



TM

# FORMER PLUM BROOK ORDNANCE WORKS

## Sandusky, Ohio (Currently NASA Plum Brook Station)

---

Quarterly Fact Sheet

October-December 2013

**SITE DESCRIPTION** - PBOW is located approximately 4 miles south of Sandusky, Ohio, and 59 miles west of Cleveland. Although located primarily in Perkins and Oxford Townships, the eastern edge of the site extends into Huron and Milan Townships. PBOW is in general bounded on the north by Bogart Road, on the south by Mason Road, on the west by Patten Tract Road, and on the east by U.S. Highway 250. The area surrounding PBOW is mostly agricultural and residential.

**SITE HISTORY** - The former Plum Brook Ordnance Works (PBOW) was established by the War Department as a government-owned, contractor-operated (GOCO) facility for the production of 2,4,6-trinitrotoluene (TNT), 2,4-dinitrotoluene (DNT), and pentolite during World War II. The PBOW site originally consisted of approximately 9,100 acres, approximately 3,500 acres of which was used as a buffer area outside the facility fence line. The property was acquired in the name of the United States of America in 1941. The government contractor, Trojan Powder Company, operated the production facility from December 1941 until 1945. It is estimated that during this period more than 1 billion pounds of nitroaromatic explosives were manufactured.

At the end of production in September 1945, PBOW was placed in standby operation status and the Army conducted decontamination and decommissioning activities. On December 17, 1945 the U.S. Army Ordnance Department (Ordnance Department) obtained physical control of the site. The Ordnance Department continued decontamination efforts until August 1946. In 1946 over 6,200 acres, 3,231 being located within the fenced area, were transferred to the War Assets Administration (WAA), and approximately 2,800 acres were transferred to the Ravenna Arsenal. This 2,800-acre parcel, transferred to Ravenna Arsenal and referred to as the Magazine Area (and also the Plum Brook Depot), was transferred again in July 1947 to the Erie Ordnance Depot, LeCarne, Ohio. The Magazine Area included approximately 2,300 acres inside the fence line and 500 acres of the buffer area, outside of the fence line.

In 1949, the GSA took control of WAA's portion of the PBOW property, which included an indeterminate amount of acreage outside of the fence line due to conveyances by WAA to private landowners during the late 1940s and early 1950s. It is believed that farmers were given the opportunity to buy back land in the buffer area, outside the fence line.

In June 1954, the Army reacquired the 3,231 acres within the PBOW fence line that was previously transferred to the WAA and subsequently to GSA. From August 1954 to sometime in 1958, further decontamination was performed by the Army. The decontamination included removal of and disposal of contaminated surface and subsurface soil around the buildings and wooden and ceramic waste disposal lines containing TNT. This included thousands of pounds of TNT which were discovered in catch basins that were removed and incinerated at the burning grounds.

Two property use agreements were entered into by the Army and the National Advisory Committee of Aeronautics (NACA), the predecessor of NASA, in March 1956 and January 1958, respectively. The first agreement was for approximately 500 acres on which NACA built a nuclear reactor. The second agreement gave NACA (NASA as of October 1958) use of an additional 2,700 acres within the fenced area but outside the Magazine Area, for a total of 3,231 acres under the two use agreements. At this time, NASA had use of all property inside the PBOW fence except the 2,300 acres in the Magazine Area. The Army declared this 3,231-acre property as excess in October 1958.

In September 1961, the Army declared the Magazine Area as excess, and NASA formally requested custody of the property in October 1961. On March 15, 1963, accountability and custody of the PBOW property (6,031 acres) were transferred from the Department of the Army to NASA.

However, prior to NASA's acceptance of the property in March 1963, Ravenna Arsenal performed additional decontamination and subsequently certified 500 acres of the former PBOW property was decontaminated and suitable for unrestricted future use. This decontamination certification was only for the 500 acres in the former pentolite manufacturing area (area where NASA built the nuclear reactor) under the first use agreement. NASA identified additional DoD-related contamination in 1963, after transfer of the property. NASA performed further decontamination efforts and the removal of structures in 1964.

NASA has operated and maintained the property inside the fence line since 1963, and the facility currently located there is the NASA Glenn Research Center, Plum Brook Station. NASA operates the property as a space research facility in support of its John Glenn Research Center at Lewis Field, Cleveland, Ohio. Most of the aerospace testing facilities built in the 1960s at the site have been demolished, or are currently on standby or inactive status. During 1967 through 1971, NASA purchased approximately 2,000 acres outside of the fence line from local farmers as "buffer." On April 18, 1978, NASA declared approximately 2,152 acres of PBOW as excess. This excess included approximately 1,500 acres of farmland outside the fence, including those acres purchased from farmers beginning in 1967, and was sold as farmland. Also, 46 acres outside of the fence in the northeast corner of the PBOW facility near the guard house was conveyed to The Perkins Township Board of Education and is used as a bus transportation area. In addition, the 2,152 acres of PBOW declared excess included a 604-acre parcel in the western part of the fenced area known as "Parcel 59." This area, although previously declared excess, was not transferred and remains under NASA control. According to a NASA newsletter, NASA presently controls approximately 6,432 acres; this includes approximately 5,500 acres within the fence line and 900 acres outside of the fence which have been leased for agriculture.

## **PROJECT ACTIVITIES**

### **Project 1803 – RI/FS Low Scope**

#### *Phase Completion*

- Remedial Investigation/Feasibility Study (RI/FS) – Completed 30 September 1998
- Project Closeout (PCO) – Completed 30 September 2004

### **Project 1806 – ASR Complete NOFA OEW MMRP**

#### *Phase Completion*

- PCO – Completed 26 October 2009

### **Project 1809 – Site Management**

#### *Phase Completion*

- Site Investigation (SI) – Completed 30 September 2009
- PCO – Completed 30 September 2009

### **Project 1810 – Community Relations and Restoration Advisory Board**

#### *Phase Completion*

- No phase associated – On-going

#### *Quarterly Update*

- Quarterly Restoration Advisory Board (RAB) meetings
- Most recent RAB Meeting was held Thursday, 12 December 2013 and consisted of project updates.
- Next scheduled meeting is Thursday, 06 March 2014 and will be an update of projects.

### **Project 1811 – Additional BGs**

#### *Phase Completion*

- PCO – Completed 19 September 2009

### **Project 1812 - Reservoir No. 2 Burning Ground**

#### *Phase Completion*

- RI/FS – On-going
- Engineering Evaluation/Cost Analysis (EE/CA) – Left report in the draft-final stage (March 2007) per HQ determination of no immediate risk issue. Picked back up in the RI/FS process to complete remediation under RD and RA-C phases.
- Removal Design (RmD) – Completed 11 May 2007

#### *Quarterly Update*

- Draft Remedial Investigation Report was submitted for USACE review 5 October 2012 and the final report was issued 8 January 2013.
- The draft Proposed Plan was submitted for full-team review on 19 April 2012, with Public Meeting Presentation held on 14 August 2012 (30-day review period was 14 Aug – 18 Sept 2012).
- Draft Decision Document was submitted for USACE review 11 January 2013, for CX review 27 March 2013 and OEPA and public review on 17 July 2013. OEPA replied 27 September 2013 with no comments.

- Final Decision document anticipated 16 January 2014.
- INPR Revision- LRD officially approved INPR, was placed in AR/PR and in the FUDS Records Management Database (FRMD).

**Project 1813 - TNT Area A (Soils)**

*Phase Completion*

- RI/FS – Completed 29 June 2011
- RD – On-going (Kept open to allow for Phase 1 (exc only) and Phase 2 (exc and remediation) efforts)
- RA-C – Phase I completed 31 March 2013. Phase 2 on-going.

*Quarterly Update*

- Phase 2 RA-C efforts are underway. All soil has been remediated to non-hazardous levels and either disposed of at Erie County Landfill for use as daily cover or used as backfill for placement on site. Field efforts are complete and remediation pad maintenance is underway in preparation for next remediation effort. Project is on schedule with submission of Draft Construction Completion Report due end of January 2014.

**Project 1814 - TNT Area B (Soils)**

*Phase Completion*

- RI/FS – Completed 23 September 2009
- RmD – Completed 16 June 2006
- Removal Action-Construction (RmA-C) – Completed 5 June 2007
- PCO – Completed 31 March 2010

**Project 1815 - TNT Area C (Soils)**

*Phase Completion*

- RI/FS – Completed 15 January 2010
- RD – Completed 22 January 2010
- RA-C – Completed 31 March 2013
- PCO – on-going

*Quarterly Update*

- Revised PCO language per LRL comments and re-submitted to LRL for their approval prior to obtaining LRD approval. Currently LRL is in process of making minor changes to the PCO packet and will send to LRD for approval once that is complete.

**Project 1816 – TNT Loading Area**

*Phase Completion*

- LSI – Completed 31 July 2000
- PCO – Completed 30 September 2002

**Project 1817 - Waste Water Treatment Plants 1 and 3 with Wooden Sewer Lines**

*Phase Completion*

- LSI – Completed 30 September 2000

- RI/FS – On-going – WWTPs 1 and 3 as well as the sewer lines A and B from WWTP 1 have been broken out for scheduling purposes. A contract was awarded in June 2008 to conduct an RI to delineate the traces of these sewer lines and to investigate potential nitroaromatic contamination which may have affected soil and groundwater along these traces. A contract was awarded in December 2011 to complete RI through DD for the WWTP#1 to TNT A sewer line and to the TNT B sewer line

*Quarterly Update – WWTP #1*

- Final SCR submitted in 6 June 2011
- Final SLERA / BHHRA for WWTP#1 submitted 7 December 2011
- Final Remedial Investigation Report for WWTP #1 & #3 was issued 9 May 2013
- Draft Feasibility Study for the WWTP# 1 and #3 site (including TNTA/TNTB to WWTP1 sewer lines) was submitted 10 June 2013 for CX review. Responses to CX comments were submitted to the CX. Responses were accepted by the CX 23 September 2013.
- Draft Feasibility Study for the WWTP# 1 and #3 site (including TNTA/TNTB to WWTP1 sewer lines) submitted 19 December 2013 for State and public review.

*Quarterly Update – WWTP #3*

- Final SCR for WWTP#3 submitted 16 August 2011
- Final SLERA / BHHRA for WWTP#3 submitted 10 April 2013
- Final Remedial Investigation Report for WWTP #1 & #3 was issued 9 May 2013
- Draft Feasibility Study for the WWTP# 1 and #3 site (including TNTA/TNTB to WWTP1 sewer lines) was submitted 10 June 2013 for CX review. Responses to CX comments were accepted by the CX 23 September 2013.
- Draft Feasibility Study for the WWTP# 1 and #3 site (including TNTA/TNTB to WWTP1 sewer lines) submitted 19 December 2013 for State and public review.

*Quarterly Update – WWTP #1 to TNT A Sewer Line*

- Internal CX draft FS submitted for review 10 June 2013, CX provided comments, responses were provided, and the CX concurred with responses 23 September 2013.
- Final SCR from WWTP#1 to TNT A Sewer Line submitted 6 January 2012
- Draft SLERA/BHHRA from WWTP#1 to TNT A Sewer Line submitted 16 February 2012, with final submitted 19 July 2012
- Final Remedial Investigation Report for WWTP #1 & #3 was issued 9 May 2013
- Draft Feasibility Study for the WWTP# 1 and #3 site (including TNTA/TNTB to WWTP1 sewer lines) was submitted 10 June 2013 for CX review. Responses to CX comments were accepted by the CX 23 September 2013.
- Draft Feasibility Study for the WWTP# 1 and #3 site (including TNTA/TNTB to WWTP1 sewer lines) submitted 19 December 2013 for State and public review.

*Quarterly Update – WWTP #1 to TNT B Sewer Line*

- Final SCR from WWTP#1 to TNT B Sewer Line submitted 30 November 2011
- Final SLERA/BHHRA from WWTP#1 to TNT B Sewer Line submitted 16 December 2011
- Final Remedial Investigation Report for WWTP #1 & #3 was issued 9 May 2013

- Draft Feasibility Study for the WWTP# 1 and #3 site (including TNTA/TNTB to WWTP1 sewer lines) was submitted 10 June 2013 for CX review. Responses to CX comments were accepted by the CX 23 September 2013.
- Draft Feasibility Study for the WWTP# 1 and #3 site (including TNTA/TNTB to WWTP1 sewer lines) submitted 19 December 2013 for State and public review.

**Project 1818 - Waste Water Treatment Plant #2 with Sewer Lines**

*Phase Completion*

- RI/FS – On-going

*Quarterly Update*

- Final BHHRA/SLERA Work Plan submitted 25 June 2013.
- A contract was awarded in September 2010 for the RI/FS to include the sewer line from TNT C to WWTP #2
- A contract was awarded in December 2011 to complete the remedial investigation through decision document for the steel sewer line between WWTP 1, 2, 3
- Work Plans for the site characterization were finalized 5 May 2011 w/ sampling completed 12 April 2012
- Internal Draft Remedial Investigation Report (including draft SCR, BHHRA, and SLERA for WWTP #2, TNT C to WWTP #2 sewer lines, and steel sewer lines) submitted 24 July 2013; OC comments were received 1 October 2013. Responses are currently being prepared for OC review.
- Response to review comments approved for Internal Draft Remedial Investigation Report. Submittal of Draft Remedial Investigation Report anticipated January 2014 for CX review.

**Project 1819 – Pentolite Waste Area Lagoons (PAWL)**

*Phase Completion*

- LSI – Completed 30 September 2000
- PCO – Completed 30 September 2002

**Project 1820 - Red Water Ponds Area (Soils for PRRWP only)**

*Phase Completion*

- RI/FS – On-going
- RmD – Completed 5 June 2007
- RmA-C – Completed 30 March 2009, however, residual risk issues remain and further remediation will be conducted under the RA-C phase.

*Quarterly Update*

- Internal Draft Proposed Plan was submitted on 26 June 2013 for LRN and LRH review, with review comments requested by 29 July 2013; LRL-OC comments received 23 August 2013.
- Final Feasibility Study Addendum submitted 14 May 2013.
- Site Delineation Report detailing residual risk issues remaining at PRRWP was finalized 15 September 2011.
- Value Engineering Study was completed for the Internal Draft Focused Feasibility Study Addendum, which included findings from the Site Delineation Report, (11-15 June 2012). The

document was then resubmitted to CX for their review; CX comments have been incorporated and the Final FS Addendum was issued 14 May 2013.

- Internal Draft RI Report (compendium of existing final reports) was submitted 9 August 2013. Responses to internal review comments were submitted 14 October 2013. The responses were accepted 29 October 2013.
- Final RI report was submitted on 4 November 2013.

### **Project 1821 - Ash Pits 1 and 3**

#### *Phase Completion*

- LSI – Completed 30 September 2000
- RI/FS – On-going (Ash Pits 1 & 3 have separate schedules/reports for site characterization and risk assessment efforts, however, findings from each area will be addressed / evaluated under one Feasibility Study)

#### *Quarterly Update – Ash Pit 1 Coal Yard (RI Portion)*

- Shaw completed the Draft Site Characterization Addendum report 11 June 2012. After full team review, final addendum report was issued 18 October 2012
- Shaw issued Draft BHHRA and SLERA for Ash Pit 1 Coal Yard on 7 May 2013 for full team review; comments requested by 8 July 2013; received AIPH comments 11 September 2013 and provided responses to comments 30 September 2013. Concurrences on all responses were received 22 October 2013.
- Final BHHRA and SLERA for Ash Pit 1 Coal Yard issued on 23 October 2013.
- Internal Draft Proposed Plan for Ash Pit 1 and 3 (including Coal Yards 1 and 3) anticipated 15 January 2014.

#### *Quarterly Update – Ash Pit 3 (RI Portion)*

- Shaw conducted the spring groundwater sampling for inclusion into the Site Characterization (May 2012)
- Shaw completed the Draft Site Characterization Addendum report 31 October 2012. After full team review, final addendum report was issued 20 February 2013
- Shaw submitted the Draft BHHRA and SLERA Addenda including Coal Yard 3 and Ash Pit 3 groundwater sampling on 12 June 2013; comments requested by 12 August 2013; received AIPH comments 17 September 2013 and provided responses to comments 30 September 2013. Concurrences on all responses were received 22 October 2013.
- Final BHHRA and SLERA for Ash Pit 3 Coal Yard issued on 30 October 2013.
- Internal Draft Proposed Plan for Ash Pit 1 and 3 (including Coal Yards 1 and 3) anticipated 15 January 2014.

### **Project 1822 - Powerhouse 2 Ash Pits**

#### *Phase Completion*

- RI/FS – On-going

#### *Quarterly Update*

- The final site characterization report was submitted 17 September 2010; however, an addendum was prepared / submitted 8 May 2012 that included the coal yards for this area.

- After full team review the Final SCR Addendum was issued 28 September 2012
- Shaw submitted Final BHHRA and SLERA Addenda for Coal Yard #2 31 July 2013.
- Internal Draft Proposed Plan is scheduled for issue 18 February 2014.
- Internal Draft RI Report submitted on 21 November 2013.

### **Project 1823 - Acid Areas 1, 2 & 3**

#### *Phase Completion*

- LSI – Completed 30 September 1999
- RI/FS – On-going (Acid Areas 1, 2 & 3 have separate schedules, therefore an INPR revision (schedule shown under Res 2 BG project 1812) was submitted, completed and approved. Once approved, new project numbers were assigned to Acid Areas 2 (project 1828) & 3 (project 1829), leaving Acid Area 1 as project 1823. The monthly fact sheet was revised to reflect these changes.

#### *Quarterly Update – Acid Area 1*

- The final Site Characterization Report (part 1) was completed 20 July 2009
- The final Risk Assessment was completed July 2010
- Draft Remedial Investigation (RI) Report was issued for internal review 19 February 2013 and review was completed 17 April 2013
- Final RI Report was issued 10 July 2013
- A contract was awarded in December 2010 to conduct the Feasibility Study which included additional sampling to further delineate the area
- The Draft FS was submitted for internal review 24 April 2012, followed by a CX Draft on 25 June 2012 and an External Draft on 24 October 2012
- Prior to issuing the CX Draft, a VE study was conducted 11-15 June 2012
- Final FS was issued 18 April 2013
- The Internal Draft Proposed Plan was submitted 17 June 2013 for LRN and LRH review. Review comments were requested to be submitted by 17 July 2013; received LRL-OC comments 12 September 2013. Responses are under preparation.

#### *Quarterly Update – Acid Area 2*

- Final Remedial Investigation Report was issued 28 June 2013
- The draft Focused FS was submitted in April 2012 w/ comments requested by 20 May 2012. To date Ohio EPA and CX have not submitted comments.
- VE Study was conducted 11-15 June 2012 with all comments and valid VE suggestions incorporated into final FFS (to be submitted by 25 July 2012).
- Proposed Plan presented to Public 21 March 2013. Public comment period 21 March- 23 April 2013. No comments received from Ohio EPA or public.
- Draft Decision Document undergoing internal Corps reviews. Draft for CX review expected to be issued 2 July 2013. Draft for Ohio EPA review expected to be issued 14 August 2013. (The money funding this contract expires end of September 2013. Due to LRN Contract office processes, contractor will have to end their work in July 2013 and LRN will take over finalization of document. Quick reviews by reviewers will help greatly.)

### *Quarterly Update – Acid Area 3*

- The draft Focused FS was submitted in April 2012 w/ comments requested by 20 May 2012. To date Ohio EPA and CX have not submitted comments, therefore LRN continues to send out reminders / requests for their comments.
- VE Study will be conducted 11-15 June 2012 (in LRN) with all comments and valid VE suggestions incorporated into final FFS (to be submitted by 25 July 2012).
- Proposed Plan presented to Public 21 March 2013. Public comment period 21 March- 23 April 2013. No comments received from Ohio EPA or public.
- Draft Decision Document undergoing internal Corps reviews. Draft for CX review expected to be issued 2 July 2013. Draft for Ohio EPA review expected to be issued 14 August 2013. (The money funding this contract expires end of September 2013. Due to LRN Contract office processes, contractor will have to end their work in July 2013 and LRN will take over finalization of document. Quick reviews by reviewers will help greatly.)
- Final Remedial Investigation Report was issued 17 September 2013.

### **Project 1824 – Lower Toluene Tanks (LTT)**

#### *Phase Completion*

- LSI – Completed 26 June 2006
- PCO – Completed 5 October 2006

### **Project 1825 - Garage Maintenance (Locomotive Bldg, Wash House, Sellite and Unloading Areas)**

#### *Phase Completion*

- LSI – Completed 30 September 2000
- RI/FS – On-going – Work had already progressed on Locomotive Building and Rail Car Wash area thru Risk Assessment completion (finals submitted June 2011). However, two additional areas were identified (Sellite and Unloading Areas) and added to the overall RI/FS. Therefore, these two additional areas would be completed thru RA and join the original effort in the FS stage.

### *Quarterly Update – Locomotive Building and Wash House Areas*

- The Final Site Characterization Report was submitted 29 Sept 2010.
- The Risk Assessments were completed and submitted June 2011. A contract was awarded 31 May 2012 to complete the FS, PP and DD for the project, which will include all aspects of the various areas on this project.
- Currently nothing is being done on this portion of the project.

### *Quarterly Update – Sellite and Unloading Areas*

- A contract was awarded in December 2010 to conduct a data gap investigation for the former sellite area and unloading area which will be included in the overall FS for this site
- Direct-push soil and groundwater sampling was performed May-June 2011
- Well sampling was completed in the dry season (December 2011) and wet season (April-May 2012).
- Draft Site Characterization Report for the Sellite Area was issued for full team review 14 December 2012 and the Final (incorporating review comments) was issued 11 April 2013

- Draft Site Characterization Report for the Unloading Area was issued for full team review 14 January 2013 and the Final (incorporating review comments) was issued 8 May 2013
- The Final BHHRA and SLERA RA work plans for the data gap portion of the project were issued 16 May 2013.
- Draft BHHRA and SLERA for Sellite Area was issued 19 August 2013 with comments requested by 18 October 2013. Notification of no comment received from the CX 19 September 2013. Comments received from OEPA 9 September 2013. Responses are under preparation.
- Draft BHHRA and SLERA for Unloading Area was issued 3 September 2013 with comments requested by 4 November 2013. Notification of no comment received from the CX 26 September 2013. Comments are due 4 November 2013.
- Final BHHRA and SLERA for Unloading Area anticipated 16 January 2014.
- Final BHHRA and SLERA for Sellite Area anticipated January 2014.

### **Project 1826 - Groundwater - TNT A, B and C & Red Water Ponds Areas**

#### *Phase Completion*

- SI – Completed 30 September 1999
- Remedial Action-Operations (RA-O) – Completed 30 September 2005 (This covered the well maintenance/monitoring portion of the project and LRD told us to include that under the current phase from then on.)
- RI/FS – On-going

#### *Quarterly Update*

- Draft Remedial Investigation report was issued for internal review 8 November 2012; comments from the internal review were incorporated and the Final RI Report was issued 12 December 2012
- The Final PP was issued 26 March 2012 and presented to the public
- Only 1 comment was received (Mark Bohne – RAB member) and was addressed in the draft DD Responsiveness Summary
- Draft DD was issued for internal review on 27 June 2012, followed by a CX Draft (incorporating internal review comments) on 20 November 2012.
- Responses to CX review comments were returned to the CX 8 May 2013
- Currently the plan is No Further Action based on latest comments from CX OC; response to latest round of comments were returned to the CX on 23 September 2013. A path forward decision was reached during a conference call on 31 October 2013 between USACE, Ohio EPA, NASA and CBI. Decision was made to incorporate language into the NASA Master Plan detailing that the groundwater would not be used while NASA occupies the site and that in the event the land is excessed, NASA would do an Environmental Covenant and/or place Land Use Controls at that time (based on the governing laws and regulations) to prohibit groundwater use of the future owner. This language would be referenced in the DD and thereby satisfy Ohio EPA to allow them to concur w/ the DD once USACE submits it for their review and comment.
- A round of groundwater sampling was planned for fall 2013 to establish current conditions. A draft sampling and analysis plan was submitted 22 September 2013. All comments were received by 23 October 2013. Responses were submitted for review 29 October 2013. Based on review comments by USACE-CX and with RAB concurrence, no further groundwater sampling will be conducted at the site. A contract modification is in preparation to re-align unused funding.

## **PROJECT TEAM MEETINGS**

Team meetings are conducted prior to each RAB meeting to discuss project issues and review presentation material planned for the RAB meeting. A Full Team Meeting includes representatives from USACE, NASA, OEPA, and USACE contractors. The last team meeting was held on 12 December 2013. The next team meeting is scheduled for 06 March 2014 at the PBOW Engineering Building.

## **PBOW WEBSITE**

USACE Huntington continues to maintain the website which is dedicated to keeping the public informed about the PBOW activities. This site is updated throughout the year. The PBOW Administrative Record is available at

[http://www.lrh.usace.army.mil/Missions/CurrentProjects/DERPFUDS\(WVOW,PBOW,WVMA\)/PlumBrookOrdnanceWorks](http://www.lrh.usace.army.mil/Missions/CurrentProjects/DERPFUDS(WVOW,PBOW,WVMA)/PlumBrookOrdnanceWorks). New documents are uploaded as they become available. The Public Repository (for public viewing) is maintained at the Firelands College Library Reference Desk and updated on a quarterly basis.

## **PBOW TOLL FREE NUMBER**

USACE Huntington has a toll-free number in place for your use. If you have any information such as personal knowledge, photographs, maps, newspaper articles of past activities or other information you would be willing to share, or if you have questions about current activities at the site, please feel free to use the toll free number. USACE is interested in hearing from you. You may call toll free (800) 822-8413 to speak with the USACE PBOW Technical Coordinator.

## **PROJECT CONTACT**

The PBOW Project Manager may be contacted at (304) 399-5388, fax (304) 399-5715 or via email at [PBOW@usace.army.mil](mailto:PBOW@usace.army.mil).