

Welcome

Former York Naval Ordnance Plant Remediation Project

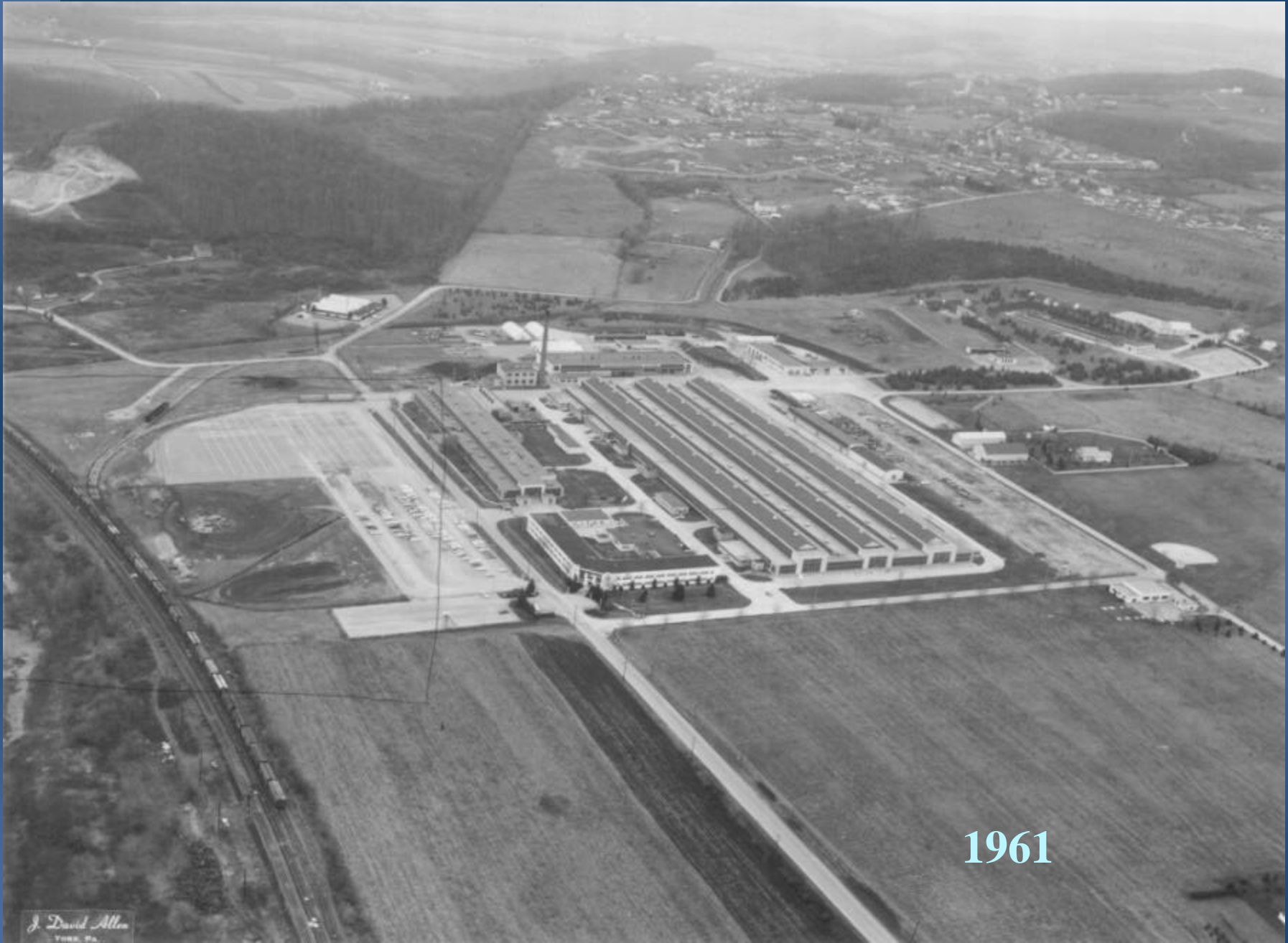
June 23, 2004

History of Ownership

- 1941-1944 York Safe and Lock Company
 - Site constructed as part of National Defense Program
 - 40mm twin and quadruple gun mounts, complete with guns
- 1944-1964 U.S. Navy
 - Blaw-Knox operated and managed site production
 - 40mm twin and quadruple gun mounts, complete with guns
 - War-service weapons and rocket launchers, 3"/50 guns, 20mm aircraft guns and power drive units for 5"/54 guns

History of Ownership

- 1964-1981 - American Machine & Foundry (AMF)
 - Continued previous contracts, bomb casings, and anti-submarine rocket launchers and gun directors
 - Golf carts, ski-daddlers, bowling pin lane changers, and motorcycles (added in 1973)
- 1981-Present - Harley-Davidson Motor Company (H-D)
 - Started to phase out military products
 - Concentrated on motorcycles



1961

J. David Allen
York, Pa.



2002
Aerial
Photo

Two Cleanup Objectives

- **Ongoing Soil and Groundwater Remediation**
- **Ordnance and Explosives (OE) Removal**

Ongoing Soil and

Groundwater Remediation

Regulatory Agencies Involved

- Pennsylvania Department of Environmental Protection (PADEP) formerly known as Pennsylvania Department of Environmental Resources (PADER)
- U.S. Army Corps of Engineers (USACE)
- U.S. Environmental Protection Agency (EPA)

Initial Investigations

- 1986 Harley-Davidson began voluntary investigation
 - Findings reported to PADEP
- A series of investigations, reports, and cleanup work followed

Environmental Agreements

- 1995 Harley-Davidson & United States Govt.
 - Agreed to share costs for soil and groundwater investigation and cleanup
 - Agreement included ordnance removal by USACE
- 2002 Harley-Davidson and EPA
 - Signed agreement on 5/20/02 to participate in Federal Facility Lead Program

Soil Contaminants of Concern

- Chlorinated Solvents
 - Trichloroethene (TCE)
 - Tetrachlorethene (PCE)
 - 1,1,1-Trichloroethane (TCA)
- Metals
 - Chromium
 - Lead
 - Nickel
- Petroleum By-products
- Polychlorinated Biphenyls (PCBs)

Existing Soil Remediation Activities

- In-Place Treatment of Soils:
 - Removal of solvents in soils by vapor extraction
 - Building 4 process area - 1995 and ongoing
 - Underground Storage Tanks Building 45- 1996

Existing Soil Remediation Activities

- Removal of Contaminated Soils:

Underground storage tank replacements - 1991-1992

Chrome plating area - 1995-1996

Old Waste Containment Area - 1996

Zinc plating area - 1996-1997

Old wastewater tanks - 2000

Electrical transformers upgraded - 1999-2004

Softail plant construction - 2001-2002

Groundwater Contaminants

- Chlorinated Solvents
 - Trichloroethene (TCE)
 - Tetrachlorethene (PCE)
 - 1,1,1-Trichloroethane (TCA)
- Metals
 - Chromium
 - Lead

Existing Groundwater Remediation Activities

- Monitoring Wells
 - 102 installed from 1986 to present
- Extraction and Treatment System
 - Groundwater treatment plant built in 1990
 - Removal of contaminants in air-stripping tower
 - System operation to continue several years
 - Extraction (Capture) wells (17 installed)

Next Steps for Soil and Groundwater Cleanup

- Continue current groundwater treatment
- Complete site-wide Work Plan for further investigation and begin implementation
- Conduct additional off-site well and water use survey
- Perform on-site soil vapor sampling

Ordnance and Explosives (OE) Removal

Current OE Project

- Work performed as part of FUDS (Formerly Used Defense Sites) Program
- Address Harley-Davidson need to expand site for company tractor trailers parking area.

OE Background

- Various non-explosive ordnance (ammunition) related items were manufactured under U.S. Government oversight from 1941-1964.
- These included 3"/50, 20mm and 40mm gun mounts. They were test fired with inert loaded projectiles at the site.

Planned OE Removal Action

- Potential Locations
 1. Two sand filled target butts.
Building 16 – East and west
 2. Firing point misfire pits.
Buildings 14 and 16
 3. Burial sites for fired items.
20mm dumpsite SW of Building 14



OE Area

2002
Aerial
Photo

Explosive Ordnance Disposal (EOD)



Building 16 East & West Target Butt



1993 Removal Mis-Fire Pit

Inert Loaded Projectiles

- Inert (non-explosive) projectiles may have been buried near the sand bunkers for disposal.
- These items were recovered from the sand filled target bunkers.

Inert Loaded Projectiles

- Inert projectiles look like live ones.
- Each projectile must be inspected for the presence of explosive material.
- They will be separated from the sand in the bunkers and inspected.

Mis-Fires

- Some of the inert loaded projectiles did not fire from the gun mounts when they were supposed to. These are called mis-fires.
- The mis-fires had non-functioning propellant trains due to either internal malfunction, or malfunction of the gun assembly.

Mis-Fires (continued)

- The mis-fires were placed in mis-fire pits constructed near the firing points.
- These mis-fires have a live propellant train intended to propel them into the targets.
- The propellant is a low explosive.



Proposed OE Cleanup

- Finalize the Work Plan
- Safely remove OE material late summer
- Project team will secure a 200 ft. safety zone within a 600 ft. buffer zone
- Approximately two months for field work
- Detonation, if required, will be late afternoon and will sound like a shotgun in the distance

Stakeholder Relations

- Public Information and Involvement Plan
- Newsletters
- Information Telephone Line 717-852-6664
- Website (www.yorksiteremeddy.com)
- Information Repository-Martin Library
- Visit Elected Officials
- Visit Boundary Neighbors
- Periodic Meetings

Harley-Davidson's Commitment

- Keep our stakeholders informed of cleanup activities
- Continue to work closely with the regulatory agencies
- Fully meet environmental requirements

Questions and Answers