FINAL

ENVIRONMENTAL CONDITION OF PROPERTY REPORT

LYCOMING MEMORIAL
U.S. ARMY RESERVE CENTER (PA148)
1605 Four Mile Drive
Williamsport, PA 17707-1989

Prepared For:

U.S. Army Corps of Engineers – Louisville District
Engineering Division – Environmental Engineering Branch
600 Dr. Martin Luther King, Jr. Place
Louisville, Kentucky 40202-2232

MARCH 2007

CERTIFICATION

All information/documentation provided accurately reflects the environmental condition of the property. This ECP Report is in general accordance with the U.S. Department of Defense (DOD) requirements for completion of an Environmental Condition of Property (ECP) Report.

BRUCE L. KISH **DATE**
Environmental Protection Specialist
99TH Regional Readiness Command

The undersigned certifies the contents of this report are in general accordance with DoD policies for the completion of an ECP.

LENARD GUNNELL, P.G **DATE**
Project Geologist
U.S. Army Corps of Engineers

Executive Summary

CH2M HILL and Plexus Scientific Corporation (Plexus), under contract to the U.S. Army Corps of Engineers, Louisville District, have prepared this Environmental Condition of Property (ECP) Report for the Lycoming Memorial U.S. Army Reserve Center (USAR Center) (Facility ID PA148), hereafter referred to as the "Property" or "USAR Center." The Property is in Williamsport, Lycoming County, Pennsylvania and encompasses approximately 6.6 acres.

This ECP was conducted in general conformance with the Department of Defense's Base Redevelopment and Realignment Manual, DoD 4165.77-M (BRRM), Army Regulation 200-1, and the American Society for Testing and Materials (ASTM) Designation D 6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*.

This ECP Report details the history of the Property, including the U.S. Army Reserve and any prior tenant uses of the Site and the resulting environmental condition of the Property.

The USAR Center is on approximately 6.6 acres of land with two permanent structures, a 19,500 square-foot administration building and a 1,900 square-foot organizational maintenance shop (OMS) building. The 327th Quartermaster Company (logistics and petroleum pipeline provider) is the present unit at the USAR Center.

Based on a review of aerial photographs and United States Geological Survey (USGS) topographical maps dating back to 1934, the Property was undeveloped prior to the 1960 land acquisition by the U.S. Government. The original buildings were constructed in 1960.

Areas of potential environmental concern were reviewed, and CH2M HILL and Plexus found evidence indicating the release of POLs from an underground storage tank (UST) has occurred. According to interviews with site personnel in 1998, petroleum-impacted soil was identified during the 1988 removal of the 10,000-gallon fuel oil UST associated with the administrative building. Petroleum-impacted soils encountered during the removal of the UST were excavated and transported off-site. No documentation regarding the closure of this UST, including the sampling of existing soils and underlying groundwater, was identified at the time of this report.

In accordance with Department of Defense (DoD) policy defining the classifications (See Sherri Goodman Memorandum dated 21 October 1996), the Property has been classified as Type 2. This classification does not include categorizing the property based on *de minimis* conditions that generally do not present material risk of harm to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Contents

Appendixes

Abbreviations and Acronyms

The following is a comprehensive list of abbreviations and acronyms that are used throughout this report.

ACM	asbestos-containing material
AHERA	Asbestos Hazard Emergency Response Act
AMSA	Area Maintenance and Support Activity
AR	army regulation
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BRAC	Base Realignment and Closure
BRRM	Base Redevelopment and Realignment Manual
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CFR	Code of Federal Regulations
CONEX	Container Express
DoD	Department of Defense
ECP	environmental condition of property
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
FEMA	Federal Emergency Management Agency
ISC	Installation Spill Contingency
kg	kilogram
LBP	lead-based paint
LUST	leaking underground storage tank
MEC	munitions and explosives of concern
MEP	military equipment parking
MSDS	material safety data sheet
NGVD	National Geodetic Vertical Datum
NFA	no further action

NPL	National Priorities List
OMS	organizational maintenance shop
OWS	oil/water separator
PCB	polychlorinated biphenyl
pCi/L	picoCuries per liter of air
PADEP	Pennsylvania Department of Environmental Protection
PDOT	Pennsylvania Department of Transportation
PNDI	Pennsylvania Natural Diversity Inventory
POL	petroleum, oil, and lubricant
POV	privately owned vehicle
PP&L	Pennsylvania Power & Light
PSOTNC	Pennsylvania Science Office of the Nature Conservancy
RCRA	Resource Conservation and Recovery Act
RCRIS	RCRA Information System
RQ	reportable quantity
RRC	Regional Readiness Command
SAIC	Science Applications International Corporation
SPCC	Spill Prevention, Control and Countermeasure
STATSGO	State Soil Geographic Database
TSD	treatment, storage, or disposal
TSI	thermal system insulation
USACE	United States Army Corps of Engineers
USAR	United States Army Reserve
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	underground storage tank
VAP	voluntary action program
WMWA	Williamsport Municipal Water Authority
WSR	wild and scenic river

1 Introduction

CH2M HILL, under contract to the U.S. Army Corps of Engineers (USACE) Louisville District Engineering Division was authorized to conduct an Environmental Condition of Property (ECP) report for the Lycoming Memorial U.S. Army Reserve Center (PA148). The facility is located at 1605 Four Mile Drive, Williamsport, Lycoming County, Pennsylvania, and is hereafter referred to as the "Property" or "USAR Center." CH2M HILL and Plexus Scientific Corporation prepared this ECP report under contract number W912QR-04-D-0020, Task Order No. 0018, with the Louisville District USACE.

A visual non-intrusive reconnaissance of the Property was conducted on August 8, 2006 in support of the ECP. The reconnaissance purpose was to visually obtain information indicating the likelihood of recognized environmental conditions associated with the Property or adjacent properties.

In preparing this ECP report, CH2M HILL and Plexus Scientific Corporation gathered information from the available records and previous work from others; interviews with individuals purporting to be familiar with the Property; and observations from a site reconnaissance. The accuracy of the information obtained from these sources was not verified by CH2M HILL or Plexus Scientific Corporation. As such, CH2M HILL and Plexus will make no warranty, expressed or implied, relative to the accuracy, completeness, or reliability of the information used to create the records and reports prepared by others.

1.1 Purpose of Environmental Condition of Property (ECP)

The Military Department with real property accountability shall assess, determine and document the environmental condition of all transferable property in an ECP Report. This ECP Report is based on readily available information. Pursuant to the Department of Defense's policy, set forth in the Base Redevelopment and Realignment Manual (DoD 4165.66-M, March 1, 2006) Section C8.3 (BRRM), the primary purposes of the ECP Report include the following:

- Provide the Army with information it may use to make disposal decisions.
- Provide the public with information relative to the environmental condition of the property.
- Assist in community planning for the reuse of BRAC property.
- Assist Federal agencies during the property screening process.
- Provide information for prospective buyers.
- Assist prospective new owners in meeting the requirements under EPA's "All Appropriate Inquiry" regulations.
- Provide information about completed remedial and corrective actions at the property.
- Assist in determining appropriate responsibilities, asset valuation, and liabilities with other parties to a transaction.

The ECP Report contains the information required to comply with the provisions of 40 Code of Federal Regulations (CFR) Part 373, which require that a notice accompany contracts for the sale of, and deeds entered into, for the transfer of federal property on which any hazardous substance was stored, released or disposed of. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 120(h) stipulates that a notice is required if certain quantities of designated hazardous substances have been stored on the property for one year or more – specifically, quantities exceeding 1,000 kilograms or the reportable quantity, whichever is greater, of the substances specified in 40 CFR 302.4 or one kilogram of acutely hazardous waste as defined in 40 CFR 261.30. A notice is also required if hazardous substances have been disposed of or released on the property in an amount greater than or equal to the reportable quantity. Army Regulation (AR) 200-1 requires that the ECP Report address asbestos, lead-based paint, radon and other substances potentially hazardous to human health.

This ECP Report used the American Society for Testing and materials (ASTM) Designation D 6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*, the BRRM, CERCLA § 120, and Army Regulation 200-1.

1.2 Scope of Services

This ECP report covers the 6.6-acre USAR Center located at 1605 Four Mile Drive, Williamsport, Pennsylvania. The Property is bounded by Four Mile Drive to the south, Miller's Run Creek to the north and east, and residences to the west (a wooded lot separates the multi-family residences from the Property). All site maps, figures and aerial photographs referenced herein are provided in Appendix A, while Appendix B contains the photographs taken during the August 8, 2006 site reconnaissance. Appendix C contains the Property chain of title information, and lease or permit agreements if applicable. Relevant historical environmental documents and reports are provided in Appendix D, while Appendix E contains the Environmental Data Resources, Inc. (EDR) radius search reports commissioned for this effort.

This ECP report classifies the property into one of seven DoD Environmental ECP categories as defined by the Deputy Under Secretary of Defense Memorandum, *Clarification of "Uncontaminated" Environmental Condition of Property at Base Realignment and Closure (BRAC) Installations*, dated October 21, 1996. The property classification categories are as follows:

- ECP Area Type 1—An area or parcel of real property where no release or disposal of hazardous substances or petroleum products or their derivatives has occurred (including no migration of these substances from adjacent properties).
- ECP Area Type 2—An area or parcel of real property where only the release or disposal of petroleum products or their derivatives has occurred.
- `ECP Area Type 3—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but at concentrations that do not require a removal or remedial action.
- ECP Area Type 4—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and all

remedial actions necessary to protect human health and the environment have been taken.

- ECP Area Type 5—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred and removal or remedial actions, or both, are underway, but all required actions have not yet been taken.
- ECP Area Type 6—An area or parcel of real property where release, disposal, or migration, or some combination thereof, of hazardous substances has occurred, but required response actions have not yet been initiated.
- ECP Area Type 7—An area or parcel of real property that is unevaluated or requires additional evaluation.

2 Site Location and Physical Description

2.1 Site Location

The Lycoming Memorial USAR Center is located in Lycoming County, on the north side of the city of Williamsport, Pennsylvania, at 1605 Four Mile Drive. Figure 1 in Appendix A shows the site location. The 6.6-acre parcel is situated on Four Mile Drive to the south, and is bounded by Miller's Run Creek to the north and east, and residences to the west (a wooded lot separates the multi-family residences from the Property).

2.2 Asset Information

Facility Name and Address:	Lycoming Memorial U.S. Army Reserve Center 1605 Four Mile Drive Williamsport, Pennsylvania
Property Owner:	United States Government
Date of Ownership:	February 19, 1960
Current Occupant:	327th Quartermaster Battalion
Zoning:	Northwest corner, Apartment – Office Remainder of Property, Commercial Neighborhood
County, State:	Lycoming, Pennsylvania
USGS Quadrangle(s):	Montoursville North, Pennsylvania
Section/Township/Range:	not applicable
Latitude/longitude:	41° 15′ 43.9″N; 76° 58′ 22.8′′W
Legal Description:	

According to the chain of title for Property (Appendix C), the current property legal description is as follows:

Being that parcel or tract of land, known as Tract No. 100, situated and lying in Loyalsock Township, Lycoming County, State of Pennsylvania.

Assessor's Parcel No: 26-330-143.A

2.3 Physical Description

The Lycoming Memorial USAR Center is located on a 6.6-acre parcel on the northern side of the city of Williamsport, Pennsylvania. The Property is located on the USGS 7.5 minute

Montoursville North Quadrangle map, at an average elevation of 560 feet National Geodetic Vertical Datum (NGVD). The topography is generally flat, with a slight decrease in elevation to the north and east toward Miller's Run Creek, which borders the Property.

The USAR Center contains two permanent structures and two parking lots. Construction of both the approximately 19,500 square-foot administration building and the 1,900 square-foot organizational maintenance shop (OMS) building were completed in 1960. Both structures are on concrete foundations, and consist of concrete block walls covered with a brick veneer. A military equipment parking (MEP) area and a privately owned vehicle (POV) parking area are also contained within the Property. Chain-link security fencing topped with barbed wire encloses the MEP area and OMS building. Figure 2 in Appendix A shows the site layout.

Approximately one-third of the Property is covered by impervious surface features such as asphalt parking areas, driveways, concrete walkways, and building footprints. The remaining land is grassed with deciduous trees along the northern, western, and eastern boundaries. Dense brush is also present along Miller's Creek Run.

The administration building is an irregular-shaped multiple-level structure, with a two-story drill hall connected by a one-story enclosed corridor. The building's interior consists of office space, classrooms, break room area, storage, former indoor firing range, and a drill hall. A boiler room is located in a room in the northwestern portion of the administration building whose foundation is located approximately 4 feet below grade. According to site personnel, there has never been a kitchen on the Property, only a break room. There is no grease trap associated with the break room area (SAIC, 1995).

The multi-story OMS building provides unobstructed, open space to perform limited maintenance activities on military equipment. The building contains one service bay and the present main purpose of the building is for storage purposes. At the time of the site reconnaissance, materials/supplies such as tents, pumps, ladders, and water containers were observed in the OMS building. Numerous storage lockers for reservists were also present in the OMS building and were locked and inaccessible. No vehicles were parked in the OMS building and no evidence of recent vehicle maintenance was observed. The former vehicle maintenance pit located in the vehicle bay portion of the OMS building was filled with concrete (Photograph 6, Appendix B). No floor drains were visible in the OMS building.

Three flammable storage cabinets were observed in the OMS building. One flammable storage cabinet was empty and the other two flammable storage cabinets were locked. No evidence of staining or chemical-type odors was observed in the vicinities of the flammable storage cabinets. In addition, the petroleum, oil, and lubricant (POL) storage room located in the southwest corner of the OMS building was also locked and could not be opened. According to site personnel, no POLs or antifreeze are presently stored on the Property. POLs or antifreeze that is needed to "top off" military vehicles are purchased at the store.

At the time of the site reconnaissance, four Container Express (CONEX) type storage containers were observed in the MEP area. These storage containers were locked and inaccessible at the time of the site reconnaissance.

Vehicle Wash Area

A vehicle wash area consisting of a concrete pad is located east of the OMS building in the fenced MEP area (Photograph 8, Appendix B). The vehicle wash area, constructed in 1960, contains one floor drain (with a sand trap) in the center of the concrete pad. The floor drain flows to an oil water separator (OWS), which discharges to the sanitary sewer (Horne Engineering Services, 2001).

2.4 Site Hydrology and Geology

The Lycoming Memorial USAR Center and Williamsport are located within the Western Appalachian Region, located in the northwestern quadrant of the Ridge and Valley Physiographic Province. The area is characterized by moderate to very high relief, with long, narrow ridges and broad to narrow valleys. Surface elevations range from approximately 500 feet mean sea level (msl) to 1,000 feet msl in the Williamsport area.

Both Williamsport and the Lycoming Memorial Center are found on the U.S. Geological Survey 7.5 minute Montoursville North quadrangle map. As shown on this map, ground surface elevations at the center average 560 feet msl.

2.4.1 Surface Water Characteristics

Figure 3 in Appendix A provides a portion of the 1999 Montoursville North, Pennsylvania United States Geological Survey (USGS) topographic map which includes the Property. As shown, the Property is situated at an elevation of approximately 560 feet above msl and is relatively flat. In the immediate vicinity of the Property, the land surface slopes to the south and east towards Miller's Run Creek, located along the northeastern and eastern boundaries of the Property (Figure 2, Appendix A).

No storm water drains are located on the Property. Storm water sheet flows to the north and east into Miller's Run Creek. As shown on Figure 2, Appendix A, a drainage outfall into Miller's Run Creek is located at the northeast corner of the POV area (Photograph 9, Appendix B). Miller's Run Creek flows into the West Branch of the Susquehanna River (EA, 1995). The West Branch of the Susquehanna River is located approximately 1-mile south of the Property. A shallow drainage ditch is located long the west side of the MEP area and flows to the north towards Miller's Creek Run. A drainage ditch is also located along the southern boundary of the Property, within the northern right-of-way of Four Mile Drive. Storm water collected in this ditch from the southern edge of the Property flows to the east into Miller's Run Creek. No evidence of stressed vegetation was observed near these ditches during the August 2006 site reconnaissance.

In 1991, Miller's Run Creek was realigned by Lebo Construction (U.S. Army, 1991a). In 1998, it was necessary to repair erosion damage along the stream bank (U.S. Army, 1998). In April 1964, the Pennsylvania Department of Transportation (PDOT) also realigned Miller's Run Creek (U.S. Army, 1977).

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, Community Panel 42081C0358E, the northeastern half of the Property is located in the 100-year floodplain EDR 2006, Appendix E). The majority of the POV area is located within

the Zone A flood plain where base flood elevations have not been determined. None of the buildings on the Property are located within the flood plain.

2.4.2 Hydrogeological Characteristics

According to information acquired from the Soil Conservation Service's State Soil Geographic Database (STATSGO) for Lycoming County, specific types of soil at the Property are from the Berks Series.

Surface soils of Berks Series (0 to 33 inches) are listed as a stony - loam with slow infiltration rates. The subsurface soils (33 to 37 inches) are defined as a weathered bedrock. These soils do not meet the requirements for a hydric soil (EDR, 2006).

The geology in the area of the Lycoming Memorial USAR Center consists of unconsolidated valley fill deposits of quaternary age and consolidated bedrock of Devonian Age. The Property is located within the glacial floodplain formed along the West Branch of the Susquehanna River. Unconsolidated alluvial and glacial deposits consisting of sand, gravel, cobbles, and small bounders with relatively minor amounts of silt and clay, collectively termed "overburden" lie on bedrock. Bedrock strata in the area of the Property are units of the upper Devonian Period. From oldest to youngest, they are the Marcellus formation, the Mahantango Formation, the Harrell Formation, and the Brallier Formation. The Marcellus Formation underlies the lower portion of the WMWA well field, near the northern boundary of the Susquehanna River. The formation consists of carbonaceous shales with thin beds of soft clay. The Mahantango Formation is comprised primarily of interbedded silty shales and shaley siltstones. The lime-rich units comprising the upper 200 feet of the Mahantango Formation are the units of principal concern in terms of groundwater conditions (USEPA, 1991).

There are two primary aquifers in the area; the overburden and bedrock aquifer systems. The shallow overburden aquifer is an unconfined, water table aquifer and consists of quaternary unconsolidated deposits. In the site vicinity, the general groundwater flow in the overburden aquifer is to the south towards the Susquehanna River. The underlying bedrock aquifer system consists of upper to middle Devonian-age rocks, including shales, siltstones, and limestones. Groundwater occurrence and movement in the bedrock aquifer is controlled by secondary features such as solution features, jointing, fracturing, and orientation of bedding planes. The direction of groundwater flow is primarily to the southwest, along the strike of the bedrock (USEPA, 1991).

2.5 Site Utilities

Water Service— The Williamsport Municipal Water Authority (WMWA) provides potable water service to the Property.

Sanitary Sewer System— The Williamsport Sanitary Authority provides sanitary sewer service to the Property. The primary source of wastewater that is directed to the city sewer system includes non-process wastewater (bathrooms, sinks, etc.).

Gas and Electric— Natural gas service is provided by UGI Penn Natural Gas to the Property. The heating system for the USAR Center was upgraded to natural gas from fuel oil in 1988 (U.S. Army, 1998). As shown on Figure 2, the presence of a coal storage room

indicated that the heating system was previously coal fired (Photograph 4, Appendix B) (U.S. Army, 1959). Pennsylvania Power & Light (PP&L) provides electric service to the Property.

2.6 Water Supply Wells and Septic Systems

Based upon a review of available historical site and agency records and interviews with site personnel, neither a water supply well nor confirmation of a septic system are presently located at the Property.

Potable water is supplied by the WMWA. The WMWA Water Treatment Plant, which was officially commissioned in 1992, presently filters and treats the surface water supplies for the Greater Williamsport Area (WMWA, 2006).

The WMWA well field is located in the Susquehanna River floodplain at the convergence of Lycoming Creek and the Susquehanna River in Williamsport, approximately 3 miles west/southwest of the Property. The nine wells in this well field are used infrequently as a supplemental water supply during the dry periods of the year. Each well is approximately 30 feet deep, 26 feet in diameter, and constructed of laid masonry stone. The wells are dug into the glacial and alluvial deposits in the Lycoming Creek Valley and obtain their water from these highly transmissive, overburden deposits. In an average year, 100 to 200 million gallons are pumped from the well field, mostly in the summer when reservoir yields are low. A drought year may demand as much as 300 million gallons from the well field, and a high precipitation year significantly less (Pennsylvania Department of Health, 1993).

The well field was not used in 1985 or 1986 pending results of the on-going groundwater study associated with the AVCO Lycoming site, a National Priorities List (NPL) site. The AVCO Lycoming site, an active aircraft engine production facility, is located in the western part of Williamsport. The wells are presently remediated with air strippers (Pennsylvania Department of Health, 1993).

A search of Federal and State water well databases identified two water supply sources within a 0.5-mile radius of the Property. The two wells are identified as irrigation wells and are used by Tebbs Farm (1620 Four Mile Drive) located across Four Mile Drive to the south. The irrigation wells are located topographically down-gradient of the Property.

According to site drawings (1978/1979), the inactive vehicle wash area drained either directly into the adjacent creek or into a 500-gallon capacity septic tank along the creek. No documentation was available indicating if the 500-gallon septic tank had been properly closed (U.S. Army, 1998).

3 Site History

3.1 History of Ownership

Land titles for the Property, which are included in the chain of title report in Appendix C, were available back to 1942. According to the chain of title provided by NETR-Real Estate Research & Information, the Property (Assessor's Parcel No: 26-330-143.A) was purchased by the United States of America on February 19, 1960 from the Nittinger family. The report did not identify any environmental liens, institutional controls or engineering controls for the USAR Center Property.

In a proposed land acquisition memorandum from the U.S. Army, it was indicated that in April 1964, the PDOT also realigned Miller's Run Creek. The property line followed the center line of the stream; however, the realignment project cut off Stroehmann's property from an irregular shaped piece of land. The land was graded and seeded and now forms a continuous area to the bank of Miller's Run Creek (U.S. Army, 1977). No additional information regarding the purchase of this piece of land was available at the time of the report.

According to a City Directory summary provided by EDR and dated July 21, 2006, the address of the USAR Center was first listed in the research source (Polk's City Directory) in 1970, the earliest year of the search. Subsequent city directory searches also list the Property. Historical documentation supports that the USAR Center existed in 1970. A copy of the City Directory is included in Appendix E.

3.2 Past Uses and Operations

In 1960, the U.S. Government purchased the 6.6 acres of land for construction of the USAR Center. Construction of the administration building and OMS building occurred in 1960. Historical information sources suggest that the Property was formerly undeveloped. The Property has served as a reserve and mobilization center for the U.S. Army Reserve since the U.S. Government acquired the land in 1960.

The Property primarily functioned as an administrative, logistical, and educational facility, with limited maintenance of military vehicles occurring in the OMS building. The Property was historically used by reservists for drill activities on various weekends throughout the year. Field training was performed at the Susquehanna Ordnance Depot (U.S. Army, 1973). The 327th Quartermaster Company (logistics and petroleum pipeline provider) is the occupying unit at the Lycoming Memorial USAR Center. At the time of the site reconnaissance, the administration building contained various items, including desks, office furniture, folding tables, and stored equipment such as sleeping bags, clothes, and boots.

The OMS building was used to perform limited maintenance activities on military equipment. Activities inside the OMS building were limited to preventative maintenance

checks, including checking vehicle fluids such as motor oil, water, and antifreeze, and light maintenance activities. Any equipment requiring heavier maintenance activities was sent to an Area Maintenance Support Activity (AMSA) shop located at one of the other Reserve Centers in Pennsylvania.

The OMS building contains three service bays and is currently used for storage purposes. No vehicles were parked in the OMS and no evidence of recent vehicle maintenance was observed. A former vehicle maintenance pit is located in the southernmost vehicle bay of the OMS building. The vehicle maintenance pit was observed as filled with concrete. No floor drains were visible in the OMS building.

According to a Spill Prevention, Control, and Countermeasures Plan (SPCC) Plan prepared for the Property in 1995, hazardous materials stored inside and outside of the OMS building consisted of automotive fluids. POL containers (less than or equal to 50 gallons) were stored in metal POL storage bins located at the northwest corner of the MEP area. During the site reconnaissance there was no indication of distressed vegetation, leaks, stains, and no file information was reviewed indicating a release of POLs in this area. Various automotive chemicals, cleaners, and paints were stored in flammable storage lockers inside the OMS building. These materials stored in the flammable storage lockers consisted of small containers (less than 5 gallons) of glass cleaner, penetrating fluid, grease/sealants, paints, starting fluid, insect repellant, waterless hand cleaner, general detergent, windshield solution, antifreeze, motor oil, and hydraulic fluid (EA, 1995).

The POL storage bins located in the northwest corner of the MEP area was identified as a drum storage area in a 1997 internal compliance assessment performed by the 99th Regional Support Command, Customer Support Team #1 (U.S. Army, 1997).

At the time of the site reconnaissance, three flammable storage cabinets were observed in the OMS building. One flammable storage cabinet was empty and the other two flammable storage cabinets were locked and inaccessible. No evidence of staining or chemical-type odors was observed in the vicinities of the flammable storage cabinets. In addition, the POL storage room located in the southwest corner of the OMS building was also locked and could not be opened. According to site personnel, no POLs or antifreeze are presently stored on the Property. POLs or antifreeze that is needed to "top off" military vehicles are purchased at the store.

Vehicle washing would have historically occurred on the vehicle wash area to the east of the OMS building. The vehicle wash area, constructed in the 1960s, contains one floor drain (with a sand trap) in the center of the concrete pad. According to site drawings (1978/1979), the vehicle wash area drained either directly into the adjacent creek or into a 500-gallon capacity septic tank along the creek. In approximately 1979, the vehicle wash area drain was connected to an OWS, which discharges to the sanitary sewer (U.S. Army, 1998). A 1997 internal environmental compliance assessment for the USAR Center indicated that the facility did not use detergents or solvents when cleaning vehicles at the vehicle wash area, per policy (U.S. Army, 1997). However, the effective date of this policy is unknown.

Historical aerial photographs and topographic maps were the primary source of information on the past use and operations at the Property. Figures 3 - 12 in Appendix A

provide USGS topographical maps and aerial views of the Property and surrounding areas in 1934, 1953, 1963, 1965, 1973, 1986, and 1999.

The 1934 USGS topographical map (Figure 4, Appendix A) depicts the Property and surrounding properties to the north and east as undeveloped. Miller's Run Creek is present along the northern and eastern boundaries of the Property. Four Mile Drive is depicted to the south and small building structures (likely residences) are presented on the adjacent properties to the west and south (along Four Mile Drive). Substantial development has already occurred in the Williamsport and surrounding area.

Similar to the 1934 USGS topographical map, the 1953 USGS topographical map (Figure 5, Appendix A) shows the Property and surrounding properties to the north and east as undeveloped. Additional small building structures are present to the west and south of the Property, along Four Mile Drive.

The USAR Center with administration and OMS buildings are shown on 1963 aerial photograph (Figure 6, Appendix A). The MEP and POV parking areas are also visible on the Property. Numerous military vehicles and/or CONEX structures are visible in the MEP area. Similar to the 1934 and 1953 USGS topographical maps, single-family residences are located to the west and south, along Four Mile Drive. Small building structures and greenhouses are present to the south (across Four Mile Drive) and cover an approximately 5-acre parcel. A U-shaped commercial building (Stroehmann Bakeries) is present to the east (across Miller's Run Creek).

The 1965 USGS topographical map (Figure 7, Appendix A) show the Property and surrounding properties to the north, west and east relatively unchanged from the 1963 aerial photograph. Fewer building structures are depicted on the property to the south, across Four Mile Drive.

The 1973 aerial photograph (Figure 8, Appendix A) shows that Miller's Run Creek has been realigned (straightened out). Additional vehicles are present in the MEP and POV area. The adjacent properties to the west, east and south are relatively unchanged from the 1965 USGS topographical map. Additional building structures and greenhouses are shown on the property to the south (across Four Mile Drive). A public outdoor pool and rectangular-shaped building has been constructed on the property to the north (across Miller's Run Creek). Further to the west, a large multi-family apartment complex is present.

The 1986 USGS topographical map and 1999 USGS topographical map (Figures 9 and 3, respectively, Appendix A) show the Property and surrounding properties relatively unchanged from the 1973 aerial photograph. The 1999 aerial photograph (Figure 10, Appendix A) also shows the Property and surrounding properties relatively unchanged; however, the MEP area has been expanded to the north of the OMS building.

3.3 Past Use, Storage, Disposal, and Release of Hazardous Substances

3.3.1 Past Use and Storage of Hazardous Substances

Information related to the past use and storage of hazardous substances at the Property was compiled through review of available site records, search of Federal and State environmental databases, and interviews with Army Reserve personnel. Chemicals formerly used and stored at the Property were associated with vehicle and facility maintenance activities, and janitorial services. Janitorial chemicals and building maintenance-related products were stored in the designated storage area within the janitorial closet located in the administration building. Vehicle maintenance products and small amounts of POL products were also stored within designated areas within the OMS building.

Hazardous materials stored inside and outside of the OMS building consisted of automotive and maintenance-related fluids. Various automotive chemicals, cleaners, and paints were stored in flammable storage lockers inside the OMS building (EA, 1995).

Certain types of chemical products used and stored at the Property would have contained CERCLA hazardous substances and would have been stored on a rotational basis in amounts necessary to support the unit through direct support level maintenance. However, there is no indication that CERCLA hazardous substances were stored at the Property for 1 year or more in excess of corresponding reportable quantities.

3.3.2 Past Disposal and Release of Hazardous Substances

Information related to past disposal and potential release of hazardous substances at the Property was compiled through review of available site records, search of Federal and State environmental databases, and interviews with Army Reserve personnel. According to Army Reserve personnel and site records, there is no evidence that hazardous substances above reportable quantities were released or disposed at the Property.

A review of site drawings (1978/1979) during a Total Facility Assessment performed in 1998 indicated that the vehicle wash area drained either directly into the adjacent creek or into a 500-gallon capacity septic tank along the creek. The assessment indicates that the vehicle wash area drain was connected to the OWS in approximately 1979 (U.S. Army, 1998). No file information (i.e. documentation for the closure of the septic tank) or evidence during the site reconnaissance was gathered during this investigation that would confirm the presence or absence of a septic tank system on the Property. A 1997 internal environmental compliance assessment for the USAR Center indicated that the facility did not use detergents or solvents when cleaning vehicles at the vehicle wash area, per policy (U.S. Army, 1997). The effective date of this policy is unknown. No evidence of a release to the property as a result of vehicle wash area was identified during this investigation. Based on process knowledge, fluids generated at the wash rack area would have been diluted with water from spray hoses, thus only de minimis quantities would be suspected to have the potential to be released.

No stained soil or stressed vegetation was observed during the August 2006 site reconnaissance. Additionally, the MEP area and POV parking area did not show any signs of staining and no noxious or foul odors were noted during the site reconnaissance.

3.4 Past Presence of Bulk Petroleum Storage Tanks

A 1998 facility assessment indicates that in approximately 1988, a contractor removed one 10,000-gallon UST that was used to store fuel oil on the Property. The former UST was located in the MEP area north of the boiler room in the administration building. Based on interviews with site personnel, in 1998, petroleum contamination was encountered during the removal of the UST and contaminated soils were excavated and transported off-site. At the time of the 1998 facility assessment, no UST closure/site assessment report was available for review to document site conditions (soil/groundwater) during the UST removal. It was recommended that the records be researched to determine if the UST was properly removed and if contamination is present beneath the Property. It was also unknown if soil/groundwater samples were collected for analysis during the removal of the tank. It was also recommended that if no closure documentation was identified for review, then a limited subsurface investigation be performed to document the UST removal (U.S. Army, 1998).

Site drawings for the Property indicate that the fuel oil UST had a 12,000-gallon capacity (U.S. Army, unknown date).

No UST closure documentation or record of a limited subsurface investigation was available for review at the time of this report.

In addition to bulk POL storage tanks, POLs were stored in a designated storage room located at the southwest corner of the OMS building or in containers located outside in the MEP parking area. POLs containers (less than or equal to 50 gallons) were stored in metal POL storage bins located at the northwest corner of the MEP area. This area was identified as a drum storage area during a 1997 internal compliance assessment (U.S. Army, 1997). Reasonably available information did not include evidence of a POL release in the drum storage area and no visible evidence of a release in this area was noted during the site reconnaissance.

3.5 Review of Previous Environmental Reports

A review of site records produced several reports pertaining to the Property. The following subsections provide a brief summary of these reports. Copies of the reports, unless otherwise specified, are provided in Appendix D.

3.5.1 1987 Asbestos Survey

On December 2, 1987, Biospherics Incorporated performed an asbestos survey at the Lycoming Memorial USAR Center. Asbestos-Containing Materials (ACM) were identified in the following materials: white/gray fibrous insulation on boilers, exhaust duct and converters; vinyl floor tile; white/gray fibrous pipe elbow lagging; plaster ceiling; and flexible duct joints (Biospherics Incorporated, 1987).

3.5.2 1995 Environmental Compliance Assessment Report

On January 27, 1994, Science Applications International Corporation (SAIC) performed an Environmental Compliance Assessment System investigation at the Lycoming Memorial USAR Center. The purpose of the assessment was to identify compliance problems and alternate corrective actions at the USAR Center. The assessment found the environmental program at the Lycoming Memorial USAR Center to be well managed and uncovered a limited number of findings. Significant findings included the lack of a storm water pollution plan and storm water permit study, inadequate SPCC and Installation Spill Contingency (ISC) Plans, and the lack of a hazardous waste inventory and management plan (SAIC, 1995).

3.5.3 1995 Cultural Resources Report

In 1995, the KFS Historic Preservation Group prepared a Cultural Resources Management Plan for the 79th Army Reserve Command facilities. The purpose of the survey was to identify and evaluate historic architectural resources and archeological site potential for all properties controlled or leased by the 79th Army Reserve Command in the State of Pennsylvania. No archaeological sites have been reported for the vicinity of the Property. The proximity of Miller's Run Creek, which forms the northern and eastern boundary of the Property, suggests that evidence of prehistoric occupation may be found within the ground of the facility. The facility is considered to have low archeological potential (KFS Historic Preservation Group, 1995).

3.5.4 1995 Significant Biological Resources

A report entitled *An Inventory of Significant Biological Resources at U.S. Army Reserve Centers in Central and Eastern Pennsylvania* was prepared for the 99th Regional Readiness Command (RRC) in 1995 in an effort to inventory and manage natural resources found at 99th RRC facilities in Pennsylvania. A site visit was performed at the Lycoming Memorial USAR Center on June 9, 1994. The report noted that this Property did not contain any species of concern, natural communities, or wetlands. A very narrow zone of woodland occurs along Miller's Run Creek on the eastern perimeter of the Property. Although this woodland is small and of low quality, a healthy specimen of butternut (Juglans cinerea) was found here. This species appears to be declining (due to a fungus) throughout much of its range and is monitored by the natural heritage programs in several states. Although not currently tracked by Pennsylvania Natural Diversity Inventory (PNDI), the species may become a candidate for listing in Pennsylvania in the future. It was recommended that this tree and its stream bank habitat be protected from future development and site modification (PSOTNC, 1995).

3.5.5 1997 Internal Environmental Compliance Assessment

The 99th Regional Support Command, Customer Support Team #1 (Willow Grove) performed an internal environmental compliance assessment on July 11, 1997 for the Lycoming Memorial USAR Center. The purpose of the assessment was to identify environmental compliance problems to the chain-of-command, projects requiring entry into the work order database, and areas in which the facility is in compliance with current environmental requirements. Results of the assessment identified numerous findings; many

of which included the proper documentation, training, and handling of hazardous substances. Significant findings and/or recommendations included the following: 1) polychlorinated biphenyl (PCB) transformer survey indicates there are no regulated transformers at the facility; however, no assessment of capacitors or light ballasts has been performed; 2) an asbestos survey was performed in 1987; however, it was not performed by an Asbestos Hazard Emergency Response Act (AHERA) certified inspector; 3) asbestos floor tile outside of Room 201 is in poor condition; and 4) initial and long-term radon screening indicated concentrations in excess of 4 pCi/L and radon mitigation was performed (U.S. Army, 1997).

3.5.6 1998 Total Facility Assessment Report

The 416th Engineer Command's Indiantown Gap Facility Engineer Teams performed a Total Facility Assessment Report in April 1998 for the Lycoming Memorial USAR Center. This assessment included an external environmental compliance assessment for the facility. Significant findings included: material safety data sheets (MSDSs) were not available for all chemicals stored at the OMS building; potentially friable asbestos floor tile was identified at the main USAR center and an asbestos management plan was not available; and historical high levels of radon in the administration building should be evaluated to ensure that the radon mitigation system installed in 1992 is functioning properly (U.S. Army, 1998).

Another area of concern was the previous removal of the former UST that was used at the facility to store fuel oil. In approximately 1988, R&J Ertel Inc. removed one 10,000-gallon UST from the MEP area north of the boiler room. According to site personnel, petroleum contamination was encountered during the removal of the UST and contaminated soils were excavated and transported off-site. No UST closure/site assessment report was available for review to document site conditions (soil/groundwater) during the UST removal. It was recommended that the records be researched to determine if the UST was properly removed and if contamination is present beneath the Property. It was unknown if soil/groundwater samples were collected for analysis during the removal of the tank. Although the state did not regulate heating oil USTs, the cleanup of petroleum contamination was still required if a release was discovered during removal. If no closure documentation is identified for review, it was then recommended that a limited subsurface investigation be performed to document the UST removal (U.S. Army, 1998).

According to as-built drawings, an indoor firing range was located on the main floor in the administration building. The indoor firing range is presently used as a classroom (Room 114). Site personnel reported that lead abatement was performed prior to renovation; however, no records were available for review (U.S. Army, 1998).

In addition, one vehicle wash area with an associated drain was identified on the Property. According to drawings (1978/1979) the wash area drained either directly into the adjacent creek or into a 500-gallon capacity septic tank along the creek. In approximately 1979, the vehicle wash area drain was connected to an OWS installed adjacent to the OMS building (U.S. Army, 1998). No file information (i.e. documentation for the closure of the septic tank) or evidence during the site reconnaissance was gathered during this investigation that would confirm the presence or absence of a septic tank system on the Property.

3.5.7 2001 Oil Water Separator (OWS) Survey Report

Horne Engineering Services prepared an OWS survey report for numerous USAR sites within the state of Pennsylvania, including the Lycoming Memorial USAR Center. As part of the reporting process, Horne Engineering Services was responsible for documenting and locating each OWS located at USAR facilities throughout Pennsylvania. The report states that an OWS is located on the Property in the central portion of the MEP area.

According to the OWS survey report, the OWS was installed in the 1960s; however, a 1998 Total Facility Assessment Report prepared by the U.S. Army indicates that the OWS was not installed until 1979. Prior to installation of the OWS, the vehicle wash area (installed in the 1960s) was either drained directly into the adjacent creek or into a 500-gallon capacity septic tank along the creek (U.S. Army, 1998). The OWS is a gravity separator in a concrete manhole (located adjacent to the OMS) with a wastewater capacity of 2,650 gallons and received rinse water from the vehicle wash area. The vehicle wash area consists of a 16 ½ foot by 24 ½ foot concrete pad (curbed on two sides) with a sand trap/floor drain in the center. At the time of the survey, approximately 475 gallons of wastewater was present in the OWS and no oil sheen was visible. There was minimal sediment in the OWS and the vehicle wash area had not been used for years. The OWS discharges to the sanitary sewer. It was recommended that the OWS be closed because the vehicle wash area is not in use (Horne Engineering Services, 2001).

4 Adjacent Properties

Adjacent property land uses are significant to the ECP process, as these current or past uses may have an environmental impact on the USAR Center. Adjacent properties were included in the EDR report review for this reason. Typically adjacent properties within 0.25-mile of the USAR Center property boundaries are reviewed and visually surveyed. For the purposes of this ECP, the adjacent property reconnaissance was performed from the USAR Center property boundaries and from public access points. Historical aerial photographs and topographic maps are also reviewed for conditions or activities that may have had an environmental impact on the Property.

4.1 Land Uses

Land use south of the USAR Center is municipal right-of-way for Four Mile Drive. The road is a two-lane paved road. Tebbs Farm and a single-family residence area are located on the south side of Four Mile Drive. Tebbs Farm consists of approximately 5 acres of land that contains multiple greenhouses. A fruit and vegetable stand was also observed on the property.

A single-family residence is located adjacent to the west, along Four Mile Drive. The remainder of the adjacent property to the west consists of a wooded/grassed lot.

The property to the north (across Miller's Run Creek) consists of the James E. Short park that contains baseball fields and a public pool.

The property to the east (across Miller's Run Creek) consists of a large commercial building that presently is occupied by Stroehmann Bakeries (operations and maintenance facility) and The Radio Group.

Table 2 summarizes the current adjacent properties and zoning.

TABLE 2
List of Properties Adjacent to Lycoming Memorial USAR Center, Williamsport, Pennsylvania

Name/Type of Property	Address	Distance and Direction from Property	Zoning	Remarks
Tebbs Farm	1620 Four Mile Drive Williamsport, PA 17701	Approx 100 ft south-southwest (across Four Mile Drive)	Commercial Neighborhood	Two Irrigation Wells
Single-Family Residence	Four Mile Drive Williamsport, PA 17701	Approx 100 ft south-southwest (across Four Mile Drive)	Commercial Neighborhood	
Single-Family Residence	Four Mile Drive Williamsport, PA 17701	Adjacent to West	Apartment - Office	
Stroehmann Bakeries/The Radio Group	1685 Four Mile Drive Williamsport, PA 17701	Adjacent to East (across Miller's Run Creek)	Commercial Neighborhood	
James E. Short Park	Northway Road Williamsport, PA 17701	Adjacent to North (across Miller's Run Creek)	Apartment - Office	
Grassed and Wooded Lot	Williamsport, PA 17701	Adjacent to the West	Apartment - Office	

4.2 Findings

The EDR database search results were reviewed for any evidence that adjacent properties may have past or present environmental issues that would impact the USAR Center. None of the adjacent properties were listed in the results.

A search of Federal and State water well databases identified two water supply sources within a 0.5-mile radius of the Property. The two wells are identified as irrigation wells and are used by Tebbs Farm (1620 Four Mile Drive) located across Four Mile Drive to the south. The irrigation wells are located topographically down-gradient of the Property.

Land use at adjacent properties does not appear to have changed significantly over the years, based on a review of available aerial photographs and topographic maps.

Development in the area began prior to 1934, based on the 1934 topographic map. Original development consisted primarily of residential land use and a small greenhouse farm on the property to the south. The 1953 topographic map indicates little change in the adjacent property land use. The 1963 aerial photograph (the earliest available aerial photograph) shows the development of the commercial building on the property to the east (Stroehmann Bakeries). The adjacent property to the north (across Miller's Run Creek) consisted of an undeveloped grassy field. The is 1963 aerial photograph already shows the adjacent

properties to the west, east, and south as developed with their present day structures. Previous land use prior to development on these adjacent properties is unknown.

5 Review of Regulatory Information

An essential component of an ECP is the review of records and databases containing information on the Property and adjacent properties. The review includes reasonably obtainable federal, state, and local government records, and is intended to identify a release or likely release of any hazardous substance or any petroleum product, which is likely to cause or contribute to a release or threatened release of any hazardous substance or any petroleum product to the Property.

The majority of the regulatory information for this ECP was obtained from EDR on July 19, 2006. EDR provides a regulatory database summary that consolidates standard federal, state, local, and tribal environmental record sources based on ASTM recommended minimum search distances from the Property.

All findings reported in Sections 5.1, 5.2, and 5.3 below are from the EDR report unless otherwise noted. A copy of the complete EDR report is included in Appendix E.

5.1 Federal Environmental Records

5.1.1 Federal National Priorities List (NPL) Sites within 1 Mile

United States Environmental Protection Agency (USEPA) maintains a record of the nations' worst uncontrolled or abandoned hazardous waste sites, known as the National Priorities List (NPL). Sites on the NPL undergo long-term remedial action under CERCLA. The Lycoming Memorial USAR Center is not an NPL site, nor were any such sites located within 1 mile of the Property.

5.1.2 Federal Comprehensive Environmental Response, Compensation and Liability Act Information Systems (CERCLIS) Sites within 0.5 Mile

The CERCLA Information System (CERCLIS) contains data on potentially hazardous waste sites that have been reported to the USEPA by state, municipalities, private companies and private persons, pursuant to Section 103 of the Act. CERCLIS contains sites that are either proposed to be or are on the NPL and sites that are in the screening and assessment phase for possible inclusion on the NPL.

The Lycoming Memorial USAR Center is not a CERCLIS site and there are no CERCLIS sites located within 0.5 mile of the center.

5.1.3 Resource Conservation and Recovery Act (RCRA) Corrective Action (CORRACTS) Sites within 1 Mile

RCRA corrective action (CORRACTS) sites represent facilities that have generated or managed hazardous wastes and require corrective action. The Lycoming Memorial USAR Center is not a CORRACTS site, nor were any such sites identified within 1 mile of the USAR Center.

5.1.4 RCRA Treatment, Storage, and/or Disposal Sites within 0.5 Mile

RCRA defines and regulates sites that generate, transport, treat, store, and/or dispose (TSD) of hazardous wastes. The RCRA Information System (RCRIS) includes selective information on these sites.

The USAR Center is not a RCRIS-TSD site and there are no such sites located with 0.5-mile of the USAR Center.

5.1.5 Federal RCRA Small and Large Quantity Generators List within 0.25 Mile

Conditionally exempt small quantity generators are defined as facilities generating less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. RCRA small quantity generators are defined as facilities generating between 100 kg and 1,000 kg of hazardous waste per month. A facility generating more than 1,000 kg of hazardous waste or over 1 kg of acutely hazardous waste per month is defined as a large quantity generator.

The Lycoming Memorial USAR Center is listed as a RCRA-registered small quantity generator. No RCRA violations are associated with the USAR Center.

No large or small quantity generators are located within 0.25-mile of the Center.

5.1.6 Federal Emergency Response Notification System (ERNS) List

The ERNS List maintains information on reported releases of oil and hazardous substances. The Lycoming Memorial Center is not on this notification list.

5.2 State and Local Environmental Records

Most of the information presented in this subsection was obtained from the EDR report. Additional information was also obtained from online database searches of the Pennsylvania Department of Environmental Protection's (PADEP's) website. Occasionally state and local agency personnel were interviewed via telephone to answer questions about any database issues.

5.2.1 State Lists of Hazardous Waste Sites within 1 Mile

The USAR Center is not on the state list of hazardous waste sites.

No adjacent properties within 1 mile of the Lycoming Memorial USAR Center were listed as having a hazardous waste site.

5.2.2 State-Registered Landfills or Solid Waste Disposal Sites within 0.5 Mile

The Lycoming Memorial USAR Center does not have a solid waste landfill, incinerator, or transfer station within the Property boundaries.

No adjacent properties within 0.5-mile of the Property have a solid waste landfill, incinerator, or transfer station.

5.2.3 State-Registered Leaking UST (LUST) Sites within 0.5 Mile

In addition to information obtained from the EDR report, the PADEP Division of Underground Storage Tanks maintains a comprehensive database of LUST sites. The USAR Center is not listed in the State LUST database.

One LUST site, identified as the Bus Garage, is located within 0.5-mile of the Property. Table 2 summarizes the site information relative to the USAR Center, and provides the status of the corrective action. The Bus Garage at 1801 Loyalsock Drive is located approximately 1,700 feet east/southeast of the Property. According to information on file with the PADEP, releases were reported for the Bus Garage site in 1995 and 2004. The 1995 release date has received a "Cleanup Completed" status indicating that the removal of contaminants to applicable cleanup standards has been demonstrated to PADEP. The 2004 release has received an "Interim or Remedial Actions Initiated" status indicating that a confirmed release has been identified and site characterization and/or physical activity to remove contaminants is underway (EDR, 2006; PADEP, 2006).

The Bus Garage site is topographically upgradient of the Property; however, based on the general groundwater flow direction (south), and the distance of the LUST site from the Property, there is a low potential that offsite migration from this site would have impacted the Property.

TABLE 2
Leaking Underground Storage Tank Sites
Near Lycoming Memorial USAR Center, Williamsport, Pennsylvania

Company/Site	Address	Distance and Direction from Property	Regulatory Status	Elevation Relative to Property
Bus Garage	1801 Loyalsock Drive Williamsport, PA 17701	Approx 1,700 ft east-southeast	1995 Release - Cleanup Completed 2004 Release – Cleanup Initiated	Higher

5.2.4 State-Registered UST Sites within 0.25 Mile

The Lycoming Memorial USAR Center is not listed in the State UST database and no sites were listed within 0.25-mile of the Center.

5.2.5 State Spills Incidents

The Lycoming Memorial USAR Center is not listed on the PADEP state petroleum spill list.

5.2.6 Records of Contaminated Public Wells within 0.5 Mile

The WMWA does not own or operate any municipal water supply wells within 0.5-mile of the USAR Center. The WMWA presently filters and treats the surface water supplies for the Greater Williamsport Area (WMWA, 2006). The WMWA well field is located at the

convergence of Lycoming Creek and the Susquehanna River in Williamsport, approximately 3 miles west/southwest of the Property. However, the nine wells in this well field are used infrequently as a supplemental water supply during the dry periods of the year. The well field was not used in 1985 or 1986 pending results of the on-going groundwater study associated with the AVCO Lycoming site, a NPL site. The wells are presently remediated with air strippers (Pennsylvania Department of Health, 1993).

A search of Federal and State water well databases identified two irrigation wells located on the Tebbs Farm property, located across Four Mile Drive to the south of the Property.

5.2.7 Voluntary Remediation Program Sites within 0.5 Mile

The Lycoming Memorial USAR Center is not listed in PADEP's Brownfield's Program (the successor to the Voluntary Cleanup Program). No sites located within 0.5-mile of the Center are listed as being in the Brownfield's Program either.

5.2.8 State Registered Bulk Fertilizer and Pesticide Storage Facilities within 0.25 Mile

According to the EDR database and a search of the PADEP's website, Pennsylvania does not maintain a state database with registered bulk fertilizer and pesticide storage facilities.

5.3 Unmapped Sites

Some sites within the databases EDR searches have the same zip code as the USAR Center, but no street address. These sites, known as unmapped or orphan sites, can not be mapped from the EDR results alone. Additional efforts described herein were made to locate these sites and assess their environmental importance to the USAR Center.

Using the mapping utility provided at maps.google.com, the locations of the orphan sites were identified and mapped. However, none of the sites were located within corresponding ASTM search radius distance.

5.4 Summary of Properties Evaluated to Determine Risk to the Property

To summarize Subsections 5.1 through 5.3, no properties near or adjacent to the USAR Center were evaluated as potential risk properties to the Property since no adjacent properties were identified that could have potential impact as a result of information obtained during area reconnaissance, interviews, and regulatory database searches.

6 Site Investigation and Review of Hazards

Findings documented in the following subsections are based on the August 8, 2006 site reconnaissance, a review of available site records, and information obtained from U.S. Army Reserve personnel.

6.1 USTs/ASTs

A 1998 facility assessment indicates that one 10,000-gallon fuel oil UST was removed from the Property in approximately 1988. The former UST was located in the MEP area north of the boiler room in the administration building. Based on interviews with site personnel in 1998, petroleum contamination was encountered during the removal of the UST and contaminated soils were excavated and transported off-site. At the time of the 1998 facility assessment, no UST closure/site assessment report was available for review to document site conditions (soil/groundwater). It was recommended a records search be performed to determine if the UST was properly removed and verify whether or not contamination is present beneath the Property. It was also recommended that if no closure documentation was identified for review, then a limited subsurface investigation be performed to document the UST removal (U.S. Army, 1998).

Site drawings for the Property indicate that the fuel oil UST had a 12,000-gallon capacity (U.S. Army, unknown date).

No UST closure documentation or record of a limited subsurface investigation was available for review at the time of this report.

As shown on Photograph 3, Appendix B, the cut and patched asphalt area identifying the former location of the UST was visible during the August 2006 site reconnaissance.

6.2 Inventory of Chemicals/Hazardous Substances

Records pertaining to chemicals, including hazardous materials, chemical bulk storage, petroleum products, hazardous waste, and petroleum waste were reviewed in addition to interviews and the site reconnaissance to develop the inventory for this Property. Available records indicate that hazardous materials and/or POLs have been stored at this facility.

Materials previously stored at the facility were identified mainly as POLs and automotive maintenance-related fluids stored inside and outside of the OMS building. POLs containers (less than or equal to 50 gallons) were stored in metal POL storage bins located at the northwest corner of the MEP area. Another area where POLs would have been stored is the POL storage room located at the southwest corner of the OMS building. Various automotive chemicals, cleaners, and paints were stored in flammable storage lockers inside the OMS building (EA, 1995).

At the time of the site reconnaissance, three flammable storage cabinets were observed in the OMS building. One of the flammable storage cabinets was empty and the other two flammable storage cabinets were locked and inaccessible. The POL storage room located in the southwest corner of the OMS building was also locked and could not be opened. Therefore, it is unclear what products are located within these designated storage areas; however, according to site personnel, no POLs or antifreeze are presently stored on the Property. POLs or antifreeze that are needed to "top off" military vehicles are purchased at the store.

Other than the assumed routine household and yard use of pesticides and herbicides, no evidence of pesticide/herbicide use (empty containers, dead or stressed vegetation) was observed during the site reconnaissance.

6.3 Waste Disposal Sites

A review of site drawings (1978/1979) during a Total Facility Assessment performed in 1998 indicated that the vehicle wash area, installed in the 1960s, drained either directly into the adjacent creek or into a 500-gallon capacity septic tank along the creek. The assessment indicates that the vehicle wash area drain was connected to an OWS (which was connected to the sanitary sewer) in approximately 1979 (U.S. Army, 1998). No file information (i.e. documentation for the closure of the septic tank) or evidence during the site reconnaissance was gathered during this investigation that would confirm the presence or absence of a septic tank system on the Property.

Available records and interviews did not indicate other practices of onsite waste disposal other than through managed storage and offsite disposal, or through the sewer system (refer to Section 2.4). No other waste disposal sites were observed during the site reconnaissance, nor were any signs of past onsite waste disposal (such as stressed vegetation or suspicious depressions in the landscape) observed.

6.4 Pits, Sumps, Drywells, and Catch Basins

An OWS is located on the Property in the central portion of the MEP area. The OWS receives water from the adjacent vehicle wash area that contains one floor drain (with sand trap) in the center of the concrete pad. According to an OWS survey performed by Horne Engineering Services in 2001, the OWS was installed in the 1960s and discharges to the sanitary sewer. It was recommended that the OWS be closed since the vehicle wash area is not in use (Horne Engineering Services, 2001). Observations during the August 2006 site reconnaissance did not indicate that either the vehicle wash area or OWS were closed. Vegetation was observed in the floor drain during the August 2006 site reconnaissance, indicating that the vehicle wash area is not regularly used or maintained.

A review of site drawings (1978/1979) during a Total Facility Assessment performed in 1998 indicated that the vehicle wash area drained either directly into the adjacent creek or into a 500-gallon capacity septic tank along the creek. The assessment indicates that the vehicle wash area drain was connected to the OWS in approximately 1979 (U.S. Army, 1998).

In addition, according to the 1997 internal environmental compliance assessment for the USAR Center, the facility did not use detergents or solvents when cleaning vehicles at the vehicle wash area, per policy (U.S. Army, 1997). However, the effective date of this policy is unknown.

One vehicle maintenance pit was formerly located in the vehicle bay portion of the OMS building. During the August 2006 site reconnaissance, the maintenance pit was observed as closed and filled with concrete. There was no documentation on the closure and taking the pit out of service (filling with concrete), which may have indicated the environmental condition of the pit upon closure. The OMS maintenance pit often would have collected fluids during maintenance activities, which more than likely would have consisted of POLs and cleaning solvents. Over extended periods of time, cracks in the pit floor or wall could result in a release of these fluids. Although there was no closure documentation for the maintenance pit, any releases that might have occurred would be de minimis quantities based on process knowledge.

6.5 Asbestos-containing Material

On December 2, 1987, Biospherics Incorporated performed an asbestos survey at the Lycoming Memorial USAR Center. ACM was identified in the following materials: white/gray fibrous insulation on boilers, exhaust duct and converters; vinyl floor tile; white/gray fibrous pipe elbow lagging; plaster ceiling; and flexible duct joints (Biospherics Incorporated, 1987). Based on a 1994 Environmental Compliance Assessment System investigation, the 1987 asbestos survey was not performed by AHERA-certified personnel (SAIC, 1995). No additional information concerning the performance or presence of a supplementary asbestos survey was available.

Asbestos thermal system insulation (TSI) was reportedly removed from the facility during a heating system upgrade in approximately 1988 (U.S. Army, 1998).

In 1994 the roofs for the administration and OMS buildings were replaced by David M. Maines Associates (U.S. Army, 1994).

The facility also does not maintain an asbestos management plan (U.S. Army, 1997).

During a 1997 internal environmental compliance assessment for the facility, asbestos floor tile outside of Room 201 was noted to be in poor condition. The damage to the floor appeared to be the result of building settlement around the entrance area (U.S. Army, 1997).

None of the ACM observed in the buildings during the August 2006 site reconnaissance appeared to be damaged.

6.6 PCB-containing Equipment

Three pole-mounted transformers located on a single pole are located within the right-of-way of Four Mile Drive, near the southwest corner of the Property. These units are owned by PP&L. No labels indicating the presence or absence of PCBs were visible on the

transformer. During the August 2006 site reconnaissance, the units appeared to be in good condition and no evidence of leakage was observed.

Based on review of a Hazardous Waste Management Consultation provided by the 79th Army Reserve Command dated April 2-5, 1995, the pole-mounted transformers located on the site are noted as being utility owned (U.S. Army, 1995).

Based on a January 27, 1994 letter from PP&L, the three transformers have an in-service date of October 1969. The PCB content of these transformers was unknown (PP&L, 1994). According to a July 15, 1997 transformer screening report, the PP&L transformers contain non-PCB oil (U.S. Army, 1997).

No documentation of capacitors or other PCB articles (such as light ballasts) was available at the site. According to a 1997 internal compliance assessment, the USAR Center was to perform a self-help project to replace fluorescent light fixtures (U.S. Army, 1997)

No additional information concerning the PCB content of capacitors and light ballasts was available at the time of this report.

6.7 Lead-based Paint (LBP)

According to site personnel, a LBP survey was completed in 2006 for the USAR Center; however, at the time of this report, the results were not available for review.

All buildings on the Property were constructed before 1978 and are presumed to contain lead based paint. At the time of the site reconnaissance, the painted surfaces at this facility were in good condition.

6.8 Radon

Based on site-specific radon sampling results, the administration building contained radon levels above 4 pCi/L. Radon sampling results in the OMS building were 2.1 pCi/L. Radon sampling results in the administration building ranged from 2.1 pCi/L to 14 pCi/L. A soil depressurization radon reduction mitigation system was installed in the administrative building by Penn-Rad in 1992 (U.S. Army, 1991b). Post-mitigation testing performed at Lycoming Memorial USAR Center indicated that the radon levels were below 4 pCi/L based on a 1994 assessment report (U.S. Army, 1994b).

In addition, the USEPA Map of Radon Zones for Lycoming County, Pennsylvania confirms that the county lies within the high priority zone, Zone 1, which has a predicted average indoor screening level greater than 4 pCi/L, USEPA's residential action level.

The EDR report provides radon test results for the 17701 zip code area. The results concluded that 62.89 percent of 705 sites tested had a radon activity level of less than 4 pCi/L, with a maximum result of 305 pCi/L.

6.9 Munitions and Explosives of Concern (MEC)

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, there are no indications that MEC are or were present at the Property.

Based on historical documentation and site personnel, an indoor firing range was located on the main floor in the administration building. The indoor firing range is presently used as a classroom (Room 114) (Photograph 5, Appendix B). Site personnel reported that lead abatement was performed prior to renovation; however, no records were available for review (U.S. Army, 1998).

6.10 Radioactive Materials

Based on a review of available records, the site reconnaissance, and interviews with USAR Center personnel, testing and calibration equipment containing radioactive materials were occasionally stored on the Property in the administrative storage room on the first floor. A radiological survey for the property was not available for review. There is no evidence of a release of radiological materials at this Property.

7 Review of Special Resources

7.1 Land Use

The Loyalsock Township Planning and Zoning Department has designated the northwestern grassed portion of this Property and surrounding properties to the west and north as Apartment-Office. The remainder of the Property and surrounding properties to the east and south are zoned as Commercial Neighborhood.

7.2 Coastal Zone Management

The Pennsylvania Department of Environmental Protection, Division of Water is the lead agency for the Pennsylvania Coastal Management Program. This Property is not included in the coastal zone management plan, nor is it in a coastal zone.

7.3 Wetlands

According to the 1988 U.S. Fish and Wildlife Service National Wetlands maps and visual observations, no wetlands were observed on the Property, or on adjacent properties (EDR 2006, Appendix E).

According to information acquired from the STATSGO for Lycoming County, specific types of soil at the Property are from the Berks Series. The Berks soils are well drained soils and do not meet the requirements of a hydric soil (i.e., wetland indicator soils).

7.4 100-year Flood Plain

A review of the FEMA digital Flood Hazard Area map, Community Panel 42081C0358E, the northeastern half of the Property is located in the 100-year floodplain EDR 2006, Appendix E). The majority of the POV area is located within the Zone A flood plain where base flood elevations have not been determined. None of the buildings on the Property are located within the flood plain.

7.5 Natural Resources

In 1995, a report entitled *An Inventory of Significant Biological Resources at U.S. Army Reserve Centers in Central and Eastern Pennsylvania* was prepared for the 99th RRC in an effort to inventory and manage natural resources found at 99th RRC facilities in Pennsylvania (PSOTNC, 1995). A site visit was performed at the Lycoming Memorial USAR Center on June 9, 1994. The report noted that this Property did not contain any species of concern, natural communities, or wetlands. A very narrow zone of woodland was noted along Miller's Run Creek on the eastern perimeter of the Property. Although this woodland was

noted in the report to be small and of low quality, a healthy specimen of butternut (Juglans cinerea) was found along the creek. It was indicated that this species, due to a fungus, was declining throughout much of its range and is monitored by the natural heritage programs in several states. Although not currently tracked by PNDI, the species may become a candidate for listing in Pennsylvania in the future. It was recommended that this tree and its stream bank habitat be protected from future development and site modification (PSOTNC, 1995).

7.6 Cultural Resources

A Cultural Resources Management Plan was prepared for the 79th Army Reserve Command by the KFS Historic Preservation Group in 1995. The purpose of the survey was to identify and evaluate historic architectural resources and archeological site potential for all properties controlled or leased by the 79th Army Reserve Command in the State of Pennsylvania. No archaeological sites have been reported for the vicinity of the Property. The proximity of Miller's Run Creek, which forms the northern and eastern boundary of the Property, suggests that evidence of prehistoric occupation may be found within the ground of the facility. The facility is considered to have low archeological potential (KFS Historic Preservation Group, 1995).

7.7 Other Special Resources

Two designated Wild and Scenic Rivers (WSRs) occur within the state of Pennsylvania. The Clarion River and the Allegheny River are located approximately 60 miles west and 90 miles northwest, respectively, from the Property. Based on the location of the WSRs and historical activities conducted at the USAR Center, no activities conducted on the Property would adversely impact any of the designated WSRs.

8 Conclusions

The following information was obtained after conducting an environmental record search including records for adjacent properties, reviewing available historical information, conducting interviews with knowledgeable parties connected with the Property or with state and local agencies, and conducting a reconnaissance of the Property and adjacent properties.

8.1 Review of Findings

Hazardous Substances. Hazardous substances pursuant to CERCLA 101(14) (42 USC 9601(14)) were used and stored at the Property in amounts necessary to support unit-level vehicle and building maintenance activities. Available records or interviews did not indicate other practices of storage for one year or more, or disposal and releases of hazardous substances above reportable quantities.

Site drawings (1978/1979) indicated that the vehicle wash area (prior to being connected to an OWS in 1979) drained either directly into the adjacent creek or into a 500-gallon capacity septic tank along the creek (U.S. Army, 1998). No file information (i.e. documentation for the closure of the septic tank) or evidence during the site reconnaissance was gathered during this investigation that would confirm the presence or absence of a septic tank system on the Property. A 1997 internal environmental compliance assessment indicated that the facility did not use detergents or solvents when cleaning vehicles at the vehicle wash area, per policy. The effective date of this policy is unknown. No evidence of a release to the property as a result of vehicle wash area was identified during this investigation. Based on process knowledge fluids generated at the wash rack area would have been diluted with water from spray hoses, thus only de minimis quantities would be suspected to have the potential to be released.

USTs/ASTs. One 10,000-gallon fuel oil UST was removed from the Property in approximately 1988. The former UST was located in the MEP area north of the boiler room in the administration building. Based on interviews with site personnel in 1998, petroleum contamination was encountered during the removal of the UST and contaminated soils were excavated and transported off-site (U.S. Army, 1998). No records indicate that a UST closure/site assessment report, documenting site conditions (soil/groundwater), was prepared for the UST. Site drawings for the Property indicate that the fuel oil UST had a 12,000-gallon capacity (U.S. Army, unknown date).

Non-UST/AST Petroleum Storage. Petroleum storage in excess of 55 gallons, other than the previous use of one UST, was not observed on the Property.

POL containers (less than or equal to 50 gallons) were stored in metal POL storage bins located in the northwest corner of the MEP area (EA, 1995). This area was identified as a drum storage area during a 1997 internal compliance assessment (U.S. Army, 1997). Reasonably available information did not include evidence of a POL release in the drum

storage area and no visible evidence of a release in this area was noted during the site reconnaissance.

PCBs. Three pole-mounted transformers located on a single pole are located within the right-of-way of Four Mile Drive, near the southwest corner of the Property. These units are owned by PP&L and have an in-service date of October 1969 (U.S. Army 1995b; PP&L, 1994). During the August 2006 site reconnaissance, the units appeared to be in good condition and no evidence of leakage was observed. No labels indicating the presence or absence of PCBs were visible on the transformer. No transformers were observed on the Property.

No surveys of PCB-containing equipment have been performed for the Property. Some existing capacitors and light ballasts may potentially contain PCBs.

ACM. In 1987, an asbestos survey was performed at the Lycoming Memorial USAR Center. ACM was identified in the following materials: white/gray fibrous insulation on boilers, exhaust duct and converters; vinyl floor tile; white/gray fibrous pipe elbow lagging; plaster ceiling; and flexible duct joints (Biospherics Incorporated, 1987). According to a 1994 compliance assessment, the 1987 asbestos survey was not performed by AHERA-certified personnel (SAIC, 1995).

Asbestos TSI was reportedly removed from the facility during a heating system upgrade in approximately 1988 (U.S. Army, 1998).

During a 1997 internal environmental compliance assessment for the facility, asbestos floor tile outside of Room 201 was noted to be in poor condition. The damage to the floor appeared to be the result of building settlement around the entrance area (U.S. Army, 1997).

No additional information concerning the performance or presence of a supplementary asbestos survey was available. The facility also does not maintain an asbestos management plan (U.S. Army, 1997).

LBP. According to site personnel, a LBP survey was completed in 2006 for the USAR Center; however, at the time of this report, the results were not available for review.

All buildings on the Property were constructed before 1978 and are presumed to contain LBP. At the time of the site reconnaissance, painted surfaces were in good condition with no chipped or peeling paint.

Radiological Materials. Based on available records review, interviews and a site reconnaissance, radioactive materials are present in equipment sometimes stored on the Property, including testing and calibration equipment. There is no evidence of a release of radiological materials at this Property.

Radon. Based on site-specific radon sampling results, a radon reduction mitigation system was installed in the administrative building in 1992. Post-mitigation testing performed at Lycoming Memorial USAR Center indicated that the radon levels were below 4 pCi/L (U.S. Army, 1991b; U.S. Army, 1994).

Munitions and Explosives of Concern. Available records do not indicate any MEC are currently or were formerly located at this Property. No evidence of MEC was observed during the site reconnaissance.

According to as-built drawings, an indoor firing range was located on the main floor in the administration building and is presently used as a classroom. Site personnel reported that lead abatement was performed prior to renovation (U.S. Army, 1998). A copy of the firing range closure report, if performed, was not available for review.

Surrounding Properties. Potential environmental sites of concern, located within the ASTM D6008 recommended minimum search distances (included in Section 5) from the Property, were evaluated through database review and site reconnaissance. None of the adjacent properties evaluated exhibited environmental conditions that had or have the potential to adversely affect environmental conditions at the Property.

Wetlands and Flood Plain. According to the 1988 U.S. Fish and Wildlife Service National Wetlands maps and visual observations, no wetlands were observed or appear to be associated with any of the facilities at this site, or with any adjacent properties.

The northeastern half of the Property, which includes the majority of the POV area, is located within a 100-year flood plain. None of the buildings on the Property are located within the flood plain.

The Property is not located within a coastal zone.

Threatened and Endangered Species. A 1995 report noted that this Property did not contain any species of concern, natural communities, or wetlands. A very narrow zone of woodland along Miller's Run Creek was noted to contain a healthy specimen of butternut. Although not currently tracked by PNDI, it was indicated that the species may become a candidate for listing in Pennsylvania in the future. It was recommended that this tree and its stream bank habitat be protected from future development and site modification (PSOTNC, 1995).

Archaeological and Historical Resources. A 1995 Cultural Resources Management Plan indicated that no archaeological sites were reported for the vicinity of the Property. The proximity of Miller's Run Creek, which forms the northern and eastern boundary of the Property, suggests that evidence of prehistoric occupation may be found within the ground of the facility; however, the facility is considered to have low archeological potential (KFS Historic Preservation Group, 1995).

Environmental Condition of Property

Findings of this ECP report were based on readily available environmental information, interviews with site and state and local personnel, review of previous environmental studies and federal and state database and file information related to the storage, release, treatment or disposal of hazardous substances or petroleum products. Results were also based on visual observations of the Property and adjacent properties.

In accordance with the Deputy Under Secretary of Defense Memorandum, *Clarification of "Uncontaminated" Environmental Condition of Property at Base Realignment and Closure (BRAC)*

Installations, dated October 21, 1996, the Property has been classified into one of seven property types. Based on the results of this ECP study, the property has been assigned an overall DoD Environmental Condition Type 2.

The property type is based on the following major finding:

- According to interviews with site personnel in 1998, impacted soil was identified during removal of the 10,000-gallon fuel oil UST in 1988. No documentation regarding the closure of this UST was identified at the time of this report.

9 References

Persons Contacted

- Mr. Jason Clutter, U.S. Army Reserve, GS Environmental Protection Specialist, (570) 417-9556, August 8, 2006.
- Mr. Ed Wolf, U.S. Army Reserve, Facility Operations Specialist, (814) 386-5864, August 8, 2006.
- Mr. Ray Spriggs, U.S. Army Reserve, GS Environmental Protection Specialist, (570) 417-7815, August 9, 2006.
- Mr. Steve Hafer, Lycoming Memorial USAR Center, Facility Coordinator, (570) 322-4696 Ext. 202, August 8, 2006.
- Mr. Stephen J. Holmes, Loyalsock Township, Zoning and Codes Officer, (570) 323-6151, September 13, 2006.

Resources Consulted

- Aerial Photographs provided by Banks Information Solutions, Inc. dated 1963, 1973, and 1999.
- Aerial Photograph obtained from Terra Server dated 1999, http://www.terraserver.microsoft.com
- National Wild and Scenic Rivers, http://www.nps.gov/rivers/wildriverslist.html#pa
- USEPA Map of Radon Zones, http://www.epa.gov/radon/zonemap.html
- U.S. Fish and Wildlife mapping tool, http://wetlandsfws.er.usgs.gov/wtlnds/launch.html
- Pennsylvania Coastal Zone Management, http://www.dep.state.pa.us/river/czmp.htm
- FEMA Flood Hazard Insurance Map, http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView
- Federal Regulatory Databases (See EDR Report for a complete list)
  - National Priorities List (NPL), April 19, 2006
  - Proposed NPL Sites, April 19, 2006
  - Delisted NPL Sites, April 19, 200
  - NPL Recovery Sites, October 15, 1991
  - CERCLIS, February 1, 2006
  - CERCLIS-NFRAP, February 1, 2006
  - CORRACTS, March 15, 2006
  - RCRA, March 9, 2006

- ERNS, December 31, 2005
- HMIRS, December 31, 2005
- U.S. Engineering Controls Sites List, March 21, 2006
- U.S. Institutional Controls, March 21, 2006
- DOD, December 31, 2004
- FUDS, December 5, 2005
- U.S. Brownsfields, April 26, 2006
- CONSENT (Superfund Consent Decrees), December 14, 2004
- Records of Decision (ROD), April 13, 2006
- Uranium Mill tailings Sites, November 4, 2005
- Open Dump Inventory, June 30, 1985
- Toxic Chemical Release Inventory System (TRIS), December 31, 2003
- Toxic Substances Control Act (TSCA), December 31, 2002
- Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)/ TSCA, March 29, 2006
- FIFRA/TSCA Tracking System, March 31, 2006
- Section 7 Tracking Systems, December 31, 2004
- Integrated Compliance Information system, February 13, 2006
- PCB Activity Database System, December 27, 2005
- Material Licensing Tracking system, April 12, 2006
- Mines Master Index File, February 9, 2006
- Facility Index System/Facility Registry system (FINDS), April 27, 2006
- RCRA Administrative Action Tracking System, April 17, 1995
- Biennial Reporting System, December 31, 2003

- State and Local Regulatory Databases (See EDR Report for complete list)

  - Hazardous Sites Cleanup Act Site List, February 1, 2006
  - HSCA Remedial Sites Listing, May 5, 2004
  - Solid Waste Facilities/ Landfills, March 15, 2006
  - Abandoned Landfills, January 4, 2005
  - Historical Landfills Inactive, December 20, 1994
  - Historical Landfills Inventory, June 2, 1999
  - LUST, March 9, 2006
  - Unregulated Leaking Tanks, June 2, 2002
  - UST, June 1, 2006
  - Archived UST, June 1, 2006
  - Leaking AST, March 9, 2006
  - AST, June 1, 2006
  - Archived AST, June 1, 2006
  - Manifest, June 12, 2006
  - Act 2-Deed, June 20, 2006
  - Engineering Controls, March 8, 2006
  - Institutional Controls, March 8, 2006
  - VCP, June 20, 2006
  - Drycleaners, May 1, 2006

- Pennsylvania Brownfields, June 20, 2006
- Permit and Emissions Inventory Database, December 31, 2004

Agencies Contacted

- City of Williamsport, Pennsylvania
- Loyalsock Township Zoning Department
- Pennsylvania Department of Environmental Protection

Works Cited

Biospherics Incorporated, 1987. Asbestos Survey, Lycoming Memorial USAR Center, Williamsport, Pennsylvania.

EA Engineering, Science and Technology (EA), 1995. Installation Spill Prevention, Control, and Countermeasures Plan (ISPCCP), 79th ARCOM, Lycoming Memorial USARC, Williamsport, PA. August.

Goodman, Sheri, 1996. Deputy Under Secretary of Defense Memorandum: Clarification of "Uncontaminated" Environmental Condition of Property at Base Realignment and Closure (BRAC) Installations. October 21.

Horne Engineering Services, 2001. Oil/Water Separator Survey Report for 99th RSC Customer Support Team #1. January 24.

KFS Historic Preservation Group, 1995. Cultural Resource Management Plan, 79th Army Reserve Command. July.

PADEP (Pennsylvania Department of Environmental Protection), 2006. PADEP Storage Tank Cleanup Locations website. September 11. Available at: http://www.depweb.state.pa.us/landrecwaste/cwp/view.asp?A=1241&Q=461926

Pennsylvania Department of Health, 1993. Public Health Assessment, AVCO Lycoming-Williamsport Division, Williamsport, Lycoming County, Pennsylvania. September 29.

PP&L (Pennsylvania Power & Light), 1994. USAR Centers (Lewisburg, Bloomsburg, Williamsport) Transformer Inquiry.

PSOTNC (Pennsylvania Science Office of the Nature Conservancy), 1995. An Inventory of Significant Biological Resources At U.S. Army Reserve Centers in Central and Eastern Pennsylvania.

Science Applications International Corporation (SAIC), 1995. Final Environmental Compliance Assessment Report, Lycoming Memorial U.S. Army Reserve Center, Williamsport, Pennsylvania. January.

U.S. Army, 1959. U.S. Army Reserve Training Center Two Unit, Williamsport, PA, Second Floor Plan, Drawing Number AS-BLT 29-06-32 (Sheet 3). May 28.

U.S. Army, 1973. Utilization of installation and Facilities Report, Lycoming Memorial USAR Center, 1605 Four Mile Drive, Williamsport, Pennsylvania, 17701. March 7.

U.S. Army, 1977. Proposed Land Acquisition – Lycoming Memorial USAR Center, Williamsport, PA. November 14.

U.S. Army, 1991a. Specifications for Realigning Stream at Lycoming Memorial USARC, 1605 Four Mile Drive, Williamsport, Pennsylvania 17701-1989. May.

U.S. Army, 1991b. Memorandum for Commander, Lycoming Memorial U.S. Army Reserve Center: Center Radon Mitigation Service. November 21.

U.S. Army, 1994a. Memorandum: USARC/OMS Roof Replacement. June 17.

U.S. Army, 1994b. Memorandum: Radon Testing Results. February 28.

U.S. Army, 1995. Hazardous Waste Management Consultation provided by the 79th Army Reserve Command. April 2-6.

U.S. Army, 1997. Internal Environmental Compliance Assessment – Army Reserves, Lycoming Memorial USAR Center, 1605 Four Mile Drive, Williamsport, Pennsylvania 17701-1989. Performed by 99th Regional Support Command, Customer Support Team #1 (Willow Grove). July 11.

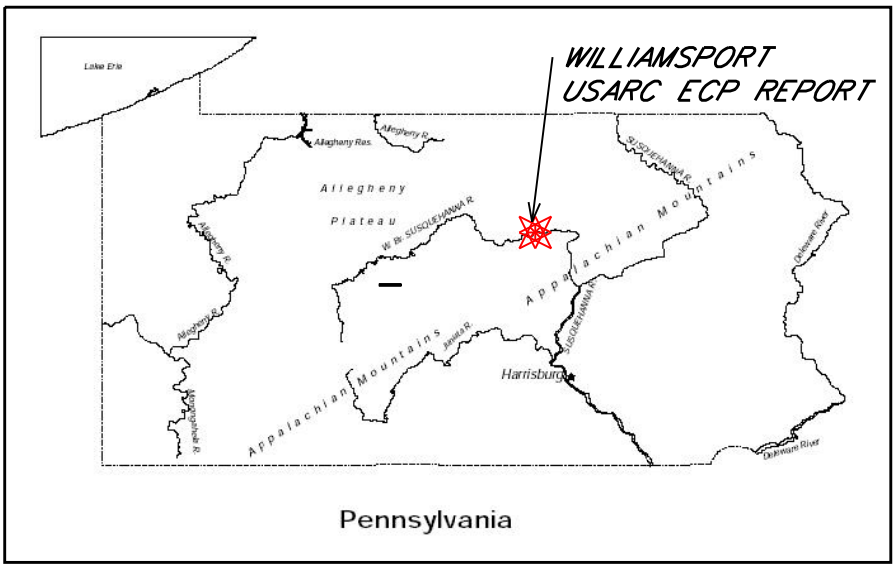
U.S. Army, 1998. Total Facility Assessment Report, Lycoming Memorial USAR Center, Williamsport, Pennsylvania. April.

U.S. Army, unknown date. Site drawings for the Lycoming Memorial USAR Center, Williamsport, Pennsylvania.

USEPA, 1991. EPA Superfund Record of Decision: AVCO Lycoming (Williamsport Division), EPA ID: PAD003053709, OU1, Williamsport, PA. June 28. Available at: http://www.epa.gov/superfund/sites/rods/fulltext/r0391112.pdf

Williamsport Municipal Water Authority (WMWA), 2006. Williamsport Municipal Water Authority website. Available at: http://www.wmwa-wsa.org/waterauthority.htm

Appendix A
Figures



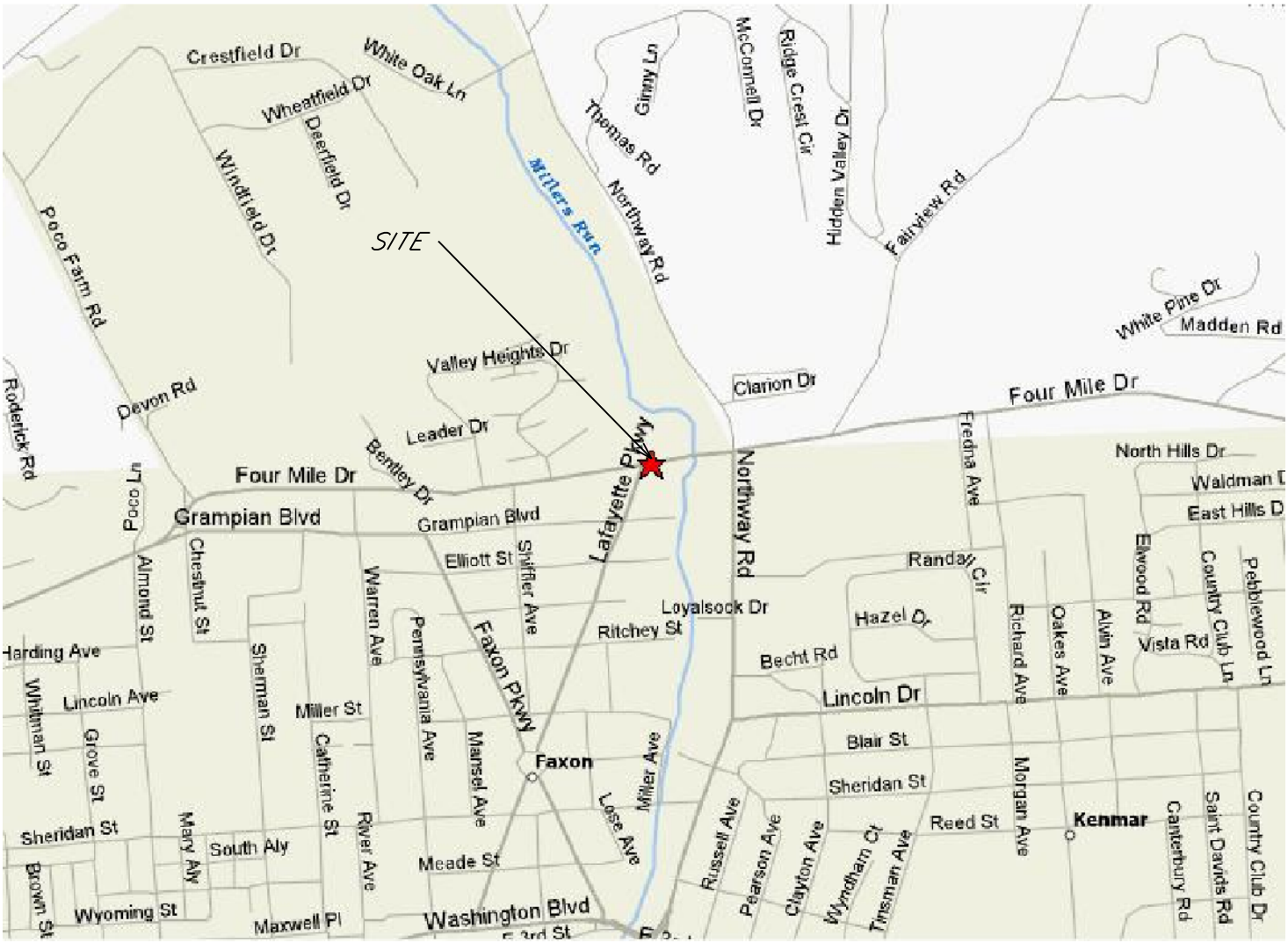


FIGURE 1
GENERAL SITE LAYOUT MAP
Williamsport USAR Center ECP Report
Williamsport, Pennsylvania

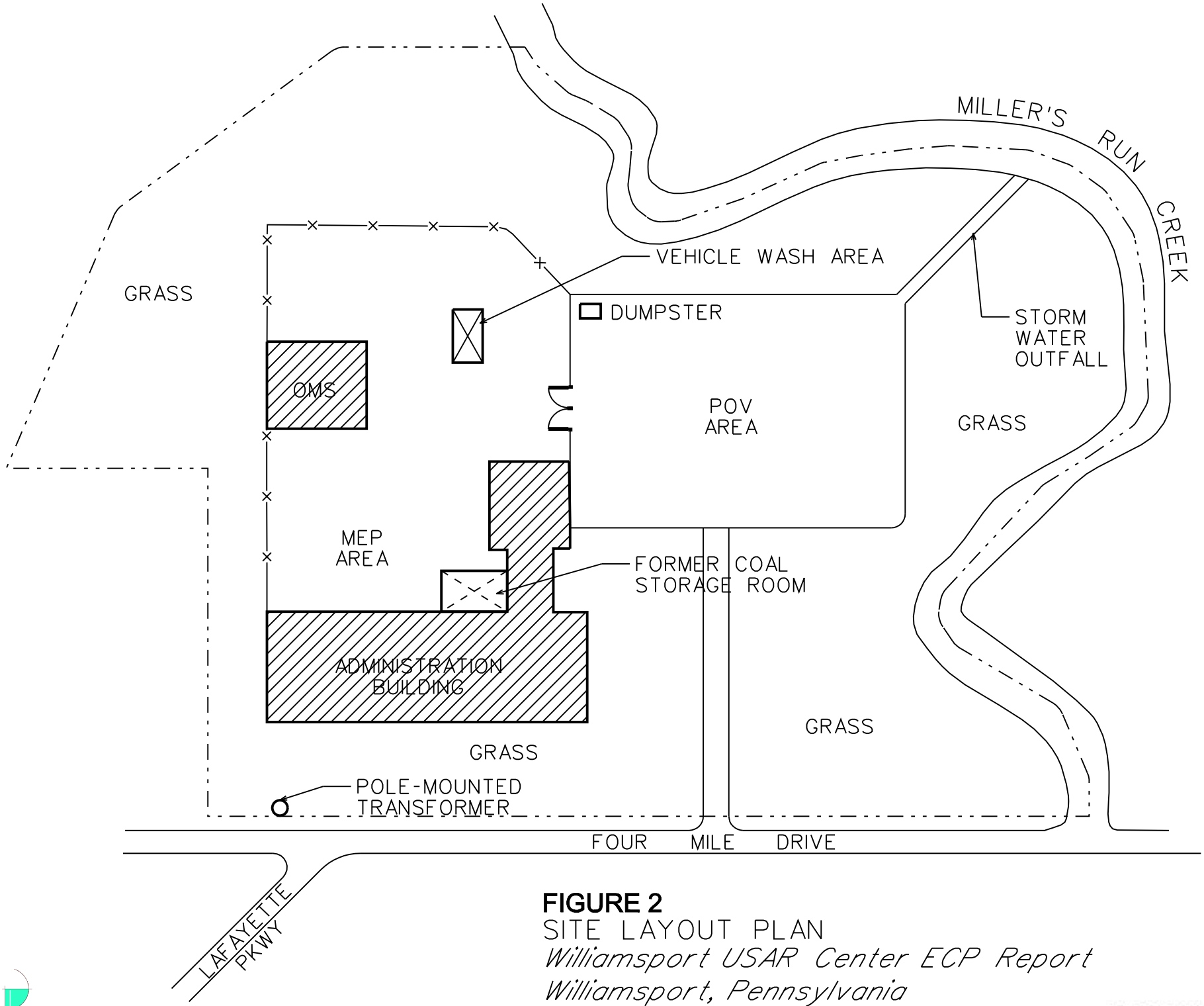


FIGURE 2
SITE LAYOUT PLAN
Williamsport USAR Center ECP Report
Williamsport, Pennsylvania

PLEXUS scientific

CH2MHILL

N

= 1000'

Source: EDR

FIGURE 3
1999 USGS 7.5 Minute Topographic Map, Montoursville North, Pennsylvania
Lycoming Memorial USAR Center ECP Report
Williamsport, Pennsylvania

PLEXUS scientific

CH2MHILL

FIGURE 4
1934 USGS 7.5 Minute Topographic Map, Montoursville North, Pennsylvania
Lycoming Memorial USAR Center ECP Report
Williamsport, Pennsylvania

PLEXUS scientific

CH2MHILL

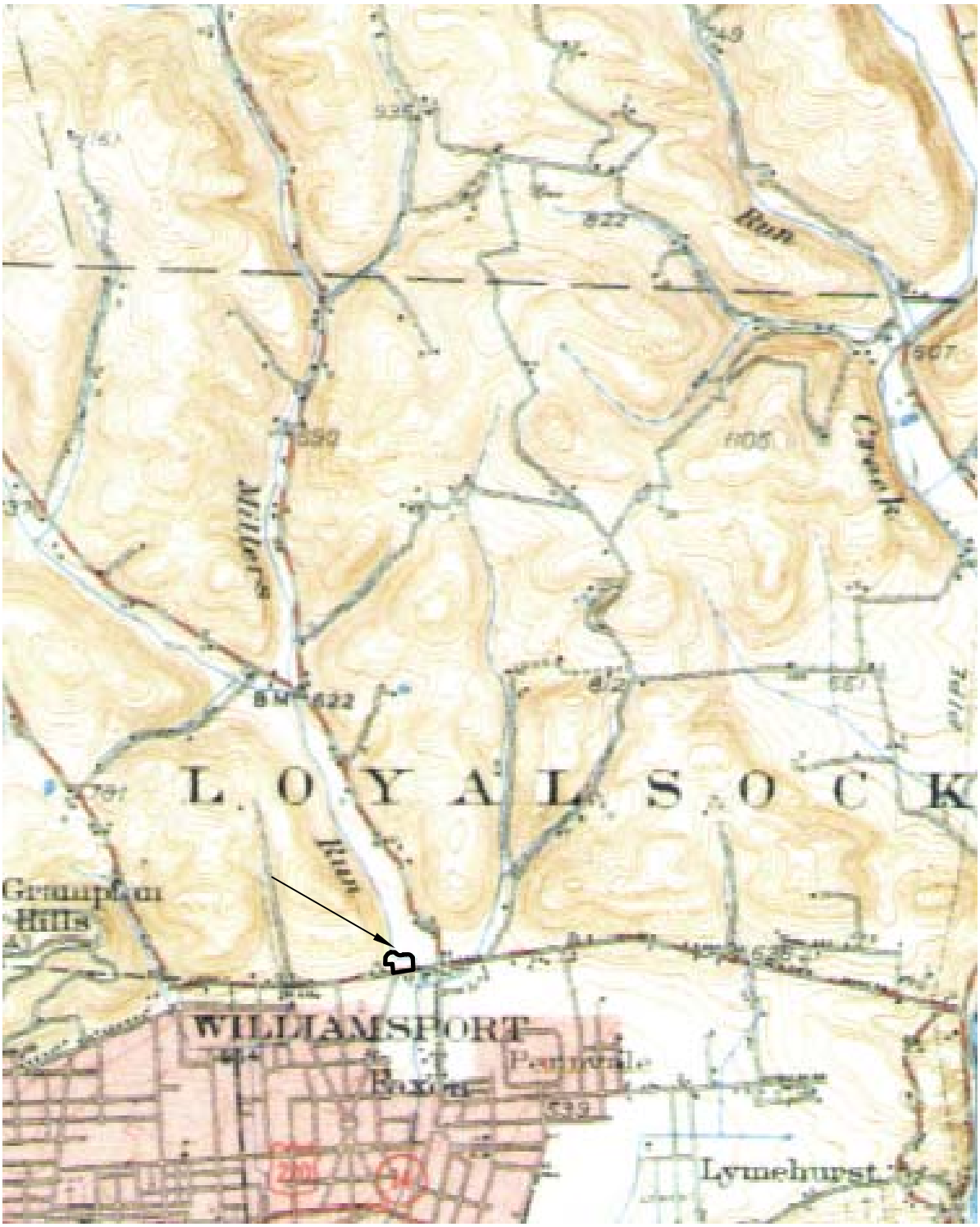


FIGURE 5
1953 USGS 7.5 MinuteTopographic Map, Montoursville North, Pennsylvania
Lycoming Memorial USAR Center ECP Report
Williamsport, Pennsylvania

PLEXUS scientific

CH2MHILL

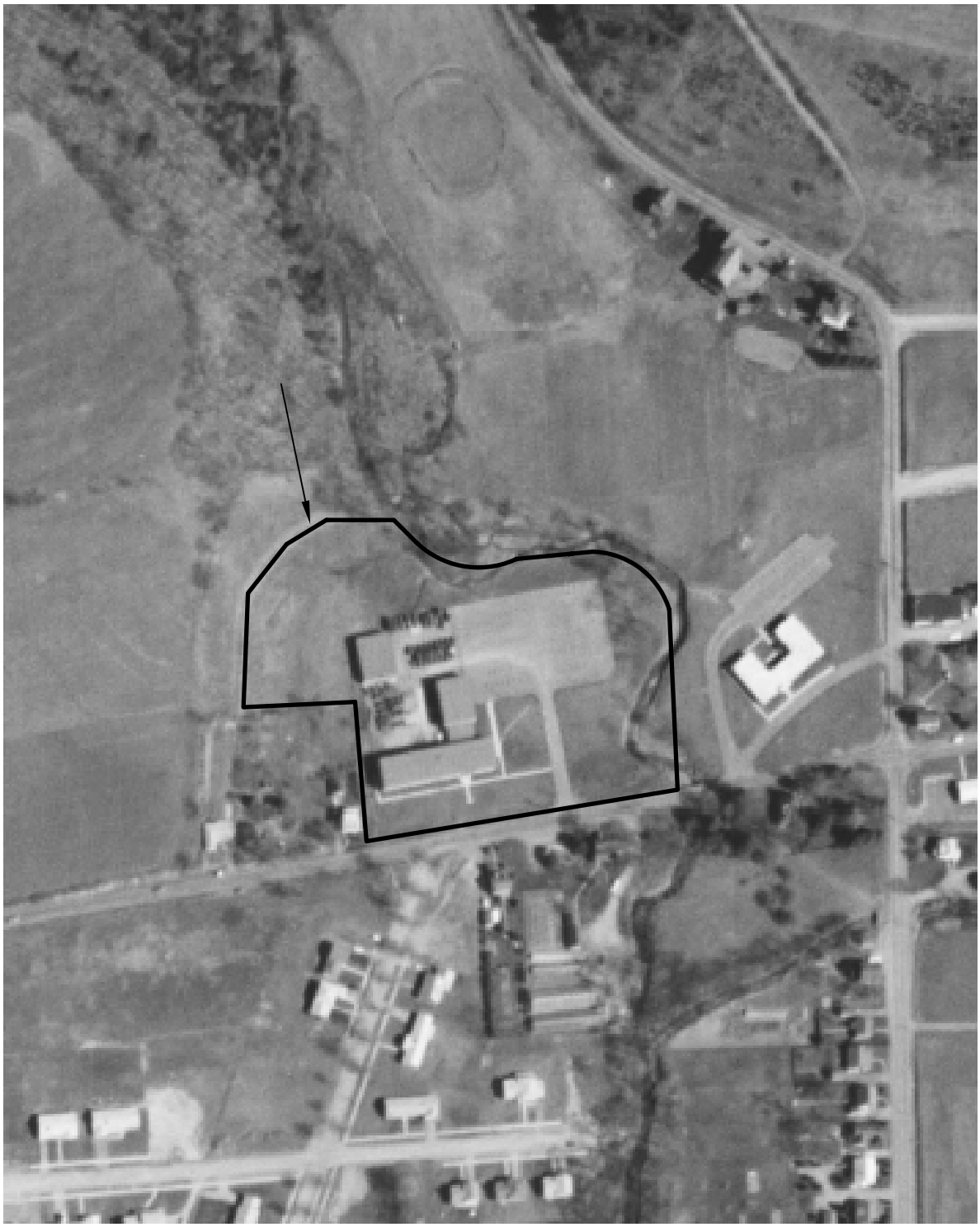
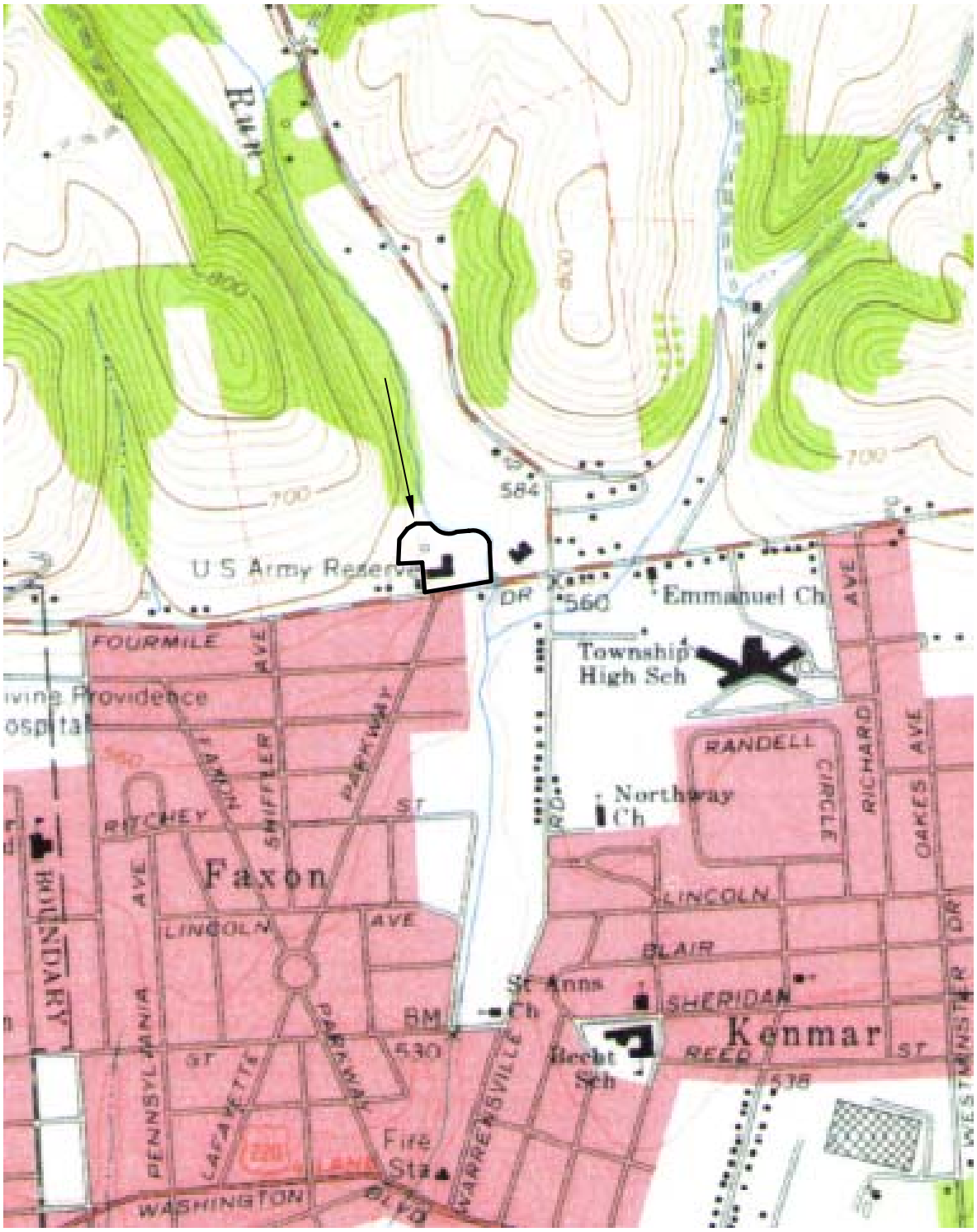


FIGURE 6
1963 Aerial Photograph
Lycoming Memorial USAR Center ECP Report
Williamsport, Pennsylvania

PLEXUS scientific

CH2MHILL

↑N



= 1000'

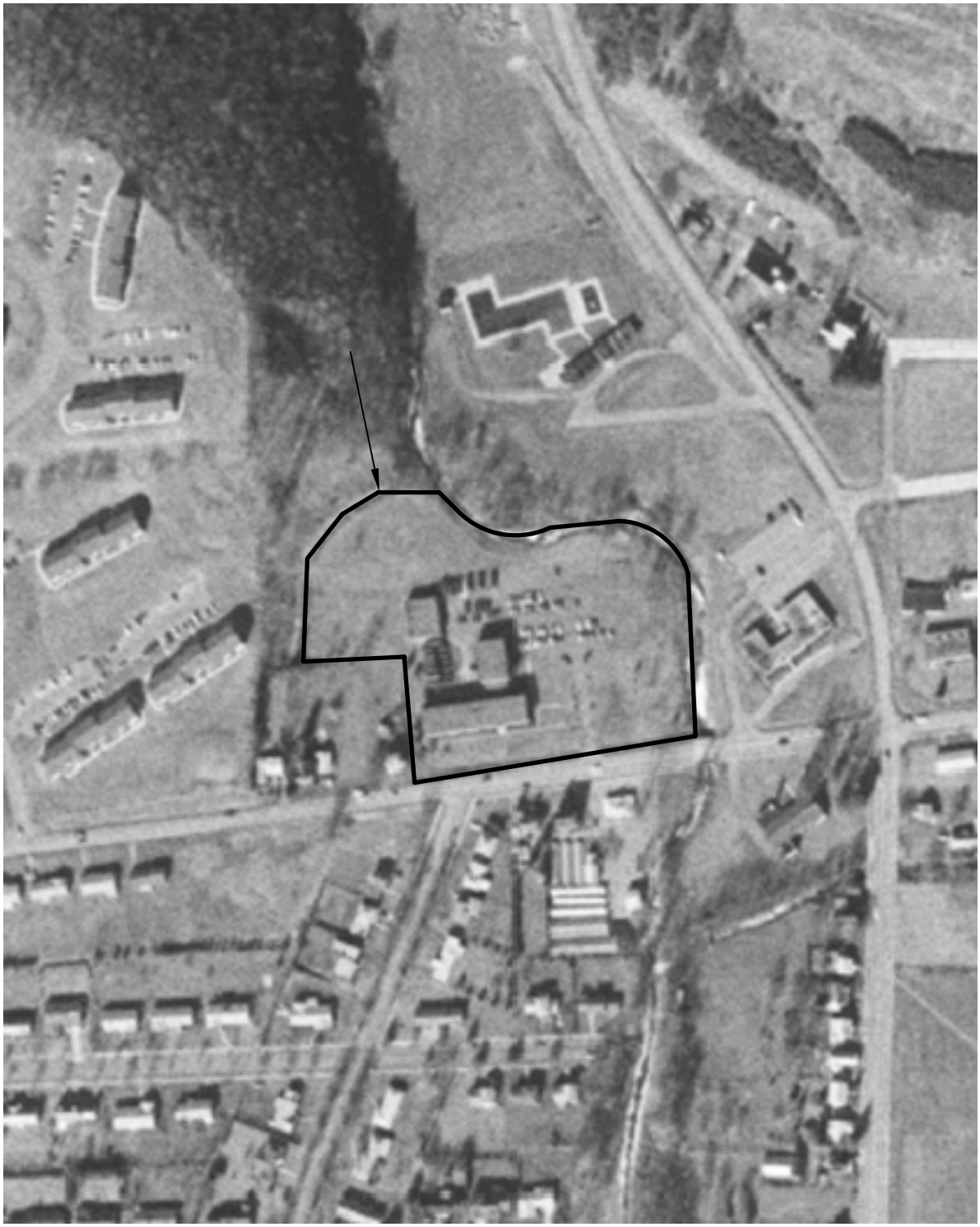
Source: EDR

FIGURE 7
1965 USGS 7.5 Minute Topographic Map, Montoursville North, Pennsylvania
Lycoming Memorial USAR Center ECP Report
Williamsport, Pennsylvania

PLEXUS scientific

CH2MHILL

N



= 300'

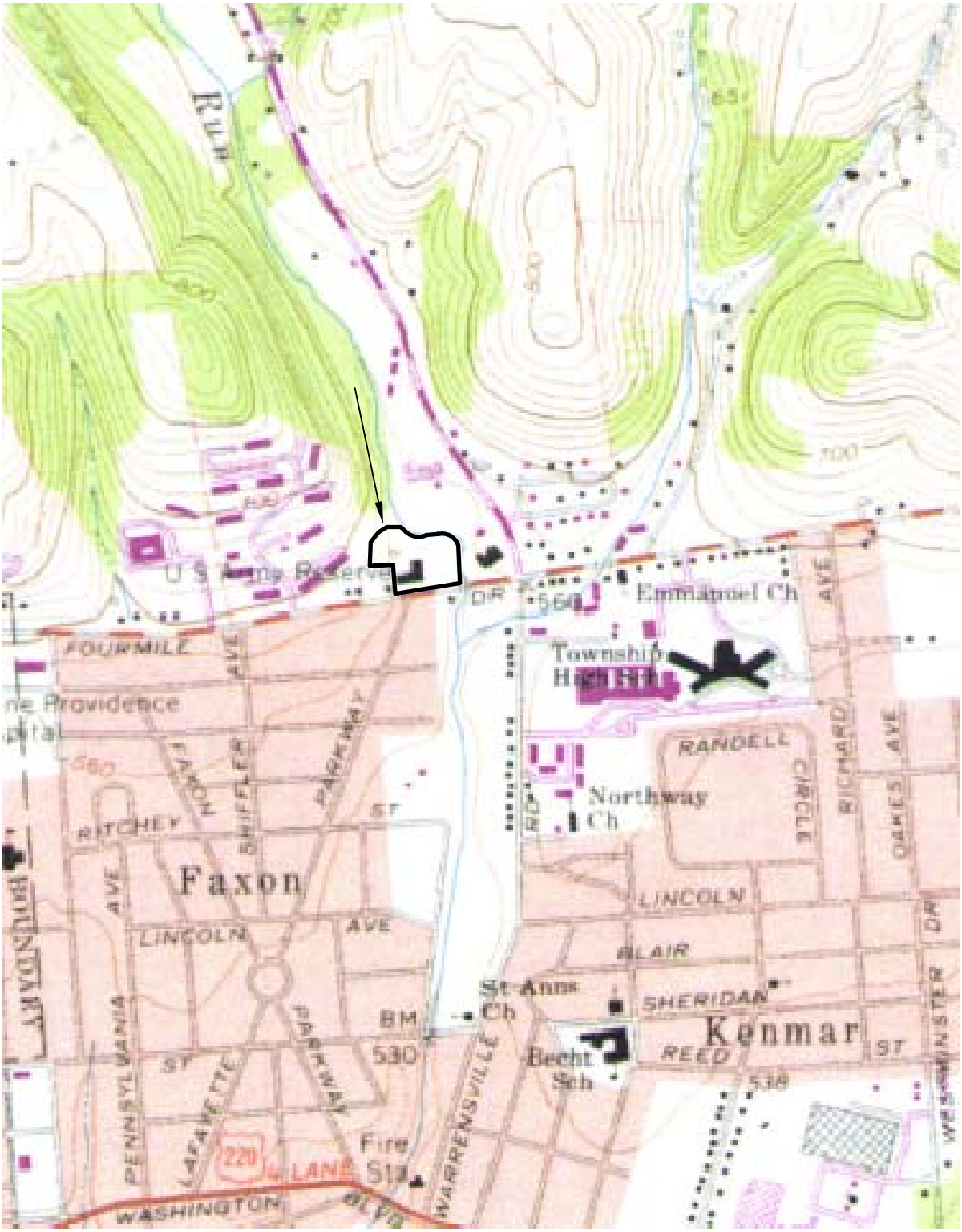
Source: Banks Information Solutions

FIGURE 8
1973 Aerial Photograph
Lycoming Memorial USAR Center ECP Report
Williamsport, Pennsylvania

PLEXUS scientific

CH2MHILL

N



= 1000'

Source: EDR

FIGURE 9
1986 USGS 7.5 Minute Topographic Map, Montoursville North, Pennsylvania
Lycoming Memorial USAR Center ECP Report
Williamsport, Pennsylvania

PLEXUS scientific

CH2MHILL

N

= 350'

Source: Terra Server

FIGURE 10
1999 Aerial Photograph
Lycoming Memorial USAR Center ECP Report
Williamsport, Pennsylvania

PLEXUS scientific

CH2MHILL

Appendix B
Site Reconnaissance Photographs

APPENDIX B

Site Reconnaissance Photographs

1. View to the west/northwest of the administrative building.

2. View to the northwest of the OMS building.

3. View to west/southwest of the location of the former 10,000-gallon fuel oil UST (see cutout area of asphalt in front of CONEX containers).

4. View to the south of the former coal storage room (identified by elevated concrete pad) located on the north side of the administration building (the former fuel oil UST area is visible on the right side of the photograph).

5. Classroom (Room 114) identified as part of the former indoor firing range.

6. Former vehicle maintenance pit (closed and filled with concrete) located in the southern bay of the OMS building.

7. Flammable storage locker in the OMS building (locked and inaccessible at time of site reconnaissance).

8. View to north of the vehicle wash area located in the MEP area (vegetation growing in sand trap drain in center of concrete pad).

9. Storm water outfall located at northeast corner of POV area that flows into Miller's Run Creek.

10. View to the east of the northern and eastern property boundaries identified by Miller's Run Creek.

Appendix C

Property Acquisition Documents and Chain of Title Report

2055 East Rio Salado Parkway, Suite 201
Tempe, Arizona 85281
Phone: (480) 967-6752
Fax Number: (480) 966-9422
Web Site: www.netronline.com

HISTORICAL CHAIN OF TITLE REPORT

LYCOMING MEMORIAL USARC, PA
1605 FOUR MILE DRIVE
WILLIAMSPORT, PENNSYLVANIA

Submitted to:

ENVIRONMENTAL DATA RESOURCES, INC.
C/O
CH2M HILL
1569 Stampmill Way
Lawrenceville, Georgia 30043
(770) 338-1589

Attention: Mary Jacques

Project No. N06-5596

Wednesday, September 13, 2006

NETR- Real Estate Research & Information hereby submits the following ASTM historical chain-of-title to the land described below, subject to the leases/miscellaneous shown in Section 2. Title to the estate or interest covered by this report appears to be vested in:

UNITED STATES OF AMERICA

The following is the current property legal description:

Being that parcel or tract of land, known as Tract No. 100, situated and lying in Loyalsock Township, Lycoming County, State of Pennsylvania

Assessor's Parcel No: 26-330-143.A

1. HISTORICAL CHAIN OF TITLE

1. DEED:
   - RECORDED: 02-06-1942
   - GRANTOR: Sarah A. Nittinger, widow
   - GRANTEE: Clarence W. Nittinger
   - INSTRUMENT: Bk 318, Pg 415
   - COMMENTS: Clarence W. Nittinger died on 09-12-1942, leaving to survive him, as his only heirs, his widow, Marion M. Nittinger and the following children June Elizabeth Nittinger, John P. Nittinger, Jane Nittinger Gehr, Betty Mae Nittinger and Peggy N. Nettinger. Jane Nittinger Gehr died on 10-23-1950 leaving to survive her, as her only heirs, her husband, Russell W. Gehr and her mother Marion M. Nittinger

2. DEED:
   - RECORDED: 06-23-1956
   - GRANTOR: Russel W. Gehr & Pearl B. Gehr, his wife
   - GRANTEE: Marion M. Nittinger
   - INSTRUMENT: Bk 417, Pg 431

3. DEED:
   - RECORDED: 02-19-1960
   - GRANTOR: Marion M. Nittinger, widow; John P. Nittinger & Constance F. Nittinger, his wife; Peggy N. Black & Wilfrid Black, her husband; June Elizabeth Nittinger; and Betty Mae Nittinger
   - GRANTEE: United States of America
   - INSTRUMENT: Bk 462, Pg 497

2. LEASES AND MISCELLANEOUS

1. No environmental liens, institutional controls or engineering controls were found of record.

3. LIMITATION

This report was prepared for the use of Environmental Data Resources, Inc., and CH2M Hill, exclusively. This report is neither a guarantee of title, a commitment to insure, or a policy of title insurance. NETR- Real Estate Research & Information does not guarantee nor include any warranty of any kind whether expressed or implied, about the validity of all information included in this report since this information is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

Appendix D

Previous Environmental Site Assessment Reports

FACSIMILE TRANSMITTAL HEADER SHEET

For use of this form, see AR 25-11; the proponent agency is ODISC4

COMMAND/ OFFICE	NAME/ OFFICE SYMBOL	OFFICE TELEPHONE NO. (AUTOVON/Comm.).	FAX NO. (AUTOVON/Comm.).
FROM: Kendra L. Borka Region Office 2 NAS Willow Grove		(215) 443-1643/1667	(215) 443-1666
TO: Darlene Briggs-Walker		(412) 604-8167	(412) 604-8150

CLASSIFICATION	PRECEDENCE	NO. PAGES (Including this Header)	DATE-TIME	MONTH	YEAR	RELEASER'S SIGNATURE
UNCLASS	R					

REMARKS

Asbestos Report

Space Below For Communications Center Use Only

DA FORM 3918-R, JUL 90 DA FORM 3918-R, AUG 72 IS OBSOLETE USAPPC V3 00

SECTION 2.2 (continued)

POTENTIAL EXPOSURE RATING	BUILDING FLOOR, AREA, ROOM	PAGE
III - Low to Moderate	Chester Army Reserve Center Shed-Motor Vehicle Storage, Entire Maintenance Area	75
III - Low to Moderate	Germantown Army Reserve Center Second Floor, General Building Space	81
III - Low to Moderate	Bristol Army Reserve Center First Floor, Mechanical Room, Area Room 121	91
III - Low to Moderate	Worcester Army Reserve Center First Floor, Mechanical Area Room 131	96
III - Low to Moderate	Scranton Army Reserve Center Shed-Motor Vehicle Storage, Entire Motor Vehicle Storage	114
III - Low to Moderate	Williamsport Army Reserve Center Shed-Motor Vehicle Storage, Entire Maintenance Shop	65
III - Low to Moderate	Greencastle Army Reserve Center Barracks Building, General Building Space	54
III - Low to Moderate	Chambersburg Army Reserve Center Shed - Motor Vehicle Storage, Garage Area	50
III - Low to Moderate	Williamsport Army Reserve Center First Floor, Boiler Room accessed from main corridor	62
III - Low to Moderate	Woodhaven Army Reserve Center First Floor, General Building Space	86
III - Low to Moderate	Woodhaven Army Reserve Center Second Floor, General Building Space	88

SECTION 2.2 (continued)

POTENTIAL EXPOSURE RATING	BUILDING FLOOR, AREA, ROOM	PAGE
IV - Very Low	Williamsport Army Reserve Center Second Floor, General Building Space	64
IV - Very Low	Williamsport Army Reserve Center First Floor, General Building Space	62
IV - Very Low	Chester Army Reserve Center Second Floor, General Building Space	73
IV - Very Low	Woodhaven Army Reserve Center Ground Floor, General Building Space	83
IV - Very Low	Bristol Army Reserve Center First Floor, Mechanical Room Area Room 121	91
IV - Very Low	Bristol Army Reserve Center First Floor, General Building Space	- 91
IV - Very Low	Worcester Army Reserve Center First Floor, Mechanical Area Room 131	96
IV - Very Low	Worcester Army Reserve Center First Floor, General Building Space	96
IV - Very Low	Worcester Army Reserve Center Second Floor, General Building Space	101
IV - Very Low	Scranton Army Reserve Center Second Floor, General Building Space	113
IV - Very Low	Bloomsburg Army Reserve Center Maintenance Shop, entire maintenance area	123
IV - Very Low	State College Army Reserve Center Maintenance Shop, entire area	60

No asbestos was observed at the time of survey in areas not listed within the above table.

Four ratings were established to classify ACMs within functional areas by potential for occupant asbestos exposure (beyond outside ambient air fiber levels). They are the following:

I. High to very High. The functional areas with this rating pose the highest potential for exposure to the general building population. Criteria for determination include significant quantities of damaged friable TSI ACM (thermal system insulation including pipe insulation, pipe fitting insulations and mechanical unit insulation) or other friable ACM within areas generally accessed by building occupants, that are in a direct air flow or show evidence of major physical disturbance. A high potential exists for asbestos fiber release and individual exposure with a minimal disturbance of these materials in these functional areas unless control measures are taken. Six (6) functional areas at five separate sites were assigned to the Rating I category.

II. Moderate to High. This rating of potential exposure to asbestos fiber release within functional areas is categorized by significant quantities of potentially friable TSI or other ACM, or friable ACM within general work space. Also moderately damaged TSI in mechanical areas, undamaged friable TSI or other ACM in air flows or in areas frequently accessed are included. Material/conditions with this rating show a high potential for disturbance and exposure by inadvertent impact or routine maintenance activities. Nineteen (19) functional areas were assigned Rating II.

III. Low to Moderate. Functional areas with this rating include those having TSI ACM or other potentially friable ACM materials in areas and rooms not generally accessed by building occupants. Disturbance by maintenance activity could cause asbestos fiber release and individual (short term, high concentration) exposure. Twenty (20) functional areas were assigned rating III.

IV. Very Low. This rating for potential exposure to asbestos fiber release categorizes non-friable materials and small quantities of potentially friable materials within a functional area. Fiber release is very unlikely for non-friable materials unless cut, sanded, drilled, or otherwise abrasively disturbed. Twenty (20) functional areas were assigned rating IV.

In addition, some functional areas were surveyed in which no asbestos-containing materials were observed. These areas were not assigned a rating. There was no ACM observed in the following facilities:

Fort Indiantown Gap, Army Reserve Center and Maintenance Shop
Gettysburg, Army Reserve Center, Maintenance Shop
State College, Army Reserve Center, Maintenance Shop
Bristol, Army Reserve Center, Maintenance Shop
Worcester, Army Reserve Center, General Building Space
Bethlehem Army Reserve Center, General Building Space
Ashley Army Reserve Center, Entire Ground Floor and main level

DACA 31-87-D-0016
Delivery Order No. 001

BIOSPHERICS® INCORPORATED

SECTION 2.18

2.18.1 U.S. ARMY RESERVE CENTER, WORCESTER, FIRST FLOOR

NON-ASBESTOS-CONTAINING MATERIALS SAMPLED:

1. White braided gasket
2. 2' x 2', white ceiling tile
3. Grey, powdery exhaust duct insulation

ASBESTOS-CONTAINING MATERIALS SAMPLED/OBSERVED:

1. Grey, powdery, pipe fitting lagging
2. Grey, powdery pipe section ending
3. Grey, fibrous gasket
4. Transite wallboard
5. Two-coat ceiling plaster
6. 12" x 12" floor tiles

FUNCTIONAL AREAS

A. Mechanical Areas (Room number 131; drawing ref.: AS-BLT 29-06-01 SH. M-1)

- o ACM TSI - Grey, powdery pipe section endings on circulating system piping. One pipe section ending is damaged. Due to the non-homogeneous nature of the material, it is felt that pipe fitting laggings should be considered ACM until further sampling can be done.
- o Grey, fibrous gasket on boiler unit is ACM.

Hazard Assessment
Rating III - Low to Moderate

B. General Building Space (All other rooms and corridors; drawing ref.: AS-BLT 29-06-01 SH. M-1)

- o 12" x 12" floor tiles were found to contain asbestos and should be considered ACM in the absence of further sampling.
- o Transite wallboard sampled in room 105 is ACM. Noted on floor plans are other areas where transite wallboard was found.
- o Two-coat ceiling plaster should be considered ACM until further sampling.

Hazard Assessment
Rating IV - Very Low

DACA 31-87-D-0016
Delivery Order No.-0001

BIOSPHERICS® INCORPORATED

TABLE 2.18.1

Results of Bulk Asbestos Analyses of Samples Collected for EHSC and Fort Indiantown Gap, PA from U.S. Army Reserve Center at Worcester, Pennsylvania (First Floor)

BIOS #	DATE SAMPLED	LOCATION/DESCRIPTION	ASBESTOS TYPE	CONTENT (VOLUME %)
87-11-345-200	11/24/87	Grey, powdery, hot water circulating system valve insulation; boiler room	NAFD*	---
87-11-345-201	11/24/87	Grey, powdery pipe, circulating system return section ending; boiler room	NAFD*	---
87-11-345-202	11/24/87	Grey, powdery pipe, circulating system supply section ending; boiler room	NAFD*	---
87-11-345-203	11/24/87	Grey, powdery, boiler exhaust flue insulation; boiler room	NAFD*	---
87-11-345-204	11/24/87	Grey, powdery, circulating system pipe section ending; boiler room	Chrysotile	1-2%
87-11-345-205	11/24/87	Grey, powdery, circulating system pipe section ending; boiler room	Chrysotile	1-2%
87-11-345-206	11/24/87	Grey, fibrous, boiler gasket; boiler room	Chrysotile	40-45%
87-11-345-207	11/24/87	White, braided boiler door gasket; boiler room	NAFD*	---
87-11-345-208	11/24/87	12" x 12", tan mottled floor tile; lobby	Chrysotile	<1%

*NAFD -- No Asbestos Fibers Detected

3484F

DACA 31-87-D-0016
Delivery Order No.-0001

BIOSPHERICS® INCORPORATED

TABLE 2.18.1

Results of Bulk Asbestos Analyses of Samples Collected for EHSC and Fort Indiantown Gap, PA from U.S. Army Reserve Center at Worcester, Pennsylvania (First Floor), continued

BIOS #	DATE SAMPLED	LOCATION/DESCRIPTION	ASBESTOS TYPE	CONTENT (VOLUME %)
87-11-345-209	11/24/87	2' x 2', white with pin-hole/gouge pattern ceiling tile; lobby	NAFD*	---
87-11-345-210	11/24/87	12" x 12", white with grey mottle floor tile	Chrysotile	<1%
87-11-345-211	11/24/87	Two-coat ceiling plaster; room 112, shower	NAFD*	---
87-11-345-217	11/24/87	Two-coat plaster ceiling; room 130, kitchen	NAFD*	---
87-11-345-218	11/24/87	Mastic lagging over yellow, fibrous insulation on pipe t-section; corridor near kitchen	NAFD*	---
87-11-345-219	11/24/87	Transite wallboard; room 105	Chrysotile Amosite	25-30% 2-5%

*NAFD -- No Asbestos Fibers Detected

3484F

DACA 31-87-D-0016
Delivery Order No. 001

BIOSPHERICS® INCORPORATED

2.18.2 U.S. ARMY RESERVE CENTER, WORCESTER, PARTIAL FIRST FLOOR PLAN

NON-ASBESTOS-CONTAINING MATERIALS SAMPLED:

1. 12" x 12", white ceiling tiles

ASBESTOS-CONTAINING MATERIALS SAMPLED/OBSERVED:

- o None

FUNCTIONAL AREAS

A. General Building Space (Room numbers 137 and 138; drawing ref.: AS-BLT 29-06-01 SH. M-2)

- o No asbestos containing materials were observed.

DACA 31-87-D-0016
Delivery Order No.-0001

BIOSPHERICS® INCORPORATED

TABLE 2.18.2

Results of Bulk Asbestos Analyses of Samples Collected for EHSC and Fort Indiantown Gap, PA from U.S. Army Reserve Center at Worcester, Pennsylvania (Partial First Floor)

BIOS #	DATE SAMPLED	LOCATION/DESCRIPTION	ASBESTOS TYPE	CONTENT (VOLUME %)
87-11-345-212	11/24/87	12" x 12", white ceiling tile with pinhole pattern; room 138	NAFD*	---

*NAFD -- No Asbestos Fibers Detected

3484F

2.18.3 U.S. ARMY RESERVE CENTER, WORCESTER, SECOND FLOOR

NON-ASBESTOS-CONTAINING MATERIALS SAMPLED:

1. White mastic over yellow pipe fitting lagging
2. 2' x 2', white ceiling tile

ASBESTOS-CONTAINING MATERIALS SAMPLED/OBSERVED:

1. Transite board
2. 12" x 12" floor tiles, tan
3. Two-coat plaster ceilings

FUNCTIONAL AREAS

A. General Building Space (All rooms and corridors; drawing ref.: AS-BLT 29-06-01 SH. M-3)

- o 12" x 12", tan floor tiles with mottle was found to contain trace (<1%) asbestos and should be considered ACM in the absence of further sampling.
- o Plaster ceilings should be treated as ACM until further sampling is done to show otherwise.

Hazard Assessment
Rating IV - Very Low

DACA 31-87-D-0016
Delivery Order No.-0001

BIOSPHERICS® INCORPORATED

TABLE 2.18.3

Results of Bulk Asbestos Analyses of Samples Collected for BHSC and Fort Indiantown Gap, PA from U.S. Army Reserve Center at Worcester, Pennsylvania (Second Floor)

BIOS #	DATE SAMPLED	LOCATION/DESCRIPTION	ASBESTOS TYPE	CONTENT (VOLUME %)
87-11-345-213	11/24/87	12" x 12", tan with mottle floor tile; room 218, administration	Chrysotile	<1%
87-11-345-214	11/24/87	White, mastic over yellow, fibrous on pipe t-section; room 218, administration	Chrysotile	<1%
87-11-345-215	11/24/87	Transite board; room 216, administration	Chrysotile Amosite	25-30% 2-5%
87-11-345-216	11/24/87	2' x 2', white pinhole/ gouge pattern ceiling tile; room 204, classroom	NAFD*	---

*NAFD -- No Asbestos Fibers Detected

3484F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,

CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/200

FACILITY SAMPLED Worcester BIOS # 87-11-345-200

SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [X]	Tile [ ]	Y [ ]	L [X]	P [ ]	L [ ]	L [X]	L [X]
Sprayed [ ]	Wallboard [ ]	N [X]	M [ ]	F [ ]	M [X]	M [ ]	M [ ]
Troweled [X]	Other [ ]		H [ ]	G [X]	H [ ]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): ~12" O.D.

DESCRIPTION: Grey, powdery, troweled-on hot water circulating system drain valve.

LOCATION: Boiler room.

SIMILAR MATERIALS: On pipe endings.

SAMPLE LOCATION MARKED: Tape & I.D. [X]
Sample location was not marked [ ]

COMMENTS: Troweled-on outer surface.

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,

CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/201

FACILITY SAMPLED Worcester BIOS # 87-11-345-201

SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [X]	Tile [ ]	Y [ ]	L [ ]	P [X]	L [ ]	L [X]	L [X]
Sprayed [ ]	Wallboard [ ]	N [X]	M [ ]	F [ ]	M [ ]	M [ ]	M [ ]
Troweled [X]	Other [ ]		H [X]	G [ ]	H [X]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): ~12" O.D.

DESCRIPTION: Grey, powdery, troweled-on pipe section ending on circulating system return dead leg.

LOCATION: Boiler room.

SIMILAR MATERIALS: On other pipe endings.

SAMPLE LOCATION MARKED: Tape & I.D. [ ]
Sample location was not marked [X]

COMMENTS: Badly damaged (from remove chiller).

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,
CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/202
FACILITY SAMPLED Worcester BIOS # 87-11-345-202
SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [X]	Tile [ ]	Y [ ]	L [ ]	P [X]	L [ ]	L [X]	L [X]
Sprayed [ ]	Wallboard [ ]	N [X]	M [ ]	F [ ]	M [ ]	M [ ]	M [ ]
Troweled [X]	Other [ ]		H [X]	G [ ]	H [X]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): ~12" O.D.

DESCRIPTION: Grey, powdery, pipe section ending on circulating system supply dead leg.

LOCATION: Boiler room.

SIMILAR MATERIALS: On other pipe endings.

SAMPLE LOCATION MARKED: Tape & I.D. [ ]
Sample location was not marked [X]

COMMENTS: Badly damaged (to remove chiller).

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,

CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/203

FACILITY SAMPLED Worcester BIOS # 87-11-345-203

SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe Insl [ ]	Tile [ ]	Y [ ]	L [ ]	P [ ]	L [ ]	L [X]	L [X]
Sprayed [ ]	Wallboard [ ]	N [X]	M [X]	F [X]	M [ ]	M [ ]	M [ ]
Troweled [X]	Other [ ]		H [ ]	G [ ]	H [X]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): ~4" O.D.

DESCRIPTION: Grey, powdery, boiler exhaust flue insulation.

LOCATION: Boiler room.

SIMILAR MATERIALS: Over entire exhaust flue.

SAMPLE LOCATION MARKED: Tape & I.D. [X]
Sample location was not marked [ ]

COMMENTS: Surface is cracking.

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,

CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/204

FACILITY SAMPLED Worcester BIOS # 87-11-345-204

SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [X]	Tile [ ]	Y [X]	L [ ]	P [X]	L [ ]	L [X]	L [X]
Sprayed [ ]	Wallboard [ ]	N [ ]	M [ ]	F [ ]	M [X]	M [ ]	M [ ]
Troweled [X]	Other [ ]		H [X]	G [ ]	H [ ]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): ~6" O.D.

DESCRIPTION: Grey, powdery, circulating system pipe section ending to pump one.

LOCATION: Boiler room.

SIMILAR MATERIALS:

SAMPLE LOCATION MARKED: Tape & I.D. [ ]
Sample location was not marked [X]

COMMENTS: Damaged and in poor condition.

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,

CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/205

FACILITY SAMPLED Worcester BIOS # 87-11-345-205

SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [ ]	Tile [ ]	Y [X]	L [ ]	P [ ]	L [ ]	L [X]	L [X]
Sprayed [ ]	Wallboard [ ]	N [ ]	M [X]	F [ ]	M [X]	M [ ]	M [ ]
Troweled [X]	Other [ ]		H [ ]	G [X]	H [ ]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): ~6" O.D.

DESCRIPTION: Grey, powdery, circulating system pipe section ending from pump one.

LOCATION: Boiler room.

SIMILAR MATERIALS:

SAMPLE LOCATION MARKED: Tape & I.D. [X]
Sample location was not marked [ ]

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,

CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/206

FACILITY SAMPLED Worcester BIOS # 87-11-345-206

SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [ ]	Tile [ ]	Y [X]	L [ ]	P [ ]	L [ ]	L [X]	L [X]
Sprayed [ ]	Wallboard [ ]	N [ ]	M [X]	F [X]	M [ ]	M [ ]	M [ ]
Troweled [ ]	Other [X]		H [ ]	G [ ]	H [X]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): Not determined.

DESCRIPTION: Grey, fibrous, top boiler gasket material.

LOCATION: Boiler room.

SIMILAR MATERIALS:

SAMPLE LOCATION MARKED: Tape & I.D. [ ]
Sample location was not marked [X]

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,
CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/207
FACILITY SAMPLED Worcester BIOS # 87-11-345-207
SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [ ]	Tile [ ]	Y [ ]	L [X]	P [ ]	L [ ]	L [X]	L [X]
Sprayed [ ]	Wallboard [ ]	N [X]	M [ ]	F [ ]	M [ ]	M [ ]	M [ ]
Troweled [ ]	Other [X]		H [ ]	G [X]	H [X]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): Not determined.

DESCRIPTION: White, braided material on inner gasket of boiler door.

LOCATION: Boiler room.

SIMILAR MATERIALS:

SAMPLE LOCATION MARKED: Tape & I.D. [ ]
Sample location was not marked [X]

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,

CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/208

FACILITY SAMPLED Worcester BIOS # 87-11-345-208

SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [ ]	Tile [X]	Y [X]	L [X]	P [ ]	L [ ]	L [X]	L [X]
Sprayed [ ]	Wallboard [ ]	N [ ]	M [ ]	F [ ]	M [ ]	M [ ]	M [ ]
Troweled [ ]	Other [ ]		H [ ]	G [X]	H [X]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): Not determined.

DESCRIPTION: Tan, 12" x 12" floor tile with mottle.

LOCATION: Lobby, first floor.

SIMILAR MATERIALS: Floor tile throughout area.

SAMPLE LOCATION MARKED: Tape & I.D. [ ]
Sample location was not marked [X]

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,

CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/209

FACILITY SAMPLED Worcester BIOS # 87-11-345-209

SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [ ]	Tile [X]	Y [ ]	L [X]	P [ ]	L [ ]	L [ ]	L [X]
Sprayed [ ]	Wallboard [ ]	N [X]	M [ ]	F [ ]	M [X]	M [X]	M [ ]
Troweled [ ]	Other [ ]		H [ ]	G [X]	H [ ]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): Not determined.

DESCRIPTION: White, 2' x 2' ceiling tile with pinhole/gouge pattern.

LOCATION: Lobby, first floor.

SIMILAR MATERIALS: Ceiling tile throughout area.

SAMPLE LOCATION MARKED: Tape & I.D. [ ]
Sample location was not marked [X]

COMMENTS: Minor water damage.

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,

CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/210

FACILITY SAMPLED Worcester BIOS # 87-11-345-210

SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [ ]	Tile [X]	Y [X]	L [X]	P [ ]	L [ ]	L [ ]	L [X]
Sprayed [ ]	Wallboard [ ]	N [ ]	M [ ]	F [ ]	M [ ]	M [X]	M [ ]
Troweled [ ]	Other [ ]		H [ ]	G [X]	H [X]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): Not determined.

DESCRIPTION: White, 12" x 12" floor tile with grey mottle.

LOCATION: Room 108.

SIMILAR MATERIALS: Floor tile throughout area.

SAMPLE LOCATION MARKED: Tape & I.D. [ ]
Sample location was not marked [X]

3482F

DACA 31-87-D-0016
Delivery Order No. 0001

BIOSPHERICS® INCORPORATED

BULK MATERIAL/ASBESTOS SAMPLING FORM

EHSC,

CLIENT/CONTACT Fort Indiantown Gap, PA FIELD I.D.# 11-24-FIG-JK-B/211

FACILITY SAMPLED Worcester BIOS # 87-11-345-211

SAMPLING DATE November 24, 1987 SAMPLED BY Ted Mitchell

MATERIAL TYPE		ACM	FRIAB	COND	ACCESS	OCCUP	HAZARD
Pipe insl [ ]	Tile [ ]	Y [ ]	L [X]	P [ ]	L [ ]	L [X]	L [X]
Sprayed [ ]	Wallboard [ ]	N [X]	M [ ]	F [ ]	M [X]	M [ ]	M [ ]
Troweled [ ]	Other [X]		H [ ]	G [X]	H [ ]	H [ ]	H [ ]

QUANTITY (diam/lin.ft./Sq.ft): Not determined.

DESCRIPTION: Two coat plaster ceiling.

LOCATION: Room 112, shower area.

SIMILAR MATERIALS: Ceiling throughout area.

SAMPLE LOCATION MARKED: Tape & I.D. [X]
Sample location was not marked [ ]

COMMENTS: Minor delamination at access hatch.

3482F

US ARMY CORPS
of ENGINEERS
Baltimore District

FINAL ENVIRONMENTAL COMPLIANCE ASSESSMENT REPORT

Prepared for:

LYCOMING MEMORIAL U.S. ARMY RESERVE CENTER, WILLIAMSPORT, PENNSYLVANIA

Under Contract with:

U.S. Army Corps of Engineers
Baltimore District
10 South Howard Street
Baltimore, Maryland 21201

Prepared by:

Science Applications International Corporation
1710 Goodridge Drive
McLean, Virginia 22102

Submitted:

January 1995

FINAL
FOR OFFICIAL USE ONLY

ENVIRONMENTAL COMPLIANCE ASSESSMENT SYSTEM

FINAL ENVIRONMENTAL COMPLIANCE ASSESSMENT REPORT

Prepared for:

LYCOMING MEMORIAL U.S. ARMY RESERVE CENTER
WILLIAMSPORT, PENNSYLVANIA

Under Contract With:

U.S. Army Corps of Engineers
Baltimore District
10 South Howard Street
Baltimore, Maryland 21201
DACA31-92-D-0008/0012

Prepared by:

Science Applications International Corporation
1710 Goodridge Drive
McLean, Virginia 22102

January 1995

This document is a draft document and is predecisional. Therefore, it is not subject to release under the Freedom of Information Act (FOIA). This page should be removed after document is appropriately signed.

FOR OFFICIAL USE ONLY
FINAL

THIS PAGE INTENTIONALLY LEFT BLANK

ENVIRONMENTAL COMPLIANCE ASSESSMENT SYSTEM (ECAS)

FINAL ENVIRONMENTAL COMPLIANCE ASSESSMENT REPORT (ECAR)

Prepared for:

LYCOMING MEMORIAL U.S. ARMY RESERVE CENTER
WILLIAMSPORT, PENNSYLVANIA

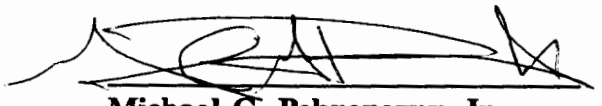
Under Contract With:

U.S. Army Corps of Engineers
Baltimore District
10 South Howard Street
Baltimore, Maryland 21201
DACA31-92-D-0008/0012

Prepared by:

Science Applications International Corporation
1710 Goodridge Drive
McLean, Virginia 22102

Recommended for Release By:



Michael G. Pohronezny, Jr.
COL, EN, USAR
Deputy Chief of Staff, Engineer
79th Army Reserve Command

Released by:

Stephen W. Boone
COL, GS
Deputy Chief of Staff, Engineer
U.S. Army Reserve Command

January 1995

THIS PAGE INTENTIONALLY LEFT BLANK

TABLE OF CONTENTS

LIST OF TABLES

Executive Summary

SECTION 1

EXECUTIVE SUMMARY

THIS PAGE INTENTIONALLY LEFT BLANK

EXECUTIVE SUMMARY

1.1 GENERAL

This Final Environmental Compliance Assessment Report (ECAR) presents the results of the Environmental Compliance Assessment System (ECAS) investigation conducted by Science Applications International Corporation (SAIC) at the Lycoming Memorial U.S. Army Reserve Center (USARC), Williamsport, Pennsylvania, on January 27, 1994. The purpose of this report is to identify environmental compliance problems to the reserve center commander and identify alternative corrective actions. This report is intended to provide sufficient information for the commander to make an informed choice on the appropriate corrective action for each finding. After review of this report, SAIC will draft a corrective action plan to address all compliance deficiencies identified. This plan will be prepared in accordance with directives provided by the Lycoming Memorial USARC Commander.

This environmental compliance assessment has reviewed installation-wide operations and activities and provides a snapshot in time of the center's compliance posture. It does not guarantee that a regulatory agency representative will not find other compliance deficiencies. The purpose of the assessment is to identify weak areas and provide a means to correct them without the pressure of a regulatory inspection.

ECAS is a proactive program that reviews 17 environmental media, which are listed in Table 1-1, and helps identify the resources necessary to bring the installation into environmental compliance. Along with this corrective action plan, the SAIC ECAS team can assist in developing resource documents (i.e., RCS 1383 exhibits, DA 4283s, and front page DD 1391s) to support existing U.S. Army resource systems.

1.2 SUMMARY OF FINDINGS

The SAIC ECAS assessment team found the environmental program at Lycoming Memorial USARC to be well managed and uncovered a limited number of findings. The facility manager has established a positive working relationship with Federal, state, and local regulatory agencies and the Fort Indiantown Gap Environmental Office (support installation). This was reflective in Lycoming's environmental compliance maintenance.

Significant findings identified at the Lycoming Memorial USARC included the lack of a Stormwater Pollution Plan and stormwater permit study, inadequate Spill Prevention, Control and Countermeasure (SPCC) and Installation Spill Contingency (ISC) Plans, and the lack of a hazardous waste inventory and management plan. All findings identified during the assessment are presented in Table 1-1 and detailed in Sections 3 and 4 of this report.

Table 1-1. Regulatory Compliance and Management Practices Findings Summary for Lycoming Memorial USARC, Pennsylvania

Section	ECAS Protocols	Number of Regulatory Findings			Number of Management Practices Findings			Total Findings
		I	II	HS	POS	III	HS	
1	Clean Air Act (CAA)	0	0	0	0	1	0	1
2	Clean Water Act (CWA)	3	0	0	0	2	0	5
3	Safe Drinking Water Act (SDWA)	0	0	0	0	1	0	1
4	Resource Conservation and Recovery Act, Subtitle C (RCRA-C)	0	0	0	0	2	0	2
5	Resource Conservation and Recovery Act, Subtitle D (RCRA-D)	0	0	0	0	2	0	2
6	Resource Conservation and Recovery Act, Subtitle I (RCRA-I) and POL Management	0	0	0	0	0	0	0
7	Comprehensive Environmental Response, Compensation, and Liability Act/Superfund Amendments and Reauthorization Act (CERCLA/SARA)	0	0	0	0	1	0	1
8	Toxic Substances Control Act (TSCA)	1	0	0	0	0	0	1
9	Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)	0	0	0	0	0	0	0
10	National Historic Preservation Act (NHPA) and Cultural Resources	1	0	0	0	0	0	1
11	Endangered Species Act (ESA) and Natural Resources	0	0	0	0	1	0	1
12	National Environmental Policy Act (NEPA)	0	0	0	0	0	0	0
13	Asbestos Management Program	0	0	0	0	2	0	2
14	Noise Abatement	0	0	0	0	1	0	1
15	Radon Program	0	0	0	1	0	0	1
16	Environmental Program Management	0	0	0	1	0	0	1
17	Hazardous Materials Management	0	0	2	0	2	2	6
	Total Findings	**5**	**0**	**2**	**2**	**15**	**2**	**26**

Class I. Observed noncompliance with an existing environmental regulation, compliance agreement, consent order, or operating/discharge permit. These may be violations of Federal, state, or local requirements.

Class II. Potential noncompliance with a future deadline in an environmental regulation, compliance agreement, consent order, or operating/discharge permit. These may be potential violations of Federal, state, or local requirements.

Class III. Management practices findings based on U.S. Army Regulations (ARs) and U.S. Department of Defense (DoD) Directives, not Federal, state, or local regulations.

HS. Health and Safety (HS) findings related to the Occupational Safety and Health Administration (OSHA), U.S. Department of Transportation (DOT), and National Fire Prevention Association (NFPA) guidelines as indicated in the requirements column of the ECAS protocol manual. Most HS findings are in the Hazardous Materials Section (Section 17) of the manual. H findings may be regulatory, but are not part of the RCS 1383 reporting process and are not eligible for any environmenta. funding. HS findings are not classified as Class I, II, or III findings.

POS. Positive finding.

Background and Scope

SECTION 2

BACKGROUND AND SCOPE

THIS PAGE INTENTIONALLY LEFT BLANK

2. BACKGROUND AND SCOPE

2.1 ECAS BACKGROUND

The U.S. Army Environmental Compliance Assessment System (ECAS) program was developed as a support service to the installation commander to help attain and sustain compliance with the growing number of environmental laws and regulations. Accordingly, the specific objectives of the ECAS program include:

- Assisting installation commanders in identifying compliance deficiencies and the resources necessary to correct those deficiencies
- Developing an installation corrective action plan for compliance deficiencies
- Assisting installation commanders in tracking environmental compliance trends and progress
- Increasing environmental awareness and involvement by all staff elements at the installation.

The ECAS process is used to evaluate the current environmental compliance of all U.S. Army operations and practices with Federal, state, and local environmental laws, as well as with U.S. Army Regulations (ARs) U.S. and Department of Defense (DoD) directives. ECAS also is used to examine installation environmental management practices. The following 17 multi-media environmental, health and safety, and management categories, or protocols, are examined during an ECAS assessment:

1. Clean Air Act (CAA)
2. Clean Water Act (CWA)
3. Safe Drinking Water Act (SDWA)
4. Resource Conservation and Recovery Act, Subtitle C (RCRA-C) - Hazardous Waste
5. Resource Conservation and Recovery Act, Subtitle D (RCRA-D) - Solid Waste
6. Resource Conservation and Recovery Act, Subtitle I (RCRA-I) - Petroleum, Oils, and Lubricants (POL) and Underground Storage Tanks (USTs)
7. Comprehensive Environmental Response, Compensation, and Liability Act/Superfund Amendments and Reauthorization Act (CERCLA/SARA)
8. Toxic Substances Control Act (TSCA)

9. Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)
10. National Historic Preservation Act (NHPA) and Cultural Resources
11. Endangered Species Act (ESA) and Natural Resources Management
12. National Environmental Policy Act (NEPA)
13. Asbestos Management Program
14. Noise Abatement
15. Radon Program
16. Environmental Program Management (EPM)
17. Hazardous Materials Management (HMM).

ECAS seeks to attain the goals of the Federal Facilities Compliance Act by consolidating the complex body of Federal, state, local, DoD, and U.S. Army environmental regulations into a comprehensive checklist process, which is documented in the U.S. Army Reserve ECAS Manual (ECAAR). This manual is developed and maintained by the U.S. Army Construction Engineering Research Laboratory (USACERL) and provides environmental managers with a framework for understanding and complying with environmental laws, regulations, and directives, and establishes Army-wide standards for conducting ECAS assessments. The manual also serves as a training tool to raise the level of awareness in U.S. Army Reserve personnel who are responsible for activities that could adversely impact the environment.

The assessment at Lycoming Memorial USARC was conducted in accordance with the regulatory guidelines provided in the September 1993 version of the ECAAR, and the applicable State of Pennsylvania and local county regulations in effect at the time of the assessment. The state and local supplement to the ECAS manual was developed by Science Applications International Corporation (SAIC) specifically for the Lycoming Memorial USARC assessment to address state and local laws that were more stringent than Federal regulations.

This Final Environmental Compliance Assessment Report (ECAR) constitutes the results of the ECAS assessment of Lycoming Memorial USARC. Current directives require that the same process be repeated internally by the reserve center at the mid-point of this external assessment and the next external assessment, which is planned to occur in 4 years. The result

of this process is the identification of corrective actions through the A-106 Pollution Abatement Plan/RCS 1383 reporting process.

2.2 SCOPE AND APPROACH

A two-member team of environmental professionals from SAIC assessed environmental compliance at the Lycoming Memorial USARC on January 27, 1994. These services were provided by SAIC under contract to the U.S. Army Environmental Engineer District (USAED), Baltimore.

The scope of the field assessment involved observing USARC activities against each of the 17 ECAS protocol areas. The onsite visit for Lycoming Memorial USARC included the following basic steps:

- ***Previsit Questionnaire***—A previsit questionnaire was completed by the reserve center prior to the ECAS assessment to familiarize the SAIC team members with the center and its operations, facilitate the team's review of the applicable regulations, and prepare a detailed assessment schedule.
- ***Review of Documentation***—The team members reviewed the USARC's existing environmentally related documentation, including, but not limited to, permits, waste disposal logs, previous audits/inspection reports, training reports, oil discharge contingency plans, inventory of polychlorinated biphenyls (PCB) transformers and electrical equipment, inventory of USTs, maintenance records, wastewater monitoring reports, and inspection reports concerning hazardous waste accumulation points.
- ***Reserve Center In-Briefing***—Prior to conducting the assessment, the team members met with the designated facility contacts to describe the objectives of the assessment and encourage an open exchange of information.
- ***Interviews with Reserve Center Personnel***—The team members asked appropriate personnel questions about how they conduct their operations in order to identify areas where problems could occur. This information provided a basis to answer specific questions that pertained to compliance issues specific to each area of the facility.
- ***Reserve Center Tour***—The team members conducted a thorough inspection of the center, guided by personnel who were asked additional questions about the conditions observed during the tour.
- ***Assembly of Findings***—The team members met privately at the end of the day to discuss observations and prepare the preliminary finding sheets.

- ***Finding Sheets***—After the facility visit, the team members compiled and entered the findings into the ECAS Version 1.1 Software to assist in the generation of this report. Finding sheets generated by this program are presented in Sections 3 and 4 of this report.
- ***Reserve Center Out-Briefing***—A Final Out-Briefing was presented to the facility manager and center representatives at the end of the assessment, summarizing all major noncompliance issues.

2.3 FACILITY DESCRIPTION

The Lycoming Memorial USARC is a facility under the direction of the 79th U.S. Army Reserve Command (ARCOM). Located in Williamsport, Pennsylvania, the Lycoming Memorial USARC consists of two buildings: an administrative building and a organizational maintenance shop (OMS). The Lycoming Memorial USARC is the administrative training facility for 100 infantry, 70 maintenance, and 65 support personnel. Minor maintenance is performed at this facility.

2.4 FACILITY ENVIRONMENTAL MANAGEMENT STRUCTURE

The 79th ARCOM, located at Willow Grove Naval Air Station, Pennsylvania, is the command control headquarters, and Fort Indiantown Gap (FIG), located in Annville, Pennsylvania, is the support installation for the Lycoming Memorial USARC. The facility manager of the Lycoming Memorial USARC is responsible for the day to day management of the environmental programs at the USARC and receives guidance and support on environmental issues from the 79th ARCOM Engineer Division and the FIG Environmental Office.

2.5 ACTIVITY REVIEW

Personnel at Lycoming Memorial USARC were interviewed, records were reviewed, and operations were assessed as they related to the following activities:

- Facility Management Office
- Boiler Room
- Supply/Storage Areas
- Military Equipment Park (MEP)

- OMS
- Flammable Storage Areas.

2.6 ECAS PROJECT TEAM

SAIC has conducted more than 2,000 multi-media environmental assessments at Federal facilities and industrial plants worldwide. The SAIC project team for the assessment conducted at Lycoming Memorial USARC was chosen to provide a mix of experience that addressed all protocol areas. The team consisted of Team Leader, Ms. Paige Dillon, and team member Mr. Chris Fontana. Each team member is required to complete ECAS assessment training and instruction, and have prior experience conducting ECAS assessments at Army installations and reserve centers. The project responsibilities, educational background, and regulation protocol experience for each team member are provided in Table 2-1.

Table 2-1. ECAS Project Team Experience

Name	Project Responsibilities	Educational Background	Regulations/Protocol Experience
Paige Dillon	Project Manager; Facility Assessor (QA/QC)	BS—Health Science	ECAS (Army, Army Reserve, Army National Guard), CWA, SDWA, RCRA-C, RCRA-D, NHPA, Radon, EPM, HMM, NEPA
Chris Fontana	Facility Assessor	BS—Biology MS—Environmental Pollution Control	ECAS (Army), CAA, CWA RCRA-C, RCRA-I, ESA and Natural Resources, Asbestos Management, Noise, HMM

2.7 SUMMARY OF INDIVIDUAL FINDINGS

During the assessment, individual findings were identified, reviewed, and evaluated by the team members. A summary of the findings was presented during the Final Out-Briefing to Lycoming Memorial USARC personnel, which was held following the assessment on January 27, 1994. The ECAS team members identified 24 negative and 2 positive findings at the USARC. The individual finding forms related to these findings are presented in Sections 3 and 4 of this report.

2.8 CONCLUSIONS AND RECOMMENDATIONS

2.8.1 Conclusions

Findings at Lycoming Memorial USARC identified insufficient documentation for several plans required for the facility, including the Spill Prevention, Control, and Countermeasure (SPCC), Installation Spill Contingency (ISC), and Stormwater Pollution Plans. In addition, the facility had not conducted an endangered and threatened species survey, a stormwater permit study, and an air emissions inventory. The assessment also identified deficiencies in the hazardous materials management program and improper labeling of flammable storage cabinets/containers.

2.8.2 Recommendations

Lycoming Memorial USARC should update all required plans, documentation, surveys, and inventories required for the facility. Backflow preventors are recommended for five areas of the Boiler Room. A recycling program needs to be implemented at the center, as required by the local municipality.

SECTION 3

REGULATORY COMPLIANCE FINDINGS

THIS PAGE INTENTIONLLY LEFT BLANK

3. REGULATORY COMPLIANCE FINDINGS

This section describes all regulatory findings (Federal, state, or local) identified during the assessment at Lycoming Memorial U.S. Army Reserve Center (USARC) and offers corrective actions for each. The findings are categorized by Environmental Compliance Assessment System (ECAS) Manual section number and as environmental or health and safety (HS) findings. Environmental findings are further categorized as Class I, II, or III findings for input into the RCS 1383 system.

Regulatory findings/corrective actions (Class I, II, and regulatory HS) are detailed in this section. Management practices or Class III findings are listed in Section 4 of this report. HS findings are categorized separately and included in both Section 3 (regulatory findings) and Section 4 (management practices findings).

The RCS 1383 classes of environmental deficiencies are defined below:

- ***Class I:*** Findings of immediate noncompliance with an environmental regulation, compliance agreement, consent order, or an existing notice of violation (NOV).
- ***Class II:*** Findings of future noncompliance with an environmental regulation, compliance agreement or consent order.
- ***Class III:*** Findings for which there are no specific Federal, state, or local regulatory requirements. These findings will include deviations from U.S. Army Regulations (ARs), U.S. Department of Defense (DoD) Directives, or other good management practices.

HS findings are generally based on the 29 Code of Federal Regulation (CFR) and are related to the Occupational Safety and Health Administration (OSHA), U.S. Department of Transportation (DOT), or National Fire Protection Association (NFPA) rules and/or regulations.

All ECAS protocol areas were evaluated as part of the assessment at Lycoming Memorial USARC. Environmental regulatory compliance findings were identified in the following protocol areas:

- Clean Water Act (CWA)
- Toxic Substances Control Act (TSCA)
- National Historic Preservation Act (NHPA) and Cultural Resources
- Hazardous Materials Management (HMM).

A summary of each ECAS protocol is provided in this section and includes an overview of the facilities investigated, areas and plans reviewed, and findings identified at the center.

CLEAN AIR ACT

No CAA findings were identified at Lycoming. Areas and activities at Lycoming Memorial USARC reviewed to assess compliance with the CAA requirements included:

- Air pollution sources (incinerators, boilers, and volatile organic compound [VOC] sources)
- Fugitive gaseous and particulate emissions
- Carbon monoxide emissions from mobile (vehicular) sources
- Air pollution source permits
- NOVs to regulatory authorities
- Emissions monitoring records
- Organizational Maintenance Shop (OMS)
- Facility Management Office records and documentation
- Plans and procedures applicable to air pollution control.

THIS PAGE INTENTIONALLY LEFT BLANK

CLEAN WATER ACT

Three Class I CWA findings were identified at the installation. Findings include insufficient Spill Prevention Control and Countermeasure (SPCC) and Installation Spill Contingency (ISC) Plans. In addition, the facility has not conducted a study to determine if a stormwater permit is required and the facility lacks a Stormwater Pollution Plan. Activities and areas at Lycoming Memorial USARC reviewed to assess compliance with the CWA requirements included:

- Facility Management Office records and documentation
- Stormwater discharge and outfalls
- Plans applicable to CWA regulations (SPCC and ISC Plans).

THIS PAGE INTENTIONALLY LEFT BLANK

2-5.1 I STATE CORRECTIVE ACTION CWA
MANUAL QUESTION NUMBER: 02-005 FINDING ID: 05
FINDING CATEGORY: CLASS I
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Drainage from the Military Equipment Park (MEP) could potentially discharge petroleum, oils, and lubricants (POL) to ground and surface water outside the Center's property. The facility has not completed a study to determine if a stormwater permit is required and does not have a Stormwater Pollution Plan.

CRITERIA: If proposing to discharge to surface waters of the state, the discharger must obtain a PADER NPDES permit. Part 1 authorizes discharges and establishes discharge limitations, monitoring requirements and compliance schedules. Part 2 regulates the construction of the project (25 PA Code 92.3).

FINDING COMMENTS: N/A

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Funds were Military Interdepartmental Purchase Request (MIPRed) to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to scope requirements to prepare Stormwater Pollution Prevention Plans (SWPPPs) at 32 USAR facilities in Pennsylvania, which includes Lycoming Memorial USARC.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 7700
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: During preparation of the SWPPP, a determination will be made as to whether or not a stormwater permit is required. Work is programmed to be accomplished in FY95.

2-57.1 I FEDERAL CORRECTIVE ACTION CWA
MANUAL QUESTION NUMBER: 02-057 FINDING ID: 02
FINDING CATEGORY: CLASS I
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The Spill Prevention, Control, and Countermeasures (SPCC) Plan does not contain the required information as stipulated in the regulation.

CRITERIA: The SPCC Plan is required to contain specific information. (40 CFR 112.7)

FINDING COMMENTS: The SPCC Plan does not have command approval, the location of facility drainage patterns; or an inventory of all storage, handling, and transfer facilities at the USARC that could produce a spill (i.e., storage cabinets/areas with flammable and combustible materials).

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Funds were MIPRed to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to scope requirements to prepare SPCC/ISC Plans at 32 USAR facilities in Pennsylvania, which includes Lycoming Memorial USARC.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 7700
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Work is programmed to be accomplished in FY95.

2-61.1 I FEDERAL CORRECTIVE ACTION CWA
MANUAL QUESTION NUMBER: 02-061 FINDING ID: 03
FINDING CATEGORY: CLASS I
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The SPCC Plan is not certified by a professional engineer.

CRITERIA: Each SPCC Plan and any amendments must be certified by a professional engineer and the plan and each amendments must be prepared according to sound engineering practices. (40 CFR 112.3(d) and 112.5(c))

FINDING COMMENTS: Once the SPCC Plan is complete and meets applicable requirements, the plan must be certified by a professional engineer.

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Plan will be certified by a professional engineer. Funds were MIPRed to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to scope requirements to prepare SPCC/ISC Plans at 32 USAR facilities in Pennsylvania, which includes Lycoming Memorial USARC.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Work is programmed to be accomplished in FY95. Cost is included in Finding 2-57.1.

THIS PAGE INTENTIONALLY LEFT BLANK

SAFE DRINKING WATER ACT

No SDWA findings were identified at the facility. Areas and activities at Lycoming Memorial USARC reviewed to assess compliance with the SDWA requirements included:

- Facility Management Office records and documentation
- Administrative Area
- Maintenance Area.

THIS PAGE INTENTIONALLY LEFT BLANK

RESOURCE CONSERVATION AND RECOVERY ACT, SUBTITLE C

No RCRA-C findings were identified at the facility. Areas and activities at Lycoming Memorial USARC reviewed to assess compliance with the RCRA-C requirements included:

- Supply Storage Rooms
- Military Equipment Park (MEP)
- Facility Management Office records and documentation
- Flammable Storage Containers
- OMS.

THIS PAGE INTENTIONALLY LEFT BLANK

RESOURCE CONSERVATION AND RECOVERY ACT, SUBTITLE D

No RCRA-D findings were identified at the facility. Areas and activities at Lycoming Memorial USARC reviewed to assess compliance with the RCRA-D requirements included:

- Administrative Area
- Facility Management Office records and documentation
- Solid waste receptacles
- OMS.

THIS PAGE INTENTIONALLY LEFT BLANK

RESOURCE CONSERVATION AND RECOVERY ACT, SUBTITLE I

No RCRA-I findings were identified at Lycoming Memorial USARC. Areas and activities reviewed at the facility to assess compliance with the RCRA-I requirements included:

- MEP
- Facility Management Office records and documentation.

THIS PAGE INTENTIONALLY LEFT BLANK

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT

No CERCLA findings were identified at the facility. Areas and activities reviewed at Lycoming Memorial USARC to assess compliance with the CERCLA requirements included:

- Facility Management Office records and documentation
- Spill reports
- Hazardous material inventory.

THIS PAGE INTENTIONALLY LEFT BLANK

TOXIC SUBSTANCES CONTROL ACT

One Class I TSCA finding was identified at Lycoming Memorial USARC. An unidentified capacitor was located outside the main building. Areas and activities reviewed at the facility to assess compliance with the TSCA requirements included:

- Administrative Area
- Facility Management Office records and documents.

THIS PAGE INTENTIONALLY LEFT BLANK

8-6.1 I FEDERAL CORRECTIVE ACTION TSCA
MANUAL QUESTION NUMBER: 08-006 FINDING ID: 013
FINDING CATEGORY: CLASS I
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: A capacitor attached to a pole was located southeast of the main building of the Lycoming Center. It could not be determined if the pole was marked containing PCBs, nor was it determined who was responsible for the pole.

CRITERIA: Certain equipment that contains PCBs must be marked with an M Marking (40 CFR 761.40 and 761.45).

FINDING COMMENTS: The pole is located on the Lycoming Center property. Servicing of the pole has been conducted by another party.

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Funds were MIPRed to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to perform PCB surveys at 32 USAR facilities in Pennsylvania, which includes Lycoming Memorial USARC.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 7600
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Work is programmed to be accomplished by Army Environmental Hygiene Agency (AEHA) in FY95.

THIS PAGE INTENTIONALLY LEFT BLANK

FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT

No FIFRA findings were identified at the facility. Areas and activities reviewed at Lycoming Memorial USARC to assess compliance with the FIFRA requirements included:

- Facility Management Office records and documentation.

THIS PAGE INTENTIONALLY LEFT BLANK

NATIONAL HISTORIC PRESERVATION ACT AND CULTURAL RESOURCES

One Class I NHPA finding was identified at the facility. The Lycoming Memorial USARC has not implemented a NHPA program, which is required unless an exemption is obtained from DA Headquarters. Areas and activities reviewed at the facility to assess compliance with the NHPA requirements included:

- Facility Management Office records and documentation
- Plans applicable to NHPA regulations.

THIS PAGE INTENTIONALLY LEFT BLANK

10-6.1 I FEDERAL CORRECTIVE ACTION NHPA
MANUAL QUESTION NUMBER: 10-006 FINDING ID: 014
FINDING CATEGORY: CLASS I
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The Lycoming Memorial USARC does not have a program for the identification, evaluation, or nomination to the National Register of Historic Places.

CRITERIA: Unless exempted, facility must have a program for the identification, evaluation, or nomination to the National Register of Historic places, and protection of historic properties (NHPA 110(a)(2)).

FINDING COMMENTS: The 79th ARCOM is conducting a facility-wide CRMP.

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Funds were MIPRed to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to prepare Cultural Resource Management Plans (CRMPs) at 32 USAR facilities in Pennsylvania, which includes Lycoming Memorial USARC.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 4700
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Contract has been awarded for work to be accomplished in FY95.

THIS PAGE INTENTIONALLY LEFT BLANK

ENDANGERED SPECIES ACT AND NATURAL RESOURCES MANAGEMENT

No ESA findings were identified at Lycoming Memorial USARC. Areas and activities reviewed at the installation to assess compliance with the ESA requirements included:

- Facility Management Office records and documentation.

THIS PAGE INTENTIONALLY LEFT BLANK

NATIONAL ENVIRONMENTAL POLICY ACT

No NEPA findings were identified at Lycoming Memorial USARC. Areas and activities reviewed at the installation to assess compliance with the NEPA requirements included:

- Facility Management Office records and documentation
- Environmental Assessments (EAs)
- Environmental Impact Statements (EISs)
- Records of Decision (RODs)
- Categorical Exclusions (CXs).

THIS PAGE INTENTIONALLY LEFT BLANK

ASBESTOS MANAGEMENT PROGRAM

No asbestos findings were identified at Lycoming Memorial USARC. Areas and activities reviewed at the installation to assess compliance with the asbestos requirements included:

- Facility Management Office records and documentation
- Plans applicable to asbestos management.

THIS PAGE INTENTIONALLY LEFT BLANK

NOISE ABATEMENT

No Class I, II, or health and safety noise findings were identified at the facility. Areas and activities reviewed at Lycoming Memorial USARC to assess compliance with the noise requirements included:

- OMS
- MEP
- Facility Management Office records and documentation.

THIS PAGE INTENTIONALLY LEFT BLANK

RADON PROGRAM

No radon findings were identified at the facility. Areas and activities reviewed at Lycoming Memorial USARC to assess compliance with the radon requirements included:

- Facility Management Office records and documentation
- Annual radon reports.

THIS PAGE INTENTIONALLY LEFT BLANK

ENVIRONMENTAL PROGRAM MANAGEMENT

No environmental program management findings were identified at Lycoming Memorial USARC. The Environmental Coordinator is extremely active in the involvement of environmental issues and compliance at the installation. The environmental staff has established a positive working relationship with Federal, state, and Army agencies to ensure environmental compliance maintenance. Areas and activities reviewed at Lycoming Memorial USARC to assess compliance with the environmental program requirements and regulations included:

- Facility Management Office records and documentation
- Environmental agreements
- 1383 reports.

THIS PAGE INTENTIONALLY LEFT BLANK

HAZARDOUS MATERIALS MANAGEMENT

Two health and safety hazardous materials management findings were identified at Lycoming Memorial USARC. Chemical supplies were not labeled as flammable and Material Safety Data Sheets (MSDSs) were not accessible.

Areas and activities reviewed at Lycoming Memorial USARC to assess compliance with hazardous materials management included:

- Administrative Area
- OMS
- Supply Storage Rooms
- Flammable Storage Containers.

THIS PAGE INTENTIONALLY LEFT BLANK

17-12.1 HS FEDERAL CORRECTIVE ACTION HAZMAT
MANUAL QUESTION NUMBER: 17-012 FINDING ID: 026
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Chemicals were being stored in the supply areas and in the OMS and Material Safety Data Sheets (MSDSs) were not accessible.

CRITERIA: Facilities are required to have on file a Material Safety Data Sheet (MSDS) for each hazardous chemical stored and used at the facility (29 CFR 1910.1200(b)(3)(ii).

FINDING COMMENTS: N/A

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: The Fort Indiantown Gap (FIG) Safety Office has been contacted and MSDSs have been requested. MSDSs will be maintained on file once received from FIG.

CORRECTIVE ACTION TYPE: EQUIPMENT PROCUREMENT OR CHANGE
DATE PROBLEM WILL BE CORRECTED: / COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: MSDSs can be obtained in the following ways: (1) the supply sergeant can request missing MSDSs from the manufacturer of the product; (2) the supply sergeant can contact the FIG Safety Office and additional assistance can be obtained through the FIG Department of Engineering and Housing (DEH), Environmental Office and through Headquarters (HQ), 79th ARCOM, Engineer Division. This is a Unit/Center Commander/Facility Manager/Environmental Coordinator responsibility to implement and maintain.

17-16.1 HS FEDERAL CORRECTIVE ACTION HAZMAT
MANUAL QUESTION NUMBER: 17-016 FINDING ID: 024
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: "Flammable - Keep Fire Away" signs were not present on any of the flammable material containers in the MEP.

CRITERIA: Storage cabinets used for the storage of flammable/ combustible liquids must meet specific requirements (29 CFR 1910.106(d)(3)).

FINDING COMMENTS: N/A

STATUS OF CORRECTION: COMPLETE
CORRECTIVE ACTION: Signs were acquired from the Self Service Supply Store Center (SSSC) store and posted at the MEP where necessary.

CORRECTIVE ACTION TYPE: EQUIPMENT PROCUREMENT OR CHANGE
DATE PROBLEM WILL BE CORRECTED: 03/1994 COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Center/Unit Supply Sergeant should be able to obtain needed signs at the FIG SSSC store. If required signs are not stocked and cannot be ordered by the SSSC store, Unit should coordinate with the FIG Safety Office for assistance. If above efforts are unsuccessful, the Facility Manager should prepare a Memorandum for the Record (MFR), which outlines specific needs with justification and submit to HQs, 79th ARCOM Logistic Division.

SECTION 4

MANAGEMENT PRACTICES FINDINGS

THIS PAGE INTENTIONALLY LEFT BLANK

4. MANAGEMENT PRACTICES FINDINGS

This section describes all management practices (nonregulatory) findings identified during the assessment at Lycoming Memorial U.S. Army Reserve Center (USARC) and offers single or alternative corrective actions for each. Environmental and health and safety (HS) management practices findings, in addition to all positive findings, are detailed in this section.

All nonregulatory environmental findings are categorized as Class III findings and include deviations from U.S. Army Regulations (ARs), U.S. Department of Defense (DoD) Directives, or any other good management practices. Class III findings are not governed by regulatory requirements. The numbering system used in this section parallels that used in Section 3.

All Environmental Compliance Assessment System (ECAS) protocol areas and applicable installation facilities were evaluated as part of the assessment at Lycoming Memorial USARC. Management practices findings were identified in the following protocol areas:

- Clean Air Act (CAA)
- Clean Water Act (CWA)
- Safe Drinking Water Act (SDWA)
- Resource Conservation and Recovery Act, Subtitle C (RCRA-C)
- Resource Conservation and Recovery Act, Subtitle D (RCRA-D)
- Comprehensive Environmental Response, Compensation, and Liability Act/Superfund Amendments and Reauthorization Act (CERCLA/SARA)
- Endangered Species Act (ESA) and Natural Resources
- Asbestos Management Program
- Noise Abatement
- Hazardous Materials Management (HMM).

A summary of the above protocol areas is provided in this section that includes the facilities investigated, areas and plans reviewed, and findings identified at Lycoming Memorial USARC.

THIS PAGE INTENTIONALLY LEFT BLANK

CLEAN AIR ACT

A Class III clean air finding was identified at Lycoming Memorial USARC. Lycoming Memorial USARC lacks an air emissions inventory for the facility. Areas and activities at Lycoming Memorial USARC reviewed to assess compliance with CAA regulations included:

- Air pollution sources (incinerators, boilers, and volatile organic compound [VOC] sources)
- Fugitive gaseous and particulate emissions
- Carbon monoxide emissions from mobile (vehicular) sources
- Air pollution source permits
- Notices of violations (NOVs) to regulatory authorities
- Emissions monitoring records
- Organizational Maintenance Shop (OMS)
- Environmental Office records and documentation
- Plans and procedures applicable to air pollution control.

THIS PAGE INTENTIONALLY LEFT BLANK

1-6.1 III ARMY/DOD CORRECTIVE ACTION CAA
MANUAL QUESTION NUMBER: 01-006 FINDING ID: 01
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: It was determined during the assessment that an air emissions inventory has not been completed at the Lycoming Center.

CRITERIA: Preventive Medicine personnel at each installation are required to conduct and maintain an up-to-date emissions inventory listing all stationary sources of air pollution and inspect stationary air pollution sources periodically to assess compliance with applicable standards. (AR 40-5, para 11-4b and AR 200-1, para 1-25c(1))

FINDING COMMENTS: The Lycoming Center consists of two buildings, a main administrative building and vehicle maintenance building. A boiler room is located in the main administrative building. Vehicle maintenance is no longer conducted in the maintenance building; however, flammable and combustible materials are stored at this location.

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Funds were MIPRed to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to prepare a plan of study/detailed cost estimate for Air Emissions Inventory/Surveys at 32 USAR facilities in Pennsylvania, which includes Lycoming Memorial USARC.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 7400
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Work is programmed to be accomplished by Army Environmental Hygiene Agency (AEHA) in FY95.

THIS PAGE INTENTIONALLY LEFT BLANK

CLEAN WATER ACT

Two Class III CWA findings were identified at the facility. Findings include lack of an Installation Spill Contingency (ISC) Plan. In addition, the Installation On-Scene Coordinator (IOSC) needs yearly training. Activities and areas at Lycoming Memorial USARC reviewed to assess compliance with CWA included:

- Facility Management Office records and documentation
- Stormwater discharge and outfalls
- Plans applicable to CWA regulations (SPCC and ISC Plans).

THIS PAGE INTENTIONALLY LEFT BLANK

2-63.1 III ARMY/DOD CORRECTIVE ACTION CWA
MANUAL QUESTION NUMBER: 02-063 FINDING ID: 04
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The Lycoming Center does not have an Installation Spill Contingency (ISC) Plan to account for potential spills from vehicles in the Military Equipment Park (MEP).

CRITERIA: The installation must have an ISC Plan that addresses specific issues. (AR 200-1, para 8-5 through 8-5c)

FINDING COMMENTS: Although there are no aboveground or underground fuel storage tanks, there are vehicles and one fuel tanker truck (empty at the time of the assessment) in the Military Equipment Park (MEP).

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Funds were MIPRed to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to scope requirements to prepare SPCC/ISC Plans at 32 USAR facilities in Pennsylvania, which includes Lycoming Memorial USARC.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 7700
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Work is programmed to be accomplished in FY95.

2-68.1 III ARMY/DOD CORRECTIVE ACTION CWA
MANUAL QUESTION NUMBER: 02-068 FINDING ID: 06
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: No yearly training is conducted for the Installation On-Scene Coordinator (IOSC).

CRITERIA: Yearly training is required to test the effectiveness of ISC Plan personnel and equipment. (AR 200-1, para 5-4d(2))

FINDING COMMENTS: The facility manager is named in the SPCC Plan as the primary contact for spills. This individual should undergo some form of hazardous materials handling and operation training.

STATUS OF CORRECTION: COMPLETE
CORRECTIVE ACTION: The 79th ARCOM sponsored Logistics Support Activity (LOGSA) Packaging, Storage, and Containerization Center (PSCC) contracted Hazardous Material Training was held in Harrisburg, Pennsylvania for BASOPs facilities personnel during the periods of 12 through 14 July 1994 and 9 through 11 August 1994.

CORRECTIVE ACTION TYPE: TRAINING
DATE PROBLEM WILL BE CORRECTED: 08/1994 COST: 400
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Subject material included, but was not limited to: awareness familiarization, hazardous classification markings, etc. SMPT-5 course certificates were awarded to those students who successfully completed the course.

SAFE DRINKING WATER ACT

One Class III SDWA finding was identified at the facility. Lycoming Memorial USARC lacks backflow preventors in five areas of the Boiler Room. Areas and activities at Lycoming Memorial USARC reviewed to assess compliance with the SDWA requirements included:

- Administrative Area
- OMS
- Boiler Room.

THIS PAGE INTENTIONALLY LEFT BLANK

3-3.1 III ARMY/DOD CORRECTIVE ACTION SDWA
MANUAL QUESTION NUMBER: 03-003 FINDING ID: 07
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The Lycoming Center did not have backflow preventors in five areas (Boiler Room; 1 exterior and 4 interior hoses).

CRITERIA: Facilities are required to comply with all applicable state and local regulations. (AR 200-1; para 1-39a(3))

FINDING COMMENTS: N/A

STATUS OF CORRECTION: COMPLETE
CORRECTIVE ACTION: Thirteen vacuum breakers/backflow preventors were installed at Lycoming Memorial USARC/OMS in August 1994.

CORRECTIVE ACTION TYPE: EQUIPMENT PROCUREMENT OR CHANGE
DATE PROBLEM WILL BE CORRECTED: 08/1994 COST: 100
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: N/A

THIS PAGE INTENTIONALLY LEFT BLANK

RESOURCE CONSERVATION AND RECOVERY ACT, SUBTITLE C

Two Class III RCRA-C findings were identified at the facility. The facility does not have a hazardous waste management plan and has not prepared a hazardous waste inventory. Areas and activities at Lycoming Memorial USARC reviewed to assess compliance with the RCRA-C requirements included:

- Supply Storage Rooms
- Flammable Storage Containers
- MEP
- Facility Management Office records and documentation.

THIS PAGE INTENTIONALLY LEFT BLANK

4-6.1 III ARMY/DOD CORRECTIVE ACTION RCRA-C
MANUAL QUESTION NUMBER: 04-006 FINDING ID: 08
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Facility did not have a written hazardous waste management plan on file.

CRITERIA: Each facility will have a written hazardous waste management plan (AR 200-1, para. 6-4b).

FINDING COMMENTS: N/A

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Funds were MIPRed to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to scope requirements to prepare Waste/POL/Hazardous Waste Management Plans at 32 USAR facilities in Pennsylvania which includes Lycoming Memorial USARC. Work is programmed to be accomplished in FY95.

CORRECTIVE ACTION TYPE: TRAINING
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 7700
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: N/A

4-7.1 III ARMY/DOD CORRECTIVE ACTION RCRA-C
MANUAL QUESTION NUMBER: 04-007 FINDING ID: 09
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility has not prepared a hazardous waste inventory.

CRITERIA: Each facility will conduct an annual inventory of hazardous waste. (AR 200-1, para. 6-4c)

FINDING COMMENTS: The facility manager verified that hazardous wastes had been accumulated in a storage area and disposed of recently.

STATUS OF CORRECTION: COMPLETE
CORRECTIVE ACTION: An annual inventory of hazardous waste is incorporated into the Hazardous Materials Management Plan.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Cost is included with Finding 4-6.1.

RESOURCE CONSERVATION AND RECOVERY ACT, SUBTITLE D

Two Class III RCRA-D findings were identified at the facility. Lycoming Memorial USARC lacks a recycling program and does not regularly inspect waste receptacles for hazardous wastes. Areas and activities at Lycoming Memorial USARC reviewed to assess compliance with the RCRA-D requirements included:

- Administrative Area
- Facility Management Office records and documentation
- Solid waste receptacles
- OMS.

THIS PAGE INTENTIONALLY LEFT BLANK

5-0.1 III LOCAL CORRECTIVE ACTION RCRA-D
MANUAL QUESTION NUMBER: 05-000 FINDING ID: 005
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The Lycoming Center does not have a recycling program as required by Lycoming County.

CRITERIA: Municipal establishments shall separate and store, until collection, high grade office paper, corrugated paper and aluminum and other source separated recyclable materials which they may elect to recycle. These establishments shall arrange for the transfer of the materials at least once a month to a recycling system by a collector licensed by the City, for the purpose of collecting source separated recyclable materials. (Article 1152.04(a) Public Health Code)

FINDING COMMENTS: N/A

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Presently, Lycoming Memorial USARC is coordinating with the local community.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: / COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Facility Manager needs to coordinate with existing refuse contractor servicing Lycoming Memorial USARC to see if they can provide recycling service/containers. Submit request to the 79th ARCOM Engineer Division to modify refuse contract as required.

5-11.1 III GMP CORRECTIVE ACTION RCRA-D
MANUAL QUESTION NUMBER: 05-011 FINDING ID: 011
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING FACILITY
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: There is no record that Lycoming Memorial USARC's waste receptacles are being inspected on a quarterly basis for disposal of recyclable materials or hazardous wastes.

CRITERIA: Facility industrial shop waste receptacles should be inspected quarterly to verify that hazardous wastes are not being deposited (GMP).

FINDING COMMENTS: N/A

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Receptacles are being inspected quarterly for recyclable and hazardous materials. This is an ongoing effort.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: / COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Facility Manager needs to inspect all receptacles for recyclable or hazardous materials on a quarterly basis and prepare a MFR giving the date/time/person performing the inspection and results.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT

One Class III CERCLA finding was identified at the facility. Lycoming Memorial USARC has not screened for past use of hazardous substances, as required. Areas and activities at Lycoming Memorial USARC reviewed to assess compliance with the CERCLA requirements included:

- Facility Management Office records and documentation
- Spill reports
- Hazardous material inventory.

THIS PAGE INTENTIONALLY LEFT BLANK

7-6.1 III ARMY/DOD CORRECTIVE ACTION CERCLA-SARA
MANUAL QUESTION NUMBER: 07-006 FINDING ID: 012
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Lycoming Memorial USARC has not conducted a screening to determine if hazardous substances were used in the past.

CRITERIA: Screening for past use of hazardous substances and the potential for contamination will be conducted at all major Army facilities and subinstallations, and other properties controlled by the Army. (AR 200-1, para 9-7a)

FINDING COMMENTS: N/A

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: The facility was not included in the Army Environmental Center, formerly USATHAMA, CERCLA/SARA contract performed for the BASOPs Support Area. However, the Baltimore District USACE is overseeing several DERA funded projects to assess former practices.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1996 COST: 20000
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: The cost includes POL/fenceline survey and pit closure. Preliminary Assessment of Lycoming USARC was completed in December 1994 with a Finding of No Further Action Required or No Focused Site Investigation required. OMS service pit closure is currently under design with the construction contract expected to be awarded in FY95.

THIS PAGE INTENTIONALLY LEFT BLANK

ENDANGERED SPECIES ACT AND NATURAL RESOURCES MANAGEMENT

One Class III ESA finding was identified at Lycoming Memorial USARC. Lycoming Memorial USARC lacks an endangered and threatened species survey. Areas and activities reviewed at the installation to assess compliance with the ESA requirements included:

- Facility Management Office records and documentation.

THIS PAGE INTENTIONALLY LEFT BLANK

11-15.1 III ARMY/DOD CORRECTIVE ACTION ESA
MANUAL QUESTION NUMBER: 11-015 FINDING ID: 015
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Lycoming Memorial USARC is located in a hilly, wooded area, but has not conducted an endangered and threatened species survey.

CRITERIA: All facilities with Federally designated endangered and threatened species must carry out programs for their conservation (50 CFR 402, 402.01(a), 402.10, and 402.12).

FINDING COMMENTS: N/A

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: The 79th ARCOM has obtained funds through the Legacy Program to conduct surveys for threatened and endangered species in FY95. The Baltimore District USACE has been tasked with preparing a Natural Resource Management Plan commencing in FY94.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 4300
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Funds were MIPRed to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to scope requirements to prepare Natural Resource Management Plans (NRMP) at 32 USAR facilities in Pennsylvania which includes Lycoming Memorial USARC. Work is programmed to be accomplished in FY95. Cost is estimated per center.

THIS PAGE INTENTIONALLY LEFT BLANK

ASBESTOS MANAGEMENT PROGRAM

Two Class III asbestos findings were identified at Lycoming Memorial USARC. The facility lacks an asbestos survey and Asbestos Management Plan. Areas and activities reviewed at the installation to assess compliance with the asbestos requirements included:

- Facility Management Office records and documentation
- Plans applicable to asbestos management.

THIS PAGE INTENTIONALLY LEFT BLANK

13-6.1 III ARMY/DOD CORRECTIVE ACTION ASBESTOS
MANUAL QUESTION NUMBER: 13-006 FINDING ID: 016
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The Lycoming Center has not completed an asbestos survey of all structures. Floor tiles (9"x 9") showing deterioration were identified in the main building.

CRITERIA: Army Reserve Facilities are required to identify in detail and validate the existence, extent and condition of all Asbestos, friable and non friable in all structures prior to renovation (AR 200-1, para 10-2k).

FINDING COMMENTS: N/A

STATUS OF CORRECTION: COMPLETE
CORRECTIVE ACTION: An asbestos survey was performed in 1987, funded by FIG, by Biospherics, Inc., at the Lycoming Memorial USARC.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 12/1987 COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: The hazard assessment ranged from a Rating IV (very low in USARC) to Rating III (low to moderate in OMS).

13-7.1 III ARMY/DOD CORRECTIVE ACTION ASBESTOS
MANUAL QUESTION NUMBER: 13-007 FINDING ID: 017
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Lycoming Memorial USARC has not prepared an Asbestos Management Plan.

CRITERIA: Army Reserve facilities are required to prepare, coordinate and execute an Installation Asbestos Management Plan. (AR 200-1, para. 10-3)

FINDING COMMENTS: The 79th ARCOM may be conducting a facility-wide survey.

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: The Baltimore District USACE is to be tasked with preparation of Asbestos Surveys and Management Plans in future fiscal years.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1996 COST: 30000
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Work accomplishment will be based upon availability of funds.

NOISE ABATEMENT

One Class III noise finding was identified at the facility. The facility lacks an Installation Compatible Use Zone (ICUZ) study. Areas and activities reviewed at Lycoming Memorial USARC to assess compliance with the noise requirements included:

- OMS
- MEP
- Facility Management Office records and documentation.

THIS PAGE INTENTIONALLY LEFT BLANK

14-6.1 III ARMY/DOD CORRECTIVE ACTION NOISE
MANUAL QUESTION NUMBER: 14-006 FINDING ID: 018
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Lycoming Memorial USARC is located in a Commercial Zoning Area and a church is located across the street from the main administrative building. Lycoming Memorial USARC has not conducted an Installation Compatible Use Zone (ICUZ) study to identify and control noise.

CRITERIA: Facilities are required to conduct an ICUZ study as a part of the ICUZ Program to identify and control noise. (AR 200-1, par 7-2c, 7-2d and para 7-5a)

FINDING COMMENTS: The 79th ARCOM is conducting a facility-wide ICUZ study.

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: Funds were MIPRed to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to prepare ICUZ studies at 32 USAR facilities in Pennsylvania, which includes Lycoming Memorial USARC.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 2000
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Work is programmed to be accomplished by AEHA in FY95. Cost is approximated for each of the 32 USAR facilities including Lycoming.

THIS PAGE INTENTIONALLY LEFT BLANK

RADON PROGRAM

One positive radon finding was identified at the facility. Lycoming Memorial USARC tested for radon with positive results. Lycoming Memorial USARC lowered its readings of 22 pCi to 0.8 pCi. Areas and activities reviewed at Lycoming Memorial USARC to assess compliance with radon requirements included:

- Facility Management Office records and documentation
- Annual radon reports.

THIS PAGE INTENTIONALLY LEFT BLANK

15-0.1 POSITIVE GMP CORRECTIVE ACTION RADON
MANUAL QUESTION NUMBER: 15-000 FINDING ID: 019
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING FACILITY
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Lycoming Memorial USARC tested for radon with positive results. Mitigation is in effect; Lycoming Memorial USARC lowered its readings of 22 pCi to .8 pCi.

CRITERIA: Positive finding.

FINDING COMMENTS: N/A

STATUS OF CORRECTION: COMPLETE
CORRECTIVE ACTION:

CORRECTIVE ACTION TYPE:
DATE PROBLEM WILL BE CORRECTED: / COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS:

THIS PAGE INTENTIONALLY LEFT BLANK

ENVIRONMENTAL PROGRAM MANAGEMENT

One positive environmental program management finding was identified at Lycoming Memorial USARC. The facility has done as exemplary job in achieving environmental compliance. Areas and activities reviewed at Lycoming Memorial USARC to assess compliance with the environmental program requirements and regulations included:

- Facility Management Office records and documentation
- Environmental agreements
- 1383 reports.

THIS PAGE INTENTIONALLY LEFT BLANK

16-0.1 POSITIVE GMP CORRECTIVE ACTION ENV PROGRAM
MANUAL QUESTION NUMBER: 16-000 FINDING ID: 020
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility has done an exemplary job in performing the required environmental compliance activities.

CRITERIA: Positive finding.

FINDING COMMENTS: N/A

STATUS OF CORRECTION: COMPLETE
CORRECTIVE ACTION:

CORRECTIVE ACTION TYPE:
DATE PROBLEM WILL BE CORRECTED: / COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS:

THIS PAGE INTENTIONALLY LEFT BLANK

HAZARDOUS MATERIALS MANAGEMENT

Four hazardous materials management findings were identified at Lycoming Memorial USARC. The spill kits were not located on an easily accessible area and a master listing of all hazardous substances was not maintained at the facility. The personnel at the facility have not received hazardous materials training and flammable storage cabinets were improperly ventilated.

The areas and activities reviewed at Lycoming Memorial USARC to assess compliance with hazardous materials management included:

- Administrative Area
- OMS
- MEP
- Supply Storage Rooms
- Flammable Storage Containers.

THIS PAGE INTENTIONALLY LEFT BLANK

17-0.1 HS GMP CORRECTIVE ACTION HAZMAT
MANUAL QUESTION NUMBER: 17-000 FINDING ID: 025
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(AB) - U.S. ARMY RESERVE CENTER - ADJ BLDG

FINDING DESCRIPTION: The vents for the flammable storage cabinets inside the OMS were closed. When the doors were opened strong fumes were emitted.

CRITERIA: Good management practice (GMP)

FINDING COMMENTS: N/A

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: If flammable storage cabinets are defective and cannot be repaired, then new UL approved cabinets can be ordered through unit supply channels.

CORRECTIVE ACTION TYPE: EQUIPMENT PROCUREMENT OR CHANGE
DATE PROBLEM WILL BE CORRECTED: / COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: GMPs are the responsibility of the Unit/Center Commander/Facility Manager/Environmental Coordinator to implement and maintain.

17-0.1 III GMP CORRECTIVE ACTION HAZMAT
MANUAL QUESTION NUMBER: 17-000 FINDING ID: 021
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Spill kits were located in the basement of the main building, in a locked, fenced area. If a spill were to occur, these kits would not be easily accessible.

CRITERIA: GMP

FINDING COMMENTS: N/A

STATUS OF CORRECTION: COMPLETE
CORRECTIVE ACTION: Facility Manager has relocated spill kits to the MEP. Storage containers have been ordered to hold spill kits and will be kept unlocked and in clear view.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 03/1994 COST: 1000
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Facility Manager/Environmental Coordinator needs to relocate spill kit to an accessible (unlocked) area and inform spill response personnel.

17-6.1 III ARMY/DOD CORRECTIVE ACTION HAZMAT
MANUAL QUESTION NUMBER: 17-006-0 FINDING ID: 022
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: A master listing of all hazardous substances was not maintained at the facility.

CRITERIA: A master listing of all hazardous substances at handling, storage, and transfer facilities is required as a part of the SPCC plan. (AR 200-1, para 8-4b (4)

FINDING COMMENTS: N/A

STATUS OF CORRECTION: INITIATED/WORK REQUEST SUBMITTED
CORRECTIVE ACTION: A master listing of hazardous substances is currently being compiled and will be included in the SPCC Plan.

CORRECTIVE ACTION TYPE: CORRECTIVE PROJECT
DATE PROBLEM WILL BE CORRECTED: 09/1995 COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: This is a USARC Facility Manager/Environmental Coordinator's responsibility to prepare and maintain. If required, assistance can be obtained from the 79th ARCOM Engineer Division and/or FIG, Department of Public Works (DPW), Environmental Office. Funds were MIPRed to Baltimore District, COE, Planning Division, Environmental Resources Branch in December 1993 to scope requirements to prepare the SPCCP/ISCP at 32 USAR facilities in Pennsylvania which includes Lycoming Memorial USARC. Work is programmed to be accomplished in FY95.

17-8.1 HS ARMY/DOD CORRECTIVE ACTION HAZMAT
MANUAL QUESTION NUMBER: 17-008 FINDING ID: 027
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: 79TH ARCOM - LYCOMING CENTER
IFS FACILITY NUMBER: 1605
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Personnel at the Lycoming Center have not received hazardous materials training.

CRITERIA: Hazardous material management is to be considered an integral part of the Army Hazardous Waste Minimization Program. (AR 200-1, para 6-6b)

FINDING COMMENTS: N/A

STATUS OF CORRECTION: COMPLETE
CORRECTIVE ACTION: The 79th ARCOM sponsored Logistics Support Activity (LOGSA) Packaging, Storage, and Containerization Center (PSCC) contracted Hazardous Material Training was held in Harrisburg, Pennsylvania, for BASOPs facilities personnel during the period of 12-14 July 1994 and 9-11 August 1994.

CORRECTIVE ACTION TYPE: TRAINING
DATE PROBLEM WILL BE CORRECTED: 08/1994 COST: 0
1383 PROJECT NUMBER(S):

CORRECTIVE ACTION COMMENTS: Subject material included, but was not limited to: awareness familiarization, hazardous classification markings, etc. SMPT-5 course certificates were awarded to those students who successfully completed the course.

APPENDIX A

FORMAL RESPONSE DOCUMENTATION

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX A
FORMAL RESPONSE DOCUMENTATION

The Lycoming Memorial U.S. Army Reserve Center (USARC) did not require that any budgeting or programming forms be created as a result of the Environmental Compliance Assessment System (ECAS) assessment at the installation.

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX B

COST ESTIMATE ADDENDUM

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX B
COST ESTIMATE ADDENDUM

Cost estimates were not requested by the Lycoming Memorial U.S. Army Reserve Center (USARC) for any of the suggestive corrective actions.

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX C

ACRONYM GLOSSARY

THIS PAGE INTENTIONALLY LEFT BLANK

ACRONYM GLOSSARY

AAEMIS	Army Automated Environmental Management Information System
ACTS	Army Compliance Tracking System
AR	Army Regulation
ARCOM	U.S. Army Reserve Command
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COE	Corps of Engineers
CRMP	Cultural Resource Management Plan
CWA	Clean Water Act
CX	Categorical Exclusion
DERA	Defense Environmental Restoration Account
DFR	Draft Findings Report
DoD	U.S. Department of Defense
DOT	U.S. Department of Transportation
DRMO	Defense Reutilization and Marketing Office
EA	Environmental Assessment
ECAAR	Environmental Compliance Assessment Army Reserve (Protocol Manual)
ECAR	Environmental Compliance Assessment Report
ECAS	Environmental Compliance Assessment System
EHSC	Engineer Housing Support Center
EIS	Environmental Impact Statement
EPM	Environmental Program Management
ESA	Endangered Species Act
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FIG	Fort Indiantown Gap
GMP	Good Management Practice
HMM	Hazardous Materials Management
HS	Health and Safety
ICUZ	Installation Compatible Use Zone
IOSC	Installation On-Scene Coordinator

ISCP	Installation Spill Contingency Plan
LOGSA	Logistics Support Activity
MEP	Military Equipment Park
MFR	Memorandum For The Record
MIPR	Military Interdepartmental Purchase Request
MSDS	Material Safety Data Sheet
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NHPA	National Historic Preservation Act
NOV	Notice of Violation
OMS	Organizational Maintenance Shop
OSHA	Occupational Safety And Health Administration
PCB	Polychlorinated Biphenyl
POL	Petroleum, Oils, and Lubricant
PSCC	Packaging, Storage, and Containerization Center
RCRA	Resource Conservation and Recovery Act
ROD	Record of Decision
SAF	Subject to Availability of Funds
SAIC	Science Applications International Corporation
SARA	Superfund Amendments and Reauthorization Act
SDWA	Safe Drinking Water Act
SMPT-5	School of Military Packaging Technology
SPCCP	Spill Prevention, Control, and Countermeasure Plan
SSSC	Self Service Supply Center
TSCA	Toxic Substances Control Act
UL	Universal Laboratories
USAEC	U.S. Army Environmental Center
USAED	U.S. Army Engineer District
USARC	U.S. Army Reserve Center
USCOE	U.S. Army Corps of Engineers
UST	Underground Storage Tank
VOC	Volatile Organic Compound

US Army Corps
of Engineers
Baltimore District

79th Army Reserve Command
Cultural Resource Management Plan

Prepared for:	79th Army Reserve Command
Prepared under contract to:	U.S. Army Corps of Engineers, Baltimore District (Contract No. DACW31-89-D-0054) Delivery Order No. 32
Prepared by:	KFS Historic Preservation Group Kise Franks & Straw Inc. Philadelphia, Pennsylvania
In Association with:	Hunter Research, Inc. Trenton, New Jersey
	July 1995

IV. INVENTORY

A. Introduction

This chapter describes the process by which historic architectural resources and archeological site potential were identified and evaluated. Background research and site visits were conducted for each of the thirty-two facilities. The information derived from these tasks is presented on the facility data forms in Appendix C. Data entered on the forms include a research checklist of records examined, information on previous assessments, results of the current survey, and a summary description of the facility and its surroundings. The site visits were divided among three organizations: the Army Corps of Engineers, Baltimore District (ACOE), Hunter Research, Inc. (HRI), and Kise Franks & Straw (KFS).

B. Historic Architectural Resources

No historic architectural resources were identified at any of the thirty-two facilities. Facility construction dates range from 1951 to 1994. A large percentage of the facilities consist of two buildings, the reserve center and maintenance shop. Facility architecture is utilitarian, consisting of, for the most part, one and two-story rectangular brick and/or concrete block buildings with metal windows and built-up roofing. Architectural resources should be evaluated for the National Register when they attain fifty years of age.

Three of the facilities (Bristol, Edgemont, and Worcester) were established on the site of former Nike missile facilities. Most of the buildings and structures associated with the missile program were removed after the Nike program was terminated in the 1960s. In general, the only vestiges of the Nike tenancy at the facilities are underground storage silos, sewage treatment plants, and utility systems, such as sanitary sewer, storm sewer, electrical lines, water lines, and water well. In some instances, the storage silos have been converted to fire protection water storage or have been backfilled with building demolition debris. The large loss of buildings precludes these facilities from being considered significant as representatives of the Nike program. Nevertheless, the Pennsylvania SHPO only considers resources that are fifty years or older, thereby precluding resources related to the Cold War, such as the Nike missile program.[1]

Although there are no eligible or potentially eligible resources on the facilities, there are adjacent or surrounding resources, namely buildings and districts, that may fall within an undertaking's area of potential effects. Adjacent resources at Bellefonte, Edgemont, and Gettysburg were previously listed on the National Register of Historic Places. In the course of field survey for the preparation of this plan, potentially eligible resources were identified neighboring the Chester and Harrisburg facilities. Facility managers should be cognizant of these issues when planning an undertaking. The specific resources are the following:

Bellefonte: Bellefonte Armory, located east of the facility, is listed on the National Register of Historic Places (NRHP).

Chester: Bell Mansion, located northeast of the facility, appears potentially eligible for the NRHP.

---

[1]U.S. Department of Defense, Legacy Cold War Project, *Coming in from the Cold; Military Heritage in the Cold War* (Washington, 1994), 59.

Edgemont: Ridley Creek State Park Historic District, located south of the facility, is listed on the NRHP.

Gettysburg: Facility is located in the Gettysburg Historic District, listed on the NRHP.

Harrisburg: Facility is located in a residential district that appears potentially eligible for the NRHP.

C. Archeological Site Potential

Background research at the Bureau for Historic Preservation (BHP) in Harrisburg and pedestrian reconnaissance surveys of the thirty-two facilities revealed that eight of the facilities appear to have archeological site potential. Seven of the facilities are considered to have low archeological potential: Ashley, Edgemont, Gettysburg, Schuylkill Haven, State College, West Hazleton, Williamsport. Greencastle is considered to have high archeological potential. All of the facilities except Schuylkill Haven are considered to have prehistoric archeological potential. Schuylkill Haven, Greencastle and Gettysburg are considered to have historic archeological potential.

Phase 1b testing should be undertaken at facilities considered to have archeological site potential. The Phase 1b survey constitutes the next step in the determination of eligibility process. The Phase 1b results will determine if the specific location appears eligible for inclusion in the National Register of Historic Places. Appendix E contains archeological procedures for reference if archeological resources are discovered at any of the facilities, including those considered to have no potential.

The following summaries provide a fuller description of the nature of archeological potential at the facilities. The facilities are arranged by study units and references to quadrangle maps refer to archeological maps on file at the BHP.

Pennsylvania Study Unit I-- Piedmont and Coastal Plain:

Bristol: No archeological sites have been identified in the vicinity of the facility. A Phase I archeological survey (G on the U.S.G.S. Beverly quadrangle map) has been undertaken, and no archeological sites were found.

Chester: Survey records maintained by the Bureau for Historic Preservation in Harrisburg indicate that an archeological site (36DE30) containing 19th and 20th century artifacts is located near the facility.

Edgemont: Archeological site survey records maintained by the Bureau for Historic Preservation in Harrisburg indicate that three prehistoric sites in Delaware County (36DE15, 16 and 17) and two undefined sites in Chester County (36CH120 and 276) lie in the vicinity of the facility. The Delaware County sites yielded lithics and ceramics, the latter indicative of Woodland occupation. An 18th-century farmstead is located to the north of the facility. The facility is considered to have low archeological potential.

Germantown: Two archeological sites -- the Gardette Site (36PH50) and the Atwater Kent Factory Site (36PH51) -- are located in the vicinity of the facility.

Gettysburg: No archeological sites are known in the immediate vicinity, but an area of medium potential for prehistoric occupation was identified near wetlands in the southwest corner of the facility. Since the facility occupies a portion of the site of the Battle of

Gettysburg, the presence of Civil War artifacts within the property boundaries seems likely. The facility is considered to have low archeological potential.

Horsham: No archeological sites have been identified in the vicinity of the facility. An 18th-century structure stands to the south.

Lancaster: Archeological site survey records indicate that numerous prehistoric sites may be found in the vicinity of the facility. The sites (36LA421-423, 36LA655-680) are open-air loci yielding lithic artifacts.

Marcus Hook: No archeological sites have been identified in the vicinity of the facility. Since the entire site was constructed on fill placed along the Delaware River bank after 1870, no archeological sites are present within this fill. It should be noted, however, that deep excavations may encounter old river bottom with the potential for prehistoric and historic maritime artifacts.

Norristown: No archeological sites have been identified in the vicinity of the facility.

Willow Grove: No archeological sites have been identified in the vicinity of the facility.

Philadelphia (Woodhaven): No archeological sites have been identified in the vicinity of the facility.

Worcester: No archeological sites have been identified in the vicinity of the facility.

York: No archeological sites have been identified in the vicinity of the facility.

Pennsylvania Study Unit II-- Ridge and Valley:

Ashley: No archeological sites have been identified within the immediate vicinity of the facility. The presence of a wetland to the west of the facility suggests that evidence of prehistoric occupation could be found, but grading and filling throughout most of the facility have probably removed most of that potential. The facility is considered to have low archeological potential.

Bellefonte: No archeological sites have been identified in the immediate vicinity of the facility.

Bethlehem: No archeological sites have been identified in the vicinity of the Bethlehem facility.

Bloomsburg: No archeological sites have been identified in the vicinity of the facility. An archeological survey (D on the U.S.G.S. Bloomsburg quadrangle map) has been undertaken, but the report which described that survey was not available for study at the Bureau for Historic Preservation in Harrisburg.

Chambersburg: No archeological sites have been located in the vicinity of the facility.

Greencastle: A review of the Pennsylvania Archeological Site Survey files in Harrisburg indicates that numerous prehistoric sites (36FR205-222) may be found in the general vicinity of the facility. These sites date from the Early Archaic to the Late Woodland periods and have yielded lithic projectile points and other tools, ceramics, pipe fragments, a shell bead, and possibly human bone. The occupants of these sites utilized the local rhyolite outcrops for lithic raw material almost exclusively.

The northern fenced portion of the facility appears to be completely disturbed, but the southern wooded portion contains rhyolite outcrops, and one shovel test excavation yielded a prehistoric rhyolite flake. A surface scatter of historic artifacts is also present in the southern portion. The facility is considered to have high archeological potential.

Harrisburg: No archeological sites have been located in the vicinity of the facility.

Lewisburg: The Pennsylvania SHPO has previously determined the Lewisburg facility contained no archeological potential and did not warrant archeological survey (see Appendix B).

Lewistown: No archeological sites have been located in the immediate vicinity of the facility.

New Cumberland: One prehistoric archeological site is located north of the facility on the Susquehanna River. There are no archeological sites in the general vicinity of the reserve center.

Reading: The Pennsylvania SHPO has previously determined the Reading facility contained no archeological potential and did not warrant archeological survey (see Appendix B).

Schuylkill Haven: The facility is located on or near the site of a late 19th-early 20th century almshouse. The site of a cemetery associated with the almshouse is reportedly immediately beyond the western boundary fence of the facility. No archeological sites are indicated in the vicinity of the facility. The facility is considered to have low archeological potential.

Scranton: A series of prehistoric rock shelters (36LW008) are located in the general vicinity of the facility. No specific temporal affiliations were indicated in the Pennsylvania Archeological Site Survey files.

State College: Three prehistoric sites (36CE281, 336 and 337) are located in the immediate vicinity of the facility. The sites, ranging in date from Early to Late Archaic, contain jasper flakes and chert projectile points. The proximity of these sites suggests evidence of prehistoric occupation may have existed within the boundaries of the facility, although construction associated with the buildings and parking areas have resulted in a certain degree of disturbance. The facility is considered to have low archeological potential.

West Hazleton: Pennsylvania Archeological Site Survey records in Harrisburg record that a prehistoric shell midden with associated pottery indicative of Woodland occupation (36LU175) is located near the facility. A historic site related to a 19th-20th century building (36LU126) is also located in the vicinity. The facility is considered to have low archeological potential.

Wilkes-Barre (Highway 315): No archeological sites have been recorded for the immediate vicinity of the facility.

Wilkes-Barre (AMSA #32, 100 Stephens Road): No archeological sites have been recorded for the immediate vicinity of the facility.

Williamsport: No archeological sites have been reported for the vicinity of the facility. The proximity of Miller's Run Creek, which forms the northern and eastern boundary of the facility, suggests that evidence of prehistoric occupation may be found within the grounds of the facility. The facility is considered to have low archeological potential.

Pennsylvania Study Unit III-- Appalachian Plateau:

Lock Haven: The Pennsylvania SHPO has previously determined the Lock Haven facility contained no archeological potential and did not warrant archeological survey (see Appendix B).

AN INVENTORY OF SIGNIFICANT BIOLOGICAL RESOURCES AT U.S. ARMY RESERVE CENTERS IN CENTRAL AND EASTERN PENNSYLVANIA

for

Commander
U.S. Army Garrison
Fort Indiantown Gap Military Reservation
Annville, PA 17003-5011

by

Pennsylvania Science Office
The Nature Conservancy
34 Airport Drive
Middletown, PA 17057

1995

USARC LOCATION: Williamsport

ADDRESS: Lycoming Memorial USARC
1605 Four Mile Drive
Williamsport, PA 17701-1989

COUNTY: Lycoming

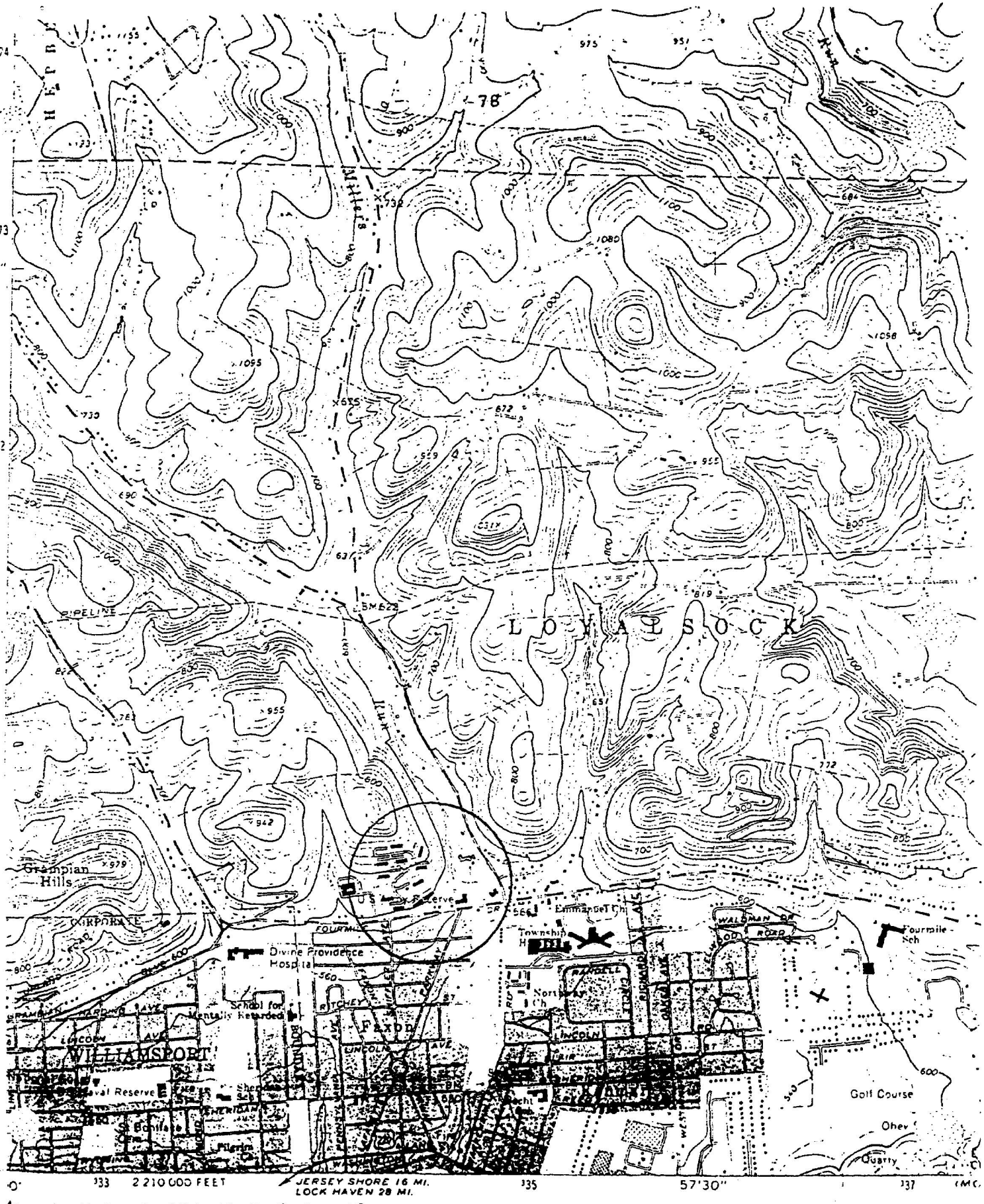
MUNICIPALITY: Loyalsock Township

U.S.G.S. QUADRANGLE: Montoursville North

DATE OF VISIT: 1994 June 9

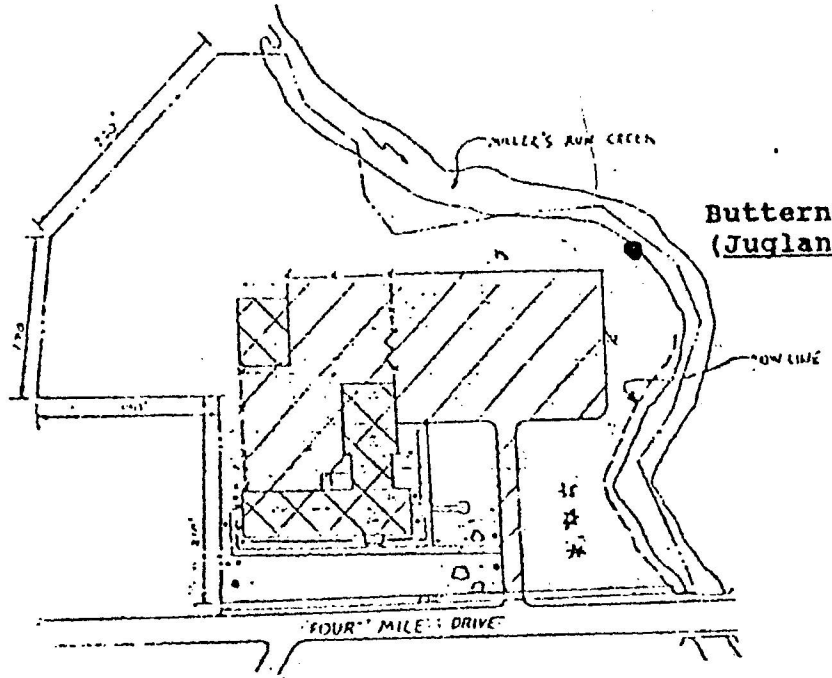
DESCRIPTION OF FACILITY: The facility consists of lawn, a weedy unmowed bank, a narrow strip of woods bordering a stream (Miller's Run Creek), a parking lot, and a building. It is situated in a residential and commercial area.

SIGNIFICANT BIOLOGICAL RESOURCES: No species of concern, natural communities, or wetlands were found. A very narrow zone of woodland occurs along Miller's Run Creek on the eastern perimeter of the facility (page 79). Although this woodland is small and of low quality in the opinion of the Pennsylvania Science Office of The Nature Conservancy, a healthy specimen of butternut (Juglans cinerea) was found here. This species appears to be declining (due to a fungus) throughout much of its range and is monitored by the Natural Heritage programs in several states. Although not currently tracked by PNDI, in the future the species may become a candidate for listing in Pennsylvania. We recommend that this tree and its streambank habitat be protected from future development and site modification.



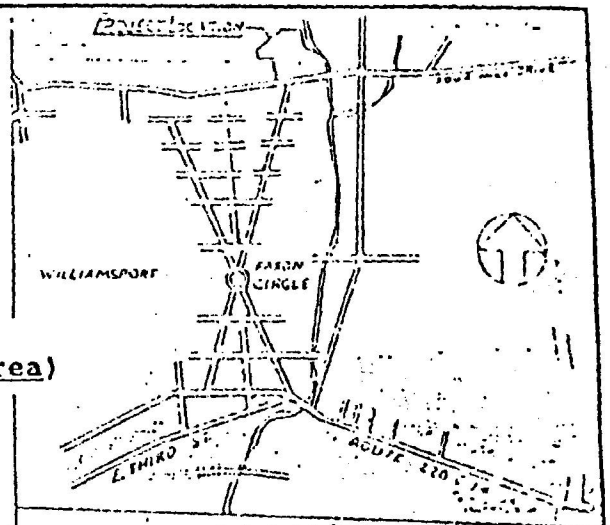
Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA



Butternut
(Juglans cinerea)

USARC WILLIAMSPORT
1605 FOUR MILE DR
WILLIAMSPORT, PA.



VICINITY MAP
USARC WILLIAMSPORT, PA.
SCALE 1" = NONE

79

LEGEND

- HEDGES, SHRUBS, BUSHES, TREES
- LIGHT POLE
- BUILDING (NIC)
- PAVEMENT (NIC)
- GRASS (TO BE MOWED)
- FENCE LINE (NIC)
- PROPERTY LINE
- (NIC) NOT IN CONTRACT

DFAE FT INDIANTOWN GAP, PA

GROUNDS MAINTENANCE

USARC WILLIAMSPORT, PA.

DWG. NO. AR-358 5JAN69

99 Regional Support Command

Customer Support Team #1 (Willow Grove)

Internal Environmental Compliance Assessment - Army Reserves

Lycoming Memorial USAR Center

1605 Four Mile Drive

Williamsport, Pennsylvania 17701-1989

Facility ID: PA148

11 July 1997

Definitions

Finding Categories:

Class I Findings:
Class I findings are areas in which the facility is currently out of compliance with a federal, state or local environmental law, regulation or ordinance.

Class II Findings:
Class II findings are areas in which the facility will be out of complaince with with a federal, state or local environmental law, regulation or ordinance within the next year.

Class III Findings:
Class II findings are areas where there are problems with management practices.

Health/Safety Findings:
Health and Safety findings are areas governed under the Occupational Safety and Health Act (OSHA), Department of Transportation (DOT) and National Fire Protection Act NFPA regulations.

Positive Findings:
Positive findings are not stressed under standard ECAS protocols. However, the 99th RSC CST #1 records Positive findings to document areas which meet current requirements.

Section I - Summaries

Executive Summary

This Internal Environmental Compliance Assessment - Army Reserves (Internal ECAAR) Report sumarizes findings generated from the site assessment performed on Friday, 11 July 1997. It was prepared by members of the 99th Regional Support Command (99th RSC), Customer Support Team #1 (CST #1) environmental staff based at the MG John Wurts USAR Center on NAS - JRB Willow Grove. The assessment was performed in accordance with the Army Environmental Compliance Assessment System (ECAS).

The prupose of the assessment is to indentify:

- environmental compliance problems to the chain-of-command
- projects requiring entry into the RISER work order data base
- areas in which the facility is in compliance with current environmental requirements

The assessment, report and ECAS data is intended for 99th RSC internal use. The assessment is reported to the United States Army Reserve Command (USARC) in the Army Compliance Tracking Syatem (ACTS) report, which is submitted quarterly. The assessment may also be reviewed by 416th Engineer Command (416th ENCOM) personnel during their Total Facility Assessments (TFAs).

The Internal ECAAR process reviews Army Reserve facility activities and conditions. It provides a "snapshot" of conditions at the time of the assessment. It is not a guarantee that a regulator will not find other compliance deficiencies. It identifies strengths and weaknesses of facility activities and conditions without the pressure of a regulatory inspection. ECAS is a proactive system that assesses environmental conditions in the following areas:

1. Air Emissions
2. Cultural Resources
3. Hazardous Materials
4. Hazardous Waste
5. Natural Resources
6. Environmental Impacts
7. Noise
8. Restoration
9. Pollution Prevention
10. Program Management
11. Pesticides
12. POL
13. Solid Waste
14. Storage Tanks
15. Polychlorinated Biphenyls
16. Asbestos
17. Radon
18. Lead Based Paint
19. Waste Water
20. Water Quality

Report Recommendations Summary:

The following recommendations are presented:

1. The facility plans to replace two CFC water coolers. Assure that the CFCs are properly disposed.
2. Although a PCB transformer survey indicates there are no regulated transformers at the facility, no assessment of capacitors or light ballasts has been performed. The facility coordinator indicated that they intend to perform a self-help lighting fixture replacement. It is strongly recommended that facility personnel contact CST #1 at (215) 443-1795 or 1667 prior to performing this project. The CST #1 environmental staff will identify PCB-containing ballasts which will require disposal.
3. An asbestos was performed in approximately 1987. However, this survey was not performed by an AHERA-certified inspector. This survey should be updated by an AHERA-certified inspector and an asbestos management plan provided accordingly.
4. Asbestos floor tile outside Room 201 is in poor condition, possibly due to building settlement. If this asbestos is repaired or removed during structural repairs, it must be disposed in accordance with applicable requirements.
5. Initial and long-term radon screening indicated concentrations of radon in excess of 4.0 pCi/l air. Radon mitigation was performed. However, there is no record of post-mitigation analysis at the facility. Obtain radon post-mitigation monitoring analysis from the 99th RSC CST #1.

Activity Review and Summary of Findings:

Summary of Findings Table

SECTION NO.	TITLE	REGULATORY 1	2	HS	MANAGEMENT POS	3	HS	TOTAL
A	Air Emissions	0	0	0	3	0	0	3
C	Cultural Resources	0	0	0	1	0	0	1
HM	Hazardous Materials	0	0	0	2	0	0	2
HW	Hazardous Waste	0	0	0	2	0	0	2
NR	Natural Resource	0	0	0	1	0	0	1
O1	Environmental Impacts	0	0	0	2	0	0	2
O2	Environmental Noise	0	0	0	1	0	0	1
O3	IRP	0	0	0	1	0	0	1
O4	Pollution Prevention	0	0	0	1	0	0	1
O5	Program Management	0	0	0	1	0	0	1
PM	Pesticide	0	0	0	1	0	0	1
PO	POL	0	0	0	1	0	0	1
SO	Solid Waste	0	0	0	1	0	0	1
ST	Storage Tanks	0	0	0	0	0	0	0
T1	PCB	0	0	0	0	1	0	1
T2	Asbestos	0	0	0	0	2	0	2
T3	Radon	0	0	0	0	1	0	1
T4	Lead Based Paint	0	0	0	1	0	0	1
WA	Wastewater	0	0	0	2	0	0	2
WQ	Water Quality	0	0	0	0	0	0	0
	TOTALS	0	0	0	21	4	0	25

Data File Name Prefix: C:\ECAS\PA148

Date Summary Report Produced: 07/17/97

Air Emissions

The following Air Emissions sources were reviewed:

- Natural gas-fueled heating system.
- CFC/Halon-containing items such as refrigerators, freezers, air conditioners and water coolers.

The following findings were recorded:

1. Actual air emissions were calculated for representative USAR facilities. No Clean Air Act permits are required.
2. A inventory of CFC/Halon equipment is maintained.
3. The facility coordinator plans to replace water coolers using mission funds. The old CFC water coolers will require CFC removal prior to disposal.

Cultural Resources

The following Cultural Resources areas were reviewed:

- Facility structures and grounds.

The following findings were recorded:

1. The facility maintains a Programmatic Cultural and Historic Resources Management Plan. There are no identified eligible resources at the facility.

Hazardous Materials

The following Hazardous Materials areas were reviewed:

- Reserve Center janatorial storage area.
- OMS cages and lockers.

The following findings were recorded:

1. There are Material Safety Data Sheets avaiable for hazardous materials (See Appendix _).
2. Hazardous materials are stored in accordance with requirements.

Hazardous Waste

The following Hazardous Waste areas were reviewed:

- Reserve Center janatorial storage area
- OMS cages and lockers.
- Reserve Center files.

The following findings were recorded:

1. The facility maintains a hazardous waste management plan.
2. The facility maintains copies of hazardous waste manifests for previously disposed items.

Natural Resources

The following Natural Resources areas were reviewed:
Facility grounds

The following findings were recorded:

1. The facility maintains a copy of a Programmatic Natural Resources Management Plan. This plan identifies a butternut tree on the property. The species is in decline, and the 99th RSC environmental staff should periodically determine if it has been added to the threatened or endangered species list.

Environmental Impacts

The following Environmental Impacts areas were reviewed:
- Facility records.

The following findings were recorded:
1. The facility maintains a copy of a Programmatic National Environmental Policy Act (NEPA) Environmental Assessment and Finding of No Significant Imapct (FONSI) for facility expansion, facility closure and performance of first-line maintenance in the OMS.
2. The facility maintains documentation of a Categorical Exclusion (CX) for relocation of elements of the 814th QM Co. from the Bloomsburg USAR Center to the Lycoming County USAR Center.

Noise

The following Noise areas were reviewed:
- MEP-stationed equipment.

The following findings were recorded:
1. The facility maintains a copy of a Programatic Noise Assessment of representative USAR facilities. The facility does not appear to pose a risk of generating noise in excess of standards.

Restoration

The following Restoration areas were reviewed:
- The DSERTS data base and Installation Action Plans (IAPs).

The following findings were recorded:
1. There are no projects at the site eligible for Restoration funding. There was a Preliminary Assessment at the facility which determined there was no evidence of past property line waste disposal.

Pollution Prevention

The following Pollution Prevention areas were reviewed:
- Facility hazardous materials storage areas.
- OMS hazardous maerials storage areas.
- Facility hazardous waste manifest records.

The following findings were recorded:
- Although the facility lacks a hazardous materials inventory, it does not maintain a supply of hazardous materials or POLs which require a Spill Prevention, Containment and Countermeasures (SPCC) Plan.

Program Management

The following Program Management areas were reviewed:
- Facility records.

The following findings were recorded:
1. The facility maintains copies of relevat reports and records.

Pesticides

The following Pesticides areas were reviewed:
- Reserve Center hazardous materials storage areas.
- OMS hazrdous maerials storage areas.
- Facility documents.

The following findings were recorded:
1. The Natural Resource Management Plan contains pesticide use procedures.

POL

The following Petroleum, Oil and Lubricant (POL) areas were reviewed:
- Reserve Center hazardous materials storage areas.
- OMS hazrdous maerials storage areas.

The following findings were recorded:
1. The facility maintains a minimal inventory of POL. The items maintained are used for vehicle fluid make-up. Oil change training is coordinated with and performed at the Lock Haven AMSA.

Solid Waste

The following Solid Waste areas were asessed:
- Facility contracts.
- Reserve Center and OMS dumpsters.
- Reserve Center and OMS recycling containers.

The following findings were recorded:
1. Solid waste is managed under contract. There is no current local recycling requirement.

Storage Tanks

The following Storage Tank areas were reviewed:
- Aboveground and Underground Storage Tanks.

There were no findings in this area.

Polychlorinated Biphenyls

The following Polyclhorinated Biphenyls areas were reviewed:
- Facility records.
- Reserve Center and OMS transformers.
- Reserve Center and OMS lighting
- Reserve Center and OMS capacitors

The following findings were recorded:
1. The facility has a record that there are no PCB transformers present. However, light ballasts and capacitors have not been assessed. There is also a plan to replace light fixtures via self-help. The facility should coordinate review of the fixture ballasts prior to performing this project to determine proper disposal.

Asbestos

The following Asbestos areas were reviewed:
Facility records.
Damaged Asbestos-containing floor tile.

The following findings were recorded:
1. There is an asbestos survey. However, the survey was not performed by an AHERA-certified inspector.
2. There is damaged asbestos-containiing floor tile outside of room 201. Proper disposal of this floor tile should be coordinated as a part of any floor/structural repair.

Radon

The following Radon areas were reviewed:
- Facility records.

The following findings were recorded:
1. The facility was found to contin radon in excess of 4.0 pCi/l air. Mitigation measures were implemented to reduce radon concentrations to below 4.0 pCi/l air, however, documentation of post-mitigation analysis is not available.

Lead Based Paint

The following Lead Based Paint areas were reviewed:

- Facility records.

The following findings were recorded:

1. The facility lacks a lead-based paint survey. However, it is not currently regulated for lead-based paint and will only require mitigation if it is to be excessed.

Waste Water

The following Waste Water areas were reviewed:

- Reserve Center and OMS sanitary, storm and floor drain plans.
- Oil/waer separator and wash rack usage practices and maintenance.

The following findings were recorded:

1. The facility is not covered under the definition of a "storm water discharge associated with an industrial activity."
2. The facility does not use detergents of solvents when cleaning vehicles on the wash rack.

Water Quality

The facility obtains water from the local public supplier.

There were no findings in this area.

Section II - Regulatory and Statutory Findings

There were neither regulatory nor statutory findings recorded during the Internal ECAAR.

Section III - Health/Safety and Management Practices and Policies.

This chapter describes Health/Safety issues regulated under the Occupational Safety and Health Act (OSHA) and the management practices followed by the facility. Bothe negative and positive findings are reported.

A.1.3 #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: A-001-003
FINDING ID: PA148-001
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility maintains a copy of a calculated air emissions statement. This statement is a programmatic assessment of facilities in eastern Pennsylvania, as coordinated by USACHPPM and the PADEP.

CRITERIA: Each installation/CW facility located in an ozone nonattainment area with stationary sources of NOx or VOCs is required to provide the state with a statement showing actual emissions of NOx and VOC from the sources (CAAA90, Section 182(a) (3)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

USACHPPM

U.S. Army Center for Health Promotion and Preventive Medicine
(Provisional)

AIR POLLUTION EMISSION STATEMENT NO. 43-21-3347-95
79TH U.S. ARMY RESERVE COMMAND
PENNSYLVANIA FACILITIES
WILLOW GROVE NAVAL AIR STATION, PENNSYLVANIA
24 APRIL - 5 MAY 1995

"Readiness Thru Health"

A.85.1.R #1 POSITIVE ARMY/DOD FINDING
MANUAL QUESTION NUMBER: A-085-001-R
FINDING ID: PA148-002
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility maintains a CFC / Halon equipment inventory.

CRITERIA: Facilities that procure and store CFCs and halons for mission critical applications when substitutes are not available, or use them to service equipment, are required to produce a quarterly summary of CFC and halon procurement so that the Army can submit the annual CFC and Halon Report to the Assistant Secretary of Defense (DODD 6050.9, para E3(f)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

Facility ID: PA148

Lycoming Memorial USAR Center

1605 Four Mile Drive

Williamsport

Pennsylvania 17701-1989

Equipment Type/Use: Ice Machine
Manufacturer: Scotsman
Model: CMP250AS-6D
Serial Number: 987109-06V
Electric Requirement: 120-1-60
Type of Refrigerant: R-502
Amount of Refrigerant (oz): 34
Station:
Age/ Condition: Good

Equipment Type/Use: Chiller
Manufacturer: Trane
Model: CGADC40G
Serial Number:
Electric Requirement: 230-3-60
Type of Refrigerant: R-22
Amount of Refrigerant (oz): 608
Station: Exterior Pad
Age/ Condition: Good

Equipment Type/Use: Water Cooler
Manufacturer: Westinghouse
Model: W-11D
Serial Number: 197011718
Electric Requirement: 120-1-60
Type of Refrigerant: R-12
Amount of Refrigerant (oz): 16
Station:
Age/ Condition: Good

Equipment Type/Use: FC
Manufacturer: Trane
Model: B23A003
Serial Number:
Electric Requirement: 120-1-60
Type of Refrigerant:
Amount of Refrigerant (oz): 0
Station:
Age/ Condition:

Equipment Type/Use: FC
Manufacturer: Trane
Model: B23A004
Serial Number:
Electric Requirement: 120-1-60

Type of Refrigerant:
Amount of Refrigerant (oz): 0
Station:
Age/ Condition:

Equipment Type/Use: FC
Manufacturer: Trane
Model: B23A006
Serial Number:
Electric Requirement: 120-1-60

Type of Refrigerant:
Amount of Refrigerant (oz): 0
Station:
Age/ Condition:

Equipment Type/Use: Chiller
Manufacturer: Trane
Model: CGADC40G
Serial Number: J89J81613
Electric Requirement: 230-3-60

Type of Refrigerant: R-22
Amount of Refrigerant (oz): 608
Station: Exterior Pad
Age/ Condition: Good

Equipment Type/Use: Water Cooler
Manufacturer: Westinghouse
Model: W-11D
Serial Number: WA116607
Electric Requirement: 120-1-60

Type of Refrigerant: R-12
Amount of Refrigerant (oz): 16
Station:
Age/ Condition: Out-of Service

Equipment Type/Use: Water Cooler
Manufacturer: Westinghouse
Model: W-11D
Serial Number: 197018653
Electric Requirement: 120-1-60

Type of Refrigerant: R-12
Amount of Refrigerant (oz): 16
Station:
Age/ Condition: Out-of Service

Equipment Type/Use: Refrigerator
Manufacturer: Continental
Model: 2R-SS
Serial Number: C9408890
Electric Requirement: 120-1-60

Type of Refrigerant: R-134A
Amount of Refrigerant (oz): 11
Station:
Age/ Condition: Good

Equipment Type/Use: Refrigerator
Manufacturer: McCall
Model: 1045
Serial Number: M-32537
Electric Requirement: 120-1-60

Type of Refrigerant: R-12
Amount of Refrigerant (oz): 32
Station:
Age/ Condition: Good

Equipment Type/Use: Dehumidifier
Manufacturer: Whirlpool
Model: AHA-015-20
Serial Number: E20512584
Electric Requirement: 120-1-60

Type of Refrigerant:
Amount of Refrigerant (oz): 0
Station:
Age/ Condition: Good

A.90.4 #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: A-090-004
FINDING ID: PA148-022
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility coordinator (FC) plans to purchase new water coolers using mission funds. The FC has identified water- and air-cooled systems which do not require refrigerants. The assessor informed the FC that when the old CFC-cooled systems are replaced, the FC will need to contact a certified local HVAC contractor to remove the CFCs prior to disposal.

CRITERIA: No person can open appliances, except MVACs, for maintenance, service, or repair, and no person can dispose of appliances, except for small appliances, MVAC, and MVAC-like appliances, unless specific requirements are met (40 CFR 82.154(b) and 82.156 (a)(5)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required. Assure that CFCs are removed from the water coolers prior to disposal.

C.5.1 #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: C-005-001
FINDING ID: PA148-003
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility maintains a copy of its Cultural / Historic Resources Management Plan. No significant resources were identified.

CRITERIA: All Federal agencies are required to establish a program to locate, inventory, and nominate to the SOI all properties under the agency's ownership or control that appear to qualify for inclusion on the National Register of Historic Places (36 CFR 60.9).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

US Army Corps
of Engineers
Baltimore District

79th Army Reserve Command
Cultural Resource Management Plan

Prepared for:	79th Army Reserve Command
Prepared under contract to:	U.S. Army Corps of Engineers, Baltimore District (Contract No. DACW31-89-D-0054) Delivery Order No. 32
Prepared by:	KFS Historic Preservation Group Kise Franks & Straw Inc. Philadelphia, Pennsylvania
In Association with:	Hunter Research, Inc. Trenton, New Jersey
	July 1995

HM.1.2.R #1 POSITIVE GMP FINDING
MANUAL QUESTION NUMBER: HM-001-002-R
FINDING ID: PA148-020
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE:

FINDING DESCRIPTION: The facility maintains copies of Material Safety Data Sheets.

CRITERIA: Management and organization of paperwork, materials, and personnel should be done in a manner that prevents noncompliance and recurrence of noncompliance, precludes/minimizes regulatory enforcement actions (including warning letters etc.), promotes good public relations, and addresses systemic weaknesses in the overall operation of the program (MP).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

HM.1.4 #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: HM-001-004
FINDING ID: PA148-019
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Hazardous materials are stored in accordance with requirements.

CRITERIA: Specific housekeeping requirements must be met in areas where hazardous materials are stored (29 CFR 1910.176(c)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

HW.1.3.R #1 POSITIVE ARMY/DOD FINDING
MANUAL QUESTION NUMBER: HW-001-003-R
FINDING ID: PA148-017
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility maintains a hazardous waste management plan.

CRITERIA: Each facility will have a written hazardous waste management plan (AR 200-1, para 6-4b).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

HW.20.4 #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: HW-020-004
FINDING ID: PA148-021
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility coordinator maintains a file of hazardous waste manifests for previously disposed materials.

CRITERIA: SQGs of hazardous waste are required to use manifests and keep records of hazardous waste activity (40 CFR 262.20, 262.40(a), 262.40(c), 262.40(d), 262.42(b), 262.43, and 262.44).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

NR.1.2.R #1 POSITIVE GMP FINDING
MANUAL QUESTION NUMBER: NR-001-002-R
FINDING ID: PA148-004
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: PROPERTY LINE ADJACENT TO STREAM.
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility maintains a copy of its Natural Resources Management Plan. No regulated resources were found. However, there is a butternut tree located along the stream adjacent to the property. This species is currently in decline, and the supporting environmental manager(s) should periodically determine if it has been added to the federal or state threatened / endangered species list.

CRITERIA: Management and organization of paperwork, materials, and personnel should be done in a manner that prevents noncompliance and recurrence of noncompliance, precludes/minimizes regulatory enforcement actions (including warning letters etc.), promotes good public relations, and addresses systemic weaknesses in the overall operation of the program (MP).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

US Army Corps
of Engineers
Baltimore District

PROGRAMMATIC NATURAL RESOURCE MANAGEMENT PLAN 79TH ARMY RESERVE COMMAND PENNSYLVANIA

Prepared for:

79th U.S. Army Reserve Command
Naval Air Station
Willow Grove, Pennsylvania 19090-5110

Prepared By:

U.S. Army Corps of Engineers
Baltimore District (CENAB-PL-EM)
Baltimore, Maryland 21203-1715

1 August 1995

AN INVENTORY OF SIGNIFICANT BIOLOGICAL RESOURCES AT U.S. ARMY RESERVE CENTERS IN CENTRAL AND EASTERN PENNSYLVANIA

for

Commander
U.S. Army Garrison
Fort Indiantown Gap Military Reservation
Annville, PA 17003-5011

by

Pennsylvania Science Office
The Nature Conservancy
34 Airport Drive
Middletown, PA 17057

1995

USARC LOCATION: Williamsport

ADDRESS: Lycoming Memorial USARC
1605 Four Mile Drive
Williamsport, PA 17701-1989

COUNTY: Lycoming

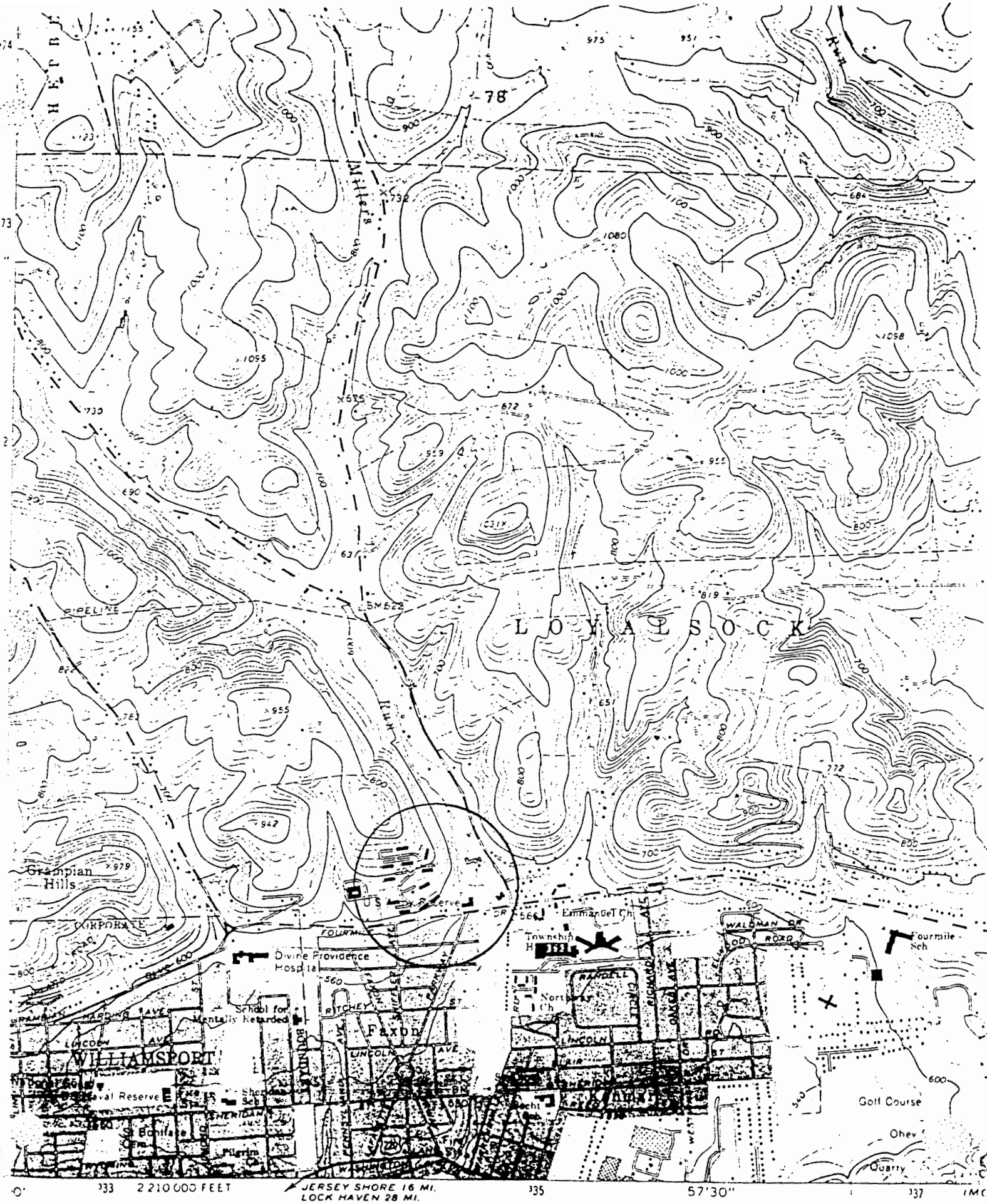
MUNICIPALITY: Loyalsock Township

U.S.G.S. QUADRANGLE: Montoursville North

DATE OF VISIT: 1994 June 9

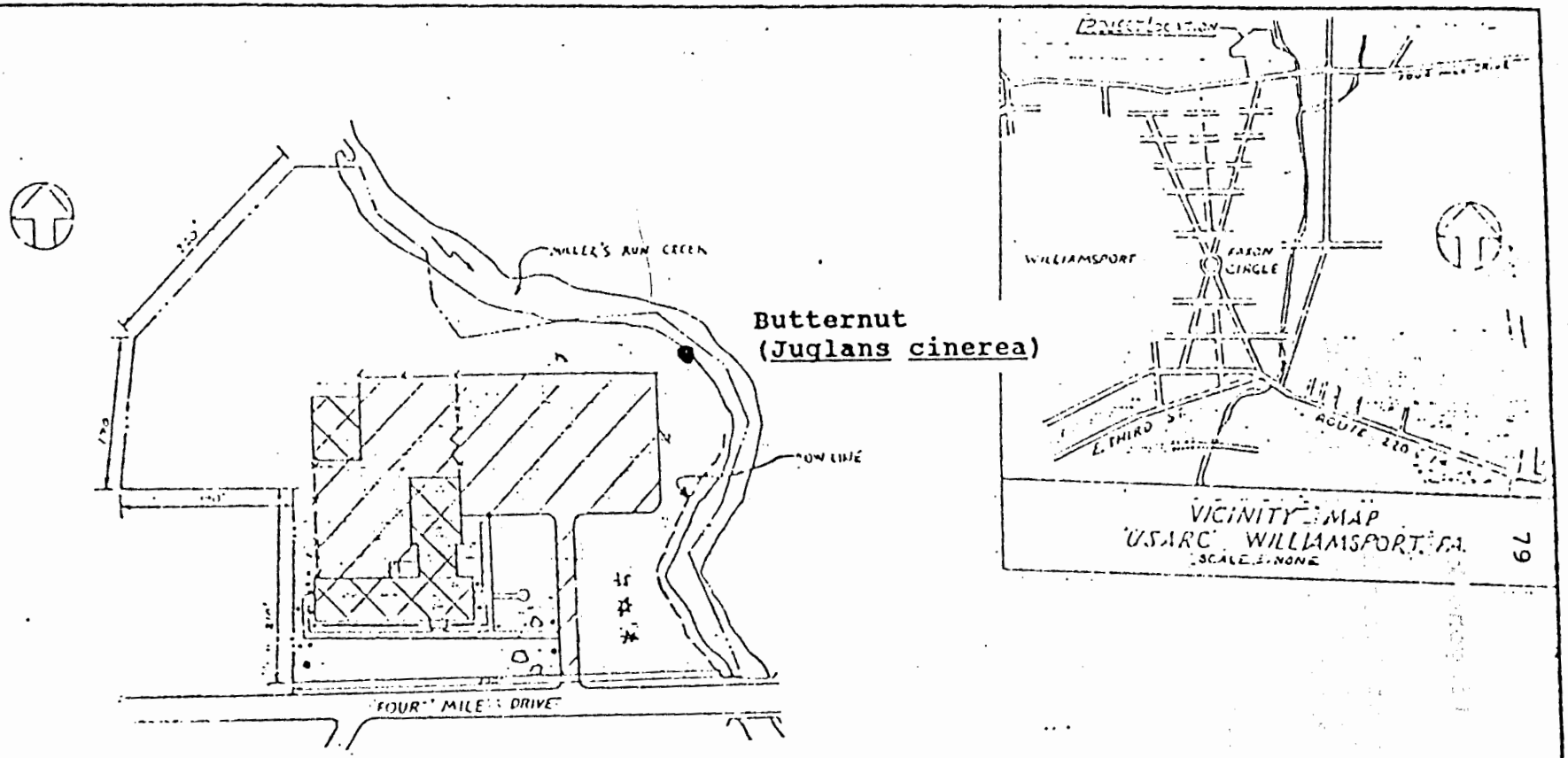
DESCRIPTION OF FACILITY: The facility consists of lawn, a weedy unmowed bank, a narrow strip of woods bordering a stream (Miller's Run Creek), a parking lot, and a building. It is situated in a residential and commercial area.

SIGNIFICANT BIOLOGICAL RESOURCES: No species of concern, natural communities, or wetlands were found. A very narrow zone of woodland occurs along Miller's Run Creek on the eastern perimeter of the facility (page 79). Although this woodland is small and of low quality in the opinion of the Pennsylvania Science Office of The Nature Conservancy, a healthy specimen of butternut (Juglans cinerea) was found here. This species appears to be declining (due to a fungus) throughout much of its range and is monitored by the Natural Heritage programs in several states. Although not currently tracked by PNDI, in the future the species may become a candidate for listing in Pennsylvania. We recommend that this tree and its streambank habitat be protected from future development and site modification.



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS



Butternut
(Juglans cinerea)

USARC WILLIAMSPORT
1605 FOUR MILE DR
WILLIAMSPORT, PA.

LEGEND

- HEDGES, SHRUBS, BUSHES, TREES
- LIGHT POLE
- BUILDING (NIC)
- PAVEMENT (NIC)
- GRASS (TO BE MOWED)
- FENCE LINE (NIC)
- PROPERTY LINE
- (NIC) NOT IN CONTRACT

DFAE FT INDIANTOWN GAP, PA

GROUNDS MAINTENANCE

USARC WILLIAMSPORT, PA.

DWG. NO. AR-358 5 JAN 69

O1.5.1 #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: O1-005-001 FINDING ID: PA148-005
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility maintains a copy of a Programmatic Environmental Assessment and Finding of No Significant Impact for the following actions: Facility Closure, Facility Expansion and Performing First-Line Vehicle Maintenance in the OMS.

CRITERIA: The NEPA process must be integrated into planning for projects at the installation/CW facility as early as possible in order to prevent delays in project implementation (40 CFR 1501.1 and 1501.2).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

US Army Corps
of Engineers
Baltimore District

PROGRAMMATIC

ENVIRONMENTAL ASSESSMENT

79TH ARMY RESERVE COMMAND

Prepared for:

79th U.S. Army Reserve Command
Naval Air Station
Willow Grove, Pennsylvania 19090-5110

Prepared By:

U.S. Army Corps of Engineers
Baltimore District (CENAB-PL-EM)
Baltimore, Maryland 21203-1715

27 August 1995

O1.5.3.A #1 POSITIVE ARMY/DOD FINDING
MANUAL QUESTION NUMBER: O1-005-003-A
FINDING ID: PA148-025
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility maintains a copy of the Categorical Exclusion (CX) for relocating elements of the 814th QM Co. from the Bloomsburg USAR Center to the Lycoming Memorial USAR Center.

CRITERIA: CXs may apply to proposed actions, exempting them from further environmental assessment under specific circumstances (AR 200-2, para 4-1 through 4-4 and Appendix A).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

RECORD OF ENVIRONMENTAL CONSIDERATION (REC)

To: Stephen E. Fritz

From: Mr. Tom Collins

Project Title: 814th QM Co. Relocation

Description: Relocate elements of the 814th QM Co. from the Bloomsburg USAR Center to the Lycoming County USAR Center (Williamsport).

Anticipated date and/or duration of proposed action: Not available in request.

Reason for using Record of Environmental Consideration:

Is categorically excluded under provisions of CX A-13, AR 200-2, Appendix A, (and no extraordinary circumstances exist as defined in paragraph 4-3).

28 July 95

28 July 1995
DATE

Thomas P Collins

Proponent
Mr. Tom Collins
DCSOPS, 79th ARCOM

28 Jul 95

28 July 1995
DATE

Stephen E. Fritz
Environmental Manager
79th ARCOM

O2.1.3.A #1 POSITIVE ARMY/DOD FINDING
MANUAL QUESTION NUMBER: O2-001-003-A
FINDING ID: PA148-006
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility maintains a copy of a Programmatic Noise Assessment for USAR activities in eastern Pennsylvania. Although actual noise measurements were not performed at the facility, its use appears to resemble USAR Centers which did not exceed noise standards.

CRITERIA: Installations are required to conduct an ICUZ Study as a part of the ICUZ Program to identify and control noise (AR 200-1, para 7-2c, 7-2d, and 7-5a).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

USACHPPM

U.S. Army Center for Health Promotion and Preventive Medicine
(Provisional)

ENVIRONMENTAL NOISE ASSESSMENT NO. 52-34-1583-94
BOUNDARY LINE NOISE MEASUREMENTS AT
U.S. ARMY RESERVE FACILITIES IN PENNSYLVANIA
17 JUNE 1994 - 9 JANUARY 1995

O3.1.3.A #1 POSITIVE ARMY/DOD FINDING
MANUAL QUESTION NUMBER: O3-001-003-A
FINDING ID: PA148-007
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility was found to have no projects eligible for Restoration funding. A fenceline assessment was conducted and determine that no past waste disposal practices at the facility boundary were indicated.

CRITERIA: Screening for past use of hazardous substances and the potential for contamination is required to be conducted at all major Army installations and subinstallations, and other properties controlled by the Army (AR 200-1, para 9-7a).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

SITE SUMMARY

07-17-1997

Installation: USARC WILLIAMSPORT
FFID: PA210412N76
Major Command: USARC
Subcommand: 99RSC

Site	Description	Type	Score	Agreement	Phase Status							IRA FRA	Actn Type	RIP	RC
					PA	SI	RI	RD	RA(C)	RA(O)	LTM				
SITE 01	FUEL OIL UST	TU	NE	Z	C						N				199308
SITE 02	INDOOR FIRING RANGE	SR	NE	Z	C						N				199702
SITE 03	DRUM STORAGE AREA	SA	NE	Z	C						N				199702
SITE 04	FLAMMABLES STORAGE	SA	NE	Z	C						N				199702
SITE 05	VEHICLE WASH RACK O/W SEPARATOR	RW	NE	Z	C						N				199702
SITE 06	HOLDING TANK	WL	NE	Z	C						N				199308

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

SITE DATA (Detailed) 07-17-1997

Summary of sites:

Installation: USARC WILLIAMSPORT **FFID:** PA210412N76
Major Command: USARC

Site		Alias		Description
SITE	01	SITE	01	FUEL OIL UST
SITE	02	SITE	02	INDOOR FIRING RANGE
SITE	03	SITE	03	DRUM STORAGE AREA
SITE	04	SITE	04	FLAMMABLES STORAGE
SITE	05	SITE	05	VEHICLE WASH RACK O/W SEPARATOR
SITE	06	SITE	06	HOLDING TANK

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

SITE DATA (Detailed) 07-17-1997

Detail:

Installation: USARC WILLIAMSPORT
Command: USARC
SubCommand: 99RSC

Site: SITE 01
Alias: SITE 01
Description: FUEL OIL UST

Statute: F **Program:** A **On NPL:** N **HRS Score:** 0
Site Type: TU **Legal Driver:** Z **Delist Date:**
Tank Number: ---- **IRP Category:**

PHASE STATUS:

Phase:	PA	SI	RI	RD	RA(C)	RA(O)	LTM
Status:	C						N
Actual Start:	199308						
Actual End:	199308						
Actual RC:	199308						
RC Reason:	B						
Remedy In Place:							
Estimated Start:							
Estimated End:							
Estimated RC:							

REMEDIAL ACTIONS:

IRA/FRA	Remedy	Status	Actual Start	Actual End	Est. Start	Est. End

ROD/DD:

ROD/DD	Actn Type	Title	Component	EPA	State	Local

IAG DATES:

Component	EPA	State	Local

NARRATIVE:

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

SITE DATA (Detailed) 07-17-1997

Installation: USARC WILLIAMSPORT
Command: USARC
SubCommand: 99RSC

Site: SITE 02
Alias: SITE 02
Description: INDOOR FIRING RANGE

Statute: G **Program:** A **On NPL:** N **HRS Score:** 0
Site Type: SR **Legal Driver:** Z **Delist Date:**
Tank Number: **IRP Category:**

PHASE STATUS:

Phase:	PA	SI	RI	RD	RA(C)	RA(O)	LTM
Status:	C						N
Actual Start:	199702						
Actual End:	199702						
Actual RC:	199702						
RC Reason:	C						

Remedy In Place:
Estimated Start:
Estimated End:
Estimated RC:

REMEDIAL ACTIONS:

IRA/FRA	Remedy	Status	Actual Start	Actual End	Est. Start	Est. End

ROD/DD:

ROD/DD	Actn Type	Title	Component	EPA	State	Local

IAG DATES:

Component	EPA	State	Local

NARRATIVE:

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

SITE DATA (Detailed) 07-17-1997

Installation: USARC WILLIAMSPORT
Command: USARC
SubCommand: 99RSC

Site: SITE 03
Alias: SITE 03
Description: DRUM STORAGE AREA

Statute: D **Program:** A **On NPL:** N **HRS Score:** 0
Site Type: SA **Legal Driver:** Z **Delist Date:**
Tank Number: **IRP Category:**

PHASE STATUS:

Phase:	PA	SI	RI	RD	RA(C)	RA(O)	LTM
Status:	C						N
Actual Start:	199702						
Actual End:	199702						
Actual RC:	199702						
RC Reason:	C						

Remedy In Place:
Estimated Start:
Estimated End:
Estimated RC:

REMEDIAL ACTIONS:

IRA/FRA	Remedy	Status	Actual Start	Actual End	Est. Start	Est. End

ROD/DD:

ROD/DD	Actn Type	Title	Component	EPA	State	Local

IAG DATES:

Component	EPA	State	Local

NARRATIVE:

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

SITE DATA (Detailed) 07-17-1997

Installation: USARC WILLIAMSPORT
Command: USARC
SubCommand: 99RSC

Site: SITE 04
Alias: SITE 04
Description: FLAMMABLES STORAGE

Statute: E **Program:** A **On NPL:** N **HRS Score:** 0
Site Type: SA **Legal Driver:** Z **Delist Date:**
Tank Number: **IRP Category:**

PHASE STATUS:

Phase:	PA	SI	RI	RD	RA(C)	RA(O)	LTM
Status:	C						N
Actual Start:	199702						
Actual End:	199702						
Actual RC:	199702						
RC Reason:	C						

Remedy In Place:
Estimated Start:
Estimated End:
Estimated RC:

REMEDIAL ACTIONS:

IRA/FRA	Remedy	Status	Actual Start	Actual End	Est. Start	Est. End

ROD/DD:

ROD/DD	Actn Type	Title	Component	EPA	State	Local

IAG DATES:

Component	EPA	State	Local

NARRATIVE:

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

SITE DATA (Detailed) 07-17-1997

Installation: USARC WILLIAMSPORT
Command: USARC
SubCommand: 99RSC

Site: SITE 05
Alias: SITE 05
Description: VEHICLE WASH RACK O/W SEPARATOR

Statute: B **Program:** A **On NPL:** N **HRS Score:** 0
Site Type: RW **Legal Driver:** Z **Delist Date:**
Tank Number: **IRP Category:**

PHASE STATUS:

Phase:	PA	SI	RI	RD	RA(C)	RA(O)	LTM
Status:	C						N
Actual Start:	199702						
Actual End:	199702						
Actual RC:	199702						
RC Reason:	C						
Remedy In Place:							
Estimated Start:							
Estimated End:							
Estimated RC:							

REMEDIAL ACTIONS:

IRA/FRA	Remedy	Status	Actual Start	Actual End	Est. Start	Est. End

ROD/DD:

ROD/DD	Actn Type	Title	Component	EPA	State	Local

IAG DATES:

Component	EPA	State	Local

NARRATIVE:

DEFENSE SITE ENVIRONMENTAL RESTORATION TRACKING SYSTEM

SITE DATA (Detailed) 07-17-1997

Installation: USARC WILLIAMSPORT
Command: USARC
SubCommand: 99RSC

Site: SITE 06
Alias: SITE 06
Description: HOLDING TANK

Statute: D **Program:** A **On NPL:** N **HRS Score:** 0
Site Type: WL **Legal Driver:** Z **Delist Date:**
Tank Number: **IRP Category:**

PHASE STATUS:

Phase:	PA	SI	RI	RD	RA(C)	RA(O)	LTM
Status:	C						N
Actual Start:	199308						
Actual End:	199308						
Actual RC:	199308						
RC Reason:	B						

Remedy In Place:
Estimated Start:
Estimated End:
Estimated RC:

REMEDIAL ACTIONS:

IRA/FRA	Remedy	Status	Actual Start	Actual End	Est. Start	Est. End

ROD/DD:

ROD/DD	Actn Type	Title	Component	EPA	State	Local

IAG DATES:

Component	EPA	State	Local

NARRATIVE:

O4.1.7.R #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: O4-001-007-R
FINDING ID: PA148-015
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility lacks an on site hazardous materials inventory. However, it does not maintain storage above thresholds requiring a Spill Prevention, Containment and Contingencies (SPCC) Plan.

CRITERIA: A master listing of all hazardous substances at handling, storage, and transfer facilities is required as a part of the SPCC Plan (AR 200-1, para 8-4b(4)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

O5.4.1.R #1 POSITIVE GMP FINDING
MANUAL QUESTION NUMBER: O5-004-001-R
FINDING ID: PA148-008
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility has copies of relevant reports and documentation.

CRITERIA: ARCOMS and Support Installations should share pertinent portions of environmental surveys, inventories, and management plans with their facility managers (MP.)

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

PM.1.2.R #1 POSITIVE GMP FINDING
MANUAL QUESTION NUMBER: PM-001-002-R
FINDING ID: PA148-009
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The Natural Resources Management Plan contains pesticide use procedures.

CRITERIA: Management and organization of paperwork, materials, and personnel should be done in a manner that prevents noncompliance and recurrence of noncompliance, precludes/minimizes regulatory enforcement actions (including warning letters etc.), promotes good public relations, and addresses systemic weaknesses in the overall operation of the program (MP).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

PO.5.1 #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: PO-005-001
FINDING ID: PA148-023
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: OMS
IFS FACILITY NUMBER:
FACILITY TYPE: OMS - ORGANIZATIONAL MAINTENANCE SHOP

FINDING DESCRIPTION: The motor pool supervisor maintains a minimal stock of POLs (e.g. engine lubricating oil and transmission fluid). The storage does not exceed thresholds requiring an SPCC Plan. The POLs are used only for make-up. Oil chanfe training is coordinated with and performed at the Lock Haven AMSA.

CRITERIA: Installations/CW facilities that store, transport, or dispense petroleum products are required to prepare an SPCC plan (40 CFR 112.1(d) and 112.3).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

SO.10.1 #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: SO-010-001
FINDING ID: PA148-024
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Solid waste disposal is managed under contract through the 99th RSC. There is no current local requirement for paper or aluminum recycling.

CRITERIA: Installations/CW facilities are required to store all solid wastes and all materials separated for recycling according to specific guidelines (40 CFR 243.200-1).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

T1.10.1 #1 III FEDERAL FINDING
MANUAL QUESTION NUMBER: T1-010-001
FINDING ID: PA148-016
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility was surveyed for transformer contents and ownership. It does not have a PCB transformer on site. However, no documentation of capacitors or other PCB articles (such as light ballasts) is available. The facility coordinator indicated that they plan to perform a self-help project to replace fluorescent light fixtures. The facility coordinator should request assistance from the environmental staff to identify PCB light ballasts and determine proper disposal methods, if present.

CRITERIA: All installations/CW facilities that use or store at any time at least 45 kg (99.4 lb) of PCBs contained in PCB Containers or one or more PCB Transformers (500 ppm or greater), or 50 or more PCB Large, High-, or Low-Voltage Capacitors are required to keep an inventory (40 CFR 761.180(a)(2)((iii) through 761.180(a)(2) (vi)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Coordinate a survey for capacitors and light ballasts through the RSC Engineer. If this documentation is not available, assure that projects involving facility capacitors and/or light ballasts determine if the are PCB articles prior to proceeding.

Transformer Screening Report

15-Jul-97

AMSA #29 (G)

547 Philadelphia Avenue (Route 724)

Reading

Pennsylvania 19607-2728

Transformer Owner: Pensylvania Power & Light Company

Point of Contact: Mr. Bradley Wise

POC Phone: (610) 774-5151

Transformer Contents: Non-PCB Oil

Lycoming Memorial USAR Center

1605 Four Mile Drive

Williamsport

Pennsylvania 17701-1989

Transformer Owner: Pensylvania Power & Light Company

Point of Contact: Mr. Bradley Wise

POC Phone: (610) 774-5151

Transformer Contents: Non-PCB Oil

AMSA #32 (G)

100 Stephens Road

Wilkes-Barre

Pennsylvania 18702-6726

Transformer Owner: Pensylvania Power & Light Company

Point of Contact: Mr. Bradley Wise

POC Phone: (610) 774-5151

Transformer Contents: Non-PCB Oil

T2.1.3.R #1 III ARMY/DOD FINDING
MANUAL QUESTION NUMBER: T2-001-003-R FINDING ID: PA148-010
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: A facility asbestos survey was conducted. However, it was not performed by AHERA-certified personnel.

CRITERIA: Facilities are required to conduct an asbestos survey (AR 200-1, para 10-2j and 10-3b(1) through 10-3b(3)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Enter a project for an AHERA-certified inspector to perform an asbestos survey and prepare an Asbestos Management Plan, if required.

T2.1.6.R #1 III ARMY/DOD FINDING
MANUAL QUESTION NUMBER: T2-001-006-R
FINDING ID: PA148-018
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative
EXISTING NOV: NO
LOCATION: SECOND FLOOR OUTSIDE ROOM 201
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Asbestos floor tile outside of room 201 is abraded. The damage to the floor tile appears to be the result of building settlement around the entrance area.

CRITERIA: Facilities are required to identify in detail and validate the existence, extent, and condition of all asbestos, friable and nonfriable, in all structures prior to renovation, demolition, or excessing (AR 200-1, para 10-2k).

FINDING COMMENTS: Asbestos repairs are funded from facility maintenance maintenance acounts. Assure that the Engineer section coordinates the project for environmental review of the proposed disposal method.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Coordinate with CST #1 Willow Grove to determine if there is a need for facility repair. If there si to be removal of asbestos-containing floor tile, assure that it is disposed of properly.

T3.1.16.R #1 III ARMY/DOD FINDING
MANUAL QUESTION NUMBER: T3-001-016-R
FINDING ID: PA148-011
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Initial and long-term radon screening indicated concentrations of greater than 4.0 pCi/l air at the facility. This information is maintained at the facility. A rodaon mitigation system was installed. However, there is no record of post-mitigation analysis.

CRITERIA: Facilities are required to maintain or have access to a database that will permanently capture all the information derived from the assessment and mitigation of radon (AR 200-1, para 11-2b(1)(g) and 11-6d(1)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Assure that the 99th RSC, Customer Support TEam #1 provides copies of the post-mitigation analysis.

Facility ID: PA148

Lycoming Memorial USAR Center

1605 Four Mile Drive
Williamsport
Pennsylvania
17701-1989

Building Name: USAR Center
Detector Serial Number: Not Available
Duplicate Of:
Comments: Long-term
Sample Location: Room 101

Monitored From: 21-Dec-89
Monitored To: 22-Mar-90
Result (pCi/l Air): 6.2
Monitor Type: ATM (90)

Building Name: OMS
Detector Serial Number: Not Available
Duplicate Of:
Comments: Long-term
Sample Location: Center Pole

Monitored From: 21-Dec-89
Monitored To: 22-Mar-90
Result (pCi/l Air): 1
Monitor Type: ATM (90)

Building Name: USAR Center
Detector Serial Number: Not Available
Duplicate Of:
Comments: Long-term
Sample Location: Classroom 3

Monitored From: 30-Aug-90
Monitored To: 04-Sep-91
Result (pCi/l Air): 5.8
Monitor Type: ATM (365)

Building Name: USAR Center
Detector Serial Number: Not Available
Duplicate Of:
Comments: Long-term
Sample Location: Room 101

Monitored From: 30-Aug-90
Monitored To: 04-Sep-91
Result (pCi/l Air): 8.3
Monitor Type: ATM (365)

Building Name: USAR Center
Detector Serial Number: 2097319IHP
Duplicate Of:
Comments: Long-term
Sample Location: Room 120

Monitored From: 09-Jun-92
Monitored To: 09-Jun-93
Result (pCi/l Air): 1.1
Monitor Type: ATM (365)

Building Name: USAR Center
Detector Serial Number: 2073202CYE
Duplicate Of:
Comments: Follow-up
Sample Location: Room 102

Monitored From: 09-Jun-92
Monitored To: 09-Jun-93
Result (pCi/l Air): 16
Monitor Type: ATM (365)

Building Name: USAR Center
Detector Serial Number: 2093850NYA
Duplicate Of:
Comments: Long-term
Sample Location: Room 102

Monitored From: 09-Jun-92
Monitored To: 09-Jun-93
Result (pCi/l Air): 8.7
Monitor Type: ATM (365)

Building Name: USAR Center
Detector Serial Number: 2095818SQP
Duplicate Of:
Comments: Follow-up
Sample Location: Room 101

Monitored From: 09-Jun-92
Monitored To: 09-Jun-93
Result (pCi/l Air): 29.2
Monitor Type: ATM (365)

Building Name: USAR Center

Detector Serial Number: 2096650HMH

Duplicate Of:

Comments: Long-term

Sample Location: Room 101

Monitored From:	09-Jun-92
Monitored To:	09-Jun-93
Result (pCi/l Air):	14
Monitor Type:	ATM (365)

Building Name: AMSA

Detector Serial Number: 2086177TOI

Duplicate Of:

Comments: Long-term

Sample Location: OMS

Monitored From:	09-Jun-92
Monitored To:	09-Jun-93
Result (pCi/l Air):	2.1
Monitor Type:	ATM (365)

Building Name: USAR Center

Detector Serial Number: 2096253ILL

Duplicate Of:

Comments: Long-term

Sample Location: Room 213

Monitored From:	09-Jun-92
Monitored To:	09-Jun-93
Result (pCi/l Air):	2.1
Monitor Type:	ATM (365)

T4.3.1 #1 POSITIVE GMP FINDING
MANUAL QUESTION NUMBER: T4-003-001
FINDING ID: PA148-012
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility lacks a lead-based paint survey. However, since it is not a structure designed for habitation, it is not currently affected by PADEP or local regulations.

CRITERIA: Installations/CW facilities are required to comply with state and local regulations concerning LBP management (EO 12088, Section 1-1).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None currently required. However, if the facility is to be excessed, determine if it is governed by PADEP or local requirements for lead-based paint assessment / remediation.

WA.10.3 #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: WA-010-003
FINDING ID: PA148-013
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: FACILITY WIDE
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility is not covered by the definition of "storm water discharge associated with industrial activities."

CRITERIA: Installations/CW facilities which are dischargers of stormwater associated with an industrial activity (see definitions) are required to apply for an individual permit, apply for a permit through a group application, or seek coverage under a promulgated stormwater general permit (40 CFR 122.26(c)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

WA.25.1 #1 POSITIVE FEDERAL FINDING
MANUAL QUESTION NUMBER: WA-025-001
FINDING ID: PA148-014
FINDING CATEGORY: POSITIVE
FINDING TYPE: Positive
EXISTING NOV: NO
LOCATION: WASH RACK
IFS FACILITY NUMBER:
FACILITY TYPE: USARC(MB) - U.S. ARMY RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: The facility does not use detergents or solvents when cleaning vehicles at its wash rack, per policy.

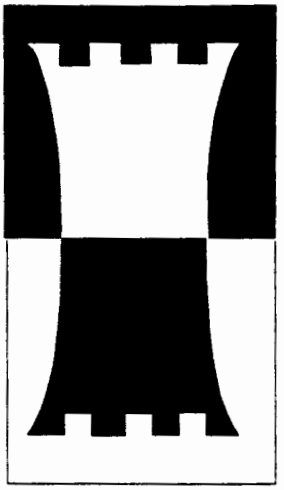
CRITERIA: Installations/CW facilities must not discharge into a POTW/FOTW any pollutant which would cause pass through or interference (40 CFR 403.5(a) and 403.5(c)(2)).

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): None required.

DEPARTMENT OF THE ARMY

HEADQUARTERS, 416TH ENGINEER COMMAND
FACILITIES ENGINEERING TDA (AUGMENTATION)
10 SOUTH 100 SOUTH FRONTAGE ROAD
DARIEN, IL 60561-1780



TOTAL FACILITY ASSESSMENT REPORT

Lycoming Memorial USAR Center, Williamsport, Pa.
Facility Number PA148
99th Regional Support Command
Conducted 28-29, April 1998
by the Ft. Indiantown Gap Facilities Engineering Team
of the
Engineer Support Group - East

416th ENGINEER COMMAND
USAR FACILITY
TOTAL FACILITY ASSESSMENT

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148 DATE: 28-29, April 1998

TABLE OF CONTENTS

SECTION 1: EXECUTIVE SUMMARY

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148

1. The subject center was assessed on 28-29 April 1998 by the FT Indiantown Gap FE Team. The center consists of two buildings; the main building and an OMS building. The main building and the OMS are brick construction, originally constructed in 1960. The rated capacity is 300-man. The USAR Center is home to the 327th Corps Support Battalion (HHD), 442nd FSC (Bath Operations), and the 814th QM supply platoon with approximately 142 personnel assigned. Sufficient parking exists for the assigned units at the facility. Fencing exists around the MEP and OMS. The facility is considered a Small Quantity Generator per State law, and carries a USEPA generator number.

2. The size of the entire site is 6.33 acres. It is surrounded by single family and multi-family residential areas with Four Mile Drive to the south.

3. The condition of the buildings is excellent. Most of the necessary facility work is covered on existing work order requests. Some additions or health and safety issues to the existing work order requests, have been noted in Section 5.

4. One area of concern is associated with environmental issue involving determining if the UST has been properly removed. Records must be researched to determine if this UST was properly removed and the site cleared of contamination in accordance with state laws. The second area involves the preparation of an Asbestos Management Plan.

5. This TFA identified 9 new RPMA projects - one fis for stream embankment repairs ant second for A&E services for an Asbestos Management Plan. Seven small projects have been identified for completion using the local ordering IMPAC or through self help.

6. The Energy Audit identified several energy conservation opportunities that are possible. The most significant of these include reducing the use of the water heating system by installing a timer, repair existing HVAC controls, install occupancy sensors and fluorescent fixtures in the exit signs, and replacement of inefficient ballast with T8 lighting fixtures.

7. The safety assessment identified fifteen findings of which none were RAC(1), one was RAC(2), eight were RAC(3), four were RAC(4), and two were RAC (5).

8. The ECAS assessment revealed one Class 1 finding, two Health & Safety findings and four Class III findings for a total of seven findings

9. The Arms Vault structural certification was reviewed and found to be in compliance. An updated certification has been forwarded for posting in the Arms Vault.

10. At the request of the 99th RSC, an evaluation of the facility was made regarding accessibility for persons covered by Americans with Disabilities Act (ADA). The Main Building only has access through the assembly hall garage doors. This door may not comply with ADA since it cannot be opened freely from the outside. No handicapped parking spaces exist and new handicapped spaces should be created if the drill hall entrance is to be used as the ADA entrance. There is no latrine or drinking fountain that is accessible in the facility. There are no ramps or lifts to provide access to the second floor. The OMS is accessible by a grade-level personnel door.

No persons covered by ADA currently work in the facility on a full-time basis or in reserve status.

James L Hugar

JAMES L. HUGAR
LTC, EN, USAR
FT Indiantown Gap FET, Team Leader

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

STREET ADDRESS: 1605 Four Mile Drive
CITY/TOWN: Williamsport
STATE: PA
ZIP CODE: 17701-1989

RSC/RSG: 99TH, Oakdale, Pa.

FACILITY TYPE:

A. USARC:	_X_	B. AFRC:	___	C. OMS:	_X_	D. FLIGHT:	___
E. DS/GS:	___	F. MED:	___	G. WET:	___	H. FLIGHT:	___
I. ECS:	___	J. CTF:	___	K. OTHER:	_____		

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FE TDA Team

FACILITY ENGINEERING TEAM INCLUDED:

LTC James Hugar
LTC Louis Berman
MAJ John Holtzman
SFC Joseph Baran

REFER TO FOR INFORMATION: Lames Hugar
Work: (717) 770-5582
Home: (717) 866-2792

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER
Mr. Donahue	Facility Manager	(717) 322-4695

ASSESSMENT CONDUCTED FROM: 28 April 98/1000 (DATE/TIME) TO: 29 April 98/1600 (DATE/TIME)

DATE OF LAST ASSESSMENT: FEAR:
ECAAR:

SECTION 3: FACILITY DATA

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148

FACILITY DATA SUMMARY

Facility Area				Total
I. Training Building				19560
A.	Administrative Areas		5866	
	(2) - Unit Exclusive	1026		
	(3) - Unit Common	3236		
	(5) - Administrative Support	697		
	(6) – Lobby	907		
B.	(1) Assembly Areas		3589	
C.	Kitchen		252	
D.	(1) Weapons Area, Vault		570	
E.	(1) Educational Areas, Classroom		3132	
F.	Storage Areas		2186	
	(1) Unit/Individual	837		
	(3) Supply Office	846		
	(4) Janitorial Storage	503		
H.	Support Areas		1382	
	(1) Men's Toilets and Showers	460		
	(2) Women's Toilets and Showers	247		
	(7) Mechanical	675		
Circulation Allowance (actual)			2583	
II.	Maintenance Shops			3518
A.	Organizational Maintenance Shop			
Facility Total				23078

NOTES:

1. Above paragraph numbers correspond with paragraph numbers contained on DA Form 5034-R (Project Documentation Space Allowance Worksheet).

Training Building
FACILITY DATA - PA

LYCOMING MEMORIAL USAR CENTER, Williamsport, PA PA 148

Room No.	Room Name	Room Dimensions			Room Area	Room Volume	HVAC Code	Use Code
		Length (ft)	Width (ft)	Height (ft)	(sf)	(cf)		
100	South Entrance Lobby	26.50	19.16	9.08	508	4610	H	IA6
	Lobby Vestibule	10.75	4.75	7.08	51	362	H	IA6
101	S2/3 Office	19.00	16.66	8.16	317	2583	HA	IA2
102	S1 Office	19.00	12.92	8.16	245	2003	HA	IA2
103	NCO Office	19.00	7.66	8.83	146	1285	HA	IA2
104	Mail Room	19.00	8.00	10.00	152	1520	H	IA5
104A	Arms Vault	30.00	19.00	9.83	570	5603	U	ID1
105	Latrine, Men	15.16	9.00	8.00	136	1092	H	IH1
105A	Janitors Closet	11.25	6.00	9.00	68	608	H	IF4
105A	Entrance Hallway	6.00	3.50	9.50	21	200	H	CA
106	Kitchen	15.50	16.25	9.50	252	2393	H	IC
108	SSA Office	12.00	15.50	9.00	186	1674	HA	IA2
109	XO Office	8.50	15.50	9.00	132	1186	HA	IA2
110	NBC Storage	11.75	15.50	9.00	182	1639	HA	IF1
111	Day Room	19.00	31.00	8.16	589	4806	HA	IB1
112	Office	19.00	8.00	9.25	152	1406	HA	IA5
113	Janitors Closet	5.00	5.00	8.00	25	200	U	IF4
114	Classroom	76.33	19.00	8.44	1450	12240	HA	IE1
114A	Storage	19.00	8.00	9.25	152	1406	H	IF1
115	Supply	19.00	44.50	9.25	846	7821	H	IF3
116	Admin Office	19.00	20.66	8.00	393	3140	HA	IA5
118	Latrine, Women	19.00	13.00	8.00	247	1976	H	IH2
120	Boiler Room	19.00	35.50	14.16	675	9551	H	IH7
120A	Boiler Room Coal Room	24.00	15.66	7.00	376	2631	U	IF4
	Assembly Hall	60.00	50.00	22.00	3000	66000	H	IB1
	Assembly Hall Corridor	33.75	8.00	8.25	270	2228	H	CA
	Corridor, E-W, 1st Floor	164.00	6.25	8.83	1025	9051	H	CA
	2nd Floor Lobby	18.00	19.33	9.75	348	3392	H	IA6
201	Office	28.00	19.42	9.75	544	5302	HA	IA3
202	Office	19.42	10.00	9.75	194	1893	HA	IA3
203	Office	12.00	19.33	8.33	232	1932	HA	IA3
204	Office	12.50	19.33	8.33	242	2013	HA	IA3
205	Office	19.33	13.00	8.00	251	2010	HA	IA3
206	Office	15.75	10.66	8.00	168	1343	HA	IA3
207	Classroom	30.00	19.33	9.75	580	5654	HA	IE1
208	Classroom	28.00	19.33	9.70	541	5250	HA	IE1
209	Office	32.58	19.33	9.33	630	5876	HA	IA3
210	Office	32.58	19.33	9.33	630	5876	HA	IA3
211	Office	30.83	19.33	8.00	596	4768	HA	IA3
211A	Janitors Closet	7.50	4.58	10.00	34	344	H	IF4
212	Latrine, Men	16.92	19.16	8.50	324	2756	H	IH1
213	Classroom	29.00	19.33	9.50	561	5325	HA	IE1
215	Storage	26.00	19.33	9.50	503	4775	H	IF1
	East Stairwell	15.08	8.00	21.00	121	2533	H	CA
	West Stairwell	15.08	8.00	21.00	121	2533	H	CA
	Corridor, E-W, 2nd Floor	164.00	6.25	8.83	1025	9051	H	CA
	TOTAL				**19807**			
	OMS	52.00	67.66	15.00	3518	52775	H	IIA
	TOTAL				**3518**			

SECTION 4: GRAPHICAL DATA

SECTION 4A: VICINITY MAP

SECTION 4B: LOCATION MAP

SECTION 4C: SITE MAP

SECTION 4D: BUILDING FLOOR PLANS

SECTION 5: EXISTING CONDITIONS PHOTOGRAPHS

SECTION 5A: EXTERIOR PHOTOGRAPHS

SECTION 5B: INTERIOR PHOTOGRAPHS

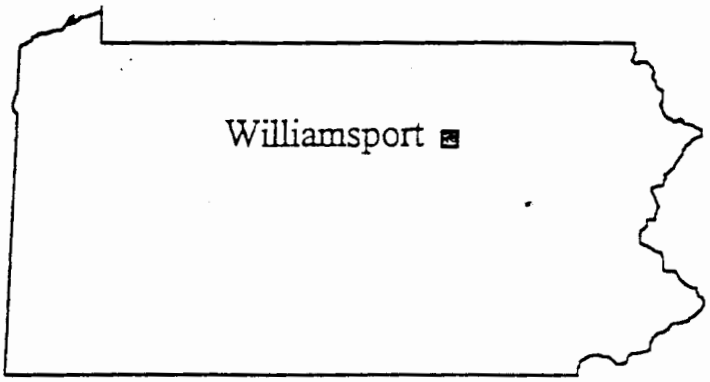
SECTION 4
GRAPHICAL DATA

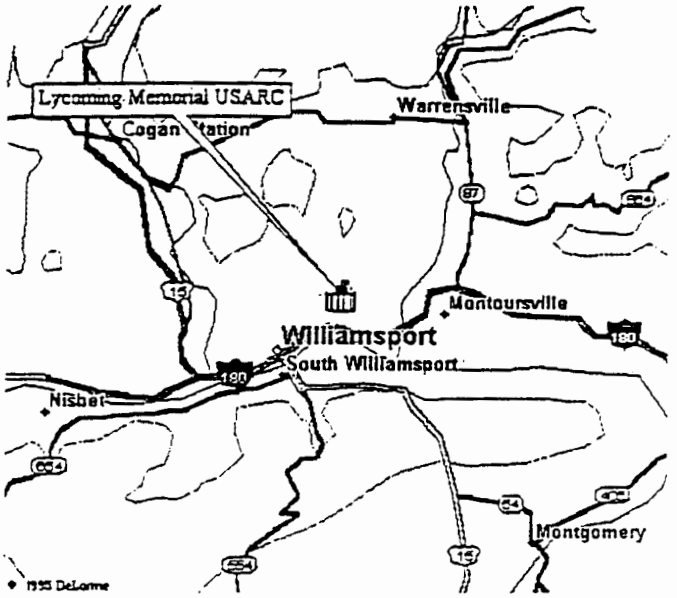
SECTION 4A
VICINITY MAP

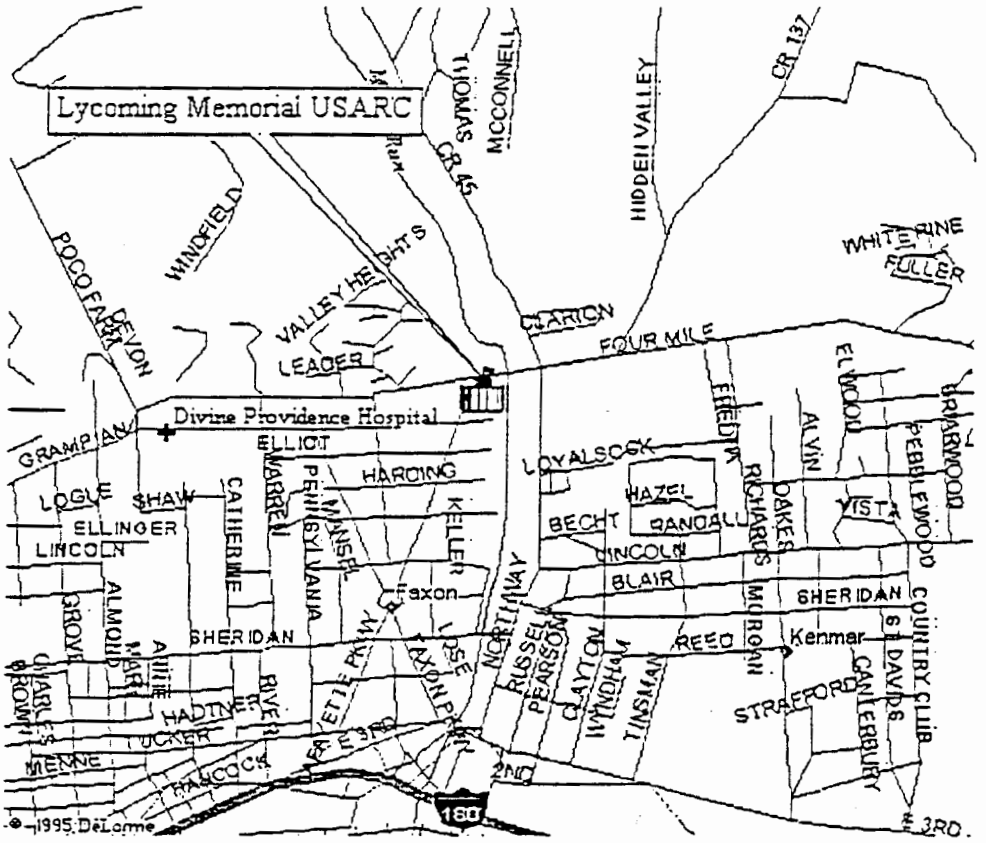
LYCOMING MEMORIAL USARC

1605 Four Mile Drive
Williamsport PA 17701-1989

FACID: PA148 Phone: (717) 322-4648







SECTION 4B
LOCATION MAP

SECTION 4C
SITE MAP

SECTION 4D
FLOOR PLANS

SECTION 5
EXISTING CONDITIONS PHOTOGRAPHS

SECTION 5A
EXTERIOR PHOTOGRAPHS

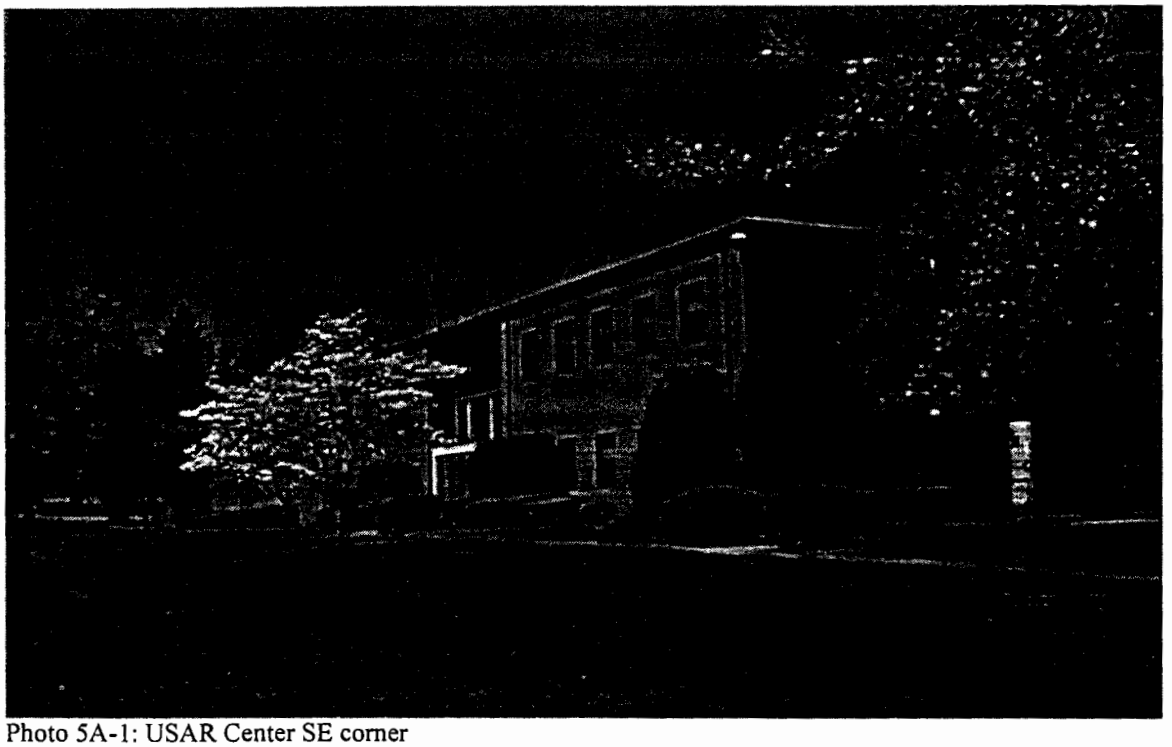


Photo 5A-1: USAR Center SE corner

Photo 5A-2: South entrance

Photo 5A-3: West entrance USAR Center

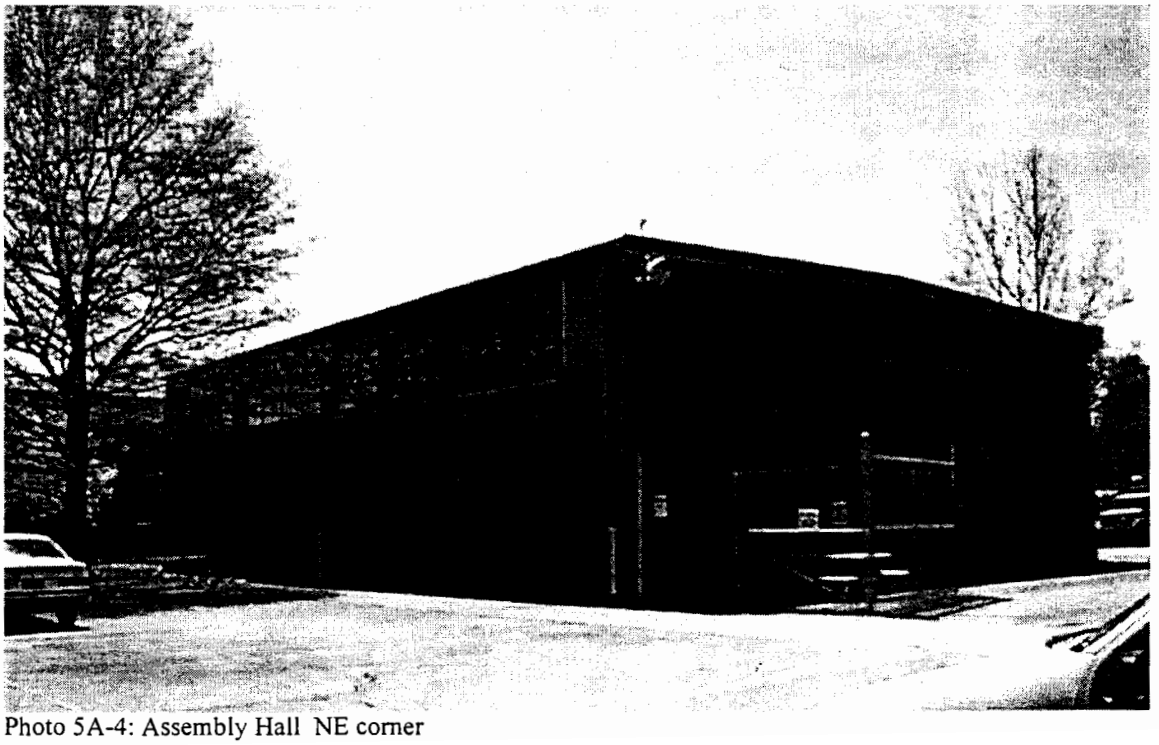


Photo 5A-4: Assembly Hall NE corner

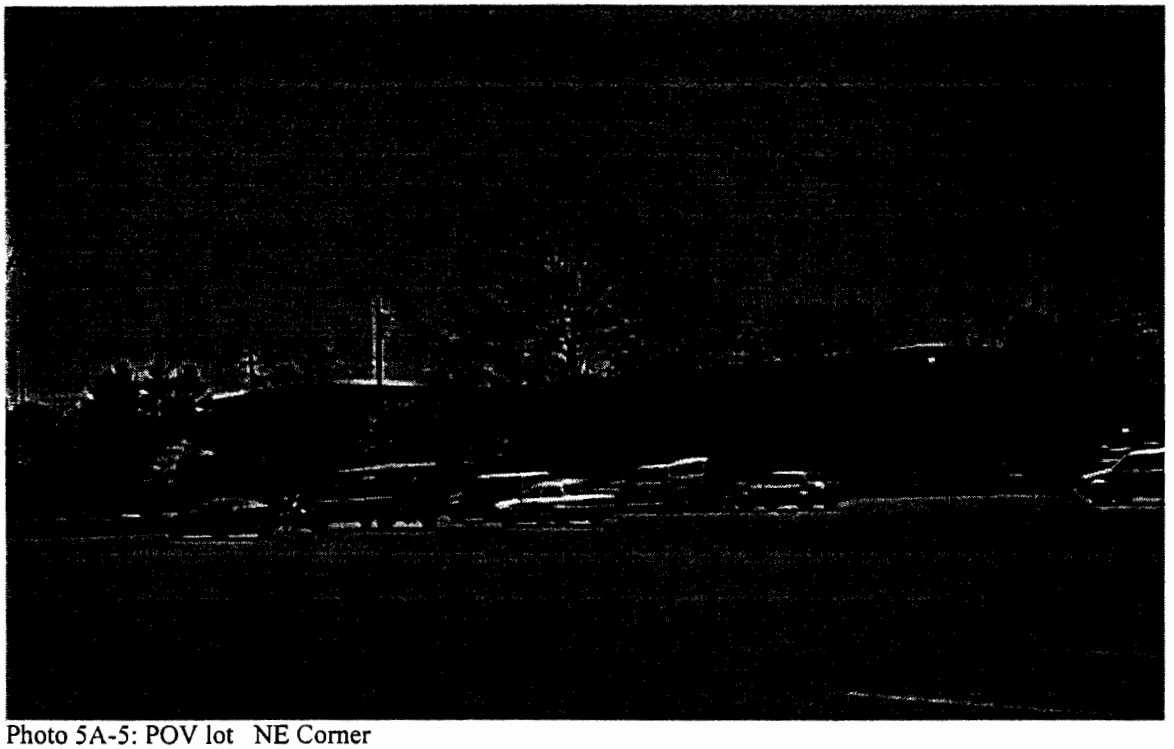


Photo 5A-5: POV lot NE Corner

Photo 5A-6: Motor Pool and POV parking looking east

Photo 5A-7: OMS Building SE corner

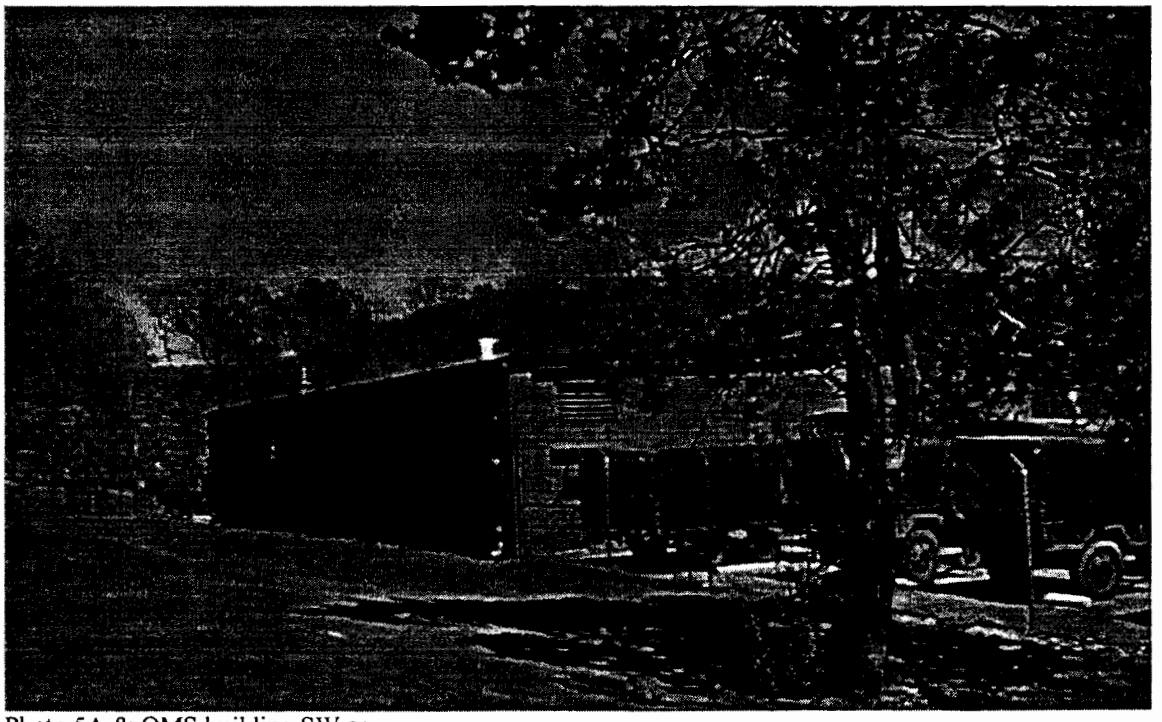


Photo 5A-8: OMS building SW corner

SECTION 5B
INTERIOR PHOTOGRAPHS

Photo 5B-1: First floor lobby

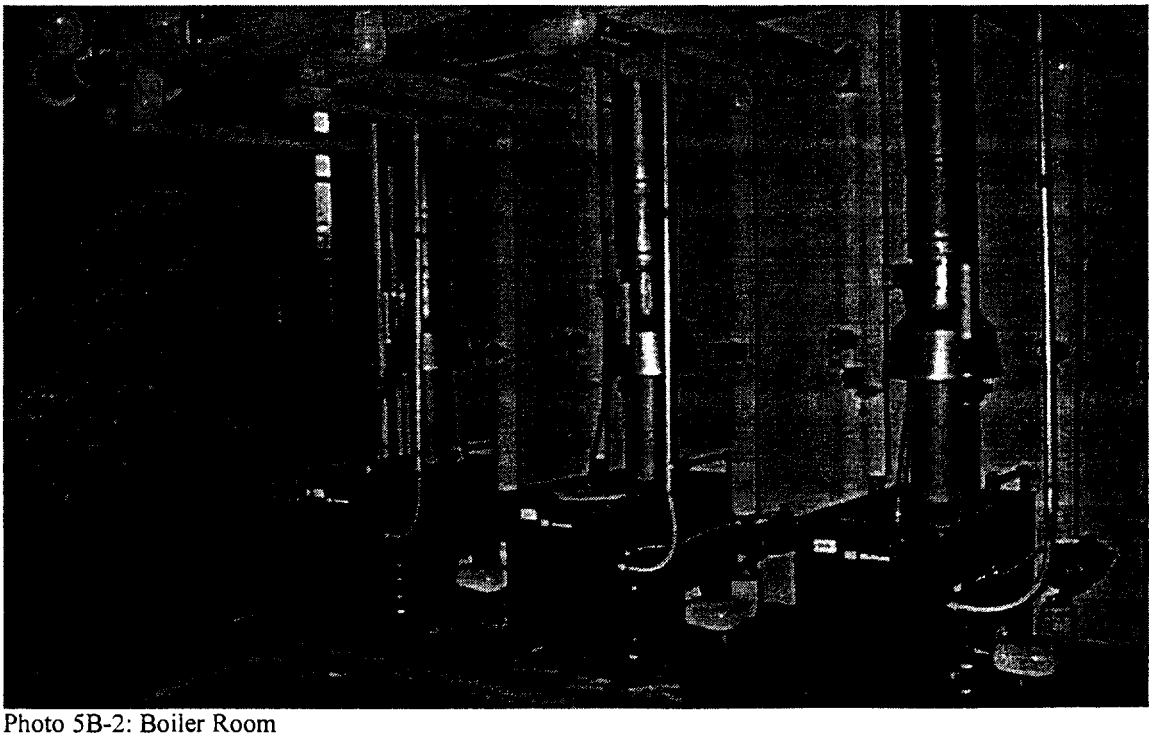


Photo 5B-2: Boiler Room

ENCLOSURE 1
RPMA PROJECT DOCUMENTATION

ENCLOSURE 1

USAR FACILITY
RPMA WORK REQUIREMENTS

for the

LYCOMING COUNTY MEMORIAL USAR CENTER

WILLIAMSPORT, PENNSYLVANIA

Prepared by the

416TH ENCOM FE TDA

FT. MEADE, MD: ESG-E

FORT INDIANTOWN GAP FET

Performed on
29 April 1998

416th ENGINEER COMMAND
USAR FACILITY
TOTAL FACILITY ASSESSMENT

RPMA WORK REQUIREMENTS

INSTALLATION NAME: LYCOMING COUNTY MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148
DATE OF ASSESSMENT: 29 April 1998

TABLE OF CONTENTS

SECTION 1
TO ENCLOSURE 1: EXECUTIVE SUMMARY - RPMA

INSTALLATION NAME: LYCOMING COUNTY MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148

1. As part of the Total Facility Assessment (TFA) conducted at the Lycoming County Memorial USAR Center the condition of the facilities was evaluated to determine the need for new projects. The center consists of two buildings; the main USAR Center, and the Organizational Maintenance Shop. The facility is being fully utilized. The MEP complex is fenced. The facility is located the edge of a light industrial area and a residential area.

2. The overall condition of the building is very good. Several areas need some attention to continue to keep this facility in good working order. Several key areas are identified: maintenance of the HVAC system, including controls, is a critical element not only for the direct costs associated with costly repairs but the costs associated with individual discomfort and energy consumption; downspout repairs due to the impact on soil erosion, mortar and brick damage related to freeze thaw action; and repairs to the rip-rap and gabion walls preventing the stream erosion from taking place at the rear of the POV parking lot.

3. This TFA identified 9 new RPMA projects, 7 of which are minor and should be able to be accomplished by IMPAC. The remaining projects are for repairs to the facility's stream embankment. A summary of these projects is as follows:

	ESTIMATED COST ($000)
A. NEWLY IDENTIFIED MAINTENANCE AND REPAIR	
(1) IMPACT CARD	3.30
(2) CONTRACT	10.65
(3) INTERSERVICE SUPPORT AGREEMENT (ISA)	0.00
B. NEWLY IDENTIFIED MINOR CONSTRUCTION/ALTERATION	0.00
C. NEWLY IDENTIFIED OTHER ENGINEERING SERVICES	8.50
TOTAL NEWLY IDENTIFIED WORK REQUIREMENTS	**$ 22.45**

James L. Hugar
LTC, EN, USAR
Team Leader

SECTION 2
TO ENCLOSURE 1: FACILITY IDENTIFICATION

INSTALLATION NAME: LYCOMING COUNTY MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

STREET ADDRESS: 1605 Four Mile Drive
CITY/TOWN: Williamsport
STATE: Pennsylvania
ZIP CODE: 17701-1989

RSC/RSG: 99th RSC, Oakdale, PA

FACILITY TYPE:

a. USARC:	X	B. AFRC:	___	C. OMS:	X	D. FLIGHT:	___
E. DS/GS:	___	F. MED:	___	G. WET:	___	H. FLIGHT:	___
I. ECS:	___	J. CTF:	___	K. OTHER:	_____		

ASSESSMENT PERFORMED BY: Fort Indiantown Gap FE TDA Team

FACILITY ENGINEERING TEAM INCLUDED:

LTC Berman
LTC Hugar
MAJ Holtzman
SFC Baran
SFC Newcomer

REFER TO FOR INFORMATION: LTC Louis D. Berman
17003 Catalpa Court
Rockville, MD 20855
Work: (202) 205-5875

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER
Mr. Donahue	Unit Administrator/Facility Coordinator	(717) 322-4695
Mr. Johnny Stevens	Facility Management Specialist	(717) ~~342-3786~~ 342-1993

ASSESSMENT CONDUCTED FROM: 28 April 98/1000 TO: 29 April 98/1600

DATE OF LAST ASSESSMENT: This is the first "TFA" conducted at this facility.

SECTION 3
TO ENCLOSURE 1: SUMMARY OF NEWLY IDENTIFIED WORK REQUIREMENTS

INSTALLATION NAME: **LYCOMING County Memorial USAR Center**

INSTALLATION NUMBER: **PA148**

A. NEWLY IDENTIFIED MAINTENANCE AND REPAIR

WORK ORDER #	BUILDING #	WORK DESCRIPTION	UM	EST COST ($000)
(1) IMPACT CARD:				
IC-1	Site	Misc. Spot Painting	LS	1.70
IC-2	Site	Repair Exterior Security Lighting.	LS	0.33
IC-3	Main	Repair plumbing Fixtures	LS	0.12
IC-4	OMS	Clean Wash Rack Catch Basin and Drain Line	LS	0.20
IC-5	Main	Remount Downspout	LS	0.15
IC-6	OMS	Finalize closure of Grease Pit	LS	0.35
IC-7	SITE	Reset Fence Post	LS	0.45
Total Newly Identified RPMA Projects - Impact Card				**3.30**
(2) CONTRACT:				
PA148-1	Site	Repair Stream Bank	LS	10.65
Total Newly Identified RPMA Projects - Contract				**10.65**
(3) INTERSERVICE SUPPORT AGREEMENT NONE				
Total Newly Identified RPMA Projects - ISA				**0.00**

B. NEWLY IDENTIFIED MINOR CONSTRUCTION/ALTERATION - None

Total Newly Minor Construction/Alteration				**0.00**

C. NEWLY IDENTIFIED OTHER ENGINEERING SERVICES -

PA148-2	Main/OMS	Prepare Asbestos Management Plan	LS	8.5
Total Newly Identified Other Engineering Services				**8.50**

D. NEWLY IDENTIFIED WORK PROJECTS SUMMARY: **$ 22.45**

SECTION 4
TO ENCLOSURE 1: RPMA PROJECT DOCUMENTATION AND COST ESTIMATES

INSTALLATION NAME: LYCOMING COUNTY MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

Following this header sheet are project documentation and cost estimates for newly identified RPMA projects.

4.A. IMPAC

INSTALLATION NAME: LYCOMING COUNTY MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

Following this header sheet is project documentation including cost estimates, for newly identified RPMA projects. Work for these projects should be accomplished using the IMPAC Card.

RPMA PROJECT (IMPAC)

INSTALLATION: Lycoming County Memorial USAR Center

PROJECT NUMBER: IC-1

PROJECT NAME: Miscellaneous Spot Painting
PROJECT DESCRIPTION:

Spot paint various items identified below on the exterior of the main building and the OMS [remove rust, prime and provide two finished coats]:

a. Door bumper guards at the OMS, 6 each - Safety Yellow
b. Lights above OMS doors, 5 each - Bronze
c. Front Foyer and doors (300SF surface area) – White
d. Flag pole (45-50 ft) - Silver

DESCRIPTION OF CURRENT CONDITIONS/JUSTIFICATION:

Painting will extend life , improve appearance and prevent further deterioration.

RECOMMENDED METHOD FOR ACCOMPLISHING WORK: IMPAC

ESTIMATED YEARS OF REMAINING LIFE: Other then foyer and doors 15 years. Foyer and doors 5-8

SKETCHES: None

PHOTOS: None

FIELD NOTES: None

COST ESTIMATE: $1700.00

COPY OF DA FORM 4283: Not Applicable

RPMA PROJECT (IMPAC)

INSTALLATION: Lycoming County Memorial USAR Center

PROJECT NUMBER: IC-2

PROJECT NAME: Repair Exterior Security Lighting.

PROJECT DESCRIPTION:

Repair exterior wall mounted security lights: one on the NW Corner of the assembly hall, the second at the rear of the main center building [center mounted fixture]. Ensure all 6 lights are properly aimed to maximize light dispersion and illuminate dead spaces

DESCRIPTION OF CURRENT CONDITIONS/JUSTIFICATION:

Lights are not functioning properly and as such present an increased security concern.

RECOMMENDED METHOD FOR ACCOMPLISHING WORK: IMPAC

ESTIMATED YEARS OF REMAINING LIFE: Repairs should be made as soon as possible and fixtures have 8-10 year life expectancy.

SKETCHES: None

PHOTOS: None

FIELD NOTES: None

COST ESTIMATE: $330.00

COPY OF DA FORM 4283: Not Applicable

RPMA PROJECT (IMPAC)

INSTALLATION: Lycoming County Memorial USAR Center

PROJECT NUMBER: IC-3

PROJECT NAME: Plumbing Repairs – Second Floor Men's Latrine

PROJECT DESCRIPTION:

Repair leaking flush-o-meter and shower in second floor men's latrine.

DESCRIPTION OF CURRENT CONDITIONS/JUSTIFICATION:

Water is being wasted and unnecessary waste of energy associated with the loss of heated water.

RECOMMENDED METHOD FOR ACCOMPLISHING WORK: IMPAC

ESTIMATED YEARS OF REMAINING LIFE: 10

SKETCHES: None

PHOTOS: None

FIELD NOTES: None

COST ESTIMATE: $120.00

COPY OF DA FORM 4283: Not Applicable

RPMA PROJECT (IMPAC)

INSTALLATION: Lycoming County Memorial USAR Center

PROJECT NUMBER: IC-4

PROJECT NAME: Clean Wash Rack Catch Basin

PROJECT DESCRIPTION:

Clean the vehicle wash rack catch basin and snake the drain as necessary

DESCRIPTION OF CURRENT CONDITIONS/JUSTIFICATION:

Drain is plugged and damage associated with the freeze thaw cycle could result in damage to the catch basin or piping.

RECOMMENDED METHOD FOR ACCOMPLISHING WORK: IMPAC

ESTIMATED YEARS OF REMAINING LIFE: 15

SKETCHES: None

PHOTOS: None

FIELD NOTES: None

COST ESTIMATE: $200.00

COPY OF DA FORM 4283: Not Applicable

RPMA PROJECT (IMPAC)

INSTALLATION: Lycoming County Memorial USAR Center

PROJECT NUMBER: IC-5

PROJECT NAME: Remount Downspouting

PROJECT DESCRIPTION:

Downspouts have come loose or completely of the wall mountings at the center. Remount the downspouts and tie into Cast iron piping where applicable. [

DESCRIPTION OF CURRENT CONDITIONS/JUSTIFICATION:

Erosion and damage to the building foundation and walls could occur.

RECOMMENDED METHOD FOR ACCOMPLISHING WORK: IMPAC

ESTIMATED YEARS OF REMAINING LIFE: 10.

SKETCHES: None

PHOTOS: None

FIELD NOTES: None

COST ESTIMATE: $150.00

COPY OF DA FORM 4283: Not Applicable

RPMA PROJECT (IMPAC)

INSTALLATION: Lycoming County Memorial USAR Center

PROJECT NUMBER: IC-6

PROJECT NAME: Finalize Closure of Grease Pit

PROJECT DESCRIPTION: Remove any conduit, hangers and boxes that are carrying only electrical wiring for the pit lighting, and exhaust system. Cut conduit flush with the masonry surface and seal opening flush with the floor. Label electrical panel to reflect changes. Remove pit exhaust fan (ceiling mounted) and ductwork. Close, seal and insulate roof penetration (within exhaust hood). Remove the concrete pit curbing and the two tile ducts (8") that project above the floor, to at least 2-1/2 inches below the surface of the finished floor. Backfill tile exhaust ducts, in 6' lifts with crushed stone. Install vapor barrier and cap with 4 inches of concrete flush with the existing floor. Surface (finish) concrete to match the existing floor.

DESCRIPTION OF CURRENT CONDITIONS/JUSTIFICATION:

Pit is no longer used due to the confined space and possible environmental problems and has been filled in and capped with concrete. The remaining hardware should also be removed as it serves no useful purpose.

RECOMMENDED METHOD FOR ACCOMPLISHING WORK: IMPAC

ESTIMATED YEARS OF REMAINING LIFE: N/A

SKETCHES: None

PHOTOS: None

FIELD NOTES: None

COST ESTIMATE: $350.00

COPY OF DA FORM 4283: Not Applicable

RPMA PROJECT (IMPAC)

INSTALLATION: Lycoming County Memorial USAR Center

PROJECT NUMBER: IC-7

PROJECT NAME: Reset Fence Post

PROJECT DESCRIPTION:

Fence post at the NW corner of the OMS should be removed and replaced in a vertical position. The new post should match the existing and should be have a new concrete base that is not tapered Fence fabric, anchors, and all existing attachments should be re-secured and proper tension reestablished.

DESCRIPTION OF CURRENT CONDITIONS/JUSTIFICATION:

This corner fence post has moved away from the corner of the OMS to the point personnel could easily pass between the wall and the post. Due to the shape of the concrete base, wider at the top then the base, the frost has been a key factor in raising this out of the ground.

RECOMMENDED METHOD FOR ACCOMPLISHING WORK: IMPAC

ESTIMATED YEARS OF REMAINING LIFE: 10.

SKETCHES: None

PHOTOS: None

FIELD NOTES: None

COST ESTIMATE: $450.00

COPY OF DA FORM 4283: Not Applicable

INSTALLATION NAME: LYCOMING COUNTY MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

One contract project was identified for this facility.

RPMA PROJECT (CONTRACT)

INSTALLATION: LYCOMING County Memorial USAR Center

PROJECT NUMBER: PA148-1

PROJECT NAME: Repair Erosion Damage at Stream Embankment

PROJECT DESCRIPTION:

Repair damage to erosion control system. Remove the existing gabion wall at its point of failure. Establish new wall and extend to bend in stream to prevent wash behind; consider using double gabions for a base in lieu of single gabions. Alternate would include large riprap at base or for entire replacement. Coordination with state environmental office is critical for this project. (see previous repair project for reference- files transferred to Oakdale 99th RSC as part of real property records.)

DESCRIPTION OF CURRENT CONDITIONS AND JUSTIFICATION:

Currently the gabions, on the upstream end, have been undercut and are collapsing. Erosion has continued to wash away the soil behind them. If efforts are not initiated to stop this erosion, the stream will alter its course and wash the soil away behind the entire length of the gabion wall, potentially eroding to the POV parking area.

RECOMMENDED METHOD FOR ACCOMPLISHING WORK: Contract

ESTIMATED YEARS OF REMAINING LIFE: Work should be scheduled for as soon as possible to prevent additional damage.

SKETCHES: None

PHOTOS: None

FIELD NOTES: None

COST ESTIMATE: $15,605 (See Appendix 2)

APPENDIX 1 TO RPMA PROJECT NUMBER PA148-1

COST ESTIMATE

COST ESTIMATE NUMBER: **PA148-1**

TYPE PROJECT: New Work __ Repair **X** Maintenance __ EIP __ Other *(specify)*

RECOMMENDED METHOD OF ACCOMPLISHMENT:
DESIGN: A/E Contract ___ 416th ENCOM __ Not Required X Other_____
CONSTRUCTION: Contract **X** Local Purchase __ Self Help/Troop
SDEH In-House __ Other

SHORT JOB DESCRIPTION: **Repair Stream Bank**

DESCRIPTION OF WORK: DETAILED COST ESTIMATE: (SHEET 1 OF 1)

ITEM	UM	QTY	UNIT COST	TOTAL COST
Excavate damaged wall (salvage stone)	**LF**	**24**	**10**	**240**
Stream Protection	**LS**	**1**	**1200**	**1,200**
Install rip-rap [in place]	**TN**	**160**	**35**	**5,600**
Backfill soil / install geotextile membrane	**TN**	**20**	**15**	**300**
Mobilization	**LS**	**1**	**250**	**250**
Permits	**LS**	**1**	**150**	**150**
Sub Total:				**7,740**
OVERHEAD & PROFIT (**25%**)				*$1,935*
PROJECT TOTAL:				*$9,675*
CONTINGENCY (10%)				*$ 968*
TOTAL REQUEST:				**$10,643**

Estimates are: **X** Current Year / FY_____ Dollars
Prepared By: **LTC Hugar**
Date Prepared: **24 Jul 1998**

RPMA PROJECT (CONTRACT-A&E Services)

INSTALLATION: LYCOMING County Memorial USAR Center

PROJECT NUMBER: PA148-2

PROJECT NAME: Prepare Asbestos Management Plan

PROJECT DESCRIPTION:

Prepare an Asbestos Management Plan as per the requirements of AR 200-1, Paragraph 10-3. The plan may require the sampling of additional materials to determine if they contain asbestos. The plan will require the research of previous records/surveys and test results; real property records (construction specifications, product submittals, drawings). The plan will identify the locations of all ACM identify restrictions for self-help and service and construction contract work and other requirements identified in AR 200-1. (See previous repair projects/ Engineering Surveys for reference- files transferred to Oakdale 99th RSC as part of real property records.) See ECAS Findings.

DESCRIPTION OF CURRENT CONDITIONS AND JUSTIFICATION:

ACM may exist in various areas of the Reserve Center – from floor tile to inaccessible pipe insulation, to ceiling tile or wall coverings- personnel conducting work in the facility may not be aware of the presence of ACM and could accidentally cause friable ACM to be released to the breathing area or through aggressive means cause non- friable material to become friable.

RECOMMENDED METHOD FOR ACCOMPLISHING WORK: Contract - 416th ENCOM support may be available if funding could be provided.

ESTIMATED YEARS OF REMAINING LIFE: NA

SKETCHES: None

PHOTOS: None

FIELD NOTES: None

COST ESTIMATE: $8,500

4.C. INTERSERVICE SUPPORT AGREEMENT

INSTALLATION NAME: LYCOMING COUNTY MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

No project documentation for the INTERSERVICE SUPPORT AGREEMENT is identified for this facility.

SECTION 5
TO ENCLOSURE 1: EXISTING WORK REQUIREMENTS OR UNCOMPLETED WORK REQUESTS REVIEW COMMENTS

INSTALLATION NAME: LYCOMING COUNTY MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

The facility's existing Work Requests were reviewed and the following comments are provided:

a. VJ 0000155P 95/02/08 Replace Ceiling Blocks/Floor Tile

Comment: Floor Tile should be treated as containing asbestos unless otherwise test and confirmed not to be ACM. Exposed piping was removed of ACM as part of the HVAC replacement. Pipe insulation above fixed ceilings may contain asbestos and likewise debris on the tops of the ceiling tile.

b. VJ 0120407K 97/03/23 Remove Four Each Trees Located Close to Building

Comment: It is not clear as to what trees that are indicated here. Landscaping at the entire facility should be evaluated. Shrubs adjacent to the main building are very large and appear to have been damaged as a result of snow loading; Settling and/or erosion have resulted in the ground adjacent to the building sloping toward the building instead of away from the foundation; Most larger trees need trimmed.

c. VJ 0120437K 97/03/23 Up-grade Exit Signs & Emergency Lighting

Comment: This need to be acted on as many of the emergency exit lights are inoperative (need bulbs).

d. VJ 0120447K 97/03/23 Install Ground Fault Receptacles /Replace Covers

Comment: Besides the obvious places like the Latrines don't forget the janitors closet and the water fountains.

e. VJ0120368M 97/10/22 AC Shutoff Heat Start up & Service

Comment: The control system is a key to energy conversation, minimizing equipment operation and optimizing its performance. The controls were intended to adjust boiler water temperature and shut down the boiler(s) based on outside air temperature. This adjustment based on outside air temperature was not occurring. This control system needs serviced by qualified personnel. This system should also be verified by the manufacture to be Year 2000 (Y2K) compatible in adequate time to allow its repair or replacement.

ENCLOSURE 2
ENERGY AUDIT

USAR FACILITY
ENERGY AUDIT REPORT

for the

LYCOMING MEMORIAL USAR CENTER

WILLIAMSPORT, PA

Prepared by the

416TH ENCOM FE TDA

FT. MEADE, MD: ESG-E

Fort Indiantown Gap FET

Performed on

28-29 APRIL 1998

416th ENGINEER COMMAND
USAR FACILITY
TOTAL FACILITY ASSESSMENT

ENERGY AUDIT REPORT

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER NAME
INSTALLATION NUMBER: PA148 DATE: 28-29, April 1998

TABLE OF CONTENTS

SECTION 1: ENERGY AUDIT EXECUTIVE SUMMARY

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148

1. As part of the Total Facility Assessment (TFA) conducted at the USAR Center, an Energy Audit was conducted. The center consists of two buildings; the main USAR Center, and the Organizational Maintenance Shop. The main building is a two story brick structure while the OMS is a single story brick structure. The buildings are fully utilized along with the MEP and the POV areas. The MEP complex is fenced. The surrounding area consists of small business and residential facilities. The facility is occupied by the 327th Corps Support Battalion HQ, 442 det., and 814 det. Both detachments are Quartermaster Units

2. Several of the critical problems identified at the facility can be accomplished relatively inexpensively using self-help funding or can be resolved by modifying management practices at the facility. These operational opportunities include installing energy reminder stickers. The remainder of the items will need more substantial amounts of money to provide greater energy efficiency at this facility. The low and higher cost opportunities include caulk and weather strip doors, reduce operation for space heating system, install occupancy sensors, install fluorescent fixtures in the exit signs, and replacement of inefficient ballast's with T8 lighting fixtures.

3. A copy of this report shall be submitted to the 416th ENCOM FETDA ESG Design Team for creation of the appropriate documentation to obtain ECIP, FEMP, or other available Energy Conservation funding. Section 6 of this report identifies several potential Energy Conservation Opportunities, as presented in the A&E Guide to Energy Conservation in Existing Buildings.

4. The facility is striving to implement an active Energy Conservation Awareness Program. Mr. Donahue was extremely helpful and has already identified some of the concerns prior to the audit. He expressed his appreciation for our audit of his facility and promised to assign high priority to modifying some of the management practices that can result in immediate increases in facility energy efficiency.

James L. Hugar
LTC, EN, USAR
Team Leader

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

STREET ADDRESS: 1605 Four Mile Drive
CITY/TOWN: Williamsport
STATE: PA
ZIP CODE: 17701-1989

RSC/RSG: 99TH, Oakdale, Pa.

FACILITY TYPE:

A. USARC:	_X_	B. AFRC:	___	C. OMS:	_X_	D. FLIGHT:	___
E. DS/GS:	___	F. MED:	___	G. WET:	___	H. FLIGHT:	___
I. ECS:	___	J. CTF:	___	K. OTHER:	_____		

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FE TDA Team

FACILITY ENGINEERING TEAM INCLUDED:

LTC James Hugar
LTC Louis Berman
MAJ John Holtzman
SFC Joseph Baran

REFER TO FOR INFORMATION: Lames Hugar
Work: (717) 770-5582
Home: (717) 866-2792

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER
Mr. Donahue	Facility Manager	(717) 322-4695

ASSESSMENT CONDUCTED FROM: 28 April 98/1000 (DATE/TIME) TO: 29 April 98/1600 (DATE/TIME)

DATE OF LAST AUDIT: NA
USARC 4283 (WORK ORDER) COMPLETED, YES _____ NO __X___

SECTION 3: UTILITY DATA

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

TABLE 1

Room No.	Room Name	Room Dimensions			Room Area	Room Volume	HVAC Code	Use Code
		Length (ft)	Width (ft)	Height (ft)	(sf)	(cf)		
100	South Entrance Lobby	26.50	19.16	9.08	508	4610	H	IA6
	Lobby Vestibule	10.75	4.75	7.08	51	362	H	IA6
101	S2/3 Office	19.00	16.66	8.16	317	2583	HA	IA2
102	S1 Office	19.00	12.92	8.16	245	2003	HA	IA2
103	NCO Office	19.00	7.66	8.83	146	1285	HA	IA2
104	Mail Room	19.00	8.00	10.00	152	1520	H	IA5
104A	Arms Vault	30.00	19.00	9.83	570	5603	U	ID1
105	Latrine, Men	15.16	9.00	8.00	136	1092	H	IH1
105A	Janitors Closet	11.25	6.00	9.00	68	608	H	IF4
105A	Entrance Hallway	6.00	3.50	9.50	21	200	H	CA
106	Kitchen	15.50	16.25	9.50	252	2393	H	IC
108	SSA Office	12.00	15.50	9.00	186	1674	HA	IA2
109	XO Office	8.50	15.50	9.00	132	1186	HA	IA2
110	NBC Storage	11.75	15.50	9.00	182	1639	HA	IF1
111	Day Room	19.00	31.00	8.16	589	4806	HA	IB1
112	Office	19.00	8.00	9.25	152	1406	HA	IA5
113	Janitors Closet	5.00	5.00	8.00	25	200	U	IF4
114	Classroom	76.33	19.00	8.44	1450	12240	HA	IE1
114A	Storage	19.00	8.00	9.25	152	1406	H	IF1
115	Supply	19.00	44.50	9.25	846	7821	H	IF3
116	Admin Office	19.00	20.66	8.00	393	3140	HA	IA5
118	Latrine, Women	19.00	13.00	8.00	247	1976	H	IH2
120	Boiler Room	19.00	35.50	14.16	675	9551	H	IH7
120A	Boiler Room Coal Room	24.00	15.66	7.00	376	2631	U	IF4
	Assembly Hall	60.00	50.00	22.00	3000	66000	H	IB1
	Assembly Hall Corridor	33.75	8.00	8.25	270	2228	H	CA
	Corridor, E-W, 1st Floor	164.00	6.25	8.83	1025	9051	H	CA
	2nd Floor Lobby	18.00	19.33	9.75	348	3392	H	IA6
201	Office	28.00	19.42	9.75	544	5302	HA	IA3
202	Office	19.42	10.00	9.75	194	1893	HA	IA3
203	Office	12.00	19.33	8.33	232	1932	HA	IA3
204	Office	12.50	19.33	8.33	242	2013	HA	IA3
205	Office	19.33	13.00	8.00	251	2010	HA	IA3
206	Office	15.75	10.66	8.00	168	1343	HA	IA3
207	Classroom	30.00	19.33	9.75	580	5654	HA	IE1
208	Classroom	28.00	19.33	9.70	541	5250	HA	IE1
209	Office	32.58	19.33	9.33	630	5876	HA	IA3
210	Office	32.58	19.33	9.33	630	5876	HA	IA3
211	Office	30.83	19.33	8.00	596	4768	HA	IA3
211A	Janitors Closet	7.50	4.58	10.00	34	344	H	IF4
212	Latrine, Men	16.92	19.16	8.50	324	2756	H	IH1
213	Classroom	29.00	19.33	9.50	561	5325	HA	IE1
215	Storage	26.00	19.33	9.50	503	4775	H	IF1
	East Stairwell	15.08	8.00	21.00	121	2533	H	CA
	West Stairwell	15.08	8.00	21.00	121	2533	H	CA
	Corridor, E-W, 2nd Floor	164.00	6.25	8.83	1025	9051	H	CA
	TOTAL				**19807**			
	OMS	52.00	67.66	15.00	3518	52775	H	IIA
	TOTAL				**3518**			

ENERGY CONSUMPTION SUMMARY:
Average of FY 94 and 95.

I - ENERGY COSTS	
Annual Dollar Cost - Natural Gas	8869.00
Annual Dollar Cost - Electricity	8003.00
Annual Dollar Cost - Fuel Oil	0.00
Annual Dollar Cost - Propane	0.00
Annual Dollar Cost - Other Fuels	0.00
TOTAL ENERGY COSTS	16872.00

II - ENERGY CONSUMPTION		MBTU
A	Total Natural Gas energy Use	324.00
B	Total Electricity Use	291.00
C	Total Other Fuel Use	0.00
TOTAL ENERGY USE		615.00

SECTION 4: RISER ENERGY DATA OR UTILITY COMPANY PRINTOUTS

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

See the following pages for utility company printouts.

		ELECTRIC FY 1996	CUM	CUM
		SWJ3	CONS	COST
PA056	YC	LANCASTER	229320	17491.85
PA058	VB	LEWISBURG	86800	7485.06
PA059	WB	LEWISTOWN	110960	11020.17
PA060	VL	LOCK HAVEN	103760	9318.41
PA061	XV	MARCUS HOOK(REIMB)	89108	9548.96
PA061	XV	MARCUS HOOK	352770	38855.67
PA068	XN	NORRISTOWN	11518	3172.02
PA074	XP	PHILADELPHIA(REIMB)	554800	54348.21
PA076	XS	GERMANTOWN	172750	17816.50
PA086	YB	READING 5980	250160	19647.63
PA086	YB	READING 6110	0	54.84
PA088	U2	SCHYKIL HVN 720	139040	11247.70
PA088	U2	SCHYKIL HVN 710	0	788.79
PA089	U6	SCRANTON	120200	10126.55
PA090	VC	STATE COLLEGE	106200	7613.70
PA097	U3	WEST HAZELTON	57800	5956.52
PA099	U4	W-B(PLAINS) 0090	0	432.25
PA099	U4	W-B(PLAINS) 6630	57384	6154.35
PA135	WA	YORK	78035	7087.76
PA137	XA	WILLOW GROVE(WURTS)	1112800	100672.59
PA139	XC	NORRISTOWN	301300	36640.04
PA148	VJ	WILLIAMSPORT	82680	7623.77
PA152	U5	WILKES-BARRE AMSA	30400	4809.81
WV002	54	BECKLEY #3	195600	11877.41
WV002	43	BEAVER	174720	10199.28
WV005	8P	BLUEFIELD	11840	681.58
WV005	8P	BLUEFIELD O/L	0	20.38
WV006	87	CHARLESTON (REIMB)	391360	21830.91
WV008	8S	CLARKSBURG USARC	76900	5429.85
WV009	5T	CLARKSBURG AMS#2 301	14298	1179.57
WV009	5T	CLARKSBURG AMS#2 401	69600	4979.18
WV010	8T	CLARKSBURG (NEW)	3840	344.53
WV011	6E	ELKINS NEW LOC ECM	11222	791.36
WV013	8V	FAIRMONT ECM	85600	6567.15
WV014	9M	GRAFTON	76960	5994.59
WV017	8X	HUNTINGTON	96690	5886.29
WV017	8X	HUNTINGTON O/L	0	390.45
WV018	4D	HUNTINGTON #2 004	74240	4754.91
WV018	4D	HUNTINGTON #2 703	80290	4924.20
WV021	9P	KINGWOOD 682 ECM	1103	163.82
WV021	9P	KINGWOOD 652 ECM	6844	798.85
WV021	9P	KINGWOOD 634 ECM	6223	714.86
WV012	41	BEVERLY	125360	8003.04
WV022	45	KINGWOOD (NEW)	90560	6555.87
WV029	69	MORGANTOWN	191200	12471.07
WV030	9B	MYRTLE	10920	751.25
WV030	9B	MYRTLE O/L	0	22.72
WV031	8Z	NEW MARTINSVILLE #1	67840	4573.00
WV046	81	PARKERSBURG CAM C02	233520	14458.35
WV033	83	RAINELLE (OLD)	21756	1562.14
WV035	47	RAINELLE (NEW)	194760	12240.23
WV037	85	RIPLEY	89940	5147.96

		ELECTRIC FY 1997 5WAC	CUM CONS	CUM COST
PA052	6N	JOHNSTOWN #2	142140	13861.67
PA053	7Z	JOHNSTOWN #1	198600	15260.14
PA055	9H	KITTANNING	114480	7546.64
PA056	YC	LANCASTER	182560	14229.65
PA057	6P	OCIE WREHSE(LATROBE)	18955	1341.80
PA058	VB	LEWISBURG	89040	7672.92
PA059	WB	LEWISTOWN	86160	10135.05
PA060	VL	LOCK HAVEN	132160	10523.84
PA061	XV	MARCUS HOOK(REIMB)	76375	9167.93
PA061	XV	MARCUS HOOK	178370	20662.53
PA062	71	MEADVILLE	47797	5398.84
PA063	73	NEW CASTLE USARC	125160	10141.07
PA065	91	NEW CASTLE AMSA	58174	6494.13
PA067	75	NEW KENSINGTON	107680	6354.13
PA068	XN	NORRISTOWN	12240	2073.95
PA073	78	OIL CITY	30440	4004.93
PA074	XP	PHILADELPHIA(REIMB)	496000	49145.91
PA076	XS	GERMANTOWN	149510	18171.30
PA077	8A	SAW MILL RUN BLVD	3920	363.24
PA078	79	AURELIA ST. PGH	123840	13890.77
PA079	8C	LEECH FARM ROAD.PGH	266220	28637.01
PA080	8E	PUNXSUTAWNEY USARC	52680	5060.34
PA081	93	PUNXSUTAWNEY AMSA	42333	4365.51
PA086	YB	READING 5980	201360	17470.93
PA087	8G	ST. MARY'S	2880	267.74
PA088	U2	SCHYKIL HVN 720	252840	11698.14
PA088	U2	SCHYKIL HVN 710	0	32.31
PA089	U6	SCRANTON	134920	10084.56
PA090	VC	STATE COLLEGE	203320	7133.31
PA095	8J	UNIONTOWN	111800	6825.37
PA096	8L	WASHINGTON	118440	8264.57
PA097	U3	WEST HAZELTON	44730	4529.79
PA099	U4	W-B(PLAINS) 0090	0	432.31
PA099	U4	W-B(PLAINS) 6630	56220	5810.94
PA135	WA	YORK	84624	7134.61
PA137	XA	WILLOW GROVE(WURTS)	846300	79694.54
PA139	XC	NORRISTOWN	258200	33780.07
PA148	VJ	WILLIAMSPORT	100520	8381.01
PA152	U5	WILKES-BARRE AMSA	37440	5491.48
PA157	9Z	FRANKLIN AMS #2 311	23679	2054.99
PA157	9Z	FRANKLIN AMS #2 218	71528	6810.38
PA162	8H	ST MARYS (LEASE)	15311	1259.49
VA001	3F	ABINGDON	80960	4684.46
VA002	M5	ALEXANDRIA - LIEBER	93440	12350.17
VA003	M8	ALEXANDRIA JONES PT	14480	1081.74
VA004	3J	BRISTOL	0	11.33
VA006	3E	CHARLOTTESVILLE	111760	7706.36
VA010	3G	COVINGTON	99040	7172.44
VA011	M2	CULPEPER	105440	7641.77
VA012	3W	DUBLIN	191500	10156.00
VA033	3D	GALAX	156240	9559.76

NATURAL GAS FY 97

		NATURAL GAS	CUM'	CUM
		SWAD	CONS	COST
	PA055	9H	KITTANNING	930	6821.36
	PA056	YC	LANCASTER	2047	17275.76
	PA057	6P	OCIE WAREHOUSE(LATRBE)	380	2837.88
	PA059	WB	LEWISTOWN	1017	6359.72
	PA060	VL	LOCKHAVEN 1051150	377	3615.90
	PA060	VL	LOCKHAVEN 1051127	657	4321.29
	PA061	XV	MARCUS HOOK(REIMB)	563	4317.24
	PA062	71	MEADVILLE	1673	12008.93
	PA063	73	NEW CASTLE USARC	1229	8031.72
	PA065	91	NEW CASTLE AMSA	1039	6795.32
	PA067	75	NEW KENSINGTON	3190	14791.83
	PA068	XN	NORRISTOWN	1004	8434.33
	PA070	8N	RES ST & MAINT	736	7256.95
	PA073	78	OIL CITY	1346	13043.26
	PA074	XP	PHILLY 90070(REIMB)	400	3630.07
*	PA074	XP	PHILLY 80090(REIMB)	4202	36474.52
	PA076	XS	GERMANTOWN	1260	10894.76
	PA077	8A	SAW MILL RUN BLVD	38	333.83
	PA078	79	AURELIA ST PGH.	3565	25532.51
	PA079	8C	LEECH FARM RD.PGH.	3046	23717.79
	PA080	8E	PUNXSUTAWNEY USARC	2123	13539.75
	PA081	93	PUNXSUTAWNEY AMSA	1134	7740.38
	PA086	YB	READING	1757	14763.96
	PA087	8G	ST MARYS	334	1639.99
	PA088	U2	SCHUYLKILL HAVEN	1731	10415.16
	PA089	U6	SCRANTON 9861	1337	7804.10
	PA089	U6	SCRANTON 7042	633	4069.17
	PA095	8J	UNIONTOWN	1710	11206.83
	PA096	8L	WASHINGTON	1331	14282.14
	PA097	U3	WEST HAZLETON	1375	10647.05
	PA099	U4	WILKES-BARRE(PLAINS)	3038	12037.01
	PA135	WA	YORK	1072	7065.39
	PA139	XC	NORRISTOWN 1015	1336	8978.54
	PA139	XC	NORRISTOWN 1412	380	6362.63
	PA139	XC	NORRISTOWN 1214	31	282.68
	PA139	XC	NORRISTOWN 1313	22	226.54
	PA148	VJ	WILLIAMSPORT	1568	9845.95
	PA152	U5	WILKES-BARRE AMSA	1000	5306.05
	PA157	9Z	FRANKLIN AMSA #2	1815	12356.10
	VA001	3F	ABINGDON 45040-3	0	909.32
	VA001	3F	ABINGDON 44961-1	393	2654.37
	VA006	3E	CHARLOTTSVILLE	590	3967.84
	VA010	3G	COVINGTON	296	2046.33
	VA011	M2	CULPEPER	451	2946.95
	VA039	3I	MARION 48532-5	535	3556.20
	VA039	3I	MARION 48534-2	693	4371.79
	VA041	4I	MARTINSVILLE	924	5796.30
	VA048	3C	RICHMOND	84	694.75
	VA051	3B	SALEM	1363	8841.18
	WV002	43	BEAVER	2358	15313.33

PREPARED BY: NANCY MILLIARD

NATURAL GAS FY 96

			SWJ4	CUM'	CUM
			NATURAL GAS	CONS	COST
	PA074	XP	PHILLY 05017(REIMB)	1763	14807.51
	PA074	XP	PHILLY 00012(REIMB)	6222	51385.65
	PA076	XS	GERMANTOWN	1936	15211.66
	PA086	YB	READING	1615	12390.05
	PA088	U2	SCHUYLKILL HAVEN	1531	8280.09
	PA089	U6	SCRANTON 9861	1320	6637.14
	PA089	U6	SCRANTON 7042	627	3229.05
	PA097	U3	WEST HAZLETON	697	5689.50
	PA099	U4	WILKES-BARRE(PLAINS)	2092	10460.78
	PA135	WA	YORK	1147	5878.02
	PA139	XC	NORRISTOWN 1016	973	6140.90
	PA139	XC	NORRISTOWN 1412	637	4020.97
	PA139	XC	NORRISTOWN 1214	13	222.88
	PA139	XC	NORRISTOWN 1313	51	444.11
	PA148	VJ	WILLIAMSPORT	1572	7891.38
	PA152	U5	WILKES-BARRE AMSA	1069	5399.12
	WV003	54	BECKLEY #3 DRY HILL	1901	10884.53
	WV002	43	BEAVER	2195	12547.59
	WV005	8P	BLUEFIELD	150	733.03
	WV006	87	CHARLESTON(REIMB)	1945	13153.55
	WV008	8S	CLARKSBURG USARC	1140	7786.47
	WV009	5T	CLARKSBURG AMSA #2	901	5961.09
	WV010	8T	CLARKSBURG (NEW)	7	34.93
	WV012	41	BEVERLY (ELKINS)	2226	12455.86
	WV013	8V	FAIRMONT	1014	8372.70
	WV014	9M	GRAFTON	874	6954.50
	WV017	8X	HUNTINGTON	2058	11387.39
	WV018	4D	HUNTINGTON #2 002	299	1854.75
	WV018	4D	HUNTINGTON #2 005	947	5393.30
	WV021	9P	KINGWOOD 912	445	2539.95
	WV021	9P	KINGWOOD 913	87	625.62
	WV021	9P	KINGWOOD 915	93	728.96
	WV022	45	KINGWOOD (NEW)	1392	7866.74
	WV029	69	MORGANTOWN	2189	14252.89
	WV031	8Z	NEW MARTINSVILLE	713	4263.02
	WV046	81	PARKERSBURG CAM	2252	15047.31
	WV037	85	RIPLEY	1070	6279.71
	WV039	61	VALLEY GRVE AMSA	931	5303.28
	WV041	89	WEIRTON	1552	9028.28
	WV043	67	WHEELING	1790	10492.80
	DE005	4M	WILMINGTON	1311	7077.33
	MD002	4F	BALTIMORE - BRANDT	2063	11640.70
	MD003	4T	BALTIMORE-SHERIDAN	2005	11136.04
	MD004	4Y	BALTIMORE-TURNER	596	3517.69
	MD005	4L	BALTIMORE-JECELIN	1432	8178.96
	MD008	TRB	FT MEADE-DEKALB 13632	1175	6660.96
	MD008	TRB	FT MEADE-DEKALB 01132	777	4657.32
*	MD008	TRB	FT MEADE-ODENTON RD	1203	11358.37
	MD013	4Q	GAITHERSBURG	729	4022.18
	MD016	4W	WASHINGTON DC 503	1895	10274.38

			SWJ4	CUM	CUM
			NATURAL GAS	CONS	COST
	PA074	XP	PHILLY 05017(REIMB)	1763	14807.53
	PA074	XP	PHILLY 00012(REIMB)	6222	51385.65
	PA076	XS	GERMANTOWN	1936	15211.66
	PA086	YB	READING	1615	12390.05
	PA088	U2	SCHUYLKILL HAVEN	1531	8280.09
	PA089	U6	SCRANTON 9861	1320	6637.14
	PA089	U6	SCRANTON 7042	627	3229.05
	PA097	U3	WEST HAZLETON	697	5689.50
	PA099	U4	WILKES-BARRE(PLAINS)	2092	10460.78
	PA135	WA	YORK	1147	5878.02
	PA139	XC	NORRISTOWN 1016	973	6140.90
	PA139	XC	NORRISTOWN 1412	637	4020.97
	PA139	XC	NORRISTOWN 1214	13	222.88
	PA139	XC	NORRISTOWN 1313	51	444.11
	PA148	VJ	WILLIAMSPORT	1572	7891.38
	PA152	U5	WILKES-BARRE AMSA	1069	5399.12
	WV003	54	BECKLEY #3 DRY HILL	1901	10884.53
	WV002	43	BEAVER	2195	12547.59
	WV005	8P	BLUEFIELD	150	733.03
	WV006	87	CHARLESTON(REIMB)	1945	13153.55
	WV008	8S	CLARKSBURG USARC	1140	7786.47
	WV009	5T	CLARKSBURG AMSA #2	901	5961.09
	WV010	8T	CLARKSBURG (NEW)	7	34.93
	WV012	41	BEVERLY (ELKINS)	2226	12455.86
	WV013	8V	FAIRMONT	1014	8372.70
	WV014	9M	GRAFTON	874	6954.50
	WV017	8X	HUNTINGTON	2058	11387.39
	WV018	4D	HUNTINGTON #2 002	299	1854.75
	WV018	4D	HUNTINGTON #2 005	947	5393.30
	WV021	9P	KINGWOOD 912	445	2539.95
	WV021	9P	KINGWOOD 913	87	625.62
	WV021	9P	KINGWOOD 915	93	728.96
	WV022	45	KINGWOOD (NEW)	1392	7866.74
	WV029	69	MORGANTOWN	2189	14252.59
	WV031	8Z	NEW MARTINSVILLE	712	4263.02
	WV046	81	PARKERSBURG CAM	2252	15047.31
	WV037	85	RIPLEY	1070	6279.71
	WV039	61	VALLEY GRVE AMSA	931	5303.28
	WV041	89	WEIRTON	1552	9028.28
	WV043	67	WHEELING	1790	10492.80
	DE005	4M	WILMINGTON	1311	7077.33
	MD002	4F	BALTIMORE - BRANDT	2063	11640.70
	MD003	4T	BALTIMORE-SHERIDAN	2005	11136.04
	MD004	4Y	BALTIMORE-TURNER	596	3517.69
	MD005	4L	BALTIMORE-JECELIN	1432	8178.96
	MD008	TRB	FT MEADE-DEKALB 13632	1175	6660.95
	MD008	TRB	FT MEADE-DEKALB 01132	777	4557.22
*	MD008	TRB	FT MEADE-ODENTON RD	1203	11358.37
	MD013	4Q	GAITHERSBURG	729	4322.18
	MD016	4W	WASHINGTON DC 503	1895	10274.38

SECTION 5: FACILITY CHECKLIST SUMMARY

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

Checklist Area		Number of Checklist Items Showing Good Conservation Practices in Effect		
I	**BUILDING CONSTRUCTION PRACTICES**	#YES	#NO	#N/A
	A - Building Envelope	7	2	0
	B - Plumbing	3	3	4
	C - Electrical	2	6	0
	D - HVAC	8	2	2
	E - Total Responses	20	13	6
II	**OPERATION AND MAINTENANCE PRACTICES**	#YES	#NO	#N/A
	A - Building Envelope	6	1	0
	B - Plumbing	3	0	5
	C - Electrical	5	1	0
	D - HVAC	17	2	0
	E - Total Responses	31	4	5

SECTION 6: POTENTIAL ENERGY CONSERVATION OPPORTUNITIES

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

ECO #	ECO Description
ECO 1	Reduce operating hours for space heating
ECO 4	Reduce operating hours for lighting systems
ECO 24	Caulk and weather strip doors and windows
ECO 83	Install occupancy sensors
ECO 85	Use high-efficiency fluorescent lighting
ECO 88	Install high efficiency ballast

I. OPERATIONAL OPPORTUNITIES

A. ECO 4 Reduce operating hours for lighting systems

1. Problem - No stickers found to shut off lights when not in use.

2. Solution - Have energy stickers installed on all light switches

II. LOW COST OPPORTUNITIES

A. ECO 24 Caulk and weather strip doors and windows.

1. Problem - The exterior lobby doors does not have weather stripping.

2. Solution - Install new weather stripping on two lobby doors in two locations.

B. ECO 83 Install occupancy sensors

1. Problem - The classrooms and offices have no occupancy sensors.

2. Solution - Install (7) seven automatic occupancy sensors in the classrooms, dayroom and two high use office areas.

C. ECO 1 Reduce operating hours for space heating.

1. Problem - The heating controls require maintenance. At present the controls are constantly keeping the system on. The circulation pump has been turned off to stop the circulation of hot water.

2. Solution - Have maintenance contract to include emergency repairs to the heating system.

D. ECO 85 Use high efficiency fluorescent lighting.

1. Problem - Exit signs use incandescent light bulbs

2. Solution - Install 13 watt fluorescent fixtures to fit inside exit signs

III. HIGHER COST OPPORTUNITIES

A. ECO 85 Use high efficiency fluorescent lighting.

1. Problem - The center will require new lighting. The existing system is twelve years old. Although current system has 34 watt bulbs with energy ballast.

2. Solution - Replace lighting with high efficiency fluorescent lighting.

B. ECO 88 Install high efficiency ballast

1. Problem - The center has electronic ballast that are twelve years old and will require replacement ballast.

2. Solution - Replace electronic ballast with new high efficiency ballast to work with new energy bulbs.

APPENDIX A: FACILITY ENERGY AUDIT CHECKLISTS

APPENDIX A.1 - BUILDING CONSTRUCTION CHECKLISTS
APPENDIX A.1.1 - BUILDING ENVELOPE

		Yes	No	NA	No Obs	Rem
BE1	Heavily used entrances have vestibule (airlock) door system	X				
BE2	Wind screens installed to protect doors from prevailing winds		X			
BE3	Space around outside wall penetrations well sealed to reduce infiltration	X				
BE4	Building has required insulation and it is in good condition	X				
BE5	Energy efficient windows (multi-pane or storm) provided	X				
BE6	Energy efficient doors (i.e. insulated) provided		X			Original doors
BE7	Infiltration of unconditioned air minimized	X				
BE8	Automatic closures and weather stripping installed on doors between conditioned and unconditioned spaces	X				
BE9	Is winter sun used to heat rooms	X				
	TOTALS	7	2	0	0	

APPENDIX A.1.2 - PLUMBING

		Yes	No	NA	No Obs	Rem
PL1	Domestic hot water heater and storage system separate from boiler?	X				
PL2	Hot water piping and storage tanks properly insulated?	X				
PL3	Booster heaters used on kitchen equipment?			X		
PL4	Self-closing taps used on kitchen equipment & latrine?	X				
PL5	Electronic pilots used in lieu of standing gas pilots for water heaters?		X			
PL6	Hot water circulating pumps controlled by time switch?		X			
PL7	Are flow restrictors used on showers heads?		X			
PL8	Are steam traps used in heating system?			X		
PL9	Does steam trap discharge line return to boiler reservoir?			X		
PL10	Does steam trap overboard valve/float allow return to boiler reservoir?			X		
	TOTALS	3	3	4	0	

APPENDIX A.1.3 - ELECTRICAL

		Yes	No	NA	No Obs	Rem
EL1	Energy efficient security lighting (fluorescent, HID) installed?		X			
EL2	Exterior lighting controlled by time switch or photocell?		X			Building photo cell only
EL3	Walls and ceilings painted with light colored, reflective paint?	X				
EL4	Incandescent fixtures used only where appropriate?	X				
EL5	Are motion sensors used in low occupancy areas?		X			
EL6	Are electronic ballast's w/T8 fluorescent bulbs used?		X			self help some E.B. w/T12
EL7	Are compact fluorescent bulbs used in exit lamps?		X			
EL8	Are electrical outlets sealed to prevent air leakage?		X			
	TOTALS	2	6	0	0	

APPENDIX A.1.4 - HVAC

		Yes	No	NA	No Obs	Rem
HV1	Automatic setback controls or Energy Monitoring Control Systems provided for heating and cooling systems?	X				
HV2	Outer surfaces of boilers insulated to reduce heat loss?	X				
HV3	Boiler combustion air taken from top of boiler room to provide warmer air for increased efficiency?		X			
HV4	Thermostats are positioned away from outside walls, out of drafts, and in areas of frequent use?	X				
HV5	Individual controls provided to maintain lower temperatures in unoccupied areas?	X				
HV6	Automatic louvers/dampers provided on outside air openings?		X			
HV7	All heating/cooling piping and equipment (pipes, valves, boilers, etc.) insulated and in good condition?	X				
HV8	Are radiators/heat registers shut off completely in vestibules, corridors, stair ways and lobbies?	X				
HV9	Are drapes, shades or blinds drawn on windows where practical during cooling periods?	X				
HV10	All heating equipment (heat exchangers, economizers, condensate tanks) insulated and in good condition?	X				
HV11	Ducts passing through unconditioned spaces are insulated?			X		
HV12	High efficiency (EER at least 85) window air conditioners only?			X		
	TOTALS	8	2	2	0	

APPENDIX A.2 - OPERATIONS AND MAINTENANCE CHECKLISTS

APPENDIX A.2.1 - ENVELOPE

		Yes	No	NA	No Obs	Rem
BE1	Building insulation in good condition? (No wet, crumbly, cracked, broken or missing sections)	X				
BE2	Windows and doors free from broken or cracked glass?	X				crack in assembly hall
BE3	Are storm windows installed?	X				double insulated
BE4	Drapes, shades, and blinds installed and utilized?	X				
BE5	Are windows and other areas sealed properly?	X				
BE6	Doors fit securely in frames and have weather stripping?		X			original doors need replaced. no weather stripping
BE7	Are windows and skylights clean?	X				
	TOTALS	6	1	0	0	

APPENDIX A.2.2 - PLUMBING

		Yes	No	NA	No Obs	Rem
PL1	Are hot water temperatures set for 100° F max at destination?	X				
PL2	Faucets close properly?	X				
PL3	Hot water to areas shut down during periods of nonoccupancy?			X		
PL4	Water heating and distribution systems appear to be free from leaks?	X				
PL5	Is steam trap output re turning to boiler reservoir?			X		
PL6	During boiler operation, does steam trap overboard system operate minimally?			X		
PL7	Is the steam trap on a regular maintenance schedule?			X		
PL8	Has the steam trap been replaced within the previous 3 to 5 years?			X		
	TOTALS	3	0	5	0	

APPENDIX A.2.3 - ELECTRICAL

		Yes	No	NA	No Obs	Rem
EL1	Exterior lights turned off during daylight hours?	X				
EL2	Is there an energy conservation program?	X				
EL3	Are interior lights turned off in unoccupied areas?	X				
EL4	Partitions, lockers, etc. located so as to not unnecessarily block lighting?	X				
EL5	Are major appliances turned off during non drill periods?		X			
EL6	Have lights been removed from vending machines?	X				
	TOTALS	5	1	0	0	

APPENDIX A.2.4 - HVAC

		Yes	No	NA	No Obs	Rem
HV1	All coils, boiler tubes and heat transfer surfaces clean to maintain maximum heat transfer?	X				
HV2	System free from steam or water leaks?	X				
HV3	Meter and gauges operational?	X				
HV4	Are steam traps in place and maintained properly? (Bled periodically and repaired)			X		
HV5	Are radiators in vestibules, corridors, stairwell, and lobbies shut off?	X				
HV6	Thermostat setting adjusted during periods of nonoccupancy? (50-55 DEG F for heating and 80-85 DEG F for cooling)	X				
HV7	Thermostat settings set at 55 DEG F for areas of physical work? (Maintenance shops)	X				
HV8	Are heating vents/ducts unobstructed?	X				
HV9	Are cooling systems shut down during periods of nonoccupancy?	X				
HV10	Cooling limited to occupied areas only?	X				
HV11	Doors between conditioned and unconditioned areas are closed?	X				
HV12	Central units and cooling towers are clean and free from scale?	X				

HV13	Is evidence of preventative maintenance (PM) schedule in effect?	X				
HV14	Is outside air used for cooling?	X				
HV15	Room temperatures maintained properly during cooling season? (76-80 F)	X				
HV16	Refrigerant and water lines free of leaks?	X				
HV17	Are internal heat generating units minimized? (copiers, refrigerators, etc)	X				
HV18	Air conditioning vents or outside air intakes are clear from obstructions?	X				
HV19	Are window air conditioners covered during heating season?			X		
	TOTALS	17	0	2	0	

APPENDIX B: COUNT AND TYPE OF LIGHT FIXTURES

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148

Room No.	Fixture Type	Ballast Type	Number of Fixtures	Lamps/ Fixture	Watts/ Lamp	Total No. of Lamps	Lamp Length	Room Use
100	Fluor	E	6	1	34	6	4	Lobby
101	Fluor	EM	4	4	34	16		Office
102	Fluor	EM	4	4	34	16	4	Office
103	Fluor	E	2	4	34	8	4	Office
104	Fluor	E	2	2	34	4	4	Mail Room
104A	Fluor	EM	2	4	34	8	4	Arms Vault
104A	Inc		4	1		4		Arms Vault
105	Fluor	E	3	1	34	3	4	Men's Toilet
105A	Fluor	E	2	1	34	2	4	Janitor Closet
106	Fluor	E	4	2	34	8	4	Kitchen
108	Fluor	EM	3	4	34	12	4	Office
109	Fluor	E	2	2	34	4	4	Office
110	Fluor	EM	10	4	34	40	4	Storage
	Fluor	E	7	1	34	7	4	Corridor
111	Fluor	EM	10	4	34	40	4	Day room
112	Fluor	EM	2	4	34	8	4	Office
113	Inc		1	1	60	1		Janitor Closet
114	Fluor	E	20	4	34	80		Class Room
114A	Fluor	E	2	1	34	2	4	Storage
115	Fluor	E	9	2	34	18	4	Supply
116	Fluor	E	4	4	34	16	4	Adminstrative Area
118	Fluor	E	5	5	34	25	4	Women's Toilet
119	Fluor	E	2	1	34	2	4	Storage
120	Fluor	E	4	8	34	32	4	Boiler Room
	Fluor	E	1	1	34	1	4	Stairway 1
	Fluor	E	1	1	34	1	4	Stairway 2
	HPS		6	6	150	36		Assembly Hall
	Inc		1	1	150	1		Assembly Hall

Room No.	Fixture Type	Ballast Type	Number of Fixtures	Lamps/ Fixture	Watts/ Lamp	Total No. of Lamps	Lamp Length	Room Use
	Fluor	EM	8	4	34	32	4	Bay
			6	4	34	24	4	Office
			3	4	34	12	4	Storage
			6	1	150	6		POL Room

APPENDIX C - COUNT AND TYPE OF ELECTRIC MOTORS/HEATERS

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148

MOTORS - CENTER

QTY	TAG	MOTOR (HP)	KW INPUT	USE

MOTORS - OMS SHOP

QTY	TAG	MOTOR (HP)	KW INPUT	USE

BOILER LYCOMING MEMORIAL USAR CENTER

LOCATION	TYPE	M.B.H. INPUT	1BR NET M.B.H. OUTPUT	FLUE	FLUE TYPE	QTY	REMARKS
Rm 120	gas	325000	256750	8	stainless steel	3	installed 1988

UNIT HEATER SCHEDULE

QTY	ITEM	AREA	FUEL	INPUT (BTUH)	TYPE	VOLTAGE
1	UH1	Assembly Hall	gas	120000	Vented Radiant	120V 1Ph

MAKE-UP AIR UNIT SCHEDULE

QTY	ITEM	FUEL	INPUT (BTUH)	OUTPUT (BTUH)	CFM	ESP (INC WC)	MOTOR HP	VOLTAGE
1	MUA1	gas	270000	216000	3000	0.45"	1	208V 1Ph
1	MUA2	gas	90000	72000	1000	0.25"	0.5	120V 1Ph

CHILLER SCHEDULE

QTY	ITEM	COOLING CAPICITY (TONS)	FLOW (GPM)	ENTERING WATER TEMP	LEAVING WATER TEMP	WATER PRESURE DROP (FT)	O.A. TEMP	COMPRESSOR STEPS	VOLTAGE
1	CH1	30.25	73	55	45	10.6	89	3	208V 3PH

APPENDIX D: COUNT AND TYPE OF STEAM TRAPS

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148

STEAM TRAPS*

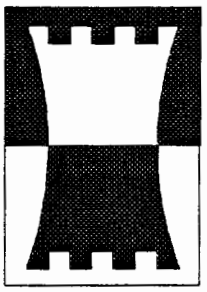
LOCATION	MANUFACTURER	IDENTIFYING NUMBER	REPAIR DATE

* If the facility has a boiler system that utilizes steam traps, provide any information from attached nameplates or that may be stamped into the body of the steam trap. If available, provide the age or replacement/repair date of the steam trap

APPENDIX E: PHOTOGRAPHS

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148

ENCLOSURE 3
SAFETY CHECKLIST ASSESSMENT



USAR FACILITY SAFETY CHECKLIST

for the

Lycoming Memorial

USAR Center

Williamsport ,PA

Prepared by the

416TH ENCOM FE TDA

FT. MEADE, MD: ESG-E

FORT INDIANTOWN GAP FET

Performed on

29 April 1998

416th ENGINEER COMMAND
USAR FACILITY
TOTAL FACILITY ASSESSMENT

SAFETY CHECKLIST

INSTALLATION NAME: **Lycoming Memorial USAR Center**
INSTALLATION NUMBER: **PA148** DATE: **29 April 1998**

TABLE OF CONTENTS

SECTION 1: EXECUTIVE SUMMARY

INSTALLATION NAME: **Lycoming Memorial USAR Center**
INSTALLATION NUMBER : **PA148**

1. The USARC lies in a residential section of Williamsport, PA. This facility consist of two buildings: the main USAR Center, and the OMS building. The USAR Center is home to HQS. 327th Corps Support BN with an assigned strength of approx. 60 . Detachment 1 of the 814th Quartermaster Co.with an assigned strength of 50, and 32 soldiers assigned to the 442nd Quartermaster Detachment. The Center is located at 1605 Four Mile Drive North of the town. The center is begining to show some wear, especially at the entrances on the cement steps and non-slip treads.

2. This document is a multi-part safety checklist for evaluation of U.S. Army Reserve (USAR) facilities. It is structured as a series of independent checklists which may be used to conduct a screening evaluation of the safety status for USAR facilities. Checklists are structured to allow use and evaluation by qualified 416th Engineer Command, Facility Engineer TDA Team personnel, with minimal additional safety training. The safety assessment was conducted using the checklist created by the USARC safety office, and using the CFR part 1910, September 1994 as the reference. The results of the assessment are as follows: one RAC(2), eight RAC(3), four RAC(4) and two RAC(5). The risk assessment codes are assigned to indicate the level of severity for the non-compliant item, with RAC(1) being the items that could most likely lead to death or significant damage to the facility or its systems. RAC(1) and RAC(2) items should be given immediate attention to preclude serious injury or damage.

SECTION	REGULATORY			MANAGEMENT		TOTAL
RISK ASSESSMENT CODES	1	2	3	4	5	
BATTERY SHOP						0
CHEMICAL STORAGE						0
COMPRESSED GAS CYLINDERS					1	1
CONFINED SPACE						0
ELECTRICAL/MECHANICAL		1	3	2		6
FIRE SAFETY/EGRESS			4		1	5
FLAMMABLE/COMBUSTIBLE LIQUID STORAGE						0
HOUSEKEEPING			1			1
LADDERS						0
SHOP AND MOTOR POOL				2		2
TOTALS	0	1	8	4	2	15

3. The items that need corrected immediately (RAC (2)) are:

a. A cover plate for the light switch in room 215 on the second floor needs to be placed on the box to eliminate the potential for electrical shock.

b. Cover plates for outlets located in room 215 along the outside wall are also missing. Replacement plates for these two outlets must be purchased and put in place to prevent the potential for electrical shock.

4. The items that need attention as soon as possible (RAC(3)) are:

a. An evaluation of the facility's grounding system should be done as soon as possible, to assure compliance with the National Electrical Code.

b. Additional missing cover plates were identified on the outlets in the Chaplains office , Room 206.

c. The kitchen area has one outlet within 6 feet of the sink being used by a Microwave oven and a coffee pot. This outlet is not an approved GFIC outlet.

5. All of the remaining items noted in the comments area of the checklist are RAC(4) and RAC(5) items. These items should be listed and addressed by the unit safety council. The acting facility manager, Mr. Thomas Donahue, was helpful and concerned with the safety issues and displayed a willingness to get problems resolved.

Louis D. Berman
LTC, EN, USAR
FIG, Team II Leader

SFC James P. Newcomer
416th ENCOM
Safety Inspector

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME:	**Lycoming County USAR Center**
IDENTIFICATION NUMBER:	**PA148**
STREET ADDRESS:	1605 Four Mile Road
CITY/TOWN:	Williamsport
STATE:	PA
ZIP CODE:	17701-1989
RSC/RSG:	99TH, Oakdale , PA

FACILITY TYPE:

A. USARC:	_X_	B. AFRC:	___	C. OMS:	___	D. FLIGHT:	___
E. DS/GS:	___	F. MED:	___	G. WET:	___	H. FLIGHT:	___
I. ECS:	___	J. CTF:	___	K. OTHER:	_____		

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FE TDA Team

FACILITY ENGINEERING TEAM INCLUDED:

LTC Louis Berman
LTC James L. Hugar
MAJ John Holtzman
SFC James Newcomer
SFC Joseph Baran

REFER TO FOR INFORMATION: LTC Louis Berman
17003 Catalpa Court
Rockville, MD 20855
Work: (202) 205-5875
Home: (301) 977-4622

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER
Mr. Thomas Donahue	Acting Facility Manager	(717) 322-4648

ASSESSMENT CONDUCTED FROM: 29 April 98/0930 (DATE/TIME) TO: 29 April 98/1630 (DATE/TIME)

DATE OF LAST ASSESSMENT:

SECTION 3: CHECKLIST SUMMARY DESCRIPTIONS

INSTALLATION NAME: **Lycoming County USAR Center**
IDENTIFICATION NUMBER: **PA148**

APPLICABLE?	YES	NO
BATTERY SHOP		X
CHEMICAL STORAGE	X	
COMPRESSED GAS CYLINDERS	X	
CONFINED SPACE		X
ELECTRICAL/MECHANICAL	X	
FIRE SAFETY/EGRESS	X	
FLAMMABLE/COMBUSTIBLE LIQUID STORAGE	X	
HOUSEKEEPING	X	
LADDERS	X	
SHOP AND MOTORPOOL	X	

* Checklists marked YES are applicable to this facility and are included in the report. Checklists marked NO are not applicable and were not reviewed.

BATTERY SHOP: Ventilation, deluge shower, eyewash, and operational precautions applied to battery servicing and repairs.
CHEMICAL STORAGE: Labeling, storage, ventilation, and emergency showers.
COMPRESSED GAS CYLINDERS: Storage procedures for compressed gas cylinders.
CONFINED SPACE: Procedures for safely entering confined spaces.
ELECTRICAL/MECHANICAL: Grounding, high voltage, waste, lightning protection, and safety procedures for use with electrical and mechanical facilities equipment.
FIRE SAFETY/EGRESS: Signs, fire extinguisher requirements, and egress for fire safety and personnel protection.
FLAMMABLE/COMBUSTIBLE LIQUID STORAGE: Storage procedures, cabinets, and fire extinguishers.
HOUSEKEEPING: Storage, housekeeping, aisles, guard rails and stair opening protection.
LADDERS: Standards and maintenance for use of ladders which are fixed to the facility.
SHOP AND MOTORPOOL: Ventilation, cranes, tire cages, and compressed air systems.

SECTION 4: SPECIFIC INSPECTION CHECKLISTS

INSTALLATION NAME: **Lycoming County USAR Center**
IDENTIFICATION NUMBER: **PA148**

ACTIVITY/AREA: CHEMICAL STORAGE
INSPECTOR: SFC James P. Newcomer

NOTE: All "NO" answers require a comment at the end of the checklist for the area.

ITEM	YES	NO	NA
CS1 Is proper separation and compatibility adhered to in the storing and handling of chemicals? (TM 38-410)	X		
CS2 Are all containers conspicuously labeled to indicate the identity and nature of the substance contained? (TM 38-410)	X		
CS3 Is a deluge shower and emergency eyewash provided where the spillage of corrosive chemicals or other hazardous materials is possible? Is this equipment within a straight line distance of less than 100 feet of the hazard with no obstacles, curves, etc. in the path of travel? (TM 38-410)	X		
CS4 Is adequate ventilation of chemical storage areas provided? (TM 38-410)	X		

COMMENTS: (Include item number and location for each comment. Add extra pages if necessary.)

ACTIVITY/AREA: COMPRESSED GAS CYLINDERS
INSPECTOR: SFC James P. Newcomer

NOTE: All "NO" answers require a comment at the end of the checklist for the area.

ITEM		YES	NO	NA
CG1	Is smoking prohibited within 50 feet of compressed gas storage areas and are "NO SMOKING" signs posted? (AR 700-68)			X
CG2	When cylinders are stored inside of buildings, are they stored in a well protected, well ventilated, dry location, at least 20 feet from highly combustible materials such as oil or excelsior? (1910.253)	X		
CG3	Are oxygen cylinders in storage separated from fuel gases or combustible materials (especially oil or grease), a minimum distance of 20 feet or by a non-combustible barrier at least five feet high having a fire-resistant rating of at least ½ hour? (1910.253)	X		
CG4	When cylinders are not in use, are valves closed tightly and valve protector caps installed? (1910.253)	X		
CG5	When cylinders are standing upright during use or storage, have precautions been taken to prevent accidental upsetting or falling (e.g. chained or strapped to structure)? (1910.253)		X	
CG6	Are pressure relief devices and gauges in good operating condition? (1910.252)			X

COMMENTS: (Include item number and location for each comment. Add extra pages if necessary.)

CG5 Aceletyne tank (EMPTY) is not chained to wall. **RAC 5**

ACTIVITY/AREA: ELECTRICAL/MECHANICAL
INSPECTOR: SFC James P. Newcomer

NOTE: All "NO" answers require a comment at the end of the checklist for the area.

ITEM		YES	NO	NA
EM1	Are live parts of electrical equipment operating at 50 volts or more guarded against accidental contact by being enclosed in approved cabinets or other approved enclosures? (1910.303)	X		
EM2	Is installed electrical equipment free from recognized hazards likely to cause death, serious physical injury, or fire? (1910.303)	X		
EM3	Are outside power lines located: a minimum of 10 feet above sidewalks or platforms; 12 feet over areas subject to vehicle traffic, other than trucks; 15 feet for truck traffic; and a minimum of 18 feet over public streets, alleys, roads, and driveways? (1910.304)	X		
EM4	Are receptacles grounded by being installed in a complete metallic raceway or by a separate grounding conductor (3 wire) and all receptacles electrically connected to the grounding conductor (wire)? (1910.305)	X		
EM5	Does each electrical outlet box, pull box, junction box, and cabinet have an installed face plate, cover or canopy cover and are unused openings in cabinets and boxes effectively closed? (1910.305)		X	
EM6	Is water or moisture prevented from entering/accumulating within electrical cabinets, panel boards and junction boxes? (1910.305) Are weatherproof enclosures used in outside or wet locations? (1910.305)	X		
EM7	Is motor operated equipment (i.e. hand held motor operated tools, portable hand lamps, refrigerators, air conditioners, etc) properly grounded with a three prong plug? (Note: Appliances protected by an approved system of double insulation need not be grounded.)? (1910.304)	X		
EM8	Are flexible cords and cables prohibited from use as substitute for permanent wiring of a structure, and prohibited from being run through holes in walls, ceilings, floors, doorways, windows or similar openings? (1910.305)	X		
EM9	Are attachment adapter plugs with wire "pigtails" prohibited from being utilized? (NEC 70)	X		
EM10	Are floor fans that have large openings in the metal blade guard, properly covered or have a protective covering (i.e. cloth mesh) that limits the opening to less than ½"? (1910.212)	X		
EM11	Are electrical outlets/cords that expose live electrical parts removed from service? (1910.304)	X		

EM12	Have electrical outlets (outside/inside) that are within 6 feet of a wet area (i.e. sink) been converted to Ground Fault Circuit Interrupters (GFCI) outlets? (NEC 210-8)		X	
EM13	ELECTRICAL CABINETS: Are cabinets covers properly installed and in serviceable condition? Are circuit breakers properly labeled? Are all breakers inside the breaker box free of cracks and deterioration? Are electrical cabinet doors kept closed except for maintenance and/or servicing? Are warning signs placed on high voltage boxes and ground mounted transformers? (NEC)	X		
EM14	Are entrances to buildings, rooms, and other guarded locations containing exposed live parts, locked and marked with conspicuous warning signs forbidding unqualified persons to enter? (1910.303)	X		
EM15	Are markings to include manufacturer's name/trademark and voltage/current/wattage ratings present on equipment and of sufficient durability to withstand the environment where present? (1910.303)	X		
EM16	(DATA PROCESSING SYSTEMS-DISCONNECTING MEANS) - Is a disconnecting means provided and readily accessible to the operator at the principle exit door to disconnect the power to all electronic equipment in data processing or computer rooms? (1910.306)			X
EM17	Are all alternating current systems of 50 volts to 1000 volts effectively grounded? (1910.304)	X		
EM18	Is the path to ground from circuits, equipment, and enclosures permanent and continuous? (1910.304)	X		
EM19	Has the facility grounding system been evaluated within the last 12 months to assure serviceability and compliance with the National Electric Code? (TB 385-4)		X	
EM20	Are boilers/furnaces properly labeled or identified? (TB 43-0151)	X		
EM21	Are boiler/furnace operating instructions available for use and inspection? (TB 43-0151, ASME)	X		
EM22	Are gas/fuel lines located in mechanical room labeled or identified? (TB 43-0151, ASME)	X		
EM23	Are emergency shut off valves for gas/fuel lines identified? (TB 43-0151, ASME)	X		
EM24	Are guards/shields, to prevent worker entanglement, properly installed on motors, pumps, gears, belts, and fans?	X		
EM25	Is the mechanical room adequately ventilated to allow for proper boiler or furnace operations?	X		
EM26	Is the mechanical room clean, free of leaks/spills and other debris, as well as stored items?		X	

EM27	Are the pressure shut-off valve and/or pressure relief valves on air compressors, boilers, water heaters, and other such equipment functional? (TB 43-0151)	X		

COMMENTS: (Include item number and location for each comment. Add extra pages, if necessary.)

EM5: Room 215 second floor ,right inside wall light switch cover plate missing **RAC 2** Outlet in room 215 missing cover plate. **RAC 3.** Chaplain's office outlet cover plate missing. **RAC 3**

EM12: Kitchen Room 106 Outlet for coffee pot and Microwave oven is within 6 feet of sink and is not GFIC protected. **RAC 3**

EM19: No record of test available. **RAC 4**

EM26: Boiler Room contains large quantity of copier toner and fuser stored in a steel cabinet. **RAC 4**

ACTIVITY/AREA: FIRE SAFETY/EGRESS
INSPECTOR: SFC James P. Newcomer

NOTE: All "NO" answers require a comment at the end of the checklist for the area.

ITEM		YES	NO	NA
FS1	Is excess dried vegetation around buildings/bleachers/fences kept to minimum? (1910.141)	X		
FS2	Are emergency lights installed and operating properly? (1910.36)			X
FS3	Are all fire extinguishers, except pressurized water extinguishers, being hydrostatic tested every twelve years? Five years for pressurized water extinguishers? (1910.157)	X		
FS4	Are fire extinguishers hung on brackets or mounted in unlocked cabinets with the top of the extinguishers not more than: a) 5 feet above the floor for extinguishers with a gross weight at or below 40 pounds; b) 3 above the floor for extinguishers with a gross weight above 40 pounds; and c) not being used as door stops? (1910.157 and NFPA 101)	X		
FS5	Is storage of any type prohibited in furnace or boiler rooms, transformer rooms or vaults, in water heater closets, or mechanical equipment rooms. (AR 420-90)		X	
FS6	Are fire extinguishers inspected monthly? (1910.157)		X	
FS7	Is flammable storage of items in "office occupancies" prohibited, except for the amount required for maintenance and operation of building and operation of equipment? Is it stored in a closed metal container or safety can or in an inside storage room?	X		
FS8	Have employers distributed portable fire extinguishers for use by employees so that the travel distance for employees to any extinguisher is never greater than: (a) Class A Fire - 75 feet (b) Class B Fire - 50 feet (c) Class C Fire 50-75 feet (d) Class D (combustible metal powers, flakes, shavings, etc) - 75 feet (1910.157)?	X		
FS9	Are portable fire extinguishers using carbon tetrachloride or chlorobromomethane extinguishing agents prohibited from use? (1910.157)	X		
FS10	Where portable fire extinguishers have been provided for employee use in the workplace, has an educational program been provided (both initially and annually) to familiarize employees with the general principles of fire extinguisher use and hazards involved with incipient stage fire fighting? (1910.157)		X	

FS11	Are extinguishers in the proximity of a hazard located so as to be accessible in the presence of a fire without undue danger to the operator (75 ft for normal hazard occupancy and 50 ft for high hazard occupancy)? (1910.157)	X		
FS12	Is material stacked such that the minimum vertical clearance between emergency sprinklers (interior) and material(s) below is at least 18 inches? (1910.159)			X
FS13	Is there an established procedure for sounding emergency alarms in the workplace? (NOTE: Direct voice communication is acceptable when there are 10 or fewer employees) (1910.165)	X		
FS14	Are alarm systems maintained in operating condition, except when undergoing repairs or maintenance? (1910.165)	X		
FS15	Are gas fired devices, which are used to generate heat for comfort such as furnaces and space heaters, vented to an external atmosphere to avoid the accumulation of combustible/noxious products of decomposition? (NFPA 54)	X		

MEANS OF EGRESS

EG1	For multi-story buildings that require more than one exit, are the exits remote from each other and free of clutter? (1910.37)	X		
EG2	In hazardous areas, or where employees may be endangered by the blocking of any single means of egress due to fire or smoke, is there at least two means of egress remote from each other? (1910.36)	X		
EG3	Are exits and the way of approach and travel from exits maintained so that they are unobstructed and are accessible at all times? (1910.26, 1910.37)		X	
EG4	Do all exits discharge directly to the street or other open space that gives safe access to a public way? (1910.37)	X		
EG5	Are all exits unlocked or unfastened so that free escape is not prevented? (1910.36)	X		
EG6	Has each emergency light been tested monthly for minimum of 30 seconds and annually for a 1 ½ hour duration? (NFPA 101)			X
EG7	Can all exits be reached without going through a kitchen, storage room, restroom, closet, or similar space subject to being locked? (1910.37, NFPA 101)	X		
EG8	When exit doors are locked, can the door be unlocked from the inside without the use of a key or special knowledge or effort? (NFPA 101)	X		
EG9	Are horizontal sliding or vertical doors, used as exits in lieu of side hinged swinging doors, secured in the full open position when the area is occupied? (NFPA 101). Is there a durable sign on or adjacent to the door indicating "This door to remain open when building is occupied"? (NFPA 101)			X

EG10	Are doors from a room to an exit, or to a way of exit access, of the side-hinged, swinging type? Does the door swing in the direction of exit travel for rooms with more that 50 occupants? (1910.37)	X		
EG11	Is the minimum width of any way of exit access no less than 28 inches? (1910.37)	X		
EG12	Are all exits that are not readily visible marked by a readily visible exit sign? (1910.37)	X		

COMMENTS: (Include item number and location for each comment. Add extra pages, if necessary.)

FS5: Boiler room storage of copier toner and fuser . **RAC 5**

FS6 No record of inspection. **RAC 3**

EG3: West end stairwell has signage " Do not use ". **RAC 3**

FS10: No record of training. **RAC 3**

EG12: All emergency " Exit" lights in the center are inoperable. **RAC 3**

ACTIVITY/AREA: FLAMMABLE/COMBUSTIBLE LIQUID STORAGE
INSPECTOR: SFC James P. Newcomer

NOTE: All "NO" answers require a comment at the end of the checklist for the area.

ITEM		YES	NO	NA
FC1	Are all flammable liquids stored only in safety-type, approved containers (i.e. 5 gallon cans) with a self-closing lid on the pour spout? (A safety can is defined as a metal container with automatic closing devices on all openings and flame arresters within openings.) (1910.106)	X		
FC2	Are flammable and combustible materials, in the building or unit operating area, kept to a minimum (1 day supply)? Are they stored in an approved metal locker/cabinet? Are rags stored separately from this cabinet? (1910.106)	X		
FC3	Are flammable storage cabinets used for storage of flammable/combustible liquids? (1910.101 and 1910.106)	X		
FC4	Are smoking and the use of open flame or spark-producing devices (i.e. phones, tools, flashlights) prohibited in flammable/ combustible liquids handling or storage areas? (1910.106)	X		
FC5	Are "NO SMOKING WITHIN 50 FEET" signs posted in or on flammable/ combustible liquid handling and storage areas?	X		
FC6	Is the day-to-day use of flammable/combustible liquids in buildings limited to a 1-day operation level, and stored in an approved safety can (see question 3)? (1910.106)	X		
FC7	Are adequate quantities of Type B fire extinguishers readily available for personnel to fight fires involving flammable liquids? (1910.157)	X		
FC8	Are flammable/combustible liquids limited to not more than 60 gallons per storage cabinet? (1910.106)	X		
FC9	Are acids isolated from flammable materials? (DOD 4145.19-R-1)			X
FC10	Are buildings and compartments where flammable/combustible liquids are stored, processed, or used, ventilated? (1910.106)	X		
FC11	Are portable CO_2 fire extinguishers placed at refueling/ storage points? (FM 10-690)	X		
FC12	Are metal flammable storage cabinets constructed with the bottom, top, door, and sides of the cabinets with at least No. 18 gage sheet iron and double walled with a ½ inch air space; joints riveted, welded or made tight by some equally effective means; the door provided with a three-point lock, and the door still raised at least 2 inches above the bottom of the cabinet? (1910.106)	X		

FC13 INSIDE STORAGE ROOMS FOR FLAMMABLES/COMBUSTIBLES

(a)	Are openings to other rooms and buildings provided with non-combustible liquid-tight raised sills or ramps at least 4 inches in height, or the floor in the storage area at least 4 inches below surrounding floor? (1910.106)			X
(b)	Are openings to other rooms provided with self-closing fire doors? (1910.106)			X
(c)	Is the room liquid tight where the walls join the floor? (1910.106)			X
(d)	Is wood used for shelving, racks, dunnage, floor overplay, etc., at least 1 inch nominal thickness? (1910.106)			X
(e)	Is at least one clear aisle, a minimum of 3 feet wide, maintained at all times? (1910.106)			X
(f)	Is the storage area graded in a manner to divert possible spills away from the building or other exposures or surrounded by a curb at least 6 inches high? (1910.106)			X
(g)	Are storage areas protected against tampering or trespassers, where necessary, and kept free of weeds, debris and other combustible material not necessary to the storage? (1910.106)			X
(h)	Are water reactive materials stored in a different room from the room with flammable and combustible liquids? (1910.106)			X

COMMENTS: (Include item number and location for each comment. Add extra pages, if necessary.)

ACTIVITY/AREA: HOUSEKEEPING
INSPECTOR: SFC James P. Newcomer

NOTE: All "NO" answers require a comment at the end of the checklist for the area.

ITEM		YES	NO	NA
HS1	Are all places of employment, passageways, storerooms, and rooms kept clean and orderly and in a sanitary condition? (1910.11)	X		
HS2	Are aisles and passageways kept clean and unobstructed with no carpet snags, electrical cords, or telephone cords extending across walkways, creating slip, trip, and fall hazards? (1910.22)	X		
HS3	Have warning signs on buildings and other locations been kept in good condition and not allowed to deteriorated beyond recognition? (NFPA 30A)	X		
HS4	Are guards or handrails available for stairways having more than four risers? (1910.23)	X		
HS5	Do the steps have a slip-resistant material that is functional? (1910.24)		X	
HS6	Has Preventive Medicine been contacted if any of the items listed below appear to exist? (AR 40-5) a. Inadequate lighting b. High mold content in the air c. Loud noises d. Inadequate ventilation	X		
HS7	Does the upstairs storage area have the maximum weight capacity sign posted? (1910.22)			X
HS8	Is warm water available in each lavatory? (1910.141)	X		
HS9	Have all cracked windows /and or leaking roof(s) (if there were any) been fixed so that no water is allowed into the building to create a slipping hazard? (1960.9)	X		
HS10	Are upstairs storage areas equipped with railings and toe boards? They must have railings on all sides except those with ladders/stairs, etc. (1910.23)			X
HS11	Are covers and/or guardrails provided to protect personnel from the hazards of open pits, tanks, vats, ditches, etc? (1910.22)			X
HS12	Is every stairway floor opening guarded by a standard railing on all exposed sides except at entrance to stairway? (STANDARD: A smooth-surfaced top rail throughout the length of the railing at a vertical height of 42 inches nominal from the upper surface of top rail to the floor, platform, runway, or ramp level; an intermediate rail approximately halfway between the top rail and the floor, platform, runway, or ramp, and posts.) (1910.23)			X

HS13	Is every floor hole into which persons can accidentally walk, guarded with a standard guard railing and with a standard toe board? (1910.23)			X
HS14	Do fixed stairways have a minimum width of 22 inches? And, are all treads reasonably slip-resistant and is the rise height and tread width uniform throughout any flight of stairs? (1910.24)	X		

COMMENTS: (Include item number and location for each comment. Add extra pages, if necessary.)

HS5 : Toe plates on stairwell and on entrance cement steps are loose with missing cement under portions of the plate. **RAC 3**

ACTIVITY/AREA: LADDERS
INSPECTOR: SFC James P. Newcomer

NOTE: All "NO" answers require a comment at the end of the checklist for the area.

ITEM		YES	NO	NA
LA1	Are ladders maintained in good condition, and defective ladders withdrawn from service? Are rungs free of grease and oil? (1910.25)	X		
LA2	Are ladder stands and work platforms capable of supporting at least four times the design work load? (1910.29)			X
LA3	Is the standard (work platform) (4 inch nominal) toe-board installed for work levels 10 feet or higher above the ground or floor? (1910.29)			X
LA4	For work levels (work platforms) 10 feet or higher above the ground or floor, is a guardrail of 2 x 4 inch nominal, or the equivalent, installed no less than 36 inches or more than 42 inches high (with a mid-rail when required)? (1910.29)			X
LA5	Are wheel/casters (work platforms) provided with a positive wheel and/or swivel lock to prevent movement? (1910.29)			X

COMMENTS: (Include item number and location for each comment. Add extra pages, if necessary.)

ACTIVITY/AREA: SHOP AND MOTORPOOL SAFETY
INSPECTOR: SFC James P. Newcomer

Note: All "NO" answers require a comment at the end of the checklist for the area.

ITEM		YES	NO	NA
MO1	Are maintenance areas kept clean and orderly? (1910.22, FM 43-5)	X		
MO2	Are oil spills cleaned up immediately? (1910.106, FM 43-5)	X		
MO3	Has electrical equipment (i.e. generators) grounding been accomplished and is there documentation of an initial ohms testing utilizing a multi meter (0-5 volt reading)? (TC 11-6, FM 10-69, and FM 10-68)			X
MO4	Are special activities such as painting, welding, and battery work, confined to separate parts of the garage or maintenance areas and isolated from each other?			X
MO5	Is adequate ventilation provided in the motorpool to prevent accumulation of flammable or injurious vapors and gases?	X		
MO6	Are floors kept clean and free of oil, grease, gasoline, water, and other hazardous or slippery substances?	X		
MO7	Are portable guardrails placed around grease or repair pits when not in use?			X
MO8	Are lifts provided with stop-checks to prevent movement of the vehicle when the lift is in the raised position?			X
MO9	Are the safe load limits for cranes and derricks in both maximum and minimum positions clearly indicated?			X
MO10	Are cranes and derricks equipped with braking devices, capable of stopping at least one and one-half times the rated load?			X
MO11	Are cables or wire ropes free from broken strands, corrosion and other defects?			X
MO12	Are electrical lightbulbs attached to extension cords provided with wire guards?	X		
MO13	Are electrical wiring and fixtures installed in grease and repair pits explosion proof?			X
MO14	Are low voltage lights used in pits? (less than 24V)			X
MO15	Are steps in pits painted yellow to indicate caution?			X
MO16	Are fire extinguishers suitable for class B fires distributed and maintained throughout the vehicle parking areas and shops?	X		

MATERIAL HANDLING AND STORAGE

MH1	Are aisles and passageways kept clear and in good repair, with no obstructions across or in aisles that could create a hazard? (1910.176)	X		
MH2	Are permanent aisles and passageways appropriately marked? (1910.176)	X		
MH3	Is material stored so as not to create a hazard? (1910.176)		X	
MH4	Are clearance signs to warn of clearance limits provided? (1910.176)		X	

OVERHEAD AND GANTRY CRANES

CR1	Are crane hooks removed from service when throat openings exceed more than 15 percent of normal or hook shows more than a 10 degree twist from the plane of the unbent hook or shows signs of cracks? (1910.179)			X
CR2	Do hooks have safety closure latches properly positioned and functional? (TB 43-0142)			X
CR3	Are hoists, chains, slings and hooks marked to indicate the item identification number, load rating and next periodic inspection date? TB 43-0142)			X
CR4	Has a thorough inspection of all ropes (wire ropes) been made at least once a month and a certification record maintained on file? (1910.179)			X
CR5	Are lifts/hoist that have an hydraulic fluid leak repaired and or replaced, depending upon the problem? (TB 43-0142)			X
CR7	Is the hoist chain or rope free from kinks, twists, and NOT wrapped around the load?			X
CR8	When the hook is in the extreme low position, is there at least two complete wraps of rope remaining on the drum?			X
CR9	Are rope ends securely attached to the drum by means of a clamp or socket arrangement approved by the crane or rope manufacturer?			X
CR10	Has the crane been load tested?			X

COMMENTS: (Include item number and location for each comment. Add extra pages, if necessary.)

MH3: Pallets are being stored by leaning them against a flammable storage cabinet near motor SGT's office in OMS. **RAC 4**

MH4: No sign available . **RAC 4**

SECTION 5: REFERENCES

INSTALLATION NAME: **Lycoming County Memorial USAR Center**
IDENTIFICATION NUMBER: **PA148**

1. Code of Federal Regulation (CFR) 1910 Labor[1]
2. ANSI C2 National Electrical Safety
3. ANSI Z358.1 Emergency Eyewash and Shower Equipment
4. ANSI Z41 Safety-Toe Footwear
5. ANSI Z89.1 Industrial Workers, Protective Headgear
6. ANSI Z87.1 Occupational and Educational Eye and Face Protection
7. AR 11-34 The Army Respiratory Protection Program
8. AR 385-10 The Army Safety Program
9. AR 385-55 Safety, Prevention of Motor Vehicle Accidents
10. AR 40-5 Preventive Medicine
11. AR 420-90 Fire Prevention and Protection
12. AR 700-68 Storage and Handling of Compressed Gases and Gas Cylinders ASME Boiler and Pressure Vessel Code
13. DA Pam 40-501 Hearing Conservation
14. DOD 4145.19-R-1 Storage and Material Handling
15. FM 10-68 Aircraft Refueling
16. FM 10-69 Petroleum Supply Pint Equipment Operation
17. FM 10-69 Petroleum Supply Point Equipment and Operations
18. FM 43-5 Unit Maintenance Operations
19. National Electrical Code (NEC), ANSI/NFPA 70
20. National Fire Protection Agency (NFPA) 410
21. TB 43-0212 Army Oil Analysis Program Guide for Leaders and Users
22. TB 43-0151 Inspection and Test of Air and Gas Compressors
23. TB 385-4 Requirements for Maintenance of Electrical and Electronic Equipment
24. TB Med 503 the Army Industrial Hygiene Program
25. TC 11-6 Grounding Techniques
26. TM 9-2320-209-20-3-2 Organizational Level for 2 ½ ton, 6X6, M44A1, and M44A2 Series
27. TM 9-6140-200-14 Operator's, Unit, Direct Support and General Support Maintenance Manual for Lead-Acid Storage Batteries
28. TM 38-410 Storage and Handling of Hazardous Material

1 Note: All references to 29 CFR 1910 will be in the form 1910.xxx

ENCLOSURE 4
ENVIRONMENTAL COMPLIANCE ASSESSMENT

USAR FACILITY
ENVIRONMENTAL COMPLIANCE ASSESSMENT

for the

LYCOMING MEMORIAL USAR CENTER

WILLIAMSPORT, PA

Prepared by the

416TH ENCOM FE TDA

FT. MEADE, MD: ESG-E

FT. INDIANTOWN GAP FET

Performed on

28-29 APRIL 1998

416th ENGINEER COMMAND
USAR FACILITY
TOTAL FACILITY ASSESSMENT

ENVIRONMENTAL COMPLIANCE ASSESSMENT

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148 DATE: 28-29, April 1998

TABLE OF CONTENTS

SECTION 1: EXECUTIVE SUMMARY

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
INSTALLATION NUMBER: PA148

1. As part of the Total Facility Assessment (TFA) at the Lycoming Memorial USAR Center an environmental compliance assessment was conducted on 28-29 April 1998. The center consists of two buildings; the main USAR Center, and the Organizational Maintenance Shop (OMS). The main USAR center is multi story and the OMS is single story. Both buildings are brick construction. The surrounding area consists of small business and residential facilities. The facility is occupied by the following units: 327th CSB (HHD), 442nd FSC (Bath Operations), and the 814th QM supply platoon.

2. This TFA identified one Class I regulatory finding. No existing regulatory notice of violations (NOV) were identified. Significant findings included: material safety data sheets were not available for all chemicals stored at the OMS; potentially friable asbestos floor tile was identified at the main USAR center; and historical high levels of radon in the main center should be evaluated to ensure that a radon mitigation system installed in 1992 is functioning properly. Table 1-1 summarizes findings of the inspection team as identified during the TFA.

3. One vehicle wash rack with associated drain is located at the OMS. According to drawings (1978/1979) the wash rack drained either directly into the adjacent creek or into a 500 gallon capacity septic tank along the creek. In approximately 1979, the wash rack drain was connected to an oil water separator installed adjacent to the OMS building. No documentation was available indicating if the 500 gallon septic tank has been properly closed.

4. The facility is striving to implement an active environmental compliance program. The facility should try to obtain and maintain copies of environmental surveys prepared in the past.

James L Hugan

Louis D. Berman
LTC, EN, USAR
Team Leader

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME: LYCOMING MEMORIAL USAR CENTER
IDENTIFICATION NUMBER: PA148

STREET ADDRESS: 1605 Four Mile Drive
CITY/TOWN: Williamsport
STATE: PA
ZIP CODE: 17701-1989

RSC/RSG: 99TH, Oakdale, Pa.

FACILITY TYPE:

A. USARC:	_X_	B. AFRC:	___	C. OMS:	_X_	D. FLIGHT:	___
E. DS/GS:	___	F. MED:	___	G. WET:	___	H. FLIGHT:	___
I. ECS:	___	J. CTF:	___	K. OTHER:	_____		

ASSESSMENT PERFORMED BY: Ft. Indiantown Gap FE TDA Team

FACILITY ENGINEERING TEAM INCLUDED:

LTC James Hugar
LTC Louis Berman
MAJ John Holtzman
SFC Joseph Baran

REFER TO FOR INFORMATION: James Hugar
Work: (717) 770-5582
Home: (717) 866-2792

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER
Mr. Donahue	Facility Manager	(717) 322-4695

ASSESSMENT CONDUCTED FROM: 28 April 98/1000 (DATE/TIME) TO: 29 April 98/1600 (DATE/TIME)

DATE OF LAST ASSESSMENT:

SECTION 3: INSTALLATION SCREEN

□
*FFID: PA-2104PA148

*Installation Name: LYCOMING MEMORIAL USARC

Installation Category: R

MACOM: USARC

MUSARC:

BASOPS ARCOM: 99TH

Support Installation: FORT INDIANTOWN GAP

Facility / Activity Type: 1) FM 2) OM 3) PO 4) ME 5)

EPA Region: 3
Congressional District:
Address: 1605 FOUR MILE DRIVE

City: WILLIAMSPORT

State: PA

Country: USA

Zip Code: 17701-8835

TABLE 1-1
SUMMARY OF FINDINGS

INSTALLATION: LYCOMING MEMORIAL USARC Fiscal Year: 1998
ID: PA-2104PA148

SECTION NO.	TITLE	REGULATORY I	REGULATORY II	REGULATORY HS	MANAGEMENT POS	MANAGEMENT III	MANAGEMENT HS	TOTAL
A	Air Emissions	0	0	0	0	0	0	0
C	Cultural Resources	0	0	0	0	0	0	0
HM	Hazardous Materials	1	0	2	0	0	0	3
HW	Hazardous Waste	0	0	0	0	0	0	0
NR	Natural Resource	0	0	0	0	0	0	0
O1	Environmental Impacts	0	0	0	0	0	0	0
O2	Environmental Noise	0	0	0	0	0	0	0
O3	IRP	0	0	0	0	0	0	0
O4	Pollution Prevention	0	0	0	0	0	0	0
O5	Program Management	0	0	0	0	0	0	0
PM	Pesticide	0	0	0	0	0	0	0
PO	POL	0	0	0	0	0	0	0
SO	Solid Waste	0	0	0	0	0	0	0
ST	Storage Tanks	0	0	0	0	1	0	1
T1	PCB	0	0	0	0	0	0	0
T2	Asbestos	0	0	0	0	1	0	1
T3	Radon	0	0	0	0	1	0	1
T4	Lead Based Paint	0	0	0	0	1	0	1
WA	Wastewater	0	0	0	0	0	0	0
WQ	Water Quality	0	0	0	0	0	0	0
	TOTALS	1	0	2	0	4	0	7

Data File Name Prefix: C:\416ENCOM\ECAS18\PA148
Date Summary Report Produced: 07/12/98

HM.30.1 #1 I FEDERAL FINDING Hazardous Materials

FINDING ID: PA-148-007
MANUAL QUESTION NUMBER: HM-030-001
FINDING CATEGORY: CLASS I
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY
IFS FACILITY NUMBER:
FACILITY TYPE: OMS - ORGANIZATIONAL MAINTENANCE SHOP

FINDING DESCRIPTION: The facility has not submitted a copy of MSDSs or a listing as appropriate to the local emergency response commision, local fire department and Pennsylvania Department of Labor and Industry. The facility maintains hazardous chemicals which require an MSDS.

CRITERIA: Installations/CW facilities, that are required to prepare or have available an MSDS for a hazardous chemical under OSHA, are required to meet specific MSDS reporting requirements for planning purposes (EO 12856; 40 CFR 370.20, 370.21, and 370.28) [March 1995].

FINDING COMMENTS:

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Prepare a MSDS inventory as well as obtain an MSDS for all hazardous materials and submit to the local fire department, local Emergency Response Committee, and PA epartment of Labor and Industry. Each organization has its own reporting requirements and forms or format for notification.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA:_____
5) REVIEWER'S REMARKS:_____
_____
_____
_____

NAME/OFFICE/PHONE:_____ DATE:_____

FINDING ID: PA-148-004
MANUAL QUESTION NUMBER: HM-001-002
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: OMS
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Material Safety Data Sheets (MSDS) were not available for all chemicals stored in the containment locker at the OMS. An inventory of all chemicals stored in the locker was also not available. MSDS that were available were not organizzed in a binder for quick reference in an emergency situation.

CRITERIA: Installations/CW facilities are required to have on file an MSDS for each hazardous chemical stored and used at the installation/CW facility (29 CFR 1910.1200(b)(3)(ii), 1910.1200(b)(4)(ii), 1910.1200(b)(6), 1910.1200(g)(1), and 1910.1200(g)(8)).

FINDING COMMENTS: Chemicals are being properly stored in the OMS in a containment locker. No inventory was available for each chemical stored in the locker.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Conduct an inventory of all chemicals stored in the locker at the OMS. Obtain an MSDS for each different chemical product stored. The MSDS sould be kept in a binder in an easily accessible location in the event of an emergency.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA:_____
5) REVIEWER'S REMARKS:_____
_____
_____
_____

NAME/OFFICE/PHONE:_____ DATE:_____

HM.10.1 #1 HS FEDERAL FINDING Hazardous Materials

FINDING ID: PA-148-006
MANUAL QUESTION NUMBER: HM-010-001
FINDING CATEGORY: HEALTH/SAFETY
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FACILITY
IFS FACILITY NUMBER:
FACILITY TYPE: OMS - ORGANIZATIONAL MAINTENANCE SHOP

FINDING DESCRIPTION: Facility does not have, or has not implimented a written hazardous communication program which contains the following: - how general training will be done to inform employees of issues such as MSDSs and hazardous materials labels and other warning signs - a list of the hazardous chemicals known to be present (can be done for the entire workplace or individual work areas) - how training will be done - the methods the installation/CW facility will use to inform the employees of the hazards associated with nonroutine tasks and the hazards associated with chemicals contained in unlabeled pipes in their work areas.

CRITERIA: Installations/CW facilities are required to have a written hazard communication program that is designed to provide all employees with information about the hazardous chemicals to which they are exposed (29 CFR 1910.1200(b)(1) and 1910.1200(e)(1)) [February 1995].

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): The 99th RSC should develop a general Hazardous Communications Program and have each facility add site specific information.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA:_____
5) REVIEWER'S REMARKS:_____
_____
_____
_____

NAME/OFFICE/PHONE:_____ DATE:_____

ST.95.2.R #1 III ARMY/DOD FINDING Storage Tanks

FINDING ID: PA-148-002
MANUAL QUESTION NUMBER: ST-095-002-R
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: PARKING AREA NORTH OF BOILER ROOM
IFS FACILITY NUMBER:
FACILITY TYPE: POV - PARKING AREA POV

FINDING DESCRIPTION: In approximately 1988, R&J Ertel Inc. removed one approximately 10000 gallon capacity UST from the parking area north of the boiler room. According to personnel at the facility, additional soil was excavated during the UST removal, indicating that petroleum contaimination was encountered. No UST closure/site assessment report was available for review to document site conditions (soil/groundwater) during the UST removal.

CRITERIA: USTs that are leaking must be emptied and taken out of service (AR 200-1, para 5-7e).

FINDING COMMENTS: Documentation for the removal of one 10000 gallon UST was not available for review. Personnel at the USAR center report that additional soil was excavated during the removal. This indicates that petroleum contaminated soils were encountered and had to be excavated and transported off-site. It is not known if the UST removal contractor collected soil/groundwater samples for lab analysis to document subsurface conditions. Although currently the PADEP does not regulate heating oil UST's, they still require environmental clean-up if a petroleum release is dicovered during a heating oil UST removal.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): UST closure documentation must be obtained and maintained for review. If no documentation is available to confirm site conditions (soil/groundwater) at the time of the UST removal, than a limited subsurface investigation should be performed to document the UST removal.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA:_____
5) REVIEWER'S REMARKS:_____
_____
_____
_____

NAME/OFFICE/PHONE:_____ DATE:_____

T2.1.4.R #1 III FEDERAL FINDING Asbestos

FINDING ID: PA-148-001
MANUAL QUESTION NUMBER: T2-001-004-R
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: FIRST AND SECOND FLOOR OF THE MAIN USAR CENTER
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Potentially friable asbestos floor tile remains in the facility. An asbestos management plan is required to properly manage existing asbestos in the facility . This 9"x9" floor tile is found on the first amd second floor of the USAR center. Black mastic beneath the floor tiles is also suspected to contain asbestos. Some areas of the floor tile are damaged creating a potential for aireborne friable asbestos. In August 1995, EA Engineering, Science and Technoloy prepared a Hazardous Waste Management Plan (WMP) for the facility. This WMP identifed that no asbestos management plan is maintained at the facility and that no AHERA asbestos survey was completed. Asbestos thermal system insulation (TSI) was reportly removed from the facility during a heating system upgrade in approximately 1988. No asbestos air monitoring lab results were available at the facility for review to document that the asbestos contractor achieved acceptable clearance levels of airborne asbestos.

CRITERIA: Facilities are required to prepare, coordinate, and execute an Installation Asbestos Management Plan (AR 200-1, para 10-3).

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): A PA Department of Labor and Industry licensed Asbestos Inspector should be contracted to collect bulk samples from floor tile and mastic to confirm the existance of asbestos. Damaged floor tile should be removed using adequately wet methods and appropriate engineering controls and personel protection equipment. A copy of the report which documents asbestos removal previously conducted at the facility should be obtained and reviewed to ensure that approriate final clearance air sampling was achieved (<.01 fibers/cubic centimeter). An asbestos management plan must be prepared by a Industrial Hygienist and maintained at the facility.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____
_____
_____

4) ESTIMATED COMPLETION DATE FOR CA:_____

5) REVIEWER'S REMARKS:_____

_____

_____

_____

NAME/OFFICE/PHONE:_____ DATE:_____

T3.1.13.R #1 III FEDERAL FINDING Radon

FINDING ID: PA-148-005
MANUAL QUESTION NUMBER: T3-001-013-R
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: ROOMS 101,102,103, AND 114 OF MAIN USAR CENTER
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: Records available at the USAR center indicate that radon screening in 1989 identified levels . 4 pci/l in rooms 101, 102, 103, and 114. Levels were detected as high as 29.2 pci/l. Personnel at the center have indicated that a former employee with medical ailments may have linked these ailments back to long term exposure to radon at the center. In 1992, Pennrad, Inc., installed two radon mitigation systems on the main USAR building. One system installed in the concrete slab floors of rooms 101, 102, and 103 vents to the exterior of the building. Personnel have reported that a warning alarm associated with the operation of this system went off in the past and that they were instructed to turn the alarm off. A second system was installed in room 114. Current levels of radon were not available. Both systems appear functioning.

CRITERIA: Facilities are required to perform post-mitigation measurement to confirm and document effectiveness of mitigation (AR 200-1, para 11-5c).

FINDING COMMENTS: Facility personnel are concerned with the operation of the radon mitigation system installed in the main USAR center building in roms 101,102,103, and 114. This system has been in operation since 992. Current radon testing results for these rooms were not available for review at the center.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Pennrad Inc. should be contracted to inspect the radon mitigation system installed in 1992. Facility personnel should be provided with a copy of the most recent annual report (AR 200-1, para 1-22j(2) and 11-6d(2)) documenting current radon levels in rooms 101, 102, 103, and 114.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA:_____
5) REVIEWER'S REMARKS:_____
_____

NAME/OFFICE/PHONE: _____ DATE: _____

T4.4.20.03 #1 III FEDERAL FINDING Lead Based Paint

FINDING ID: PA-148-003
MANUAL QUESTION NUMBER: T4-004-020-03
FINDING CATEGORY: CLASS III
FINDING TYPE: Negative EXISTING NOV: NO
LOCATION: ROOM 114 OF THE MAIN USAR CENTER
IFS FACILITY NUMBER:
FACILITY TYPE: AFRC(MB) - ARMED FORCES RESERVE CENTER - MAIN BLDG

FINDING DESCRIPTION: As-built drawings indicate that an indoor firing range was located in the main USAR center at what is now known as roon 114. Room 114 is now a classroom. Unit personnel report that lead abatement was performed prior to renovation, however no records were available for review.

CRITERIA: Verify that risk assessments are only done by a person certified by the USEPA as a risk assessor. Verify that a risk assessment report is produced which includes results of an assessment performed in accordance with a documented methodoloy (ie. HUD guidelines).

FINDING COMMENTS: It is important to verify that lead dusts are not present in this classroom.

SUGGESTED/ALTERNATIVE CORRECTIVE ACTION(S): Recommend that a review of historical information available for the facility be reviewed to verify that a lead assessment and abatement was conducted.

STATUS OF CORRECTION:

********** INSTALLATION'S RESPONSE: **********

1) CORRECTIVE ACTION (CA) SELECTED:_____
_____
_____
_____
2) CURRENT STATUS OF THE CA:_____
3) ARE ADDED DETAILS OR COST DATA NEEDED TO DESCRIBE THIS CA?: Y__ N__
EXPLAIN:_____
_____
_____
4) ESTIMATED COMPLETION DATE FOR CA:_____
5) REVIEWER'S REMARKS:_____
_____
_____
_____

NAME/OFFICE/PHONE:_____ DATE:_____

ENCLOSURE 5
ARMS VAULT FACILITY STRUCTURAL CERTIFICATION

USAR FACILITY
ARMS VAULT FACILITY STRUCTURAL CERTIFICATION

for the

LYCOMING COUNTY MEMORIAL
USAR CENTER

WILLIAMSPORT, PA

Prepared by the

416TH ENCOM FE TDA

FT. MEADE, MD: ESG-E

FIG

Performed on

29 APRIL 1998

416th ENGINEER COMMAND
USAR FACILITY
TOTAL FACILITY ASSESSMENT

ARMS VAULT FACILITY STRUCTURAL CERTIFICATION

INSTALLATION NAME: Lycoming Memorial
INSTALLATION NUMBER: PA 148, 29 April 1998

TABLE OF CONTENTS

** New Facility Structural Criteria 2

SECTION 1: EXECUTIVE SUMMARY

INSTALLATION NAME: Lycoming Memorial
INSTALLATION NUMBER: PA 148

1. As part of the Total Facility Assessment (TFA) conducted at the USAR Center, the condition of the Arms Room was evaluated to determine whether the Arms Room meets the certification requirements. The center consists of two buildings; the main USAR Center, and the Organizational Maintenance Shop. The MEP complex is fenced. Ground floor windows in low visible areas and several second floor windows accessible from low roof areas, are covered with exterior mounted security screens. The surrounding area consists of small business and residential construction.

2. The condition of the Arms Room is excellent. No changes or upgrades are necessary to the Arms Room. Recommend the ceiling and floor be evaluated using non-destructive testing to confirm reinforcing location. M60 Arms Storage rack was sited as requiring certification as part of a recent 1st Army Security Inspection.

3. Mr Donohue was extremely helpful and expressed his appreciation for our audit of his facility.Arms

James L. Hugar
LTC, EN, USAR
Team Leader

** New Facility Structural Criteria 3

SECTION 2: FACILITY IDENTIFICATION

INSTALLATION NAME: Lycoming Memorial USAR Center
IDENTIFICATION NUMBER: PA 148

STREET ADDRESS: 1605 Four Mile Drive
CITY/TOWN: Williamsport
STATE: PA
ZIP CODE: 17001-1989

RSC/RSG: 99th RSC, Oakdale, PA

FACILITY TYPE:

A. USARC:	X	B. AFRC:	___	C. OMS:	X	D. FLIGHT:	___
E. DS/GS:	___	F. MED:	___	G. WET:	___	H. FLIGHT:	___
I. ECS:	___	J. CTF:	___	K. OTHER:	_____		

ASSESSMENT PERFORMED BY: FIG FE TDA Team

FACILITY ENGINEERING TEAM INCLUDED:

LTC Berman
LTC Hugar
MAJ Holtzman
SFC Newcomer
SFC Baran
Mr. Stephens, Facility Management Specialist, 99th RSC

REFER TO FOR INFORMATION: Team Leader
James Hugar
Work: (717) 770-5582
Home: (717) 866-2792

PERSONNEL CONTACTED ON SITE:

NAME/GRADE	DUTY POSITION	PHONE NUMBER
Mr. Donohue	Facility Manager	(XXX) XXX-XXXX

ASSESSMENT CONDUCTED FROM: 28 April 98 TO: 29 April 98

DATE OF LAST ASSESSMENT: NA

** New Facility Structural Criteria 4

ARMS ROOM CHECK LIST

FACILITY NAME: Lycoming Memorial USAR CTR

Williamsport

FACILITY NO: PA 148

POINT OF CONTACT: Mr. Donohue

		YES	NO
A.	FLOORS:		
1. **	6 inch concrete slab on grade reinforced with 6 inch by 6 inch 4.0/4.0 WWF minimum.	___	___
2.	6 inch thick concrete slab reinforced with steel bars (floor forms the ceiling of underlaying rooms or areas).	___	___
3.	2 inch concrete topping over existing floor slab.		
4.	Original vault slab removed and replaced with new 6 inch reinforced concrete slab.	___	___
5.	Other: _4_ inch thick concrete slab on grade reinforced with WWF.	_X_	___
B.	WALLS:	YES	NO
1. **	8 inch thick reinforced concrete with #4 bars at 9 inches on center in each direction.	___	___
2.	____ inch thick reinforced concrete with #____ bars at ____ inches on center in each direction.	___	___
3.	8 inch thick concrete masonry with # 4 bars threaded through concrete masonry unit cavities at 8 inch centers. Cells of concrete masonry unit cavities filled with mortar or concrete. Horizontal joint reinforcement provided with each course.	___	___
4.	8 inch thick brick wall with brick courses interlocked between inner and outer courses.	___	___
5.	Existing walls: New 8 inch reinforced (inner) (outer) walls constructed against existing walls.		
6.	The walls are constructed of 8 inch thick non reinforced concrete masonry that has been reinforced on the inside vault surface with 6 gauge steel wire forming a grid of not more than 2 inches center to center, in accordance with AR 190-11, Appendix G-3(e).	___	___
7.	Other: 8 inch block with 3/8 inch expanded metal anchored to wall _X_	___	

** New Facility Structural Criteria 5

C. CEILING:	YES	NO
1. ** 6 inch concrete slab reinforced with 6 inch by 6 inch 4.0/4.0 WWF minimum.	___	___
2. Concrete Pan Joists: Thinnest portion of the joist not less than 6 inches and the clear space between joists does not exceed 20 inches.	___	___
3. ___ inch concrete topping provided over existing concrete ceiling slab. Reinforcing bars spacing form a grid where the area of any opening does not exceed 96 square inches.	___	___
4. Other: Drawing review indicate 4inches-6inches WWF and the previous completed by installation and physical security personnel indicated this area met the requirements and no additions were needed.	X	___

D. DOORS: (Reserve Centers	YES	NO
1. ** GSA approved Class 5 steel door (Fed. Spec. AA-D-600B) with a built in 3 position, dial type, changeable combination lock used in lieu of the door described below. (See Item O)	X	___
2. Day gate provided (not required).	___	X
3. Pass through window provided with door arms vault.	___	X

E. DOORS: (Barracks and other Full-time occupied spaces)	YES	NO
1. ** Door is 1-3/4 inch thick solid core wood or laminated wood with 12 gauge metal plate securely attached to the outside face.	___	___
2. ** Door is 1-3/4 inch thick industrial type hollow metal internally reinforced vertically with continuous steel stiffeners spaced maximum 6 inches on center. Minimum thickness of skin plate of door not less than 14 gauge.	___	___
3. Two doors provided to arms vault. One door as described in E1 or E2 above. The second door, rod and bar grid door as required in AR190-11. (Double door protection is not required)	___	___

F. DOORS AND PASS WINDOW FRAMES:	YES	NO
Frames are compatible with doors and the frames are securely anchored.	X	___

** New Facility Structural Criteria 6

		YES	NO
G.	HARDWARE FOR DOORS:		
1.	Locking device for the outer door to vault is high security hasp conforming to military specification MIL-P-43607.	___	___
2.	The inner door to the Arms vault has mortise cylinder dead bolt lock "ultra 700" with Medelo or Emhart high security cylinder.	___	___
3.	Door hinges are (fixed pin security type) (safety stud hinges) (with hinges welded) to prevent removal.	X	___
4.	Hinge mounting screws not exposed to the outside of the arms room.	X	___
5.	Other:	___	___

		YES	NO
H.	WINDOWS AND OTHER OPENINGS:		
1.	No openings existing in walls or ceilings.	X	___
2. **	All openings greater than 96 square inches are protected by rod-and-bar grid as required in paragraph G-1. e. (AR 190-11).	___	___

		YES	NO
I.	ARMS ROOM ANCHOR RINGS:		
Anchor rings provided in arms room floor or walls to secure arms racks,		X	___

		YES	NO
J.	INTRUSION DETECTION SYSTEM: (IDS)		
1.	Intrusion detection system provided for vaults as required in AR 190-11.	X	___
2.	Alarms at local law enforcement/contract security.	X	___
3.	Other: IDS has balanced magnetic, motion and heat sensors.	X	___

		YES	NO
K.	SECURITY LIGHTING:		
Entrance to arms vault illuminated by lighting.		X	___

		YES	NO
L.	MECHANICAL:		
1.	Electrical Humidifier provided for vault humidifier control.	X	___
2.	3 inch floor drain provided for dehumidifier.	___	X

		YES	NO
M.	SECURITY PATROLS:		
Reserve center is checked by security patrols periodically.		X	___

** New Facility Structural Criteria 7

N. SUMMARY:

Note: Walls of existing facilities located off a military installation shall be a minimum of 8 inches of reinforced concrete block with concrete filled voids, 8 inches of reinforced solid brick, or 12 inches of non-reinforced solid brick. Ceilings, roofs and floors of existing facilities will be reinforced concrete at a minimum.

	YES	NO
This facility meets Class II storage requirements for weapons.	X	
No construction exceptions are noted	X	

O. WAIVERS, UNUSUAL REQUIREMENTS AND ADDITIONAL FEATURES:

Exterior vault door meets the criteria established at the time of construction, [Standard commercial door meeting SPEC F3, Safe Manufactures ASSOC, 2hr fire rated, Relocking Device #582504].

CERTIFICATION OF COMPLIANCE WITH CRITERIA SET FORTH IN AR 190-11

	YES	NO
This facility was constructed in accordance with the new facility structural criteria specified in Appendix G-1 of AR 109-11 dated 30 September, 1993 and therefore meets the minimum structural standards for the storage of Category II arms.		X
This facility meets the minimum structural criteria specified in Appendix G-3 of AR 109-11 dated 30 September, 1993 for existing facilities located outside a military installation, and therefore meets the minimum structural standards for the storage of Category II arms.	X	
This facility meets the minimum structural criteria specified in Appendix G-2 of AR 109-11 dated 30 September, 1993 for existing facilities located on a military installation, and therefore meets the minimum structural standards for the storage of Category II arms.		X

29 April 1998
DATE

JAMES L. HUGAR
LTC, EN
Team Leader, 416th ENCOM

** New Facility Structural Criteria 8

ENCLOSURE 6
AMERICANS WITH DISABIITIES ACT CHECKLIST

CHECKLIST FOR EXISTING FACILITIES version 2.1

The Americans with Disabilities Act
Checklist for Readily Achievable Barrier Removal

August 1995

To obtain additional copies of this **checklist**, contact your Disability and Business Technical Assistance Center. To be automaticallly connected to your regional center, call **1-800-949-4ADA**. This **checklist** may be copied as many times as desired by the Disability and Business Technical Assistance Centers for distribution to small businesses but may not be reproduced in whole or in part and sold by any other entity without written permission of Adaptive Environments, the author.

Adaptive Environments Center, Inc.
Barrier Free Environments, Inc.

Barrier Free Environments, Inc. and Adaptive Environments Center, Inc. are authorized by the National Institute on Disability and Rehabilitation Research (NIDRR) to develop information and materials on the Americans with Disabilities Act (ADA). However, you should be aware that NIDRR is not responsible for enforcement of the ADA. The information, presented here is intended solely as informal guidance, and is neither a determination of your legal rights or responsibilities under the Act, nor binding on any agency with enforcement responsibility under the ADA

.INTRODUCTION

Title III of the **Americans with Disabilities Act** requires public accommodations to provide goods and services to people with disabilities on an equal basis with the rest of the general public. The goal is to afford every individual the opportunity to benefit from our country's businesses and services, and to afford our businesses and services the opportunity to benefit from the patronage of all Americans.

The regulations require that architectural and communication barriers that are structural must be removed in public areas of **existing facilities** when their removal is **readily achievable** - in other words, easily accomplished and able to be carried out without much difficulty or expense. **Public accommodations** that must meet the barrier removal requirement include a broad range of establishments (both for-profit and nonprofit)—such as hotels, restaurants, theaters, museums, retail stores, private schools, banks, doctors' offices, and other places that serve the public. People who own, lease, lease out, or operate places of public accommodation in existing buildings are responsible for complying with the barrier removal requirement.

The removal of barriers can often be achieved by making simple changes to the physical environment. However, the regulations do not define exactly how much effort and expense are required for a facility to meet its obligation. This judgment must be made on a case-by-case basis, taking into consideration such factors as the size, type, and overall financial resources of the facility, and the nature and cost of the access improvements needed. These factors are described in more detail in the ADA regulations issued by the Department of Justice.

The process of determining what changes are readily achievable is not a one-time effort; access should be re-evaluated annually. Barrier removal that might be difficult to carry out now may be readily achievable later. Tax incentives are available to help absorb costs over several years.

Purpose of This Checklist

This checklist will help you identify accessibility problems and solutions in existing facilities in order to meet your obligations under the ADA.

The goal of the survey process is to plan how to make an existing facility more usable for people with disabilities. The Department of Justice recommends the development of an Implementation Plan, specifying what improvements you will make to remove barriers and when each solution will be carried out: "...Such a ...could serve as evidence of a good faith effort to comply...."

Technical Requirements

This checklist details some of the requirements found in the ADA Standards for Accessible Design (Standards). The ADA Accessibility Guidelines (ADAAG), when adopted by DOJ, became the Standards. The Standards are part of the Department of Justice Title III Regulations, 28 CFR Part 36 *(Nondiscrimination on the basis of disability... Final Rule)*. Section 36.304 of this regulation, which covers barrier removal, should be reviewed before this survey is conducted.

However, keep in mind that full compliance with ADAAG is required only for new construction and alterations. The requirements are presented here as a guide to help you determine what may be readily achievable barrier removal for existing facilities. Whenever possible, ADAAG should be used in making readily achievable modifications. If complying with ADAAG is not readily achievable, you may undertake a modification that does not fully comply with ADAAG, as long as it poses no health or safety risk.

Each state has its own regulations regarding accessibility. To ensure compliance with all codes, know your state and local codes and use the more stringent technical requirement for every modification you make; that is, the requirement that provides greater access for individuals with disabilities. The barrier removal requirement for existing facilities is new under the ADA and supersedes less stringent local or state codes.

What This Checklist is Not

This checklist does not cover all of ADAAG's requirements; therefore, it is **not** for facilities undergoing new construction or alterations. In addition, it does not attempt to illustrate all possible barriers or propose all possible barrier removal solutions. ADAAG should be consulted for guidance in situations not covered here.

The Title III regulation covers more than barrier removal, but this checklist does **not** cover Title III's requirements for nondiscriminatory policies and practices and for the provision of auxiliary communication aids and services. The communication features covered are those that are structural in nature.

Priorities

This checklist is based on the four priorities recommended by the Title III regulations for planning readily achievable barrier removal projects:

Priority 1: Accessible **approach and entrance**
Priority 2: Access to **goods and services**
Priority 3: Access to **rest rooms**
Priority 4: Any **other measures** necessary

Note that the references to ADAAG throughout the checklist refer to the Standards for Accessible Design.

How to Use This Checklist

- **Get Organized:** Establish a time frame for completing the survey. Determine how many copies of the checklist you will need to survey the whole facility. Decide who will conduct the survey. It is strongly recommended that you invite two or three additional people, including people with various disabilities and accessibility expertise, to assist in identifying barriers, developing solutions for removing these barriers, and setting priorities for implementing improvements.

- **Obtain Floor Plans:** It is very helpful to have the building floor plans with you while you survey. If plans are not available, use graph paper to sketch the layout of all interior and exterior spaces used by your organization. Make notes on the sketch or plan while you are surveying.

- **Conduct the Survey:** Bring copies of this checklist, a clipboard, a pencil or pen, and a flexible steel tape measure. With three people surveying, one person numbers key items on the floor plan to match with the field notes, taken by a second person, while the third takes measure-ments. ***Be sure to record all dimensions!*** As a reminder, questions that require a dimension to be measured and recorded are marked with the ruler symbol. Think about each space from the prespective of people with physical, hearing, visual, and cognitive disabilities, noting areas that need improvement.

Summarize Barriers and Solutions: List barriers found and ideas for their removal. Consider the solutions listed beside each question, and add your ospace from the perspective of people with physical, hearing, isual, solutions listed beside each question, and add your own ideas. Consult with building contractors and equipment suppliers to estimate the costs for making the proposed modifications.

Make Decisions and Set Priorities: Review the summary with decision makers and advisors. Decide which solutions will best eliminate barriers at a reasonable cost. Prioritize the items you decide upon and make a timeline for carrying them out. Where the removal of barriers is not readily achievable, you must consider whether there are **alternative methods** for providing access that are readily achievable.

Maintain Documentation: Keep your survey, notes, summary, record of work completed, and plans for alternative methods on file.

Make Changes: Implement changes as planned. Always refer directly to ADAAG and your state and local codes for complete technical requirements before making any access improvement. References to the applicable sections of ADAAG are listed at the beginning of each group of questions. If you need help understanding the federal, state, or local requirements, contact your Disability and Business Technical Assistance Center.

Follow Up: Review your Implementation Plan each year to re-evaluate hether more improvements have become readily achievable.

To obtain a copy of ADAAG or other information from the U.S. Department of Justice, ADA Informa-tion Line, call (800) 514-0301 Voice, (202) 514-0381 TDD, or (800) 514-0383 TDD. For technical ques-tions, contact the Architectural and Transportation Barriers Compliance Board at (800) USA-ABLE.

QUESTIONS		POSSIBLE SOLUTIONS/Notes
PRIORITY 1 **Accessible Approach/Entrance** People with disabilities should be able to arrive on the site, approach the building, and enter as freely as everyone else. At least one route of travel should be safe and accessible for everyone, including people with disabilities.		**LYCOMING MEMORIAL USAR CENTER** 1605 Four Mile Drive Williamsport, PA 17701-1989 ID Number: PA 148 Date: 980428
	YES NO	
Route of Travel (ADAAG 4.3, 4.4, 4.5, 4.7)		
Is there a route of travel that does not require the use of stairs?	_X__ ___	• Located at Assembly Hall exterior entrance only
Is the route of travel stable, firm and slip-resistant?	_X__ ___	
Is the route at least 36 inches wide?	_X__ ___ __42"____ width	• Assembly Hall garage door at 14 feet wide, with 2 door entrances at 42 inches wide
Can all objects protruding into the circulation paths be detected by a person with a visual disability using a cane? **In order to be detected** using a cane, an object must be within 27 inches of the ground. Objects hanging or mounted overhead must be higher than 80 inches to provide clear head room. It is not necessary to remove objects that protrude less than 4 inches from the wall.	_X__ ___ _____ distance from wall/ht	
Do curbs on the route have curb cuts at drives, parking, and drop-offs?	_N/A ___	• No curbs on site
Ramps (ADAAG 4.8)		
Are the slopes of ramps no greater than 1:12? **Slope is given as a ratio of the height to the length.** 1:12 means for every 12 inches long the base of the ramp, the height increases one inch. For a 1:12 maximum slope, at least one foot of ramp length is needed for each inch of height.	___ ___ _____ slope	• There are no ramps on site

QUESTIONS		POSSIBLE SOLUTIONS/Notes
Ramps, continued	**YES NO**	
Do all ramps longer than 6 feet have railings on both sides?	___ ___	
Are railings sturdy, and between 34 and 38 inches high?	___ ___ _____ height	
Is the width between railings or curbs at least 36 inches?	___ ___ _____ width	
Are ramps non-slip?	___ ___	
Is there a 5-foot-long level landing at every 30-foot horizontal length of ramp, at the top and bottom of ramps and at switchbacks?	___ ___ _____ length	
Does the ramp rise no more than 30 inches between landings?	___ ___ _____ rise	
Parking and Drop-Off Areas (ADAAG 4.6)		
Are an adequate number of accessible parking spaces available (8 feet wide for car plus 5-foot access aisle)? For guidance in determining the appropriate number to designate, the table below gives the ADAAG requirements for new construction and alterations (for lots with more than 100 spaces, refer to ADAAG): **Total spaces** / **Accessible** 1 to 25 / 1 space 26 to 50 / 2 spaces 51 to 75 / 3 spaces 76 to 100 / 4 spaces	___ _X_ _____0____ no. accessible spaces Note widths of existing accessible spaces:	• There are NO designated ADA parking spaces on site, 4 are required • Reconfigure a reasonable number of spaces by repainting stripes.
Are 8-foot-wide spaces, with minimum 8-foot-wide access aisles, and 98 inches of vertical clearance, available for lift-equipped vans? **At least one of every 8 accessible spaces** must be van-accessible (with a minimum of one van-accessible space in all cases).	___ ___ _____ width/vertical clearance	• Reconfigure to provide van-accessible space(s).

QUESTIONS			POSSIBLE SOLUTIONS/Notes
Parking and Drop-Off Areas, continued	**YES**	**NO**	
Are the access aisles part of the accessible route to the accessible entrance?	___	___	• Add curb ramps. • Reconstruct sidewalk.
Are the accessible spaces closest to the accessible entrance?	___	___	• Reconfigure spaces.
Are accessible spaces marked with the International Symbol of Accessibility? Are there signs reading "Van Accessible" at van spaces?	___	___	• Add signs, placed so that they are not obstructed by cars.
Is there an enforcement procedure to ensure that accessible parking is used only by those who need it?	___	___	• Implement a policy to check periodically for violators and report them to the proper authorities.
Entrance (ADAAG 4.13, 4.14, 4.5)			• The only alternate entrance is located at the assembly hall. • If it is not possible to make the main entrance accessible, create a dignified alternate accessible entrance. If parking is provided, make sure there is accessible parking near all accessible entrances. • Install signs at inaccessible entrances so that people do not have to retrace the approach. • Eliminate as much as possible the need for assistance—to answer a doorbell, to operate a lift, or to put down a temporary ramp, for example.
If there are stairs at the main entrance, is there also a ramp or lift, or is there an alternative accessible entrance? **Do not use a service entrance as the accessible** entrance unless there is no other option.	___	_X__	
Do all inaccessible entrances have signs indicating the location of the nearest accessible entrance?	___	__X_	
Can the alternate accessible entrance be used independently?	_X__	___	
Does the entrance door have at least 32 inches clear opening (for a double door, at least one 32-inch leaf)?	_X__ __42"_____ clear opening	___	
Is there at least 18 inches of clear wall space on the pull side of the door, next to the handle? **A person using a wheelchair** or crutches needs this space to get close enough to open the door.	_X_ _____ clear space	___	

QUESTIONS	YES	NO	POSSIBLE SOLUTIONS/Notes
Entrances, continued			
Is the threshold edge 1/4-inch high or less, or if beveled edge, no more than 3/4-inch high?	___	_X_	• If there is a single step with a rise of 6 inches or less, add a short ramp. • If there is a threshold greater than 3/4-inch high, remove it or modify it to be a ramp.
	__2.5"___ height		
If provided, are carpeting or mats a maximum of 1/2-inch high?	___	___	• There are NO carpets or mats on site
	_____ height		
Are edges securely installed to minimize tripping hazards?	___	___	• Secure carpeting or mats at edges.
Is the door handle no higher than 48 inches and operable with a closed fist?	_X__	___	• Lower handle. • Replace inaccessible knob with a lever or loop handle. • Retrofit with an add-on lever extension.
	___39"___ height		
The "closed fist" test for handles and controls: Try opening the door or operating the control using only one hand, held in a fist. If you can do it, so can a person who has limited use of his or her hands.			
Can doors be opened without too much force (exterior doors reserved; maximum is 5 lbf for interior doors)?	__X_	___	• Adjust the door closers and oil the hinges. • Install power-assisted or automatic door openers. • Install lighter doors.
	___5lbf___ force		
You can use an inexpensive force meter or a fish scale to measure the force required to open a door. Attach the hook end to the doorknob or handle. Pull on the ring end until the door opens, and read off the amount of force required. If you do not have a force meter or a fish scale, you will need to judge subjectively whether the door is easy enough to open.			
If the door has a closer, does it take at least 3 seconds to close?	__	__X_	• Adjust door closer.
	___2____ seconds		

QUESTIONS		POSSIBLE SOLUTIONS/Notes
PRIORITY 2		
Access to Goods and Services		
Ideally, the layout of the building should allow people with disabilities to obtain materials or services without assistance.	YES NO	
Horizontal Circulation (ADAAG 4.3)		
Does the accessible entrance provide direct access to the main floor, lobby, or elevator?	_X_ ___	• Add ramps or lifts. • Make another entrance accessible.
Are all public spaces on an accessible route of travel?	_X_ ___	• Provide access to all public spaces along an accessible route of travel.
Is the accessible route to all public spaces at least 36 inches wide?	___ _X_ __35"_ width	
Is there a 5-foot circle or a T-shaped space for a person using a wheelchair to reverse direction?	_X_ ___ 8'9" width	
Doors (ADAAG 4.13)		
Do doors into public spaces have at least a 32-inch clear opening?	_X ___ _34.5___ clear opening	
On the pull side of doors, next to the handle, is there at least 18 inches of clear wall space so that a person using a wheelchair or crutches can get near to open the door?	___ _X ___16"_ clear space	
Can doors be opened without too much force (5 lbf maximum for interior doors)?	_X ___ __5ftb force	
Are door handles 48 inches high or less and operable with a closed fist?	_X ___ ___38"___ height	
Are all threshold edges 1/4-inch high or less, or if beveled edge, no more than 3/4-inch high?	___ _X_ ___1/2" height	• If between 1/4-inch and 3/4-inch high, add bevels to both sides.

QUESTIONS		POSSIBLE SOLUTIONS/Notes
Rooms and Spaces (ADAAG 4.2, 4.4, 4.5)	YES NO	
Are all aisles and pathways to materials and services at least 36 inches wide?	___ _X_ ___34.5" width	• Rearrange furnishings and fixtures to clear aisles. • Rearrange furnishings to clear more room.
Is there a 5-foot circle or T-shaped space for turning a wheelchair completely?	_X_ ___ _____ width	
Is carpeting low-pile, tightly woven, and securely attached along edges?	___ ___	• NO carpeting on site
In circulation paths through public areas, are all obstacles cane-detectable (located within 27 inches of the floor or higher than 80 inches, or protruding less than 4 inches from the wall)?	_X___ ___ _____ ht/protrusion	
Emergency Egress (ADAAG 4.28)		
If emergency systems are provided, do they have both flashing lights and audible signals?	___ _X_	• Install visible and audible alarms. • Provide portable devices.
Signage for Goods and Services (ADAAG 4.30) Different requirements apply to different types of signs.		
If provided, do signs and room numbers designating permanent rooms and spaces where goods and services are provided comply with the appropriate requirements for such signage? (See specifications below.)	___ _X_	• Signage is located on the top of all door frames (about 8 feet in height)
	Y N	
• Signs mounted with centerline 60 inches from floor.	_X	___8'_____ height
• Mounted on wall adjacent to latch side of door, or as close as possible.	_X	
• Raised characters, sized between 5/8 and 2 inches high, with high contrast.	_X	_1"_____ character ht
• Brailled text of the same information.	_X	
• If pictogram is used, it must be accompanied by raised characters and braille.	N/A	

QUESTIONS		POSSIBLE SOLUTIONS/Notes
Directional and Informational Signage	YES NO	
The following questions apply to directional and informational signs that fall under Priority 2 .		• There are no directional signs at this facility.
If mounted about 80 inches, do they have letters at least 3 inches high, with high contrast, and non-glare finish?	___ _X__ _____ letter height	• Review requirements and replace signs as needed, meeting the requirements for character size, contrast, and finish.
Do directional and informational signs comply with legibility requirements? (Building directories or temporary signs need not comply.)	___ ___	• Review requirements and replace signs as needed.
Controls (ADAAG 4.27)		
Are all controls that are available for use by the public (including electrical, mechanical, cabinet, game, and self-service controls) located at an accessible height?	_X__ ___ __51"___ height	
Reach ranges: The maximum height for a side reach is 54 inches; for a forward reach, 48 inches. The minimum reachable height is 15 inches for a front approach and 9 inches for a side approach.		
Are they operable with a closed fist?	_X__ ___	
Seats, Tables, and Counters (ADAAG 4.2, 4.32, 7.2)		
Are the aisles between fixed seating (other than assembly area seating) at least 36 inches wide?	___ ___ _____ width	• There is neither fixed seating or designated wheelchair seating at this facility.
Are the spaces for wheelchair seating distributed throughout?	___ ___	• Rearrange chairs or tables to provide 36-inch aisles.
Are the tops of tables or counters between 28 and 34 inches high?	_X ___ __29.5"___ height	• Rearrange tables to allow room for wheelchairs in seating areasthroughout the area.
Are knee spaces at accessible tables at least 27 inches high, 30 inches wide, and 19 inches deep?	_X___ ___ __28/30/20 _ ht/width/depth	

QUESTIONS		POSSIBLE SOLUTIONS/Notes
Seats, Tables, and Counters, continued	**YES NO**	
At each type of cashier counter, is there a portion of the main counter that is no more t han 36 inches high?	____ ____ _____ height	• There is no cashier counter at this facility
Is there a portion of food-ordering counters that is no more than 36 inches high, or is there space at the side for passing items to customers who have difficulty reaching over a high counter?	____ ____ _____ height	
Vertical Circulation (ADAAG 4.1.3(5), 4.3)		• Install ramps or lifts.
Are there ramps, lifts, or elevators to all public levels?	____ _X__	• Relocate goods or services to an accessible area.
On each level, if there are stairs between the entrance and/or elevator and essential public areas, is there an accessible alternate route?	____ _X__	• Post clear signs directing people along an accessible route to ramps, lifts, or elevators.
Stairs (ADAAG 4.9) The following questions apply to stairs connecting levels not serviced by an elevator, ramp, or lift.		
Do treads have a non-slip surface?	_X__ ____	
Do stairs have continuous rails on both sides, with extensions beyond the top and bottom stairs?	_X__ ____	
Elevators (ADAAG 4.10)		
Are there both visible and verbal or audible door opening/closing and floor indicators (one tone = up, two tones = down)?	____ ____	• There is no elevator at this facility
Are the call buttons in the hallway no higher than 42 inches?	____ ____ _____ height	
Do the controls inside the cab have raised and braille lettering?	____ ____	

QUESTIONS			POSSIBLE SOLUTIONS/Notes
Elevators, continued	**YES**	**NO**	
Is there a sign on both door jambs at every floor identifying the floor in raised and braille letters?	___	___	
If an emergency intercom is provided, is it usable without voice communication?	___	___	
Is the emergency intercom identified by braille and raised letters?	___	___	
Lifts (ADAAG 4.2, 4.11)			• There are no lifts at this facility
Can the lift be used without assistance? If not, is a call button provided?	___	___	
Is there at least 30 by 48 inches of clear space for a person in a wheelchair to approach to reach the controls and use the lift?	___	___	
	_____ clear space		
Are controls between 15 and 48 inches high (up to 54 inches if a side approach is possible)?	___	___	
	_____ height		
PRIORITY 3			• There are no ADA accessible rest rooms in this facility
Usability of Rest Rooms			
When rest rooms are open to the public, they should be accessible to people with disabilities.			
Getting to the Rest Rooms (ADAAG 4.1)			• Reconfigure restroom and install accessable signage
If rest rooms are available to the public, is at least one rest room (either one for each sex, or unisex) fully accessible?	___	_X	
Are there signs at inaccessible rest rooms that give directions to accessible ones?	___	_X_	
Doorways and Passages (ADAAG 4.2, 4.13, 4.30)			
Is there tactile signage identifying rest rooms?	___	_X	• Add accessible signage, placed to the side of the door, 60 inches to centerline (not on the door itself).

QUESTIONS		POSSIBLE SOLUTIONS/Notes
Doorways and Passages, continued	**YES NO**	
Are pictograms or symbols used to identify rest rooms, and, if used, are raised characters and braille included below?	____ _X__	• Install offset (swing-clear) hinges.
Is the doorway at least 32 inches clear?	____ _X_ ___30.5___ clear width	
Are doors equipped with accessible handles (operable with a closed fist), 48 inches high or less?	____ __X ___42"___ height	• Replace knobs or latches with lever or loop handles. • Add lever extensions. • Install power-assisted or automatic door openers.
Can doors be opened easily (5 lbf maximum force)?	____ _X__ ____15lbf__ force	• Adjust or replace closers. • Install lighter doors. • Install power-assisted or automatic door openers.
Does the entry configuration provide adequate maneuvering space for a person using a wheelchair?	____ __X__ __30.5_____ clear width	• Remove inner door if there is a vestibule with two doors. • Move or remove obstructing partitions.
A person using a wheelchair needs 36 inches of clear width for forward movement, and a 5-foot diameter clear space or a T-shaped space to make turns. A minimum distance of 48 inches clear of the door swing is needed between the two doors of an entry vestibule.		• Remove obstructions.
Is there a 36-inch-wide path to all fixtures?	____ _X__ _____ width	• Width varies through out the facility
Stalls (ADAAG 4.17)		• Replace inaccessible knobs with lever or loop handles. • Add lever extensions.
Is the stall door operable with a closed fist, inside and out?	_X__ ____	
Is there a wheelchair-accessible stall that has	____ _X___	• Move or remove partitions. • Reverse the door swing if it is safe to do so.
an area of at least 5 feet by 5 feet, clear of the door swing, OR is there a stall that is less accessible but that provides greater access than a typical stall (either 36 by 69 inches or 48 by 69 inches)?	_57" x 24"___ length/width	

QUESTIONS		POSSIBLE SOLUTIONS/Notes
Stalls, continued	**YES NO**	
In the accessible stall, are there grab bars behind and on the side wall nearest to the toilet?	____ _X_	• Widen stall and add grab bars.
Is the toilet seat 17 to 19 inches high?	_X_ ____ __17"____ height	
Lavatories (ADAAG 4.19, 4.24)		
Does one lavatory have a 30-inch-wide by 48-inch-deep clear space in front? **A maximum of 19 inches of therequired** depth may be under the lavatory.	____ _X_ ___11"___ clear space	• Replace lavatory. • Remove or alter cabinetry to provide space underneath. Make sure hot pipes are covered. • Move a partition or wall.
Is the lavatory rim no higher than 34 inches?	_X__ ____ ___30.5"___ height	
Is there at least 29 inches from the floor to the bottom of the lavatory apron (excluding pipes)?	____ X__ ___27"___ height	• Adjust or replace lavatory.
Can the faucet be operated with one closed fist?	____ _X	• Replace faucet handles with paddle type.
Are soap and other dispensers and hand dryers within reach ranges (see page 7) and usable with one closed fist?	____ _X_	• Lower dispensers. • Replace with or provide add. accessible dispensers.
Is the mirror mounted with the bottom edge of the reflecting surface 40 inches high or lower?	____ _X_ ___53"___ height	• Lower or tilt down the mirror. • Add a larger mirror anywhere in the room.
PRIORITY 4		
Additional Access *Note that this priority is for items not required for basic access in the first three priorities.* When amenities such as drinking fountains and public telephones are provided, they should also be accessible to people with disabilities.		
Drinking Fountains (ADAAG 4.15)		
Is there at least one fountain with clear floor space of at least 30 by 48 inches in front?	____ __X_ ___44"___ height	• Clear more room by rearranging or removing furnishings.

Drinking Fountains, continued

	YES	NO	
Is there one fountain with its spout no higher than 36 inches from the ground, and another with a standard height spout (or a single "hi-lo" fountain)?	____	_X__	• Provide cup dispensers for fountains with spouts that are too high. • Provide accessible water cooler.
	____44"____ height		
Are controls mounted on the front or on the side near the front edge, and operable with one closed fist?	_X__	____	
Is each water fountain cane-detectable (located within 27 inches of the floor or protruding into the circulation space less than 4 inches from the wall?	_X	____	
	_____ ht/protrusion		

Telephones (ADAAG 4.31)

• There are no pay or public use phones within this facility.

If pay or public use phones are provided, is there clear floor space of at least 30 by 48 inches in front of at least one?	____	____
	_____ clear space	
Is the highest operable part of the phone no higher than 48 inches (up to 54 inches if a side approach is possible)?	____	____
	_____ height	
Does the phone protrude no more than 4 inches into the circulation space?	____	____
	_____ protrusion	
Does the phone have push-button controls?	____	____
Is the phone hearing-aid compatible?	____	____
Is the phone adapted with volume control?	____	____
Is the phone with volume control identified with appropriate signage?	____	____
If there are four or more public phones in the building, is one of the phones equipped with a text telephone (TT or TDD)?	____	____
Is the location of the text telephone identified by accessible signage bearing the International TDD Symbol?	____	____

OIL/WATER SEPARATOR SURVEY REPORT

FOR

99TH RSC CUSTOMER SUPPORT TEAM #1

Prepared by:

Horne Engineering Services, Inc.
2750 Prosperity Avenue, Suite 450
Fairfax, VA 22031-4312

JANUARY 24, 2001

OIL/WATER SEPARATOR SURVEY
99TH RSC CUSTOMER SUPPORT TEAM #1

TABLE OF CONTENTS

List of Tables:

List of Appendices:

OIL/WATER SEPARATOR SURVEY
99TH RSC CUSTOMER SUPPORT TEAM #1

In accordance with DACW65-99-D-0080, Order 0011, Horne Engineering Services, Inc. (Horne Engineering) conducted oil/water separator surveys for the 99th RSC CST #1. Twenty-six locations with oil/water separators or interceptors were surveyed by Horne Engineering between October and December 2000, to establish the compliance status with Federal and state regulations, and review the operational condition of the equipment.

A summary of the survey results by location is contained in Table 1. The survey synopsis (Table 2) provides roll-up information gathered, including counts of various activities and equipment. Table 3 provides a rough cost estimate, by location, to upgrade or close wastewater sources and treatment systems. Appendix A contains the site-specific survey reports for each location visited. Appendix B provides a generic description of the construction activities listed in Table 3. Appendix C is the spreadsheet used to develop the costs contained in Table 3.

Listed below are general descriptions of the survey results and generic recommendations. Site specific recommendations are contained Appendix A.

Type of Separators/Interceptors

The primary system utilized to treat oily wastewater by the surveyed Army Reserve facilities is an oil interceptor. There are four types of interceptors currently in use:

- (Wade Interceptor) Hydrafilter Oil Interceptor, Wade Division, Tyler Pipe, Tyler Texas. Eight Wade units are currently in use. This interceptor is a rectangular metal box insert that may be located in a manhole or a concrete vault. The holding capacity of this type of system is approximately 25 gallons.
- (Modified Wade Interceptor) Two modified Wade units are in use. This configuration consists of a standard Wade interceptor with a side concrete box. This box apparently was added after the original interceptor was installed and usually only has a cleanout and a vent. The purpose of the box is assumed to provide additional detention time for the wastewater.
- (Jasom) Jasom Cascade Oil Interceptor. Three Jasom units are in use. Unlike the Wade interceptor, the Jasom is not an insert, but an interceptor actually built into the wastewater line. The configuration is primarily rectangular with a diamond shaped effluent structure.
- (Smith) Smith Interceptor. Only one Smith unit was in use. Resembles the Jasom in size and configuration.

The "Multiservice Oil/Water Separator Guidance Manual" does not recommend the use of interceptors to treat oily wastewater. Interceptors are not capable of treating the high volume, wash rack wastewater to the degree necessary to meet associated discharge requirements contained in municipal sewer use ordinances. Interceptors have minimal treatment capacity, no sediment or oil storage capacity, and require continual maintenance.

All interceptors should be removed or replaced with appropriately sized standard gravity separators. These separators are easy to operate; have adequate capacity to store used oil and sediment for an extended period of time; and are capable of meeting typical sewer use ordinance discharge limitations for total petroleum hydrocarbons or oil & grease.

Most of the remaining treatment systems were standard American Petroleum Institute (API) gravity oil/water separators. A cursory hydraulic evaluation was conducted on the separators, based on a minimum detention time (45 minutes) and a loss of treatment capacity due to sediment accumulation (25%). Several of these separators were found to have limited hydraulic capacity and require further evaluation if they are to be utilized.

Generic Recommendations:

- All interceptors should be closed. If oily wastewater sources cannot be eliminated, an appropriately designed oil/water separator should be installed.
- Any new separator that discharges to a sanitary sewer should not require coalescers.
- The hydraulic capacity of the existing separators should be reviewed against the wastewater needs of the installation to ensure proper sizing.
- Low-flow, hot-water pressure washers should be considered (wastewater flows of 2 to 4 gallons/minute range) to reduce hydraulic loading to the certain oil/water separators. This may also negate the need for detergents. (Individual costs are not listed in the site-specific reports contained in Appendix A, but are estimated by the 99th RSC to be $6,000 per unit.)
- If detergents are required for spot cleaning, a quick-release detergent, compatible with oil/water separator treatment, should be used. This is currently being implemented at several of the facilities reviewed.

Sources Discharging to the Separators/Interceptors

The primary discharge sources to separators/interceptors are wash racks. The secondary sources to the separators/interceptors are maintenance area floor/trench drains. Other sources noted during the site visits were: a fueling area (1), sink (1), clothes washer (1), air compressor condensate (1), acid neutralization pit (1), and a 55-gallon drum that is used for hand washing.

Generic Recommendations:

- Only oily wastewaters should be discharged to a separator.
- If maintenance area floor drains or trench drains are not absolutely necessary, they should be closed.
- Soaps, detergents (other than quick-release), or solvents should not be discharged to a separator.

Wash Rack Conditions
The majority of the wash racks are constructed such that runon is not a concern. Only three locations require modification or closure due to runon.

Curbing to control the release of wash water to the environment is required at nine locations. Another noted condition is the separation of the curbing from the wash pad, which could allow the discharge of wash water to the soil. Sealing of the curb separation is suggested.

Seven wash pads were cracked and should be sealed to prevent wash water losses to the soil.

At least four wash racks were too small to fully contain vehicles being cleaned. Two of these systems will probably be closed, the other two should be upgraded.

The wash rack drains vary in size. Some drains (particularly serving engineer units) have problems with solids clogging. No particular recommendations are provided, but upgrading the drain system is highly suggested.

Two wash racks have the capability to divert storm water collected on the wash pad to a storm sewer system. These systems do not have a standard shutdown procedure; therefore, residual materials (oily sediment) were noted in the wash rack drains that should not be released to the storm sewer.

Generic Recommendations:

- All wash racks that are not absolutely necessary should be closed.
- All facilities with wash rack storm water diversion systems should develop, and strictly adhere to, a shutdown SOP.
- Runon should be prevented from entering the wash rack.
- Curbing should be such that all wash water is contained and discharges to the separator.
- Separation between the wash pad and the curbing should be sealed.
- Cracks in the wash pad should be sealed.
- Wash racks should be long enough to fully contain the largest vehicle that will utilize the pad.

Separator Discharge Location
Separators/interceptors in all but four facilities discharge to the sanitary sewer. Of those four locations, three are recommended for closure (including a potential dry well) and the fourth requires upgrade if it is to be used. Upgrading the separator could include diverting the discharge to the sanitary sewer. Another system discharges to a storm sewer yard drain, but the yard drain discharges to a municipal sanitary sewer. One system discharges to an on-site sewage treatment system.

One separator has a hole in the side which would allow the release of oily wastewater to the environment.

Generic Recommendations:

- The majority of the separators/interceptors discharge to sanitary sewers. The individual sites should review the associated municipal sewer use ordinance to ensure that any pretreatment/discharge requirements are being met.
- Wash racks with storm water diversions should develop and adhere to a shutdown SOP to ensure that industrial wastewater is not discharged to the storm sewer (previously listed).
- Wastewater discharges to storm sewers should be eliminated.
- Separators should be water tight to prevent the loss of oily wastewater to the environment.

Separator Used Oil Storage Tanks

Of the 28 wastewater treatment systems surveyed, only two systems actually had or were suspected of having a separate used oil storage system. One separator had an oil skimmer. The used oil from this rope skimmer is collected in a 55-gallon drum. A second location had a potential used oil underground storage tank (UST) associated with an interceptor (the potential UST and the interceptor are recommended for closure).

Separator Maintenance

The majority of the separators/interceptors inspected by Horne Engineering, were pumped down by Waste-Tron in 1996. Other than that activity, scheduled maintenance is generally not conducted. The one recycling system is pumped down when the smell (petroleum) of the wastewater becomes too strong. (It should be noted that the recycling system itself is not on a maintenance program.) A larger system which has a sedimentation basin prior to the separator, is pumped down when the basin fills with solids. The skimmer used in this system does receive maintenance on a regular basis.

Generic Recommendations:

- A site specific maintenance program should be developed for all oil/water separators, which should include a maximum allowable sediment depth and oil thickness in the separator.
- Recycling systems should not only have a separator maintenance program, but a scheduled maintenance program on the equipment used to treat the recycled wastewater.

Storm Water Permits

Of the 26 locations visited, eight sites may require storm water permits. The sites that would require permits are those that primarily conduct maintenance on, or store large numbers of, vehicles. These types of facilities are AMSA shops (3) and ECS (1). Other

conditions that may warrant permitting are: groundwater drainage systems, tracked vehicle maintenance (exterior), and waste handling and storage.

Generic Recommendations:

- Written justification and necessary corrective actions should be developed for those locations which anticipate claiming an exclusion to storm water permitting. (This may be done in-house.)
- Those facilities which may not seek an exclusion should immediately develop a PPC plan and file an NOI.
- The development of an SOP for drip pan usage and associated waste handling is necessary for all facilities.
- Guidelines should be developed concerning the type (lid and sealed drain) and use (lid closed) of dumpsters and the exterior handling and storage of materials/wastes.

Other Issues Noted During Site Visits

While on-site, issues not related to oil/water separators, were noted by Horne Engineering.

Generic Recommendations:

- The sewage pump station diversion system to the storm sewer should be evaluated and permitted, if necessary.
- Suspected underground storage tank locations should be investigated. Residual equipment associated with previous closures should be removed. Closure documentation should be located and stored at the installation.
- Unless required, all battery room floor drains should be sealed and the acid neutralization pits appropriately closed.
- Can washes that are not necessary should be closed.
- Former drainfields that may have received industrial wastewater should be investigated.
- In-ground hydraulic lifts should be appropriately closed.
- Flammable storage rooms should be reviewed concerning hazardous waste storage, material compatibility, accessibility, and operational status.
- Solvent parts cleaning stations that are not necessary should be eliminated.
- Empty fuel tankers that are not necessary should be eliminated from the vehicle inventory.
- Grease traps and other wastewater tankage should be regularly cleaned to prevent line blockage.
- Unnecessary grease racks should be dismantled.

- Older vehicles (peeling paint and leaks) should not be stored at facilities, unless required for the mission.
- Exterior storage of materials and wastes should be tightly controlled or eliminated.
- Agreements should be obtained with tenant organizations (Marine Corps) to better control the potential environmental liability and regulatory issues associated with their activities.

TABLE 1 - SUMMARY OF OIL/WATER SEPARATOR SURVEY REPORTS – 99TH RSC CUSTOMER SUPPORT TEAM #1
(October through December 2000)

Facility	Separator Type	Discharge Location	Wash Rack	Storm Water Exclusion Potential	Recommendation Separator	Recommendation Wash Rack	Other Issues
Altoona	1 Interceptor (Jasom type) 2 Wade interceptor with upgrade (inactive)	Storm - assumed	None	Moderate-to-high (sheen on runoff)	Close both interceptors and seal maintenance floor drains.	N/A	Potential used oil UST (vent and fill pipe), additional UST vent pipe, potential pretreatment system near the kitchen/boiler area.
Ashley	Gravity separator – cylindrical (may be sand trap)	Sanitary	Curbed 3 sides, 18.5' x 35'	High	If wash rack is closed, seal maintenance floor drains and close separator. If wash rack is active, verify "T" discharge or install "T". Verify adequate hydraulic capacity (14 gallons/minute).	If not needed, close. If needed, install curbing on 4th side.	In-ground hydraulic lift, can wash, flammable room, exterior waste storage, solvent parts cleaner, spalling concrete at pump station
Bellefonte	API	Sanitary pumped, may go to drainfield during pump failure	Curbed	Moderate-to-high	Close	Close	Drainfield
Bethlehem	Wade Interceptor	Sanitary	Curbed (6-in) 4 sides 15' x 30'	High	Close	Close	None
Bloomsburg	Dry well - potential	Unknown	No curbing, 14.75' x 30'	High (with site modifications)	Close	Close	Unpaved parking areas, gas cylinders
Bristol	API – small	Sanitary	Curbed 4 sides, 16' x 25'	Low (construction debris)	Convert to sediment trap, add downstream separator. Interim, put "T" on effluent or insert baffles.	Improve sediment collection. Limit size of vehicles or (preferred) install new wash rack.	Construction debris, separator solids disposal, hand wash drum, can wash/grease trap, grease racks (2), refrigerator, water fountain

Facility	Separator Type	Discharge Location	Wash Rack	Storm Water Exclusion Potential	Recommendation Separator	Recommendation Wash Rack	Other Issues
Brookville	Interceptor (no openings)	Storm - probable	Curbed	Low (dozer parking and maintenance)	Replace with separator if wash rack is needed, otherwise close.	Close if not needed. If needed, existing small drain may create a solids problem.	Maintenance floor drains, dozer parking and maintenance, can wash
Chambersburg	Wade Interceptor	Sanitary	Curbed (6 in.) 4 sides 15 ¼' x 30'	High	Replace interceptor with separator if wash rack is needed, otherwise close.	Close if not needed, otherwise, no improvements required.	None
Edgemont	API	Recycled	(2) Curbed 3 sides, 14.5' x 24'	Low (AMSA shop)	Place "T" influent and effluent pipes. Also put "T" s on effluent from two septic tanks. Increase maintenance.	Close one wash rack. Additional curbing and sealing pad on other. Limit size of vehicles, or install new wash rack.	Maintenance trench drains, battery room, drainfield, hydraulic lift, grease rack, day tanks, excessive number of fuel tankers
ECS #24	(1) API (2) API	(1) & (2) Sanitary	Protected on 3 sides 45' x 120'	Low (ECS)	(1) Seal hole, revise influent, review hydraulic capacity (2) Review hydraulic capacity (washing and rain events)	Seal pad and evaluate current wash procedures to prevent release, curb fueling area	Acid neutralization pit (under investigation by 99th), unpaved parking, dumpsters
Gettysburg	Interceptor (flooded with sewage)	Sanitary	No curbs, minimal slopes 14.5' x 30'	High	Replace interceptor with separator if wash rack is needed, otherwise close.	Close if not needed and connect water fountain drain to sanitary sewer. If needed, install curbing on 4 sides.	Sewage backup into separator vault and wash rack drain, water fountain discharge.
Harrisburg	API - two connected boxes	Sanitary	No curbing, minimal slopes 14.5' x 29'	High	Close (not used). If not closed limit flows.	Close. If not closed, curb all sides.	Potential UST (vent and fill pipe), oil dumping in separator
Horsham	Jasom Interceptor	Sanitary	Curbed 4 sides 15' x 30'	Moderate-to-high (with site improvements)	Replace with separator if wash rack is needed, otherwise close.	Close, if not needed. If needed, seal curbing, move sink discharge.	Solid waste and material handling, leaking fire hydrant, sink discharge to wash rack, unlabeled transformer
Lancaster	Wade Interceptor with box	Sanitary, w/ diversion to storm	Curbed 3 sides good slopes 18.5' x 40'	High (except for diversion)	Replace interceptor with separator if wash rack is needed, otherwise close.	Close if not needed, otherwise, no physical improvements required. Develop shutdown SOP.	Can Wash

Facility	Separator Type	Discharge Location	Wash Rack	Storm Water Exclusion Potential	Recommendation Separator	Recommendation Wash Rack	Other Issues
Lewisburg	API	Sanitary, via on-site pump station	No curbing	Low-to-moderate (water table drainage system)	Close if wash rack is closed. If used, review against flows, as capacity is approximately 12.5 gpm.	Close if not needed. If needed, curb all sides.	Unnecessary UST, water table drainage, maintenance floor and trench drains, can wash, material/waste handling
Lewistown	API	Sanitary	Curbed 2 sides, 20' x 36'	High (with wash rack improvements)	Close if wash rack and trench drains are closed. (If used evaluate structural stability.)	Close if not needed. Otherwise seal existing curbs and curb 3rd side.	Acid neutralization pit, can wash, parts cleaning stations (2), clothes washer
Lock Haven	Wade Interceptor	Sanitary	Curbed, 19' x 35'	Low (AMSA shop)	Close, as interim measure install "T" influent and effluent in sand trap. Install new separator, if wash rack is used.	Seal wash pad. Close maintenance trench drains if not necessary.	Acid neutralization pit, can wash
Norristown	No separator could be located	On-site sanitary pump station	No curbing, 14.75' x 30'	High (following erosion controls)	N/A	Close	Sewage pump station control panel and storm water discharge, UST vent and fill pipes and closure report, erosion, can wash
North Penn	API - small	On-site, sewage treatment plant	Curbed 4 sides 16' x 23'	High (not including Nike site)	Close	Close	Grease rack, transformers
Reading	API with 2 boxes	Sanitary with diversion to storm	(2) Curbed 2 sides each, 18'8" x 37'6"	Low (AMSA shop)	(Option) Investigate reason for no free product.	Curb 1 side, develop shutdown SOP	Acid neutralization pit, unpaved parking, exterior battery storage
Schuylkill Haven	Smith Interceptor	Sanitary	No curbs, good interior slopes, runon from parking area, solids clogging 20' x 36'	Moderate-to-high (erosion)	Close interceptor and replace with separator	Curb 4 sides, (option) improve solids handling	Abandoned UST, erosion

Facility	Separator Type	Discharge Location	Wash Rack	Storm Water Exclusion Potential	Recommendation Separator	Recommendation Wash Rack	Other Issues
Scranton	Wade Interceptor	Sanitary thru storm	Curbed 4 sides 14.75' x 30'	N/A – discharges to sanitary sewer. Moderate (if required)	Close and replace with separator (if required)	Seal wash pad	Runoff to sanitary system, exterior waste/material storage, air conditioner condensate
State College	1 Wade - wash rack 2 API – trench drain	Sanitary	Roofed	High	1 Wade (close) 2 API (use for wash rack, if practicable or close, if allowed) May need new separator for wash rack	Close (if not necessary)	Acid neutralization pit, former drainfield
West Hazleton	Wade Interceptor	Storm - potential	Curbed 3 sides, 15' x 30'	High	Close	Close	Flammable storage room, sewage discharge location
Williamsport	Wade Interceptor	Sanitary	Curbed 2 sides 16.5' x 24.5'	High	Close	Close	Potential UST fill pipe, old vehicles, metal storage bins
Woodhaven	Jasom Interceptor	Sanitary	(2), fully curbed, 15' x 30'	Moderate-to-high (Marine activity)	Close interceptor, install separator	Close one wash rack, seal curbing and pad on open wash rack	Vent for closed UST, upgrade AST, material storage and handling, peeling paint on penthouse

TABLE 2 - SYNOPSIS OF FACILITY SURVEYS

Locations Inspected: 26

Separators/Interceptors:
Oil/Water Separators: 12 (Bristol, North Penn, and Lewisburg systems have limited capacity)
Oil/Water Interceptors: 15
Potential Dry Well: 1 (Bloomsburg)
Locations w/out Separators/Interceptors: 1 (Norristown)

Wash Racks:
Number of sites w/out wash racks: 1 (Altoona)
Number of sites with two wash racks: 3 (Edgemont, Reading, Woodhaven)
Wash racks proposed for closure: 11 (Bellefonte, Bethlehem, Bloomsburg, Edgemont (1 of 2), Harrisburg, Norristown, North Penn, State College, West Hazleton, Williamsport, Woodhaven (1 of 2))

Discharge Locations:
Sanitary: 22
Number of which that can divert to storm: 2 (Lancaster, Lewisburg)
Recycle: 1 (Edgemont)
Storm (assumed): 4 (Altoona (2), Brookville, West Hazleton)
Potential dry well/unknown: 1 (Bloomsburg)

Potential of Storm Water Permit Exclusion:
High: 13
Moderate-to-high: 5
Low-to-moderate: 1 (Lewisburg)
Low: 6 (Bristol, Brookville, Edgemont, ECS #24, Lock Haven, Reading)
Not applicable: 1 (Scranton discharges to sanitary sewer, moderate potential, if required)

Acid Neutralization Pits/Battery Rooms:
6 (Edgemont, ECS #24, Lewistown, Lock Haven, Reading, State College)

Can Washes:
8 (Ashley, Bristol, Brookville, Lancaster, Lewisburg, Lewistown, Lock Haven, Norristown)

USTs and Potential USTs:
Vent (only): 2 (Altoona, Woodhaven) NOTE: Woodhaven has UST closure documentation.
Fill pipe (only): 1 (Williamsport)
Vent and fill pipe (or clean-out): 3 (Altoona, Harrisburg, Norristown)
UST (abandoned, filled with water): 1 (Schuylkill Haven)
Unnecessary Registered UST: 1 (Lewisburg)

Table 3 - Summary of Cost Estimates

Facility	Mob/Demob	Demo Wade Type Interceptor	Demo In-line Sep/Int.	In-place Wash Rack Closure	Demolish and Replace Wash Rack	Install 25 gpm O/W Separator	Install Curbing	Seal Wash Rack	Close Floor/ Trench Drains	Other	Project and Closure Reports	Project Upgrade Reports	Storm Water Exclusion	PPC Plan, Only	Total, Closing Sources	Total, Upgrading Sources	Maximum Value
Altoona	3,600	5,100	9,600						150	15,000	8,363		2,750		$44,563		$44,563
Ashley	3,600		9,600	13,200			342		150	1,500	6,638	1,361	2,750		$35,938	$9,553	$35,938
Bellefonte	3,600		9,600	13,200							6,600		2,750		$35,750		$35,750
Bethlehem	3,600	5,100		13,200							5,475		2,750		$30,125		$30,125
Bloomsburg	3,600			13,200						15,000	7,950		2,750		$42,500		$42,500
Bristol	7,200		9,600		22,000	26,500						16,325		6,000		$87,625	$87,625
Brookville	3,600		9,600	13,200		26,500			150		6,638	9,925		6,000	$39,188	$55,625	$55,625
Chambersburg	3,600	5,100		13,200		26,500					5,475	8,800	2,750		$30,125	$46,750	$46,750
Edgemont	7,200			13,200	22,000		270	870		3,500		11,475		6,000		$63,375	$63,375
ECS #24	3,600					5,000	3,240	13,500		20,900		11,560		6,000		$63,800	$63,800
Gettysburg	3,600	5,100		13,200		26,500	1,620				5,475	9,205	2,750		$30,125	$48,775	$48,775
Harrisburg	3,600		9,600	13,200			1,620				6,600	1,305	2,750		$35,750	$9,275	$35,750
Horsham	3,600		9,600	13,200		26,500		765			6,600	10,116	2,750		$35,750	$53,331	$53,331
Lancaster	3,600		9,600	13,200		26,500				1,250	6,600	10,238	2,750		$37,000	$53,938	$53,938
Lewisburg	3,600		9,600	13,200			1,620				6,600	1,305		6,000	$39,000	$12,525	$39,000
Lewistown	3,600		9,600	13,200			648	476	3,944		7,586	1,181	2,750		$40,681	$8,655	$40,681
Lock Haven	3,600	5,100		13,200		26,500		1,663	3,944	1,000	6,461	9,466		6,000	$38,306	$53,328	$53,328
Norristown	3,600			13,200							4,200		2,750		$23,750		$23,750
North Penn	3,600		9,600	13,200							6,600		2,750		$35,750		$35,750
Reading	3,600						360			1,250		1,303		6,000		$12,513	$12,513
Schuylkill Haven	3,600		9,600			26,500	2,016		1,578			10,823	2,750			$56,867	$56,867
Scranton	3,600	5,100				26,500		1,125				9,081		6,000		$51,406	$51,406
State College	3,600	5,100	9,600	13,200					3,944		8,861		2,750		$47,056		$47,056
West Hazleton	3,600	5,100		13,200						5,000	6,725		2,750		$36,375		$36,375
Williamsport	3,600	5,100		13,200							5,475		2,750		$30,125		$30,125
Woodhaven	3,600		9,600	26,400		26,500		1,890			9,900	7,098	2,750		$52,250	$38,238	$52,250
														Total			**$1,176,944**

OIL/WATER SEPARATOR SURVEY REPORT
99TH RSC CUSTOMER SUPPORT TEAM #1

Date of Inspection: November 2, 2000

Facility Information
Facility Name: (FAC ID PA148)
LYCOMING MEMORIAL USARC
1605 FOUR MILE DRIVE
Williamsport, PA 17701-1989

Contact Name:
MS MICHAELS

Phone #: (570) 322-4695
Fax #: (570) 322-4648

Tenants: None

Section I - Separator Information
Location: Outside the fence near the back corner of the maintenance building.
General Areas Served: Wash rack

Manufacturer's Information: Wade Interceptor

Type of Separator:	Interceptor (Wade)
Date installed:	1960's
Status:	Active
Elevation of Separator:	Underground in a manhole
Configuration:	Rectangular
Construction Material:	Metal
Wastewater treatment prior to separator:	Sand trap at wash rack
Effluent/discharge structure:	Unknown
Oil Skimmer Type:	None
Accessibility:	Within manhole

SEPARATOR DIMENSIONS (NOTE: All dimensions are interior.)
Standard Wade Interceptor (Label on interceptor)

Length: __ Depth (from top of tank): _
Width: __ Freeboard (liquid surface to top of tank):
Operational volume:

Waste-Tron Information - March 1996
Williamsport - Lycoming Memorial USARC
Grab samples of wastewater
No sludge for sample
OWS Dimensions: 28 ½ " x 16 ½ " x 17", Capacity: 25 gallons
Vault: 70" x 78" x 112", Capacity: 2,650 gallons
Volume of sludge: 0 gallons
Volume of wastewater: 475 gallons (14 inches)
Oil: No sheen

USED OIL STORAGE – Evaluated only if Tank Serves Separator

Used Oil Storage Serving Separator:	Within interceptor
Configuration comments: The liquid in the interceptor could not be inspected. The liquid in the manhole was clear. There was minimal sediment. The wash rack has not been used for years. The interceptor could not adequately treat wastewater generated by the wash rack.	

SECTION II - OPERATION & MAINTENANCE:

Frequency of maintenance and inspections	No maintenance is conducted on this system.

SECTION III - COMPLIANCE:
Effluent Discharge: The interceptor discharges to the sanitary sewer.
Bypass/Overflow/Storm Water Diversion discharge location(s): None apparent
Current CWA permits: None
UST/AST/RCRA compliance comments: N/A

SECTION IV - INDUSTRIAL WASTEWATER SOURCES TO THE SEPARATOR
Description of Sources

Activity	Description	Comments
Wash Rack	Wash rack, 16.5' x 24.5', curbed on two sides, adequate slope and sand trap (requires cleaning).	Wash rack is not in use and should be closed.

SECTION V - RUNOFF SOURCES TO SEPARATOR

Activity	Description	Comments
Wash Rack	Incident rainfall to wash rack.	

SECTION VI - STORM WATER PERMIT
Runoff discharges to: Sheet flow, nearby stream Filed NOI: No

Completed preparedness, prevention, and contingency (PPC) plan: No

Storm Water Permit Exclusion Review:

Condition	Description	Comments
Outdoor vehicles/equipment:	Trucks, HMMWVs, carts, potable water tank. Some general leakage from vehicles, not excessive. One old truck was leaking break fluid and paint was pealing.	
Outdoor raw material:	Three, locked metal bins with lids. One bin was opened and contained old cans of oil, antifreeze, hydraulic fluid. Should be cleaned out and bins removed. Various storage containers, no apparent problems.	
Outdoor waste and dumpsters:	One open metal bin containing domestic trash. This material will be removed within the week. The dumpster serving the facility has a lid.	
Outdoor industrial activities:	None	
Fueling operations:	None	
Materials or residuals on ground/storm inlets	None	
Visible deposits from roof stacks	Rust staining at the discharge point of the various downspouts.	

SECTION VII - SUMMARY

1. The site has one gravity oil/water interceptor in a concrete manhole, which discharges to the sanitary sewer.
2. The interceptor does not have a separate used oil storage tank.
3. The water in the manhole has been analyzed and not problems were noted. The contents of the interceptor apparently were not analyzed.
4. The interceptor receives no maintenance.
5. No permit is required for the discharge to the sanitary sewer.
6. One source (wash rack) discharges to the interceptor. The wash rack is not used.
7. Other than incident rainfall on the wash rack, rainfall does not affect the performance of the interceptor.
8. The site apparently has not filed an NOI related to storm water permitting.
9. The potential that the site could successfully request an exclusion, or make a determination that the facility is excluded, from storm water permitting is high.

SECTION VIII - RECOMMENDED ACTIONS

Condition	Recommendation	Estimated Costs:
Wash Rack	The wash rack has not been used in years. Closure is recommended. (Option) If the wash rack is to stay open, an appropriately designed oil/water separator should be installed.	• Mob/Demob: $3,600 • Wash rack closure: $13,200 Or, • (Option) Install new oil/water separator.
Oil/Water Interceptor	The interceptor is not capable of treating wastewater generated by a wash rack and should be closed. The interceptor is a stand alone structure; that is, the interceptor is a metal box placed in a protective vault or manhole. Any leaks in the box would have discharged to the vault and the sewer, and not to the environment; therefore, typical closure requirements for oil/water separators may not apply. Final determinations should be requested of Pennsylvania.	• Close oil/water interceptor: $5,100
Report Generation	Generate construction/closure/system upgrade reports (assumes no residual contamination)	• System closure reports: $5,500
Storm Water Permit	The primary problem with seeking a storm water permit exclusion is the condition of the vehicles parked on-site. Unless the above issue can be resolved, the following should be conducted: • Develop a Preparedness, Prevention, and Contingency plan. • File a Notice of Intent form or other storm water permit application as appropriate.	• Review site and prepare exclusion documentation: $2,750, or • Prepare NOI and PPC plan: $6,000.
Other Issues:		
Domestic Trash in Open Bin.	The open trash bin should be cleaned out and removed from site.	
Old POL Materials in Metal Bins	The excess and old materials should be removed and recycled/disposed of. The number of bins on-site should be reduced to only those that are necessary to support the facility's mission.	
Old Vehicles (Flaking Paint and Fluid Leaks)	Some of the vehicles being supplied to this unit are in a state of major disrepair. The fluid leaks (POL) and paint chips (lead and CARC) associated with these vehicles may eliminate the probability of a storm water permit exclusion. The overall condition of vehicles on-site, should be improved.	
Fill Pipe from Previous UST Closure	What appeared to be a fill pipe was noted against the building wall. This pipe may have been associated with a UST that was previously closed in the immediate area. The pipe should be removed and documentation developed and incorporated in the UST closure report, if applicable.	

Appendix E

Regulatory Database Search Reports

The EDR Radius Map
with GeoCheck®

Lycoming Memorial USARC
1605 FOUR MILE DRIVE
WILLIAMSPORT, PA 17701

Inquiry Number: 01718793.32r

July 19, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

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

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1605 FOUR MILE DRIVE
WILLIAMSPORT, PA 17701

COORDINATES

Latitude (North):	41.262200 - 41° 15' 43.9''
Longitude (West):	76.973000 - 76° 58' 22.8''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	334718.2
UTM Y (Meters):	4569529.5
Elevation:	562 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41076-C8 MONTOURSVILLE NORTH, PA
Most Recent Revision:	2001
South Map:	41076-B8 MONTOURSVILLE SOUTH, PA
Most Recent Revision:	2001

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LYCOMING MEM USARC 1605 FOUR MILE DR WILLIAMSPORT, PA 17701	RCRA-SQG FINDS	PA7210022276

DATABASES WITH NO MAPPED SITES

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

FEDERAL RECORDS

NPL ---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL Proposed National Priority List Sites
Delisted NPL National Priority List Deletions
NPL RECOVERY Federal Superfund Liens
CERCLIS Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP CERCLIS No Further Remedial Action Planned
CORRACTS Corrective Action Report
RCRA-TSDF Resource Conservation and Recovery Act Information
RCRA-LQG Resource Conservation and Recovery Act Information
ERNS Emergency Response Notification System
HMIRS Hazardous Materials Information Reporting System
US ENG CONTROLS Engineering Controls Sites List
US INST CONTROL Sites with Institutional Controls
DOD Department of Defense Sites
FUDS Formerly Used Defense Sites
US BROWNFIELDS A Listing of Brownfields Sites
CONSENT Superfund (CERCLA) Consent Decrees
ROD Records Of Decision
UMTRA Uranium Mill Tailings Sites
ODI Open Dump Inventory
TRIS Toxic Chemical Release Inventory System
TSCA Toxic Substances Control Act
FTTS FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS Section 7 Tracking Systems
ICIS Integrated Compliance Information System
PADS PCB Activity Database System
MLTS Material Licensing Tracking System
MINES Mines Master Index File
RAATS RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SHWS Hazardous Sites Cleanup Act Site List
HSCA HSCA Remedial Sites Listing
SWF/LF Operating Facilities
HIST LF Abandoned Landfill Inventory
UNREG LTANKS Unregulated Tank Cases
UST Listing of Pennsylvania Regulated Underground Storage Tanks
ARCHIVE UST Archived Underground Storage Tank Sites
LAST Storage Tank Release Sites
AST Listing of Pennsylvania Regulated Aboveground Storage Tanks
ARCHIVE AST Archived Aboveground Storage Tank Sites
MANIFEST Manifest Information
ACT 2-DEED Act 2-Deed Acknowledgment Sites
ENG CONTROLS Engineering Controls Site Listing
INST CONTROL Institutional Controls Site Listing
VCP Voluntary Cleanup Program Sites
DRYCLEANERS Drycleaner Facility Locations
BROWNFIELDS Brownfields Sites
AIRS Permit and Emissions Inventory Data

TRIBAL RECORDS

INDIAN RESERV Indian Reservations

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

Manufactured Gas Plants EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations EDR Proprietary Historic Gas Stations
EDR Historical Cleaners EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STATE AND LOCAL RECORDS

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Resources' List of Confirmed Releases.

A review of the LUST list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

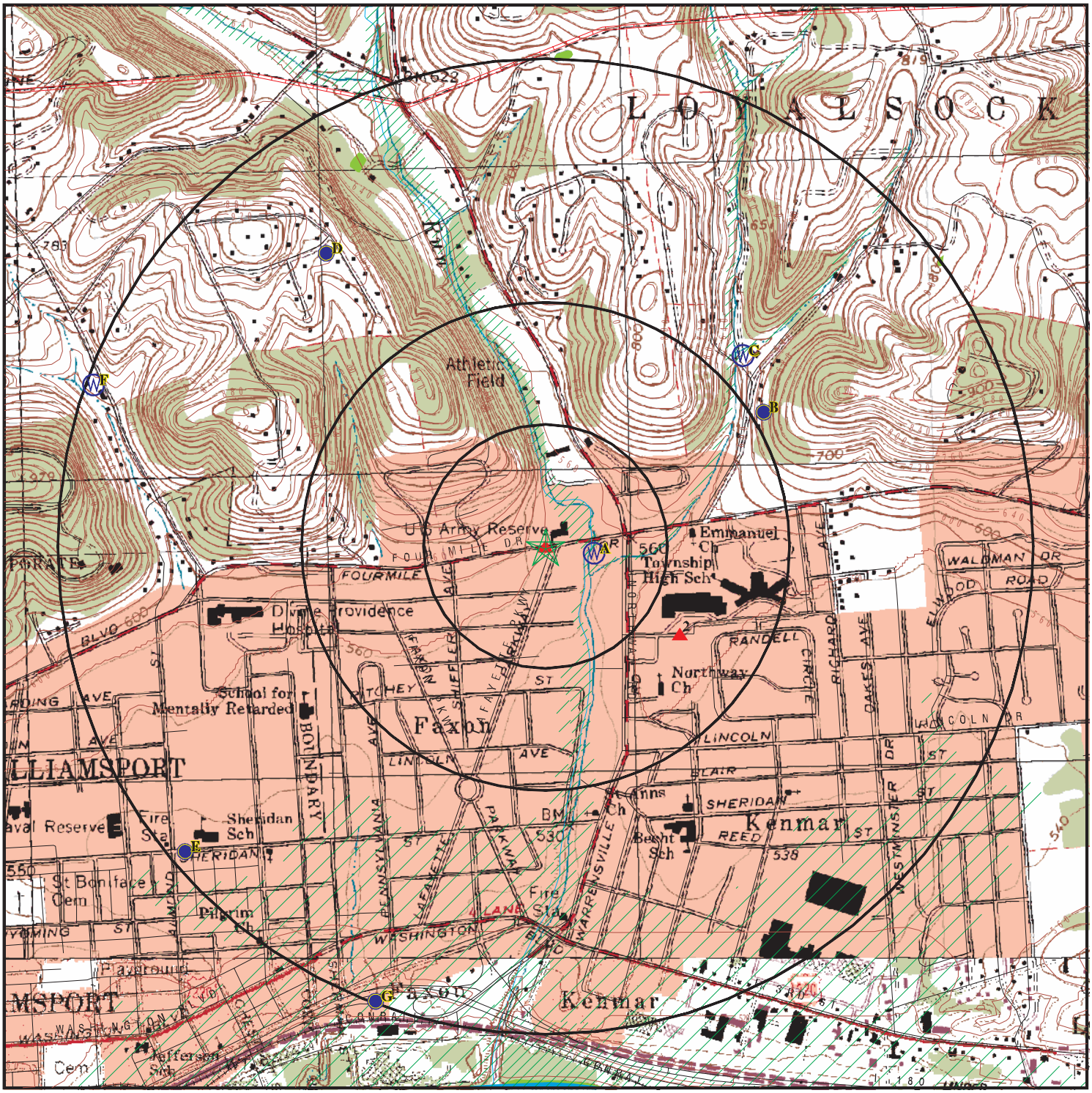
Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BUS GARAGE	1801 LOYALSOCK DR	1/4 - 1/2 ESE	2	6
Facility Status: Interim Remedial Actions Initiated or Completed				
Facility Status: Cleanup Completed				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
LYCOMING COLLEGE	FINDS, FTTS
RAY-O-VAC (II) SITE	CERC-NFRAP
BELTWAY DISPOSAL SITE	CERC-NFRAP
LYCOMING SUPPLY, INC	CERC-NFRAP
FRIES RESIDENCE	VCP
STEINBACHER ENTERPRISE INC	AST, ARCHIVE AST
S.E. NICHOLS WMSPT STORE INCINERATO	HIST LF
ZIPPY MART	LUST
KWIK FILL M 159	LUST, UST
TURKEY HILL STORE	LUST
DIXON AC & R	UST
JERSEY SHORE STEEL CO MET FAB DIV	RCRA-SQG, FINDS
COASTAL	RCRA-SQG, FINDS
WEST BRANCH OF SUSQUEHENA RIVER/AT THE LYCOMING AND CUMBERLA	ERNS
WEST BRANCH OF SUSQUEHENA RIVER/AT THE LYCOMING AND CUMBERLA	ERNS
LYCOMING CREEK WELLFIELD	FINDS
LYCOMING COUNTY COMMISSIONERS	FINDS
LYCOMING VALLEY MS	FINDS
LYCOMING GAS AND OIL CO	FINDS
LYCOMING SUPPLY, INC	ICIS
TEXTRON LYCOMING	ICIS
MEMORIAL BAPTIST CHRISTIAN SCH	ICIS
STROEHMANN BAKERIES/LYCOMING CREEK	AIRS
LYCOMING ENGINES/OLIVER ST PLT	AIRS
DANGLES GARAGE	NY MANIFEST
LOYALSOCK SCHOOL DIST	NY MANIFEST
LYCOMING COLLEGE	NY MANIFEST

OVERVIEW MAP - 01718793.32r



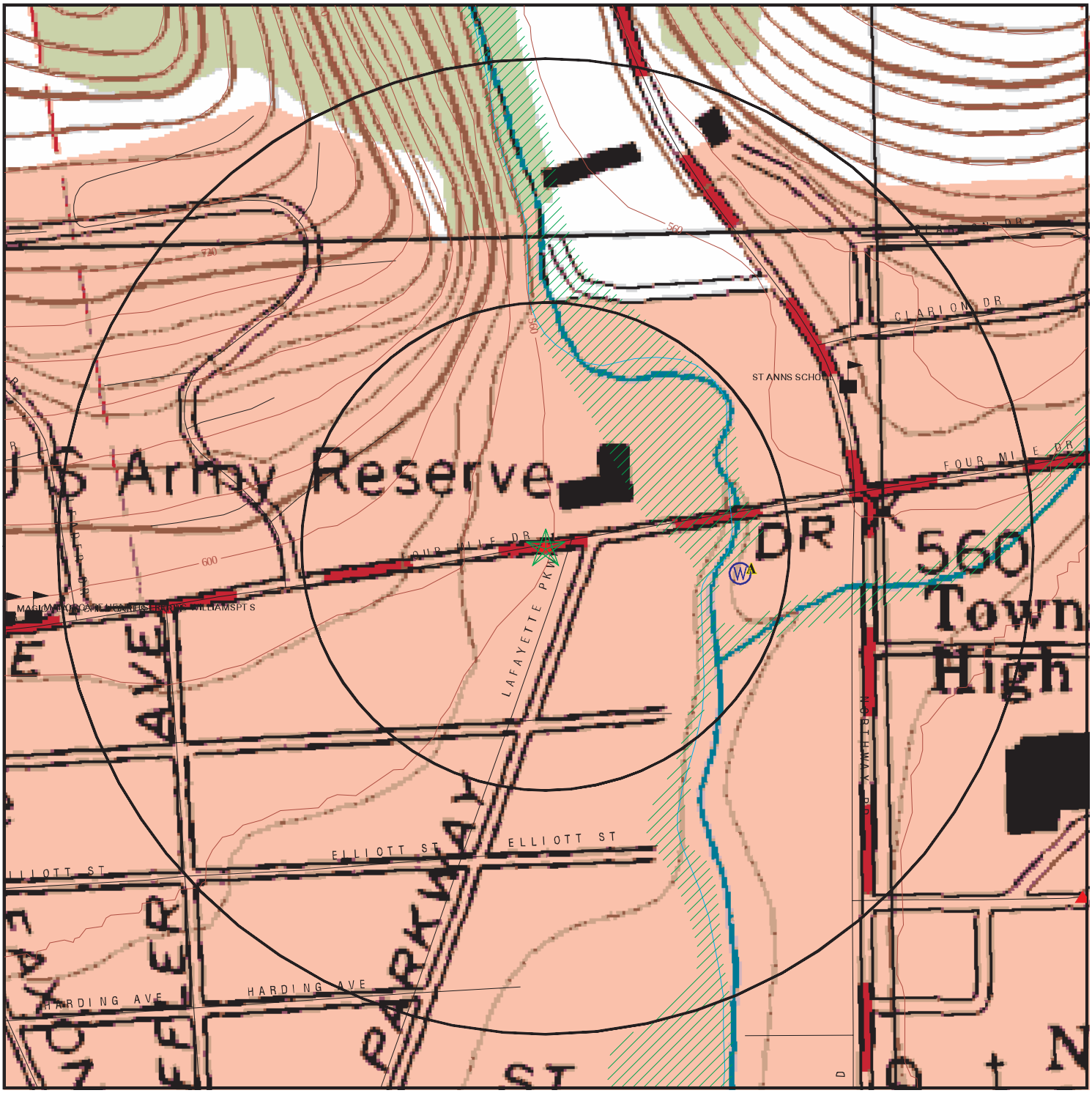
0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

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

SITE NAME: Lycoming Memorial USARC	CLIENT: CH2M Hill
ADDRESS: 1605 FOUR MILE DRIVE WILLIAMSPORT PA 17701	CONTACT: Mary Beth Jacques
LAT/LONG: 41.2622 / 76.9730	INQUIRY #: 01718793.32r DATE: July 19, 2006

DETAIL MAP - 01718793.32r



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

0 1/16 1/8 1/4 Miles

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

SITE NAME: Lycoming Memorial USARC	CLIENT: CH2M Hill
ADDRESS: 1605 FOUR MILE DRIVE WILLIAMSPORT PA 17701	CONTACT: Mary Beth Jacques INQUIRY #: 01718793.32r
LAT/LONG: 41.2622 / 76.9730	DATE: July 19, 2006

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.	X	0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
State Haz. Waste		1.000	0	0	0	0	NR	0
HSCA		1.000	0	0	0	0	NR	0
SWF/LF		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	1	NR	NR	1
UNREG LTANKS		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
ARCHIVE UST		0.250	0	0	NR	NR	NR	0
LAST		0.500	0	0	0	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
ARCHIVE AST		TP	NR	NR	NR	NR	NR	0
MANIFEST		0.250	0	0	NR	NR	NR	0
ACT 2-DEED		0.500	0	0	0	NR	NR	0
ENG CONTROLS		0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INST CONTROL		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	0	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		TP	NR	NR	NR	NR	NR	0
EDR Historical Cleaners		TP	NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
Target
Property
Actual:
562 ft.

LYCOMING MEM USARC
1605 FOUR MILE DR
WILLIAMSPORT, PA 17701

RCRA-SQG
FINDS

1004773236
PA7210022276

RCRAInfo:
Owner: 99TH REGIONAL SUPPORT COMMAND
(724) 693-2332
EPA ID: PA7210022276
Contact: KENDRA BORKA
(215) 443-1643
Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

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

2
ESE
1/4-1/2
1735 ft.

Relative:
Higher

Actual:
563 ft.

BUS GARAGE
1801 LOYALSOCK DR
WILLIAMSPORT, PA

LUST

S105802218
N/A

LUST:
Facility Id: 41-70570
Facility Type: Undergroung Storage Tank Containing Petroleum
Facility Status: Interim Remedial Actions Initiated or Completed
Status Date: 2004-11-17 00:00:00
Release Date: 2004-10-27 00:00:00
Region: North Central
Description: LTSD BUS GARAGE

Facility Id: 41-70570
Facility Type: Undergroung Storage Tank Containing Petroleum
Facility Status: Cleanup Completed
Status Date: 1995-05-22 00:00:00
Release Date: 1995-01-03 00:00:00
Region: North Central
Description: LOYALSOCK TWP AREA SCH DIST GARAGE

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LOYALSOCK	1004773804	JERSEY SHORE STEEL CO MET FAB DIV	CANFIELD LN 200 YD S OF RT 220	17701	RCRA-SQG, FINDS
SOUTH WILLIAMSPORT	1003864602	RAY-O-VAC (II) SITE	RTE 15	17701	CERC-NFRAP
WILLIAMSPORT	1000153751	COASTAL	ROUTE 1 SYLVANDEL RD	17701	RCRA-SQG, FINDS
WILLIAMSPORT	1003865865	BELTWAY DISPOSAL SITE	RTE 15 & I-180	17701	CERC-NFRAP
WILLIAMSPORT	S105802249	ZIPPY MART	RT 15		LUST
WILLIAMSPORT	S103821820	S.E. NICHOLS WMSPT STORE INCINERATO	RT 220 ACROSS FROM TOWN / COUNTR	17701	HIST LF
WILLIAMSPORT	1006240087	LYCOMING CREEK WELLFIELD	W 3RD ST		FINDS
WILLIAMSPORT	U001093193	KWIK FILL M 159	ROUTE 4 S BOX 512	17701	LUST, UST
WILLIAMSPORT	S106983412	FRIES RESIDENCE	7172 ROUTE 654 HIGHWAY		VCP
WILLIAMSPORT	1009245898	DANGLES GARAGE	ROUTE 87 BOX 141	17701	NY MANIFEST
WILLIAMSPORT	1009276262	LYCOMING SUPPLY, INC	801 BEEBER ST	17701	ICIS
WILLIAMSPORT	96495139	WEST BRANCH OF SUSQUEHENA RIVER/AT THE LYCOMING AND CUMBERLA	WEST BRANCH OF SUSQUEHENA RIVER/AT THE LYCOMING AND CUMBERLA		ERNS
WILLIAMSPORT	96492407	WEST BRANCH OF SUSQUEHENA RIVER/AT THE LYCOMING AND CUMBERLA	WEST BRANCH OF SUSQUEHENA RIVER/AT THE LYCOMING AND CUMBERLA		ERNS
WILLIAMSPORT	1004584916	LYCOMING COLLEGE	COLLEGE PLACE	17701	FINDS, FTTS
WILLIAMSPORT	1009246180	LOYALSOCK SCHOOL DIST	2101 LOYALSOCK DR	17701	NY MANIFEST
WILLIAMSPORT	S107692538	STROEHMANN BAKERIES/LYCOMING CREEK	3375 LYCOMING CREEK RD	17701	AIRS
WILLIAMSPORT	1006797465	LYCOMING COUNTY COMMISSIONERS	LYCOMING CO TRANSFER STATION	17701	FINDS
WILLIAMSPORT	1008272512	LYCOMING VALLEY MS	M	17701	FINDS
WILLIAMSPORT	1009246667	LYCOMING COLLEGE	MULBERRY STREET	17701	NY MANIFEST
WILLIAMSPORT	S105802244	TURKEY HILL STORE	NORTHWAY RD / THIRD ST		LUST
WILLIAMSPORT	U003918960	DIXON AC & R	OLD ROUTE 220	17701	UST
WILLIAMSPORT	S107692521	LYCOMING ENGINES/OLIVER ST PLT	652 OLIVER ST	17701	AIRS
WILLIAMSPORT	1009296541	TEXTRON LYCOMING	652 OLIVER ST.	17701	ICIS
WILLIAMSPORT	1003864841	LYCOMING SUPPLY, INC	REACH RD	17701	CERC-NFRAP
WILLIAMSPORT	S106020665	STEINBACHER ENTERPRISE INC	8130 S ROUTE 44 HWY	17701	AST, ARCHIVE AST
WILLIAMSPORT	1009277854	MEMORIAL BAPTIST CHRISTIAN SCH	2100 WEST THIRD ST	17701	ICIS
WILLIAMSPORT	1007690674	LYCOMING GAS AND OIL CO	THIRD STREET OFFICE	17701	FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

FEDERAL RECORDS

NPL: National Priority List

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

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

NPL RECOVERY: Federal Superfund Liens

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

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 06/23/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/21/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 01/12/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 40

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/19/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Annually

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

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

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

Date of Government Version: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

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

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

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

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 01/19/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 33

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/26/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 12/14/2004
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 04/25/2005
Number of Days to Update: 69

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

ROD: Records Of Decision

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

Date of Government Version: 04/13/2006
Date Data Arrived at EDR: 04/28/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 32

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/06/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 11/04/2005
Date Data Arrived at EDR: 11/28/2005
Date Made Active in Reports: 01/30/2006
Number of Days to Update: 63

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/21/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Varies

ODI: Open Dump Inventory

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

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 07/13/2005
Date Made Active in Reports: 08/17/2005
Number of Days to Update: 35

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Every 4 Years

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

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

Date of Government Version: 03/29/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

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

Date of Government Version: 03/31/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 02/13/2006
Date Data Arrived at EDR: 04/21/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 12/27/2005
Date Data Arrived at EDR: 02/08/2006
Date Made Active in Reports: 02/27/2006
Number of Days to Update: 19

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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

Date of Government Version: 04/12/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/03/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Quarterly

MINES: Mines Master Index File

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

Date of Government Version: 02/09/2006
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 62

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/28/2006
Next Scheduled EDR Contact: 09/25/2006
Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 04/27/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 28

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/05/2006
Next Scheduled EDR Contact: 09/04/2006
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/30/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

SHWS: Hazardous Sites Cleanup Act Site List

The Hazardous Sites Cleanup Act Site List includes sites listed on PA Priority List, sites delisted from PA Priority List, Interim Response Completed sites, and Sites Being Studied or Response Being Planned.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 03/15/2006
Number of Days to Update: 26

Source: Department Environmental Protection
Telephone: 717-783-7816
Last EDR Contact: 06/16/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

HSCA: HSCA Remedial Sites Listing

A list of remedial sites on the PA Priority List. This is the PA state equivalent of the federal NPL superfund list.

Date of Government Version: 05/05/2004
Date Data Arrived at EDR: 05/26/2004
Date Made Active in Reports: 06/24/2004
Number of Days to Update: 29

Source: Department of Environmental Protection
Telephone: 717-783-7816
Last EDR Contact: 02/17/2006
Next Scheduled EDR Contact: 05/15/2006
Data Release Frequency: Varies

SWF/LF: Operating Facilities

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/31/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 717-787-7564
Last EDR Contact: 06/22/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Semi-Annually

HIST LF: Abandoned Landfill Inventory

The report provides facility information recorded in the Pennsylvania Department of Environmental Protection ALI database. Some of this information has been abstracted from old records and may not accurately reflect the current conditions and status at these facilities

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/04/2005
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 31

Source: Department of Environmental Protection
Telephone: 717-787-7564
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Varies

HIST LF INACTIVE: Inactive Facilities List

A listing of inactive non-hazardous facilities (10000 & 300000 series). This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP?s name was the Department of Environmental Resources.

Date of Government Version: 12/20/1994
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 717-787-7381
Last EDR Contact: 06/21/2005
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

HIST LF INVENTORY: Facility Inventory

A listing of solid waste facilities. This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP?s name was the Department of Environmental Resources.

Date of Government Version: 06/02/1999
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 717-787-7381
Last EDR Contact: 09/19/2005
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

LUST: Storage Tank Release Sites

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

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Semi-Annually

UNREG LTANKS: Unregulated Tank Cases

Leaking storage tank cases from unregulated storage tanks.

Date of Government Version: 04/12/2002
Date Data Arrived at EDR: 08/14/2003
Date Made Active in Reports: 08/29/2003
Number of Days to Update: 15

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 08/14/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST: Listing of Pennsylvania Regulated Underground Storage Tanks

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

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

ARCHIVE UST: Archived Underground Storage Tank Sites

The list includes tanks storing highly hazardous substances that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 07/12/2006
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

LAST: Storage Tank Release Sites

Leaking Aboveground Storage Tank Incident Reports.

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 07/12/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Semi-Annually

AST: Listing of Pennsylvania Regulated Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

ARCHIVE AST: Archived Aboveground Storage Tank Sites

The list includes aboveground tanks with a capacity greater than 21,000 gallons that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/07/2006
Date Made Active in Reports: 07/12/2006
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Varies

MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 33

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/12/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

ACT 2-DEED: Act 2-Deed Acknowledgment Sites

This listing pertains to sites where the Department has approved a cleanup requiring a deed acknowledgment under Act 2. This list includes sites remediated to a non-residential Statewide health standard (Section 303(g)); all sites demonstrating attainment of a Site-specific standard (Section 304(m)); and sites being remediated as a special industrial area (Section 305(g)). Persons who remediated a site to a standard that requires a deed acknowledgment shall comply with the requirements of the Solid Waste Management Act or the Hazardous Sites Cleanup Act, as referenced in Act 2. These statutes require a property description section in the deed concerning the hazardous substance disposal on the site. The location of disposed hazardous substances and a description of the type of hazardous substances disposed on the site shall be included in the deed acknowledgment. A deed acknowledgment is required at the time of conveyance of the property.

Date of Government Version: 06/20/2006
Date Data Arrived at EDR: 06/21/2006
Date Made Active in Reports: 07/12/2006
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

ENG CONTROLS: Engineering Controls Site Listing

Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/08/2006
Date Data Arrived at EDR: 05/16/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

INST CONTROL: Institutional Controls Site Listing

Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/08/2006
Date Data Arrived at EDR: 05/16/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites
Sites involved in the Voluntary Cleanup Program

Date of Government Version: 06/20/2006
Date Data Arrived at EDR: 06/21/2006
Date Made Active in Reports: 07/12/2006
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 717-783-2388
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

DRYCLEANERS: Drycleaner Facility Locations
A listing of drycleaner facility locations.

Date of Government Version: 05/01/2006
Date Data Arrived at EDR: 05/01/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: 717-787-9702
Last EDR Contact: 07/17/2006
Next Scheduled EDR Contact: 10/16/2006
Data Release Frequency: Varies

BROWNFIELDS: Brownfields Sites

Date of Government Version: 06/20/2006
Date Data Arrived at EDR: 06/21/2006
Date Made Active in Reports: 07/12/2006
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data
Permit and emissions inventory data.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 05/03/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 717-787-9702
Last EDR Contact: 04/07/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Annually

TRIBAL RECORDS

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

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

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

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 06/14/2006
Next Scheduled EDR Contact: 09/11/2006
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/05/2006
Next Scheduled EDR Contact: 10/02/2006
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

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

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 05/31/2006
Date Made Active in Reports: 06/27/2006
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/31/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 06/19/2006
Next Scheduled EDR Contact: 09/18/2006
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/17/2006
Number of Days to Update: 61

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 07/11/2006
Next Scheduled EDR Contact: 10/09/2006
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

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

AHA Hospitals:

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

Medical Centers: Provider of Services Listing

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

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

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List
Source: Department of Public Welfare
Telephone: 717-783-3856

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LYCOMING MEMORIAL USARC
1605 FOUR MILE DRIVE
WILLIAMSPORT, PA 17701

TARGET PROPERTY COORDINATES

Latitude (North):	41.26220 - 41° 15' 43.9''
Longitude (West):	76.973 - 76° 58' 22.8''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	334718.2
UTM Y (Meters):	4569529.5
Elevation:	562 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41076-C8 MONTOURSVILLE NORTH, PA
Most Recent Revision:	2001
South Map:	41076-B8 MONTOURSVILLE SOUTH, PA
Most Recent Revision:	2001

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

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

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

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

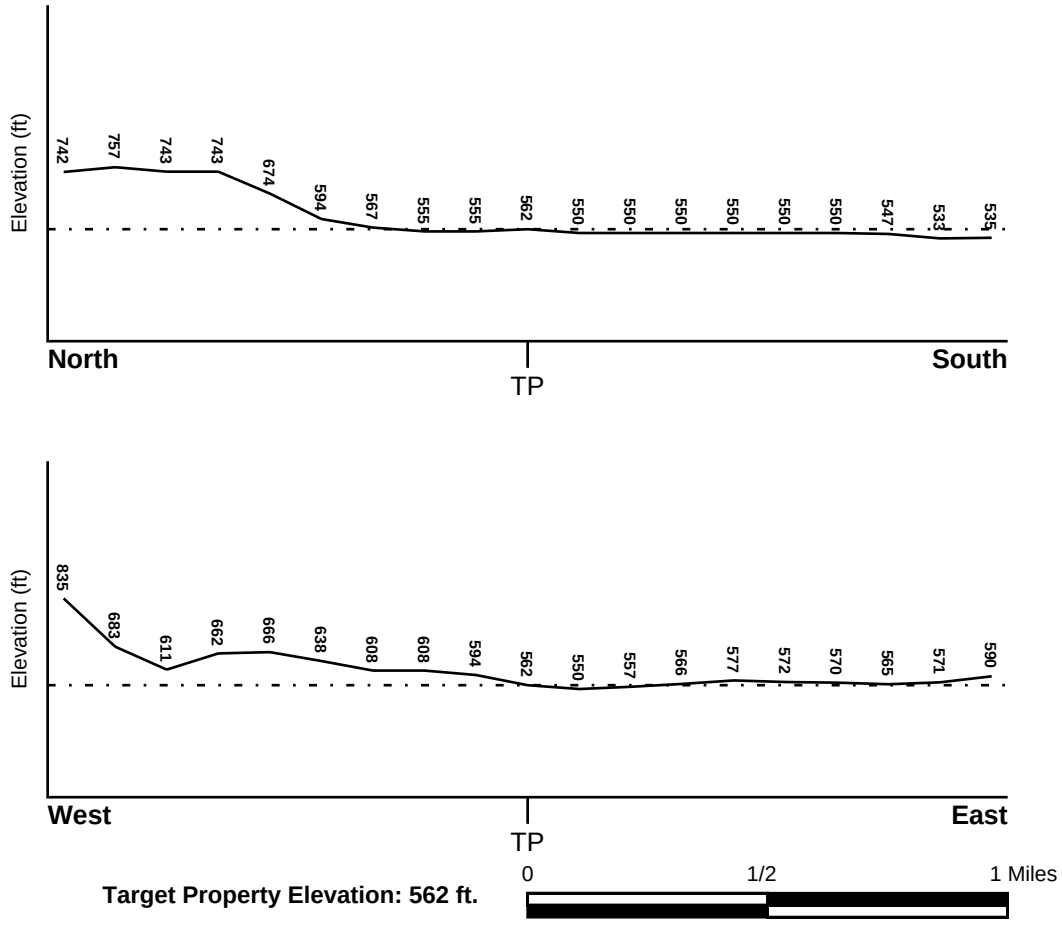
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LYCOMING, PA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 4210400010D

Additional Panels in search area: 4206620001B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
MONTOURSVILLE NORTH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

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

AQUIFLOW®

Search Radius: 1.000 Mile.

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

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Devonian
Series:	Upper Devonian
Code:	D3 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Component Name:	BERKS
Soil Surface Texture:	channery - loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

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

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 20 inches

Depth to Bedrock Max: > 40 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	10 inches	channery - loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 6.00 Min: 0.60	Max: 6.50 Min: 3.60
2	10 inches	26 inches	channery - loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 6.00 Min: 0.60	Max: 6.50 Min: 3.60
3	26 inches	33 inches	channery - loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 6.00 Min: 2.00	Max: 6.50 Min: 3.60
4	33 inches	37 inches	weathered bedrock	Not reported	Not reported	Max: 2.00 Min: 0.20	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

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

Soil Surface Textures: channery - silt loam
silt loam

Surficial Soil Types: channery - silt loam
silt loam

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

Deeper Soil Types: stratified
channery - silt loam
silt loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B3	USGS2201394	1/2 - 1 Mile ENE
D8	USGS2201406	1/2 - 1 Mile NW
E10	USGS2201372	1/2 - 1 Mile SW
G13	USGS2201364	1/2 - 1 Mile SSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

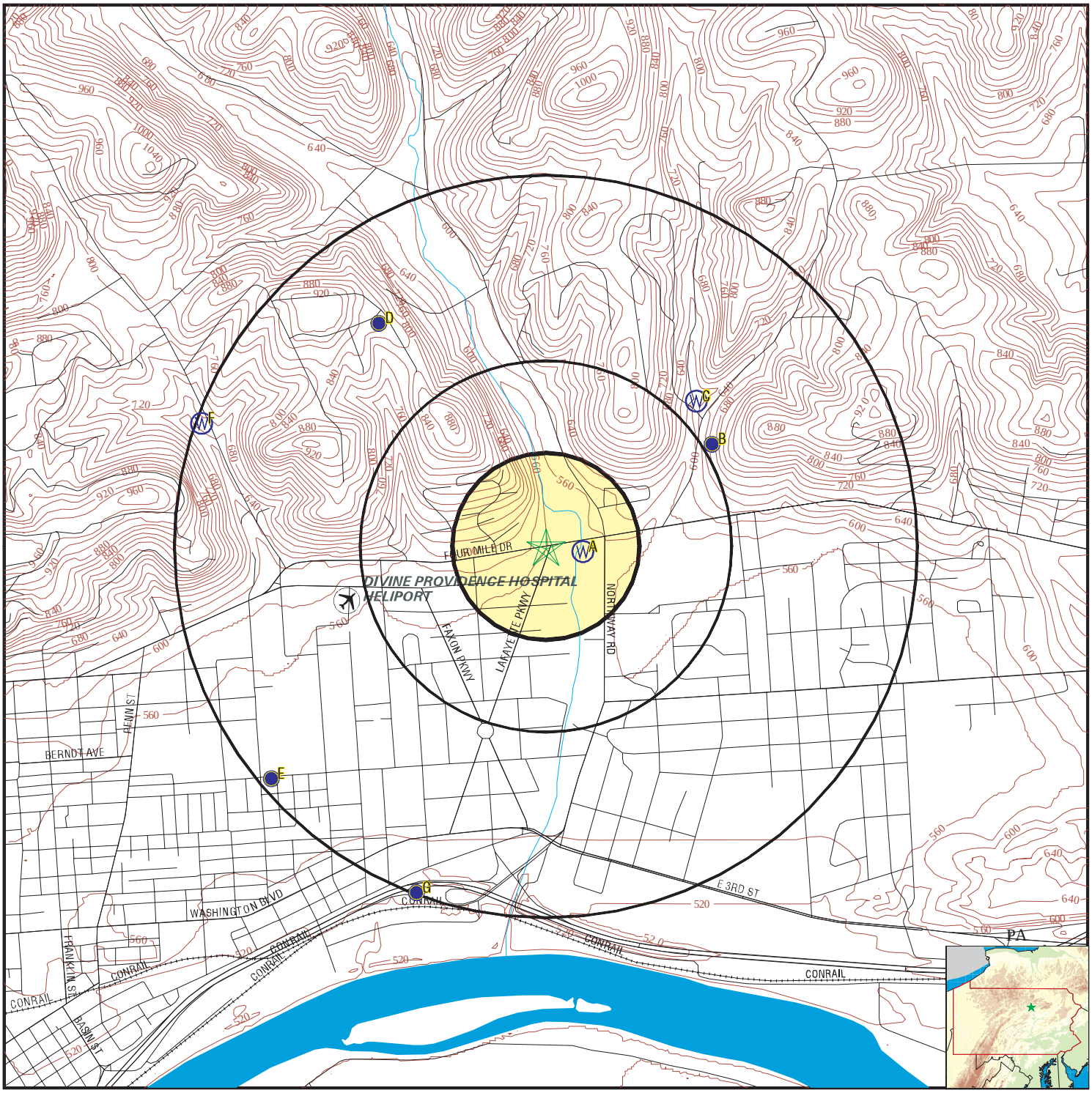
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	SPAW0081717	0 - 1/8 Mile East
A2	PA1000000151806	0 - 1/8 Mile East
B4	PA1000000151967	1/2 - 1 Mile ENE
C5	PA1000000152050	1/2 - 1 Mile NE
C6	SPAW0080257	1/2 - 1 Mile NE
D7	PA1000000152182	1/2 - 1 Mile NW
E9	PA1000000151252	1/2 - 1 Mile SW
F11	SPAW0081690	1/2 - 1 Mile WNW
F12	PA1000000152020	1/2 - 1 Mile WNW
G14	PA1000000150846	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 01718793.32r



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

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location

N

SITE NAME:	Lycoming Memorial USARC	CLIENT:	CH2M Hill
ADDRESS:	1605 FOUR MILE DRIVE WILLIAMSPORT PA 17701	CONTACT:	Mary Beth Jacques
LAT/LONG:	41.2622 / 76.9730	INQUIRY #:	01718793.32r
		DATE:	July 19, 2006

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
East
0 - 1/8 Mile
Lower

PA WELLS **SPAW0081717**

Well ID:	0806N		
Owner's Name:	TEBBS D	County	LYCOMING
Latitude:	411543	Longitude:	765817
Quadrangle:	MONTOURSVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	02050206	Topographic Setting:	VALLEY FLAT
Water Usage:	IRRIGATION	Site Usage:	WITHDRAWAL
Well Depth:	63	Finish:	OPEN HOLE
Casing 1:	54	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	6-85
Static Water Level:	45	Production WL:	15
Yield (gpm):	16	Yield Measurement Method:	B
Drawdown:	30	Test Time:	0.5
Bedrock:	54	Driller:	1592
Water Bearing Zone 1:	58	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 3:	Not Reported	Lithology:	SLATE
Municipality:	UPPER FAIRFIELD	Remark:	Not Reported
Aquifer:	HAMILTON GROUP		

A2
East
0 - 1/8 Mile
Lower

PA WELLS **PA1000000151806**

WELLID:	Not Reported	LOCALWELLN:	0806N
COUNTY:	LYCOMING		
AAPG:	344HMLN		
TOPOGRAPHY:	VALLEY FLAT		
WELLDEPTH:	63		
ELEVATION:	0		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	02050206		
LATLONGACCURACY:	ACCURATE TO +1 MINUTE		
QUAD:	MONTOURSVILLE NORTH		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
SOURCE DEPTH DATA:	DRILLER'S RECORD		
MUNICIPALITY:	UPPER FAIRFIELD TWP.		
LATITUDEDD:	41.26194		
LONGITUDED:	-76.97139		
DEPTHTOBED:	54		
DATEDRILLE:	Not Reported		
PAGWIS ID:	126270		

Construction Information:

Construction Date:	06/01/1985 00:00:00
Driller:	1592
Source Cons Data:	DRILLER'S RECORD
Method Cons:	Not Reported
Finish:	OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	54	Casing Diameter:	6
Casing:	Not Reported		

Geohydrologic Information:

A A P G:	344HMLN		
Lithology:	SL		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	IRRIGATION

Owner Information:

Owner:	TEBBS D
Date Ownership:	Not Reported

B3
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS2201394**

Agency cd:	USGS	Site no:	411558076575301
Site name:	LY 150		
Latitude:	411558		
Longitude:	0765753	Dec lat:	41.26618973
Dec lon:	-76.96441056	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	42
State:	42	County:	081
Country:	US	Land net:	Not Reported
Location map:	MONTOURSVILLE NORTH	Map scale:	24000
Altitude:	670.00	Altitude method:	M
Altitude accuracy:	10	Altitude datum:	NGVD29
Hydrologic:	Lower West Branch Susquehanna. Pennsylvania. Area = 1810 sq.mi.		
Topographic:	Hillside (slope)		
Site type:	Ground-water other than Spring	Date construction:	19680101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BRAILLER FORMATION		
Well depth:	335	Hole depth:	335
Source of depth data:	driller	Project number:	Not Reported
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

B4
ENE **PA WELLS** **PA1000000151967**
1/2 - 1 Mile
Higher

WELLID:	411558076575301	LOCALWELLN:	LY 150
COUNTY:	LYCOMING		
AAPG:	341BRLR		
TOPOGRAPHY:	HILLSIDE		
WELLDEPTH:	335		
ELEVATION:	670		
ELEVMETHOD:	INTERPOLATED FROM TOPOGRAPHIC MAP		
ACCURACYOF:	10		
HYDROLOGIC:	02050206		
LATLONGACCURACY:	ACCURATE TO +5 SECONDS		
QUAD:	MONTOURSVILLE NORTH		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
SOURCE DEPTH DATA:	DRILLER'S RECORD		
MUNICIPALITY:	LOYALSOCK TWP.		
LATITUDEDD:	41.26611		
LONGITUDED:	-76.96472		
DEPTHTOBED:	0		
DATEDRILLE:	Not Reported		
PAGWIS ID:	26217		

Agency Use Section:

Agency Use of Site:	OBSERVATION
Agency Use Date:	Not Reported

Construction Information:

Construction Date:	01/01/1968 00:00:00
Driller:	0600
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED
Method Cons:	AIR ROTARY
Finish:	OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	21	Casing Diameter:	6
Casing:	UNKNOWN		

Hole Information:

Top Of Hole:	0		
Bottom Of Hole:	335	Hole Diameter:	0

Geohydrologic Information:

A A P G:	341BRLR		
Lithology:	SHALE		
Contributing Unit:	PRIMARY		
Top Of Interval:	18	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	DOMESTIC

Owner Information:

Owner:	KELCHNER, RICHARD
Date Ownership:	01/01/1968 00:00:00

C5
NE **PA WELLS** **PA1000000152050**
1/2 - 1 Mile
Higher

WELLID:	Not Reported	LOCALWELLN:	X 0666
COUNTY:	LUZERNE		
AAPG:	337POCN		
TOPOGRAPHY:	Not Reported		
WELLDEPTH:	125		
ELEVATION:	0		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	Not Reported		
LATLONGACCURACY:	ACCURATE TO +1 MINUTE		
QUAD:	KINGSTON		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
SOURCE DEPTH DATA:	DRILLER'S RECORD		
MUNICIPALITY:	JACKSON TWP.		
LATITUDEDD:	41.26778		
LONGITUDED:	-76.96556		
DEPTHTOBED:	48		
DATEDRILLE:	Not Reported		
PAGWIS ID:	124812		

Construction Information:

Construction Date:	01/01/1967 00:00:00
Driller:	0096
Source Cons Data:	DRILLER'S RECORD
Method Cons:	Not Reported
Finish:	OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	72	Casing Diameter:	6
Casing:	Not Reported		

Geohydrologic Information:

A A P G:	337POCN		
Lithology:	O		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	DOMESTIC

Owner Information:

Owner:	WOSS MIKE
Date Ownership:	Not Reported

C6
NE
1/2 - 1 Mile
Higher

PA WELLS **SPAW0080257**

Well ID:	X 0666		
Owner's Name:	WOSS MIKE	County	LUZERNE
Latitude:	411604	Longitude:	765756
Quadrangle:	KINGSTON	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	Not Reported	Topographic Setting:	Not Reported
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	125	Finish:	OPEN HOLE
Casing 1:	72	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	00-00-67
Static Water Level:	57	Production WL:	Not Reported
Yield (gpm):	20	Yield Measurement Method:	3
Drawdown:	34	Test Time:	Not Reported
Bedrock:	48	Driller:	0096
Water Bearing Zone 1:	78	Water Bearing Zone 2:	93
Water Bearing Zone 3:	118	Lithology:	OTHER
Municipality:	JACKSON	Remark:	0838
Aquifer:	POCONO FORMATION		

D7
NW
1/2 - 1 Mile
Higher

PA WELLS **PA1000000152182**

WELLID:	411615076585501	LOCALWELLN:	LY 67
COUNTY:	LYCOMING		
AAPG:	341BRLR		
TOPOGRAPHY:	HILLTOP		
WELLDEPTH:	212		
ELEVATION:	840		
ELEVMETHOD:	INTERPOLATED FROM TOPOGRAPHIC MAP		
ACCURACYOF:	10		
HYDROLOGIC:	02050206		

LATLONGACCURACY:	ACCURATE TO +5 SECONDS		
QUAD:	MONTOURSVILLE NORTH		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
SOURCE DEPTH DATA:	DRILLER'S RECORD		
MUNICIPALITY:	LOYALSOCK TWP.		
LATITUDEDD:	41.27083		
LONGITUDED:	-76.98194		
DEPTHTOBED:	0		
DATEDRILLE:	Not Reported		
PAGWIS ID:	26233		

Agency Use Section:

Agency Use of Site:	OBSERVATION
Agency Use Date:	Not Reported

Construction Information:

Construction Date:	Not Reported		
Driller:	0064		
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED		
Method Cons:	OTHER/UNKNOWN		
Finish:	UNKNOWN		

Hole Information:

Top Of Hole:	0		
Bottom Of Hole:	212	Hole Diameter:	0

Geohydrologic Information:

A A P G:	341BRLR		
Lithology:	SHALE		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	DOMESTIC

Owner Information:

Owner:	WHEELER, SILAS
Date Ownership:	01/01/1928 00:00:00

D8
NW
1/2 - 1 Mile
Higher

FED USGS **USGS2201406**

Agency cd:	USGS	Site no:	411615076585501
Site name:	LY 67		
Latitude:	411615		
Longitude:	0765855	Dec lat:	41.27091174
Dec lon:	-76.98163345	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	42
State:	42	County:	081
Country:	US	Land net:	Not Reported
Location map:	MONTOURSVILLE NORTH	Map scale:	24000

Altitude:	840.00	Altitude method:	M
Altitude accuracy:	10	Altitude datum:	NGVD29
Hydrologic:	Lower West Branch Susquehanna. Pennsylvania. Area = 1810 sq.mi.		
Topographic:	Hilltop		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BRAILLER FORMATION		
Well depth:	212	Hole depth:	212
Source of depth data:	driller	Project number:	Not Reported
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

E9
SW **PA WELLS** **PA1000000151252**
1/2 - 1 Mile
Lower

WELLID:	411511076591501	LOCALWELLN:	LY 54
COUNTY:	LYCOMING		
AAPG:	344MNNG		
TOPOGRAPHY:	VALLEY FLAT		
WELLDEPTH:	153		
ELEVATION:	540		
ELEVMETHOD:	INTERPOLATED FROM TOPOGRAPHIC MAP		
ACCURACYOF:	10		
HYDROLOGIC:	02050206		
LATLONGACCURACY:	ACCURATE TO +5 SECONDS		
QUAD:	MONTOURSVILLE NORTH		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)		
SOURCE DEPTH DATA:	WELL OWNER		
MUNICIPALITY:	WILLIAMSPORT		
LATITUDEDD:	41.25306		
LONGITUDED:	-76.9875		
DEPTHTOBED:	0		
DATEDRILLE:	Not Reported		
PAGWIS ID:	26175		

Agency Use Section:

Agency Use of Site:	OBSERVATION
Agency Use Date:	Not Reported

Construction Information:

Construction Date:	Not Reported
Driller:	1
Source Cons Data:	OTHER/UNKNOWN/UNSPECIFIED
Method Cons:	CABLE TOOL
Finish:	OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	34	Casing Diameter:	8
Casing:	UNKNOWN		

Hole Information:

Top Of Hole:	0		
Bottom Of Hole:	153	Hole Diameter:	0

Geohydrologic Information:

A A P G:	344MNNG		
Lithology:	SHALE		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	IRRIGATION

Owner Information:

Owner:	LEWIS, EDWARD W.
Date Ownership:	10/01/1930 00:00:00

E10
SW
1/2 - 1 Mile
Lower

FED USGS **USGS2201372**

Agency cd:	USGS	Site no:	411511076591501
Site name:	LY 54		
Latitude:	411511		
Longitude:	0765915	Dec lat:	41.25313408
Dec lon:	-76.98718928	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	42
State:	42	County:	081
Country:	US	Land net:	Not Reported
Location map:	MONTOURSVILLE NORTH	Map scale:	24000
Altitude:	535.00	Altitude method:	M
Altitude accuracy:	10	Altitude datum:	NGVD29
Hydrologic:	Lower West Branch Susquehanna. Pennsylvania. Area = 1810 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	MAHANTANGO FORMATION		
Well depth:	153	Hole depth:	153
Source of depth data:	owner	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1930-10-01	Ground water data end date:	1930-10-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1930-10-01	13.00	

F11
WNW
1/2 - 1 Mile
Higher

PA WELLS **SPAW0081690**

Well ID:	0774N		
Owner's Name:	HUYCK BROS	County	LYCOMING
Latitude:	411601	Longitude:	765928
Quadrangle:	MONTOURSVILLE	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Hydrologic Unit:	02050206	Topographic Setting:	HILLSIDE
Water Usage:	DOMESTIC	Site Usage:	WITHDRAWAL
Well Depth:	250	Finish:	OPEN HOLE
Casing 1:	40	Casing1 Diameter(inches):	6
Casing2:	Not Reported	Casing2 Diameter(inches):	Not Reported
Grouted:	Not Reported	Date Drilled:	1-86
Static Water Level:	125	Production WL:	250
Yield (gpm):	5	Yield Measurement Method:	V
Drawdown:	125	Test Time:	1
Bedrock:	30	Driller:	1417
Water Bearing Zone 1:	116	Water Bearing Zone 2:	219
Water Bearing Zone 3:	Not Reported	Lithology:	SHALE
Municipality:	UPPER FAIRFIELD	Remark:	Not Reported
Aquifer:	BRALLIER & HARRELL FMS		

F12
WNW
1/2 - 1 Mile
Higher

PA WELLS **PA1000000152020**

WELLID:	Not Reported	LOCALWELLN:	0774N
COUNTY:	LYCOMING		
AAPG:	341BLHL		
TOPOGRAPHY:	HILLSIDE		
WELLDEPTH:	250		
ELEVATION:	0		
ELEVMETHOD:	Not Reported		
ACCURACYOF:	Not Reported		
HYDROLOGIC:	02050206		
LATLONGACCURACY:	ACCURATE TO +1 MINUTE		
QUAD:	MONTOURSVILLE NORTH		
TYPEOFSITE:	WELL		
DATECREATE:	Not Reported	DATEUPDATE:	Not Reported
DATARELIABILITY:	LOCATION MAY NOT BE ACCURATE (WWI paper)		
SOURCE DEPTH DATA:	DRILLER'S RECORD		
MUNICIPALITY:	UPPER FAIRFIELD TWP.		
LATITUDEDD:	41.26694		
LONGITUDED:	-76.99111		

DEPTHTOBED: 30
DATEDRILLE: Not Reported
PAGWIS ID: 126243

Construction Information:
Construction Date: 01/01/1986 00:00:00
Driller: 1417
Source Cons Data: DRILLER'S RECORD
Method Cons: Not Reported
Finish: OPEN HOLE

Casing Information:

Top Of Casing:	0	Casing Wall Thickness:	Not Reported
Bottom Of Casing:	40	Casing Diameter:	6
Casing:	Not Reported		

Geohydrologic Information:

A A P G:	341BLHL		
Lithology:	SH		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:
Site Use: WITHDRAWAL
Water Use: DOMESTIC

Owner Information:
Owner: HUYCK BROS
Date Ownership: Not Reported

G13
SSW **FED USGS** **USGS2201364**
1/2 - 1 Mile
Lower

Agency cd:	USGS	Site no:	411455076584801
Site name:	LY 2		
Latitude:	411455		
Longitude:	0765848	Dec lat:	41.24868978
Dec lon:	-76.97968899	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	42
State:	42	County:	081
Country:	US	Land net:	Not Reported
Location map:	MONTOURSVILLE SOUTH	Map scale:	24000
Altitude:	520.00	Altitude method:	M
Altitude accuracy:	10	Altitude datum:	NGVD29
Hydrologic:	Lower West Branch Susquehanna. Pennsylvania. Area = 1810 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	ONONDAGA LIMESTONE		
Well depth:	46.0	Hole depth:	46.0
Source of depth data:	owner	Project number:	Not Reported
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count: 0
Water quality data begin date: 0000-00-00
Water quality data end date: 0000-00-00
Water quality data count: 0
Ground water data begin date: 1933-06-01
Ground water data end date: 1933-06-01
Ground water data count: 1

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1933-06-01	11.00	

G14
SSW **PA WELLS** **PA1000000150846**
1/2 - 1 Mile
Lower

WELLID: 411455076584801 LOCALWELLN: LY 2
COUNTY: LYCOMING
AAPG: 344ONDG
TOPOGRAPHY: VALLEY FLAT
WELLDEPTH: 46
ELEVATION: 520
ELEVMETHOD: INTERPOLATED FROM TOPOGRAPHIC MAP
ACCURACYOF: 10
HYDROLOGIC: 02050206
LATLONGACCURACY: ACCURATE TO +5 SECONDS
QUAD: MONTOURSVILLE SOUTH
TYPEOFSITE: WELL
DATECREATE: Not Reported DATEUPDATE: Not Reported
DATARELIABILITY: FIELD CHECKED BY REPORTING AGENCY (PaDAg pest. survey)
SOURCE DEPTH DATA: WELL OWNER
MUNICIPALITY: LOYALSOCK TWP.
LATITUDEDD: 41.24861
LONGITUDED: -76.98
DEPTHTOBED: 0
DATEDRILLE: Not Reported
PAGWIS ID: 26166

Agency Use Section:
Agency Use of Site: OBSERVATION
Agency Use Date: Not Reported

Construction Information:
Construction Date: Not Reported
Driller: 1
Source Cons Data: OTHER/UNKNOWN/UNSPECIFIED
Method Cons: CABLE TOOL
Finish: OPEN HOLE

Casing Information:
Top Of Casing: 0
Casing Wall Thickness: Not Reported
Bottom Of Casing: 42
Casing Diameter: 6
Casing: UNKNOWN

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Hole Information:

Top Of Hole:	0		
Bottom Of Hole:	46	Hole Diameter:	0

Geohydrologic Information:

A A P G:	344ONDG		
Lithology:	SHALE		
Contributing Unit:	PRIMARY		
Top Of Interval:	Not Reported	Bottom Of Interval:	Not Reported

Water Use Information:

Site Use:	WITHDRAWAL
Water Use:	INDUSTRIAL

Owner Information:

Owner:	MCDANIELS DAIRY
Date Ownership:	06/01/1933 00:00:00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: PA Radon

Test Result Statistics

Zip	Total Sites	Min pCi/L	Max pCi/L	Avg pCi/L
17701	934	0	228.9	11.8

EPA Region 3 Statistical Summary Readings for Zip Code: 17701

Number of sites tested: 1121.

Maximum Radon Level: 305.0 pCi/L.
Minimum Radon Level: 0.5 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
705 (62.89%)	189 (16.86%)	95 (8.47%)	56 (5.00%)	45 (4.01%)	31 (2.77%)

Federal EPA Radon Zone for LYCOMING County: 1

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

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

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

HYDROGEOLOGIC INFORMATION

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

GEOLOGIC INFORMATION

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

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

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Pennsylvania Public Water Supply Wells
Source: Pennsylvania Department of Environmental Resources Bureau of Water Supply
Telephone: 717-787-5017

Pennsylvania Groundwater Information System
Source: Department of Conservation and Natural Resources
Telephone: 717-783-7258

OTHER STATE DATABASE INFORMATION

RADON

State Database: PA Radon
Source: Department of Environmental Protection
Telephone: 717-783-3594
Radon Test Results Statistics by Zip Code

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

EPA Region 3 Statistical Summary Readings
Source: Region 3 EPA
Telephone: 215-814-2082
Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

The EDR-City Directory
Abstract

Lycoming Memorial USARC
1605 FOUR MILE DRIVE
WILLIAMSPORT, PA 17701

Inquiry Number: 1718793.36

Friday, July 21, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR City Directory Abstract

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

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

SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1970 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: July 21, 2006

Target Property:
1605 FOUR MILE DRIVE
WILLIAMSPORT, PA 17701

Year	***Uses***	***Source***
1970	US Army Reserve Center	Polk's City Directory
1975	US Army Reserve Center	Polk's City Directory
1980	US Army Reserve Center	Polk's City Directory
1985	US Army Reserve Center	Polk's City Directory
1990	US Army Reserve Center	Polk's City Directory
1995	US Army Reserve Center	Polk's City Directory
2000	US Army Reserve Center	Polk's City Directory
2005	US Army Reserve Center	Polk's City Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
WILLIAMSPORT, PA 17701

Year	***Uses***	***Source***
1970	****Four Mile Drive****	Polk's City Directory
	Residence (1610)	Polk's City Directory
	Tebbs Farm (1620)	Polk's City Directory
	Light & Life Chapel (1680)	Polk's City Directory
	No other addresses in 1560-1680 range	Polk's City Directory
1975	****Four Mile Drive****	Polk's City Directory
	Residence (1610)	Polk's City Directory
	Tebbs Farm (1620)	Polk's City Directory

Year	***Uses***	***Source***
1975	Light & Life Chapel (1680)	Polk's City Directory
	No other addresses in 1560-1680 range	Polk's City Directory
1980	****Four Mile Drive****	Polk's City Directory
	Residence (1610)	Polk's City Directory
	Tebbs Farm (1620)	Polk's City Directory
	Light & Life Chapel (1680)	Polk's City Directory
	No other addresses in 1560-1680 range	Polk's City Directory
1985	****Four Mile Drive****	Polk's City Directory
	Residence (1610)	Polk's City Directory
	Tebbs Farm (1620)	Polk's City Directory
	Light & Life Chapel (1680)	Polk's City Directory
	No other addresses in 1560-1680 range	Polk's City Directory
1990	****Four Mile Drive****	Polk's City Directory
	Residence (1610)	Polk's City Directory
	Tebbs Farm (1620)	Polk's City Directory
	Light & Life Chapel (1680)	Polk's City Directory
	No other addresses in 1560-1680 range	Polk's City Directory
1995	****Four Mile Drive****	Polk's City Directory
	Residence (1570)	Polk's City Directory
	Residence (1580)	Polk's City Directory
	Residence (1610)	Polk's City Directory
	Tebbs Farm (1620)	Polk's City Directory

Year	***Uses***	***Source***
1995	Light & Life Chapel (1680)	Polk's City Directory
	No other addresses in 1560-1680 range	Polk's City Directory
2000	****Four Mile Drive****	Polk's City Directory
	Residence (1570)	Polk's City Directory
	Residence (1580)	Polk's City Directory
	Residence (1610)	Polk's City Directory
	Tebbs Farm (1620)	Polk's City Directory
	Light & Life Chapel (1680)	Polk's City Directory
	No other addresses in 1560-1680 range	Polk's City Directory
2005	****Four Mile Drive****	Polk's City Directory
	Residence (1560)	Polk's City Directory
	Residence (1570)	Polk's City Directory
	Residence (1580)	Polk's City Directory
	Residence (1610)	Polk's City Directory
	Tebbs Farm (1620)	Polk's City Directory
	Light & Life Chapel (1680)	Polk's City Directory