miamisburg City Police, Miamisburg City Fire Department, Local Utilities

**General Needs Description:** This group needs general information on cleanup status, existing areas of contamination, areas of on-going DOE operations, stored chemicals, location of pipes, wires. The information is required to communicate to the public and local/state authorities, and respond to emergencies, should they occur on the site. Currently, the City has representatives that participate on the Mound Reuse Committee to serve as a bridge between DOE and public, and to ensure the public interest is maintained.

**NOTE: We’ve contacted representatives of this group but have not completed all interviews. The information needs documented below are based on interviews with other contacts, or our own determination of possible information needs. It is possible that not all information needs have been identified.**

Type of Data and Description	Current Format	Reporting Interval / Level	Current Data Source	Future Format	Other Comments
PRS / Building Data Packages and Documentation - Reviewed as part of CERCLA review process. Need to ensure actions are consistent with public interest.	Paper, Electronic.	As needed. By PRS, building.	Mound Document Management System, Public Reading Room, Mound Web Site.	Keep as current.	Historical information on cleanup will need to be maintained so that there is a link back to conditions at time of transfer.
Monitoring Data - Reviewed as part of PRS / building packages. Need to ensure actions are consistent with public interest.	Paper, Electronic – Spreadsheet.	As needed. By monitoring site.	DOE Program Managers. BWXTO Regulatory Compliance Group.	Capability to download. See Section VII, Issue #6.	Monitoring data is provided with PRS / Building information. No analysis is done. The City reviews the evaluation of DOE, OEPA, and USEPA. The City will need information on any monitoring data taken as part of the Mound O&M Plan.
NPDES Permit Report and Data - Requirement to	Electronic Document – Monthly Operating Reports.	Monthly. By monitoring site, site-wide.	NPDES Permit Officer Mound Regulatory Compliance Group.	Keep as current. Capability to download.	The NPDES Permit will come under ownership of the City

<b>Type of Data and Description</b>	<b>Current Format</b>	<b>Reporting Interval / Level</b>	<b>Current Data Source</b>	<b>Future Format</b>	<b>Other Comments</b>
confirm water discharges are within regulatory limits.	Paper - Annual Site Environmental Report.				of Miamisburg.
General Site Events - Site Transitions - Informed of site events, activities, and meetings.	Paper.	Monthly. Site-wide.	Mound Web Site. Mound/DOE Public Relations.	Keep as current. See Section VII, Issue #8.	
MAC Meeting Minutes - Documents topics of discussion and decisions made at MAC meetings.	Paper.	Monthly. By meeting.	Mound Web Site. Mound/DOE Public Relations .	Keep as current. See Section VII, Issue #8.	Public participation process after site closure is yet to be determined.
Newspaper Clippings - Valued from a human-interest standpoint.	Not specified.	Not specified. Currently not collected or maintained by the City.	Not specified.	Chronological.	May be collected from a human-interest standpoint.
Photos - Valued from a human-interest standpoint.	Not specified.	Not specified. Currently not collected or maintained by the City.	Not specified.	Chronological.	May be collected and presented from a human-interest standpoint.
Changes in Site Conditions - Need for information to be determined.	To be determined.	To be determined.	To be determined.	To be determined.	To be determined.
On-Going DOE Operations - Need for information to be determined.	To be determined.	To be determined.	To be determined.	To be determined.	To be determined.
Maps of Infrastructure - Need for information to be determined.	To be determined.	To be determined.	To be determined.	To be determined.	To be determined.
Stored Chemicals - Need for information to be determined.	To be determined.	To be determined.	To be determined.	To be determined.	To be determined.
Tenant(s) Activities	To be determined.	To be determined.	To be determined.	To be determined.	To be determined.

<b>Type of Data and Description</b>	<b>Current Format</b>	<b>Reporting Interval / Level</b>	<b>Current Data Source</b>	<b>Future Format</b>	<b>Other Comments</b>
- Need for information to be determined.					
Site History - Need for information to be determined.	To be determined.	To be determined.	To be determined.	To be determined.	To be determined.

**Table C-5: Workers On-Site (Past, Present, Future) Group**

**Group Representatives:** Gary Nolley (BWXTO), Current Lessees

**General Needs Description:** This group may be concerned with worker’s health issues, worker accidents, and environmental conditions/events that could potentially cause adverse affects on workers. This group may also be concerned with lawsuit/liability information associated with events/environmental conditions.

**NOTE: We’ve contacted representatives of this group but have not completed any interviews. The information needs for this group have not been identified.**

<b>Type of Data and Description</b>	<b>Current Format</b>	<b>Reporting Interval / Level</b>	<b>Current Data Source</b>	<b>Future Format</b>	<b>Other Comments</b>
To be determined.	To be determined.	To be determined.	To be determined.	To be determined.	To be determined.

## **Attachment D: Prototype Web Site Specifications and Slide Mockup**

These are draft specifications to document some basic features and linkages for the prototype web site. Many of the features described in this specification are inactive on the prototype site. These notes specify which links are currently available and those that are not yet in place. For a majority of these links, the necessary information and organization have not been identified (See Section VII: Information Transfer Process Issues). Other inactive links will become active once additional electronic documentation is received.

### **General Features of Web Site**

- Mouse-overs on all bar menus will provide a further detailed description of selection available under each menu option.
- All left bar menu options include: Contacts, Links, Website Map, Reference Library, Search, and Home. These menu options are also listed at the bottom of each page within the web site. These options provide links to other relevant, general information sources and provide quick maneuvering ability within the web site.

### **Slide 1: DOE MOUND SITE: PAST AND PRESENT**

On the site-wide map, click on a specific parcel (outlined in purple), which links to a parcel map (See Slide 3: Parcel D). Active links for Parcel 5 and Parcel D exist on the prototype (currently labeled MMCIC on east side of the site map).

The Operational History menu option links to a sub-page on site background and projects (See Slide 2: Mound Site Operational History).

The Site Closure Process menu option links to:

- Mound 2000 Document (active link) – currently links to PDF file, eventually will link to a table of contents allowing the user to jump to the section of interest
- Mound Land Transfer Process (active link) – currently links to PDF file

The Site Stewardship menu option links to:

- Stewardship Plan Document (inactive link) – will link to a table of contents allowing the user to jump to the section of interest
- O&M Plan Document (active link) – currently links to PDF file, eventually will link to a table of contents allowing the user to jump to the section of interest
- Site-Wide Institutional Control Monitoring Activities (inactive link)

The Site Permit menu option will link to:

- Page with NPDES permit information (inactive link)
- Page with other permit information (inactive link)

The Current DOE Activity menu option will link to:

- Page on on-going NE Island activity at Mound (inactive link)

The Mound Parcels menu option will provide links to a page for each parcel at Mound, including Parcel 3, 4, 5, 6-8, 10, MMCIC (North), and MMCIC (South). Currently, the only active links are Parcel 5 and Parcel D (See Slide 3: Parcel D).

Right bar menu will contain news items, such as recent studies at other DOE sites and current site events. The menu will consist of “headlines”, which link to more detailed information. (Not yet implemented on the prototype).

### **Slide 2: Mound Site Operational History**

Click on picture of Mound Site or site background label to link to page (See Slide 5: Mound Site Background).

### **Slide 3: Parcel D**

The Building and Potential Release Sites menu options will provide links to each building and PRS contained within the parcel (See Slide 4: Building 100, See Slide 6: PRS 304/313).

The Parcel History menu option will link to (both text and photos):

- Historical Parcel Operations (inactive link)
- Historical Contamination (inactive link)
- Cleanup Completed (inactive link)

The Parcel Transfer menu option will link to:

- Residual Risk Evaluation (inactive link)
- Parcel Deed and Transfer of Title (inactive link)
- Land Use Restrictions (inactive link)

The Current Monitoring Data menu option will link to:

- Map of active monitoring wells (inactive link)
- Monitoring data for each well (inactive link)

The Current Operations menu option will link to:

- Current parcel map (inactive link)
- Current infrastructure map (inactive link)
- Details on contamination left in place (inactive link)

### **Slide 4: Building 100**

The Building Package menu option will link to (breakout of the building data package):

- Historical Operations (inactive link)
- Building Contamination (inactive link)
- Cleanup Activities (inactive link)
- Transfer / Closure Decisions (inactive link)

The Current Operations menu option will link to:

- Current Tenant List (inactive link)
- Type of Industry Currently Conducted in Facility (inactive link).

The Layouts/Floorplans menu option will link to:

- Current Building Layouts / Floor Plan Maps (See Slide 7: Building 100 – Layout)
- Historical or as-built drawings (inactive link).

Historical drawings will be cited and a reference made to the location of those documents.

### **Slide 5: Mound Site Background**

Below site-map will be a sliding scale where if the user clicks and drags the toggle along the scale, the map image will shift to represent the site layout of that specific time period (inactive feature).

The DOE Operations menu option will link to text and pictures of past operations (inactive link).

The Cleanup History menu option will link to text and picture of past cleanup activities (inactive link).

The Contaminants of Concern menu option will link the ASTDR fact sheets for each of the major contaminants found at Mound. Active links to the ASTDR fact sheets exist for Plutonium-238 and TCE.

The Monitoring Data menu option will provide access to historical sampling data (inactive link).

The Closure History menu option will provide text and pictures of how the Mound Site was closed (inactive link).

### **Slide 6: PRS 304/313**

Provides a photo of the PRS and a text description of:

- PRS History
- Contamination
- References

Left bar menu options provide links back to parcel information, including buildings and other PRSs within parcel.

Active PRS links for the prototype are PRS 304, 312, 312, 380, and 381, all of which are in Parcel D.

### **Slide 7: Building 100 – Layout**

Provides a map of the current building layout.