THE FOLLOWING CLOSE-OUT ENVIRONMENTAL REPORT DOCUMENT WAS PREPARED BY DEPARTMENT OF MILITARY AND VETERANS AFFAIRS (DMVA) PERSONNEL TO DESCRIBE THE EXISTING ONSITE CONDITIONS AND REVIEW LIMITED INFORMATION ON THE HISTORIC USE OF THE REFERENCED FORMER PA NATIONAL GUARD FACILITY; INCLUDING RELEVANT ENVIRONMENTAL INFORMATION.

THIS DOCUMENT IS **NOT** INTENDED TO BE A SUBTITUTION FOR, NOR DOES IT MEET THE REQUIREMENTS OF A PHASE 1 ENVIRONMENTAL SITE ASSESSMENT COMPLETED UNDER ASTM E-1527-05 STANDARD PRACTICES OR SIMILAR GUIDENCE.

FINAL Environmental Close-Out Inspection Report

Conducted At:

Kane Readiness Center – Installation ID: 42C40
208 Chestnut Street
Kane, PA 16735-1603

And

Kane Weekend Training Site – Installation ID: 42C45
Ash Street
Kane, PA 16735-1603

Conducted By:

Bureau of Environmental Management
Building 0-11, Fort Indiantown Gap
Annville, PA17003

February 14, 2017

EXECUTIVE SUMMARY

Environmental Closeout Inspection for:

Kane Readiness Center and Kane Weekend Training Site – ISNOs: 42C40 and 42C45

Address:	RC: 208 Chestnut Street WETS: Ash Street Kane, PA 16735-1603		
Unit(s):	**N/A**		
County:	**McKean**	**Municipality:**	**Borough of Kane**
Region:	**Central**	**FCMM:**	**Larry Campbell**
Constructed:	**RC: 1922 & 1929** **WETS: Late 1960s**	**Cultural Status:**	**RC: Listed on NRHP**

Summary of Environmental Conditions of Potential Concern:

1. Based on the age of the first constructed onsite buildings (circa the 1920s for the Readiness Center (RC) parcel and circa the late 1960s for the Weekend Training Site (WETS) parcel), lead-based paint (LBP) and poly-chlorinated biphenyl (PCB)-containing light fixture ballasts may be present. To date, lead-based paint and PCB surveys have not been conducted for these facilities. Based on an asbestos building inspection completed in March 1997 for the Kane RC building, some asbestos containing materials are present inside this structure, including 9-inch by 9-inch floor tile and associated mastic on the first and second floors.
2. The Kane RC parcel contains a basement space formerly utilized as an indoor firing range (IFR) for small caliber firearms training. This range was previously closed and subject to decontamination activities in February 2003. Based on recent sampling for lead dust in the former IFR area and in other locations throughout the RC building, elevated concentrations of lead dust still remain in some areas of the building.
3. Multiple containers of hazardous materials, including paints and cleaning chemicals, or other miscellaneous potential wastes were observed onsite during the Site reconnaissance. These materials should be recycled or reused at another Pennsylvania Army National Guard (PAARNG) facility, where possible. A waste determination should be completed for any remaining potentially hazardous materials, such as electronic wastes, for which an obvious use has not been identified and handled accordingly.
4. A previous evaluation of the Kane RC parcel for historical and architectural significance resulted in the listing of the Kane RC building on the National Register of Historic Places (NRHP) as of 9 May 1991. Several potential cultural resources and related items are still present onsite, including several unit flags or guidons, multiple trophies and framed certificates, and several black-and white photographs.

5. Based on a review of underground storage tank (UST) system closure documentation for the former WETS fueling point, residual concentrations of several unleaded gasoline constituents may be present in soils in the former location of this feature. As per the fueling point closure report, the unleaded gasoline constituents detected in post-excavation soil samples displayed detectable concentrations below their respective Pennsylvania Department of Environmental Protection (PADEP) statewide health standards (SHSs). This does not currently represent an ongoing environmental or human health risk; however, should this area be disturbed by future development/redevelopment of the Kane WETS parcel, the risk to onsite workers or future occupants may change.

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LIST OF ACRONYMS

ACM	Asbestos Containing Material
AST	Aboveground Storage Tank
BEM	Bureau of Environmental Management
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESQG	Conditionally Exempt Small Quantity Generator
EBS	Environmental Baseline Survey
ECOP	Environmental Condition of Property
eFACTS	Environment, Facility, Application, Compliance Tracking System
EPA	United States Environmental Protection Agency
EPAS	Environmental Performance Assessment System
FISP	Facility Inventory Support Plan
FMS	Field Maintenance Shop
FTIG	Fort Indiantown Gap
IFR	Indoor Firing Range
LBP	Lead-Based Paint
LUST	Leaking Underground Storage Tank
MEC	Munitions and Explosives of Concern
MEP	Military Equipment Parking
NGB	National Guard Bureau
NOV	Notice of Violation
NRHP	National Register of Historic Places
PAARNG	Pennsylvania Army National Guard
PADEP	Pennsylvania Department of Environmental Protection
PADMVA	Pennsylvania Department of Military and Veterans Affairs
PCB	Poly-Chlorinated Biphenyl
POL	Petroleum, Oil, and Lubricants
PRIDE	Planning Resource Infrastructure Development and Evaluation
RC	Readiness Center
RCRA	Resource Conservation and Recovery Act
TSI	Thermal System Insulation
UST	Underground Storage Tank
UXO	Unexploded Ordinance
WETS	Weekend Training Site

1.0 INTRODUCTION

On 26 January 2017, Pennsylvania Department of Military and Veterans Affairs (PADMVA, "Agency"), Bureau of Environmental Management (BEM) staff conducted an Environmental Close-Out Inspection at two facilities: the approximately 0.3-acre Pennsylvania Army National Guard (PAARNG) Kane Readiness Center (RC) parcel located at 208 Chestnut Street, and the approximately 2.5-acre Kane Weekend Training Site (WETS) located on the south side of the 300-block of Ash Street (at approximately 345 Ash Street), both in the Borough of Kane, McKean County, Pennsylvania (collectively referred to as "Site" or "the Site", as shown in Figures 1 and 3 in Appendix A). The inspections for each facility were performed as part of a standard operating procedure for disposal of facilities that are being consolidated or closed by PAARNG. The close-out inspections included a review of internal BEM files, interviews and inquiries with BEM media area managers and facility personnel, as applicable, and an on-site walk through inspection. Photographs were taken to document the site inspections; some of these photos are included in Appendix B of this report, while additional photos are maintained in the BEM electronic files for these facilities.

Agency personnel present during the site visit included: Mr. Daryl Valley, Environmental Specialist, from the Pennsylvania Department of Military and Veterans Affairs, Mr. Larry Campbell, PADMVA Facility and Construction Maintenance Manager, and Mr. Dale Keesler, Maintenance-Repairman 2.

2.0 PROPERTY AND BUILDINGS

According to information in the Facility Inventory Support Plan (FISP), updated as of 1 February 2017, the Kane RC property consists of approximately 0.3-acres. Based on observations made during the site reconnaissance, the primary structures located on the property include the main Readiness Center building, and small garage storage building on the south side of the parcel. Other features include a paved asphalt driveway, sidewalks, and a flagpole. A small memorial plaque formerly located on the north side of the RC building was previously removed and is intended for transport to the previously occupying unit's new station (Grove City RC).

General visual observations of the buildings on the RC parcel suggest that they are in generally good condition. As shown in some of the photographs included in Appendix B with this report, most unit-owned items have been removed from the facilities. However, multiple personal items, such as television sets and microwave ovens still remain in the RC. A small amount of recruiting and retention items are still present in a first floor office in the RC building, as well; however, this space appears to currently be in occasional use.

The Kane WETS parcel includes approximately 2.5-acres of land and currently contains a large unheated corrugated metal unit storage building (southeast corner), a small wooden unit storage building (in fair to poor condition) near its northwest corner, two concrete pads, a former wash pad located adjacent to the onsite latrine, and a small heated latrine building near its northeast corner. A small covered wooden pavilion is located along the northern fenceline, west of the latrine building. A chainlink fence surrounds the main portion of the WETS parcel, and a

slide access gate is located on the north side of the parcel, adjacent to Ash Street. Five utility poles, most with overhead lights, are located across the WETS parcel. An open grassy military equipment parking area occupies most of the WETS parcel. Some rocks and steel drainage structures are located near the center of the southern fenceline to aid stormwater drainage from the property. Overall, the ground surface on the WETS parcel is uneven and has hummock-like topography in many places likely due the movement of military equipment over time, where ruts and other ground disturbance were not repaired. A small portion of the property's south side (outside of the fenced perimeter) is wooded. Observations of this area did not indicate obvious areas of unauthorized dumping, but photographs found in PADMVA's facility files indicate that minor dumping of non-hazardous materials, such as scrap wood, may have occurred south of the fenceline in the past. However, these photos do not indicate whether said items were disposed of within the deeded property boundary. It also appears that neighboring residents on the east and west sides of the WETS parcel may be encroaching on Commonwealth-owned land.

Photographs taken during the closeout inspection are included in Appendix B of this report. Photographs 1 through 18 concern the Kane RC parcel; photographs 19 through 30 were taken at the Kane WETS parcel.

2.1 PRIDE / FISP

Copies of the current PAARNG Facilities and Infrastructure Support Plan (FISP, as maintained by the PRIDE [Planning Resource Infrastructure Development and Evaluation] database) for the Kane RC and WETS parcels are attached to this report as Appendix C. The Installation Numbers are 42C40 and 42C45, respectively. The information is current as of 1 February 2017.

3.0 AIR QUALITY

There were no known pre-existing air quality issues at the RC or WETS properties; the Site does not have an air quality permit related to applicable state or federal regulatory programs. The Kane RC and WETS are not major sources or synthetic major sources of air pollutants, as defined in the current applicable state and federal air quality regulations.

4.0 WASTEWATER

Both parcels are connected to a public sanitary sewer system operated by the Pennsylvania Municipal Service Co., and Pennsylvania American Water.

5.0 WATER QUALITY

There were no water quality issues noted for the facilities during the closeout inspection. The Site is connected to a public water system operated by Pennsylvania American Water.

6.0 ENVIRONMENTAL REPORTS AND DOCUMENTS

6.1 Kane RC Property

6.1.1 Environmental Baseline Survey

PADMVA's files for the Kane RC include a Draft Phase I Environmental Baseline Survey (EBS), dated August 2004. Relevant potential environmental conditions identified during that investigation include:

1. As discussed in Sections 6.5 and 6.6 of this report, respectively, the RC property contains potential asbestos-containing materials (ACMs) and lead-based human health risks.
2. Based on the age of the building (constructed circa 1922), poly-chlorinated biphenyls (PCBs) may be present in lighting ballasts located throughout the building.
3. A hand-written note on a plot plan of the RC property reportedly indicated the previous presence of a 1,000-gallon diesel fuel underground storage tank (UST). It is likely that this referred to a 1,000-gallon UST formerly located on the WETS property, as described in Section 7.1 of this report.
4. An unlabeled container of an unknown substance was observed inside a paint locker within the RC building.
5. Two properties containing USTs were located near the Kane RC property.

6.1.2 Other Environmental Documentation

Other Agency-held environmental documentation and publicly-available data sources reviewed during this assessment identified the following about the Kane RC property:

1. As described in Section 6.3 of this report, in 1995, the Kane RC was assigned a United States Environmental Protection Agency (EPA) ID number (PA0000953497) typically given to facilities that generate waste regulated under the Resource Conservation and Recovery Act (RCRA).
2. The Site is listed in the Pennsylvania Department of Environmental Protection's (PADEP's) eFACTS compliance database. The Site is listed under PADEP's Waste Management program, likely due to its RCRA ID number described above. The Site is also listed under PADEP's Environmental Cleanup & Brownfields database. Additional details in regard to this listing were not immediately available. PADMVA is not aware of the RC property being considered for PADEP-overseen cleanup or brownfields-related activities. It is likely that this refers to the former UST located on the Kane WETS parcel.
3. A review of EPA's EnviroMapper application did not individually identify the RC parcel as subject to additional state or federal regulatory programs (e.g., the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA))

6.2 Kane WETS Property

Formal environmental condition of property (ECOP)-type documentation (such as an EBS or similar documents) in regards to the Kane WETS parcel was not found in PADMVA's files. However, other publicly-available documents examined during the course of this facility close-out review described the following about the Site:

1. The Kane WETS parcel formerly contained a 1,000-gallon UST at a fueling point located near its north side, as discussed in Section 7.1 below.
2. A review of PADEP's eFACTS database did not individually identify the Kane WETS parcel as subject to a state regulatory program.
3. A review of EPA's EnviroMapper application did not individually identify the WETS parcel as subject to federal regulatory programs (e.g., RCRA and CERCLA).

6.3 EPAS Assessments

The last internal Environmental Performance Assessment System (EPAS) site visit at this installation (both the Kane RC and WETS), for which documentation was readily available in Agency-held files, was conducted on 10 June 2013. Applicable concerns noted during this assessment in regards to the Site included improper accumulation of universal waste bulbs and batteries, and improper labeling of waste oil containers. These concerns, as well as, other administrative conditions have apparently been corrected.

7.0 HAZARDOUS MATERIALS AND PETROLEUM PRODUCTS

7.1 Storage Tanks

Currently, there are no aboveground storage tanks (ASTs) or underground storage tanks (USTs) present on the Site. The Kane RC parcel has not historically contained any aboveground or underground storage tanks. The BEM's storage tank files for the Kane WETS property did indicated that an underground storage tank was previously present on the property. Underground storage tank closure documentation described the following in regards to this former fueling point:

1. The UST was determined to have contained gasoline at the time of closure.
2. The UST was removed from the subsurface on 26 March 1997, in accordance with the PADEP storage tank closure protocols in effect at the time.
3. Observations of the UST after excavation indicated that the storage tank and associated piping was in good condition, with no obvious holes or major defects. Obvious impact to adjacent subsurface soils from the former tank contents was not observed. Clean soils from onsite were used to backfill the excavation.
4. Post-excavation soil samples were collected from the excavation, as per the PADEP requirements. The soil sample analytical reports indicated that low concentrations of BTEX (benzene, toluene, ethylbenzene, xylenes), naphthalene, isopropylbenzene (cumene), and MTBE (methyl-tertiary butyl ether), typical gasoline constituents, were not

present at concentrations that exceeded their respective PADEP statewide health standards (SHSs) for organic regulated substances in soil, for both residential and non-residential settings. These laboratory analytical results, and the documented condition of the UST and piping, do not suggest that a significant release of petroleum products happened onsite. These detections are likely due to historical small spills of fuel during use of the fueling point. A summary of the post-excavation soil sample analytical data is shown in Table 1 in Appendix D. A copy of the UST closure report is also attached as part of Appendix D.

7.2 POL and Hazardous Materials Storage Areas

Containers of petroleum, oils, and lubricants (POL) or other hazardous materials were observed in the following locations onsite during the site reconnaissance:

- Common household cleaning chemicals, such as bleach, disinfectants, all-purpose cleaners, floor cleaner, etc. were noted in several areas within the RC building (latrines, maintenance storage areas).
- Two mostly empty 5-gallon cans labeled “waste oil” were located in the garage building on the RC parcel. According to facility personnel, any waste oil remaining onsite will be transported offsite for proper disposal.
- Multiple one-gallon cans of latex paint were located in the basement maintenance storage area.

Multiple types of potentially hazardous materials remain onsite, chiefly in the maintenance storage areas of the Kane RC building and associated garage. All materials were stored properly and are slated to be moved to other PAARNG facilities for use, or otherwise turned in for disposal once sale of the Kane RC parcel is final. The Bureau of Environmental Management (Ms. Dreama O’Neal at (717) 861-9601) can assist the former occupying unit and/or maintenance staff in making a waste determination and arrange for disposal of unwanted or unusable hazardous items.

7.3 Other Hazardous Material Management

A review of agency files did not indicate the presence of significant historic spills or other releases of hazardous waste or other hazardous materials on the Kane RC and WETS parcels. A grease rack was formerly present near the southern fenceline at the WETS parcel; this feature was removed from the WETS parcel sometime prior to July 2007. PADMVA environmental personnel evaluated the former rack location on 13 July 2007, noting that there were “no visible signs of contamination (no staining or dead vegetation) around the former rack location.” The collection of soil samples in this area was suggested for confirmatory purposes, but it is not likely that said soil sample collection was completed, as no laboratory analytical results or other related documentation was found with PADMVA’s files. During the Site reconnaissance, remaining chemical, petroleum, or other hazardous material storage containers were not observed at the WETS parcel facilities. There were no obvious signs (e.g., staining, dead vegetation, waste piles) of significant material spills at the WETS facility during this assessment.

7.4 Poly-Chlorinated Biphenyls

Due to the age of the onsite RC (circa approximately 1922, with a later addition to the north side in 1929), poly-chlorinated biphenyls (PCBs) may be present in some building features, particularly lighting ballasts. Multiple older lighting fixtures have been removed throughout the RC building, temporarily stored in the RC parcel's garage building, and are currently awaiting removal of their ballasts for transport to holding facilities at Fort Indiantown Gap. If any additional lighting fixtures with PCB-containing ballasts are intended to remain in the building for continued use, they do not qualify as potentially hazardous waste, unless they are determined to be excess materials without further use.

Based upon a visual assessment, the WETS parcel did not appear to contain any obvious PCB sources.

7.5 Asbestos

A formal survey of the Kane RC parcel for asbestos containing materials (ACMs) was completed in March 1997. Several building materials within the RC were identified as containing asbestos, including 9-inch by 9-inch floor tile of various colors, floor tile mastic, various sizes of mud fittings associated with piping insulation, and thermal system insulation (TSI, "pipewrap"). Built-up portions of the RC roof were assumed to contain asbestos and were not sampled at that time. Obvious signs of damaged ACMs were not observed during the Site reconnaissance. An interview with Mr. Kessler and a visual assessment of remaining insulation materials in the basement of the RC indicated that much of the ACMs present at the time of the survey were previously abated during renovation-type work in this part of the RC. The remaining materials identified as ACMs, particularly floor tile, appeared to be in generally good condition where present in the RC building. An abridged summary copy of the ACM survey for the Kane RC is included as Appendix E of this report.

No formal ACM survey has been completed for the Kane WETS parcel. No obvious ACMs were observed at the WETS during the close-out inspection.

7.6 Lead-Based Hazards

Due to the age of the onsite facilities (circa the 1920s for the RC parcel, and the late 1960s for the WETS parcel), the potential for the presence of lead-based paint (LBP) exists on the Site.

A former indoor firing range (IFR) was located in the southwest quadrant of the RC's basement. This room was mostly empty during the site reconnaissance. Most of the PAARNG IFRs were officially closed in 1992 or were otherwise previously closed; these spaces were then no longer utilized for small caliber weapons training. A March 2004 report by MWH Americas, Inc. (*Completion Report – Decontamination of Indoor Rifle Ranges, Various Locations in Pennsylvania*) documents an assessment of the former Kane RC IFR for lead dust. This report indicated that remediation of the Kane IFR was completed sometime prior to February 2003. Post-renovation wipe sampling was completed in February 2003, and the associated laboratory

analytical results did not indicate lead dust concentrations above the ARNG cleanup/action level of 200 micrograms per square foot (µg/ft^2).

On 22 February 2016, PADMVA completed a reevaluation of the IFR and multiple areas within the first and second floors of the Kane RC. A total of 38 lead dust wipe samples were collected in the former IFR and at various other locations within the Kane RC building; these samples (along with three blank samples) were submitted to AMA Analytical Services, Inc. of Lanham, Maryland, for laboratory analysis. Of the 18 wipe samples collected in the former IFR area, only two samples displayed lead concentrations above the laboratory reporting limit (10 µg/ft^2). Within these two samples, the highest lead concentration reported was 19 µg/ft^2, from a sample collected on the former IFR floor. The remaining 20 wipe samples collected throughout the RC building (outside the IFR, latrine, drill hall, kitchen, offices, foyer/lobby) did not display detectable concentrations of lead above 86 µg/ft^2.

An additional four lead dust wipe samples plus a blank sample were collected in the RC building on 14 June 2016 , in the drill hall, maintenance break room, basement female shower room, and the men's latrine on the first floor. These sample results ranged from below the laboratory detection limit (10 µg/ft^2; drill hall and blank) to 61 µg/ft^2 in the basement shower room.

The reported lead dust concentrations referenced above do not exceed the current ARNG lead surface goal of 200 µg/ft^2 for rehabilitated IFRs. However, some areas outside the IFR (e.g., basement shower room, first floor men's latrine, etc.) assessed for residual lead dust may exceed the current ARNG lead surface goal of 40 µg/ft^2 for areas that will be accessed by the public. A summary of the lead dust assessment efforts described above is attached to this report as part of Appendix F.

7.7 Munitions and Unexploded Ordnance

As noted in Section 6.6 of this report, the Site historically contained indoor live-fire range facilities in the RC's basement. A review of applicable files does not suggest unexploded ordnance (UXO), munitions and explosives of concern (MECs), and/or other debris typical of live-fire small arms training are currently present elsewhere onsite.

8.0 ENVIRONMENTAL IMPACTS AND REMEDIATION

Other than any impacts or spill incidents discussed in the preceding sections of this report, BEM and other Agency-held files did not contain information on the historical presence of locations of significant environmental impact or remediation onsite. There are no known outstanding notices of violations (NOVs), environmental liens, or open regulatory infractions against the Kane RC and Kane WETS properties.

9.0 WASTE MANAGEMENT

9.1 Municipal Waste

One municipal waste dumpster serviced by Advanced Disposal is currently located on the Site's RC parcel. Municipal or residual wastes are not currently actively being generated in bulk by PAARNG on the RC or WETS parcels.

9.2 Residual Waste

There was no obvious evidence of residual waste remaining at the Kane RC and WETS facilities during the site reconnaissance.

9.3 Hazardous Waste

The Kane RC was assigned an EPA ID number (PA0000953497) typically given to facilities that generate waste regulated under the Resource Conservation and Recovery Act (RCRA). According to EPA records, the Site is currently classified as a Conditionally Exempt Small Quantity Generator (CESQG) facility; onsite RCRA violations were not identified during a review of available EPA RCRA databases. Based on a review of available Agency-held files and interviews with BEM staff, large quantities of hazardous waste were not generated onsite. Regulated waste materials typically generated included what is classified as universal waste (batteries, used fluorescent light bulbs, etc.) and listed wastes such as spent solvents, and other materials (e.g., waste motor oil). According to documentation reviewed during this assessment, these wastes were transported to a receiving PAARNG Field Maintenance Shop (FMS) for collection and later disposal or to similar facilities at Fort Indiantown Gap (FTIG).

Several electronic items, including two television sets (in the drill hall storage room and in the second floor common office area), a printer and fax machine are still present in the office areas of the first and second floors of the RC. Two small microwave ovens, as well as, three window-mount air conditioning units are still present inside the RC building. A desktop computer reportedly left behind by the unit formerly occupying the RC was observed in the basement dispatch room. These items are not necessarily considered hazardous wastes, however, as they could be reused, and most likely fall under the electronic, or "e-waste" category. The computer should be turned into the G6 at FTIG for processing and disposal. The EPA and PADEP generally do not consider electronics and household appliances to be wastes until a decision has been made that they cannot or will not be reused. A waste determination should be made for these items and treated accordingly.

10.0 CULTURAL / HISTORICAL RESOURCES

10.1 Cultural Resources

In 1991, the Kane RC building was evaluated for historical and architectural significance; it was listed on the National Register of Historic Places (NRHP) on 9 May 1991.

A cultural resources inventory was previously completed for the Kane RC property. Based on observations made during the closeout inspection, several cultural items, or other items that may have some significance to the unit formerly stationed at Kane, remain in the RC building's first floor, particularly a glass display case in the hallway off the main lobby (including guidons) and several old black and white photographs in the adjacent office. A small memorial plaque formerly located on the north side of the exterior of the RC building is currently housed inside the building. Obvious cultural items were not observed on the WETS parcel during the Site reconnaissance.

If the unit that previously occupied the facility does not have room or need for these potential cultural items, or, should additional potential cultural resources be identified during final closure of the property, all cultural resources and historical property including trophies, plaques, certificates, pictures, uniforms, equipment, flags, weapons, and other historically significant items should be transferred to a new facility or turned over to the Pennsylvania National Guard Military Museum at Fort Indiantown Gap. Firearms and weapons are considered federal property and should have a hand receipt; unwanted federal property must be turned in to the USPFO. Guidelines in regards to closing PAARNG facilities with cultural and historical items are available by contacting the PAARNG's Cultural Resources Manager at (717) 861-6793.

10.2 Historical Information

A review of a limited set of aerial photographs of the Site indicates the WETS parcel was likely not developed prior to 1940; Agency records indicate that it likely first developed in the late 1960s. Agency records indicate that the RC parcel was likely first developed in 1922, with the construction of the original portion of the RC building. The RC parcel was placed on the National Register of Historic Places (NRHP) on 9 May 1991.

11.0 ENERGY

The facility currently contains a natural gas-fired boiler system for heating. Several window-mounted air conditioners were observed in storage or in use on the first and second floors of the RC building.

12.0 SUMMARY OF POTENTIAL ENVIRONMENTAL/HUMAN HEALTH CONCERNS

The following text provides a summary of potential concerns or issues that were noted either during the file review and inquiry process or were observed during the site visit.

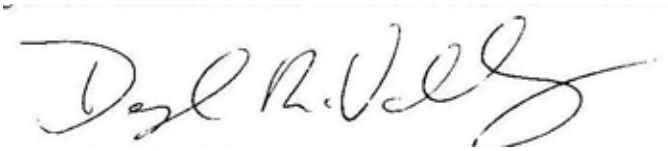
1. Based on the age of the first constructed onsite buildings (circa the 1920s for the RC parcel and circa the late 1960s for the WETS parcel), lead-based paint and PCB-containing light fixture ballasts may be present. To date, lead-based paint and PCB surveys have not been conducted for these facilities. Based on an asbestos building inspection completed in March 1997 for the Kane RC building, some asbestos containing materials are present inside this structure, including 9-inch by 9-inch floor tile and associated mastic on the first and second floors. The known ACMs still present

onsite appeared to be in generally good condition during the site reconnaissance. Obvious ACMs were not visually observed on the WETS parcel.

2. The Kane RC parcel contains a basement space formerly utilized as an indoor firing range for small caliber firearms training. This range was previously closed and subject to decontamination activities prior to February 2003. Based on recent sampling for lead dust in the former IFR area and in other locations (e.g., basement shower room, first floor men's latrine, etc.) throughout the RC building, some elevated concentrations of lead dust still remain, particularly in the former IFR space. These concentrations do not exceed the current ARNG lead surface goal of 200 µg/ft^2 for rehabilitated IFRs. However, some areas outside the IFR assessed for residual lead dust may exceed the current ARNG lead surface goal of 40 µg/ft^2 for areas that will be accessed by the public.
3. Multiple containers of hazardous materials, including paints and cleaning chemicals, or other miscellaneous potential wastes were observed onsite during the Site reconnaissance. These materials should be recycled or reused at another PAARNG facility, where possible. A waste determination should be completed for any remaining potentially hazardous materials, such as electronic wastes, for which an obvious use has not been identified and handled accordingly. Any excess electronic wastes should be turned into a facility that accepts such waste under Pennsylvania's current e-waste recycling laws. Residual waste items, such as tires, should be removed from the Site for proper disposal or recycling.
4. A previous evaluation of the Kane RC parcel for historical and architectural significance resulted in the listing of the Kane RC building on the NRHP as of 9 May 1991. Several potential cultural resources and related items are still present onsite, including several unit flags or guidons, multiple trophies and framed certificates, and several black-and white photographs. Additional consultation with PADMVA's Cultural Resource Manager in regards to the items noted above may be necessary prior to the final disposal of the Site. Any verified cultural items for which the unit has no use may be turned over to the Pennsylvania National Guard Museum at Fort Indiantown Gap.
5. Based on a review of UST closure documentation for the former WETS fueling point, residual concentrations of several unleaded gasoline constituents may be present in soils in the former location of this feature. As per the documentation included in Appendix D of this report, the unleaded gasoline constituents detected in post-excavation soil samples displayed concentrations below their respective PADEP SHSs. This does not currently represent an ongoing environmental or human health risk, based on the closure-related laboratory analytical reports, and observations made during the UST closure in 1997, and the current use of the WETS parcel. However, should this area be disturbed by future development/redevelopment of the Kane WETS parcel, the risk to onsite workers or future occupants may change.

There were no obvious environmental issues observed during this inspection which could cause an immediate threat to human health or the environment. However, human health risks may exist within the onsite buildings due to the potential presence of asbestos, lead-based paint, and/or a lead dust hazard from the past operation of an indoor firing range on the Kane RC parcel. Petroleum products and other hazardous materials remaining onsite should be recycled or reused where possible, or otherwise be determined to be wastes for proper disposal.

The BEM Staff conducting this inspection considers the Environmental Close-Out Inspection of the facility to be complete with conditions, if any, noted in the comments above. The BEM will assist and support facility personnel as necessary to resolve any issues that may need to be addressed prior to the final transfer/sale of this facility. If there are any questions regarding this report or the close-out inspection process, please contact the undersigned individual.



Daryl R. Valley, Environmental Specialist
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Bureau of Environmental Management
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Appendix A

Figures

PENNSYLVANIA
NAD 1983 UTM Zone 17N
Prepared by PADMVA-OFE-BEM
COMM: (717) 861-2634 DSN: 491-2634
Created: 3 February 2017 drv
Sources: PADMVA BEM GIS; ESRI

Figure 1: Site Location Map
Kane Readiness Center
208 Chestnut Street,
Borough of Kane, McKean County,
Pennsylvania

The information on this map is for planning purposes only. This information is not intended for use for legal boundary definitions, regulatory interpretation, or parcel-level analysis. This map is a living document, in that it is intended to change as new data become available and are incorporated into the Enterprise GIS database.

PENNSYLVANIA
NAD 1983 UTM Zone 17N
Prepared by PADMVA-OFE-BEM
COMM: (717) 861-2634 DSN: 491-2634
Created: 3 February 2017 drv
Sources: PADMVA BEM GIS; ESRI

Figure 2: Site Features Map
Kane Readiness Center
208 Chestnut Street,
Borough of Kane, McKean County,
Pennsylvania

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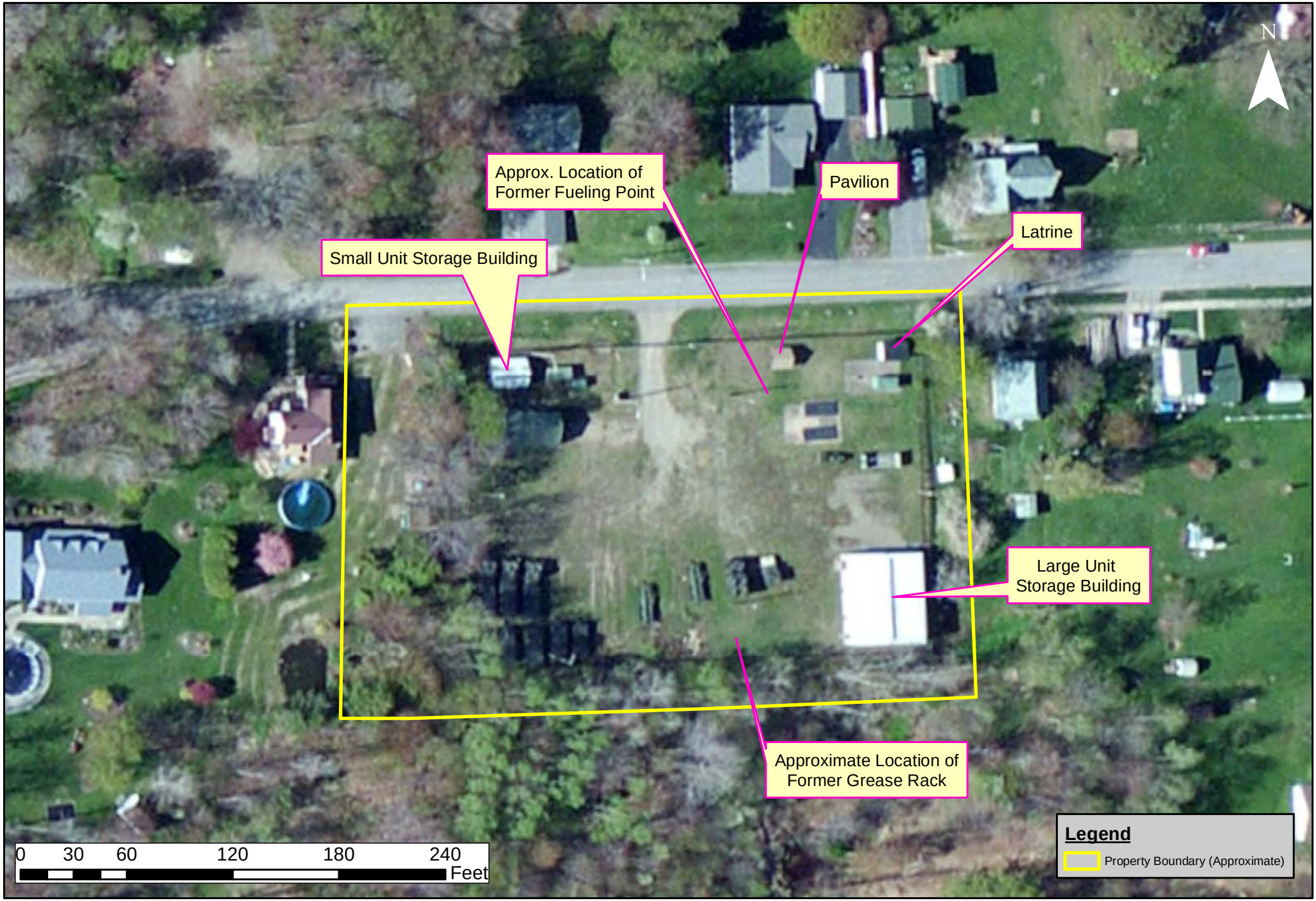
PENNSYLVANIA
NAD 1983 UTM Zone 17N
Prepared by PADMVA-OFE-BEM
COMM: (717) 861-2634 DSN: 491-2634
Created: 7 February 2016 drv
Sources: PADMVA BEM GIS; ESRI

Figure 3: Site Location Map
Kane Weekend Training Site
Ash Street
Borough of Kane, McKean County, Pennsylvania

The information on this map is for planning purposes only. This information is not intended for use for legal boundary definitions, regulatory interpretation, or parcel-level analysis. This map is a living document, in that it is intended to change as new data become available and are incorporated into the Enterprise GIS database.



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COMM: (717) 861-2634 DSN: 491-2634
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Sources: PADMVA BEM GIS; ESRI

Figure 4: Site Features Map
Kane Weekend Training Site
Ash Street
Borough of Kane, McKean County, Pennsylvania

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Appendix B

Photographs

Photograph 1: View to the north of the Kane RC's exterior.

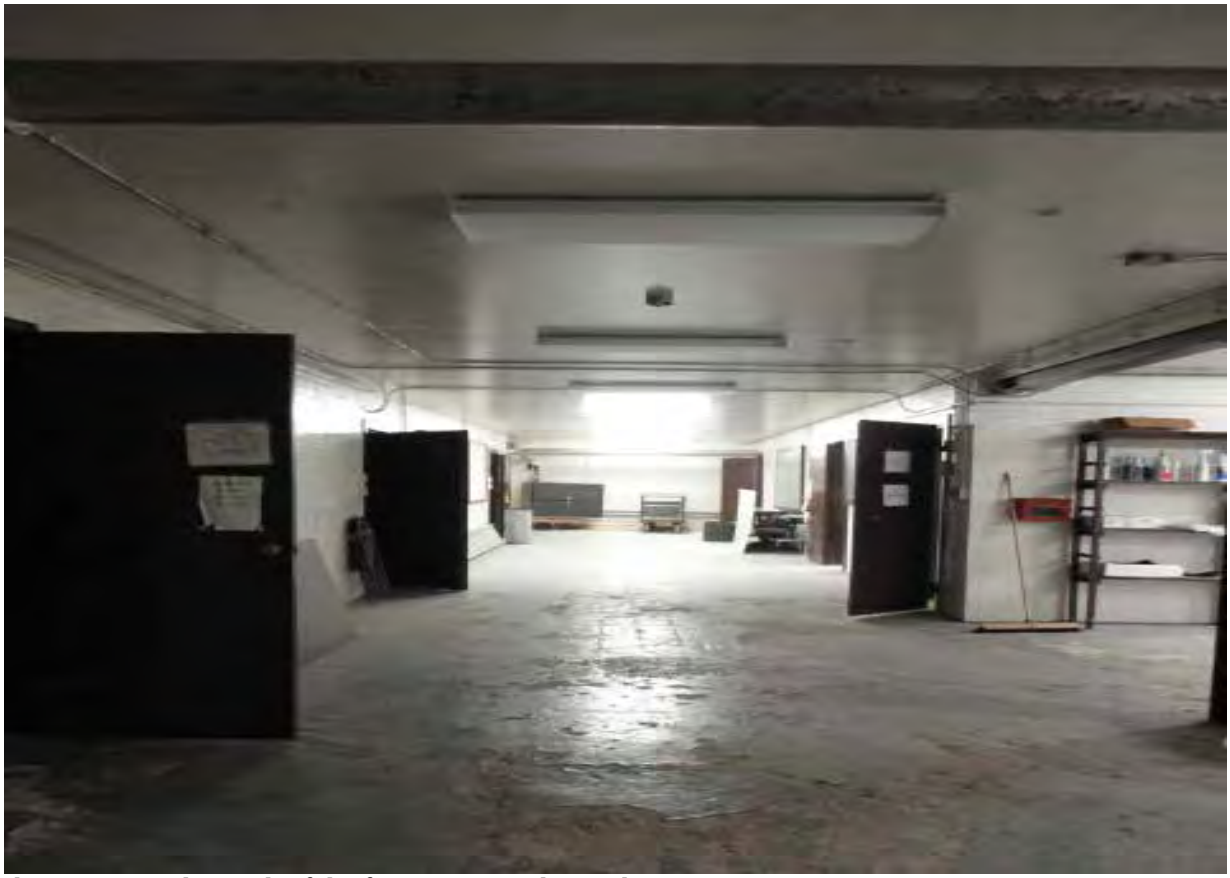
Photograph 2: View to the north-northwest of the rear of the RC building, paved driveway, and parking area.

Photograph 3: View to west of the building cornerstone, demarking the addition added to the north side of the RC building in the late 1920s.

Photograph 4: View to the west of the garage building located south of the RC.

Photograph 5: View of materials (old lighting fixtures and ballasts, waste light bulbs, scrap metal, etc.) in the garage building awaiting transport for recycling, disposal, and/or reuse.

Photograph 6: View of the boiler room in the RC basement.



Photograph 7: View to the north of the former IFR in the RC basement.

Photograph 8: View to the south of the former IFR space, near the target area.

Photograph 9: View to the north of the main area of maintenance chemical storage in the RC basement.

Photograph 10: View of a computer left in the RC basement.

Photograph 11: View of storage crawlspace in the northern side of the basement where ACMs were previously abated.

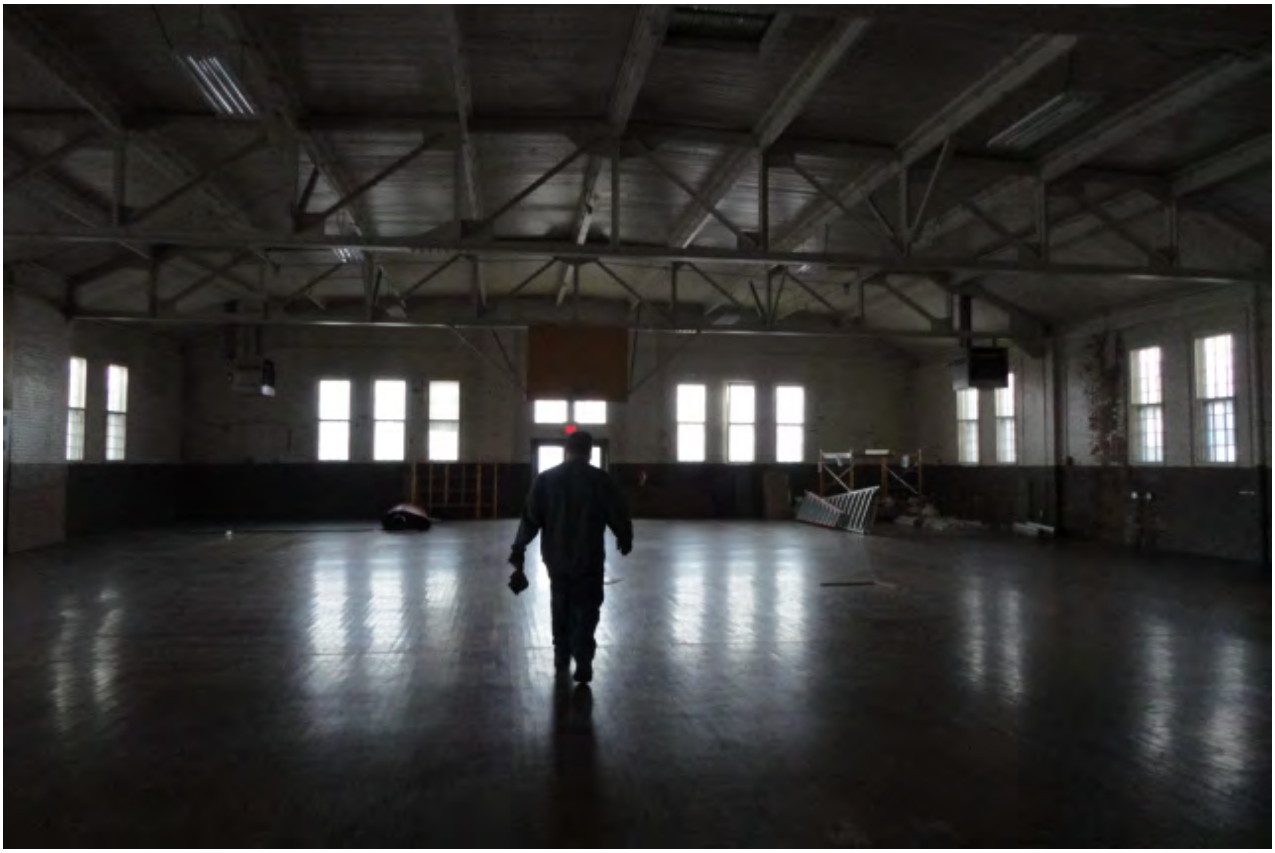
Photograph 12: View of a former unit storage area in the basement. This room was mostly empty except for a small crate of cleaning supplies (seen to the right of the foreground pillar) and a small microwave oven.

Photograph 13: View of window-mount air condition units in a first floor maintenance storage room.

Photograph 14: View of the large 2nd floor office space. Note the television set remaining on the east wall.

Photograph 15: View of historical photos in a first floor office off the first floor entrance hallway.

Photograph 16: View of remaining cultural items in the first floor entrance hall.



Photograph 17: View to the south of remaining items in the RC drill hall, much of which were maintenance-related items, such as ladders and light fixtures.

Photograph 18: View of remaining window-mounted air conditioning unit in the second floor maintenance office.

Photograph 19: View to the east across the northern edge of the Site off Ash Street.

Photograph 20: View to the west of the small unit storage building and adjacent concrete pad. An area of bare earth can be seen in front of the storage building where a portable unit storage container formerly sat.

Photograph 21: View of the interior of the small unit storage building near the Site's northwest corner.

Photograph 22: View to the east of the former storage container location (foreground) and the structures on the eastern part of the WETS (pavilion, latrine, utility poles, large unit storage building).

Photograph 23: View approximately to the north-northeast of most of the northern half of the WETS parcel.

Photograph 24: View to the east of the latrine building and adjacent wash pad.

Photograph 25: View of the mostly empty interior of the large unit storage building.

Photograph 26: View to the east-northeast of the wooden pavilion and latrine building.

Photograph 27: View to the east along the southern fenceline, from near the parcel's southwest corner.

Photograph 28: View to the south of the wooded area near the parcel's southeast corner.

Photograph 29: View to the south of the wooded area near the parcel's southwest corner.

Photograph 30: View to the east of a stormwater drainage area along the southern fenceline. The former grease rack was reportedly located between this feature and the large unit storage building in the background.

Appendix C

Current FISP Information

Site: 42C37 **Site Name:** JOHNSTOWN AASF 2/READINESS CENTE **City,State:** Johnstown, Pennsylvania **SUID:** 5643

Structure	FACNO/LD	POV01	RPA Name	NON ORG PARKING, SURFACED (RI		RPUID	337038	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JUL-1997	Acquisition Govt Cost	$345,100.00
RPA Description	NONORGANIZATIONAL VEHICLE PARKING, SURFACED					Design FAC	8521	Design CAT	85215	Interest Type	FEE	Placed in Service Date	01-JUL-1997	Acquisition Method	CONS
Under RPAO Revie						Current FAC	8521	Current CAT	85215	Operational Status	ACT	Acquisition Date	01-JUL-1997		
Asset Allocation	Area:	001	Area Name	POV PARKING	FAC	8521	Primary UOM	SY	Quantity	6,430	User Organization	02	Sustainment Organization	01	Shared Use Indicator	P
					CAT	85215	Secondary UOM		Quantity		Agreement Support	SC8	Sustainment Fund	021-2080-000		
Linear Structure	FACNO/LD	ROAD1	RPA Name	ACCESS DRIVEWAY (RESERVES #4		RPUID	337037	RPA Type	LS	Construction Type	PERM	Facility Built Date	01-JUL-1997	Acquisition Govt Cost	$0.00
RPA Description	CANTONMENT AREA ROADS, SURFACED					Design FAC	8511	Design CAT	85110	Interest Type	FEE	Placed in Service Date	01-JUL-1997	Acquisition Method	TRNS
Under RPAO Revie						Current FAC	8511	Current CAT	85110	Operational Status	ACT	Acquisition Date	01-JUL-1997		
Asset Allocation					FAC	8511	Primary UOM	SY	Quantity	490	User Organization	02	Sustainment Organization	01	Shared Use Indicator	P
					CAT	85110	Secondary UOM	MI	Quantity	0.07	Agreement Support	SC1	Sustainment Fund	021-2080-000		

Site: 42C40 **Site Name:** KANE READINESS CENTER **City,State:** Kane, Pennsylvania **SUID:** 5689

Building	FACNO/LD	00001	RPA Name	KANE READINESS CENTER		RPUID	340723	RPA Type	B	Construction Type	PERM	Facility Built Date	01-JAN-1922	Acquisition Govt Cost	$200,890.38
RPA Description	NATIONAL GUARD READINESS CENTER					Design FAC	1714	Design CAT	17180	Interest Type	ONST	Placed in Service Date	01-JAN-1922	Acquisition Method	OTHR
Reportable						Current FAC	1714	Current CAT	17180	Operational Status	ACT	Acquisition Date	01-JAN-1922		
Asset Allocation	Area:	001	Area Name	READINESS CENTER	FAC	1714	Primary UOM	SF	Quantity	15,943	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P
					CAT	17180	Secondary UOM	PN	Quantity	38	Agreement Support	S15	Sustainment Fund	021-2065-000		
Building	FACNO/LD	00001IFR	RPA Name	INDOOR FIRING RANGE IN RC		RPUID		RPA Type	B	Construction Type		Facility Built Date		Acquisition Govt Cost	
RPA Description	FMR INDOOR FIRING RANGE IN RC-CURRENLTY USED AS A HALLWAY					Design FAC	1718	Design CAT	17121	Interest Type	ONST	Placed in Service Date	01-JAN-1922	Acquisition Method	
Draft						Current FAC	1714	Current CAT	17180	Operational Status	CLSD	Acquisition Date			
Asset Allocation	Area:	001	Area Name	INDOOR FIRING RANGE IN RC	FAC	1714	Primary UOM	SF	Quantity	2,000	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P
					CAT	17180	Secondary UOM	PN	Quantity		Agreement Support	S15	Sustainment Fund	021-2065-000		
Structure	FACNO/LD	00002	RPA Name	Monument		RPUID	1147212	RPA Type	S	Construction Type	PERM	Facility Built Date	18-JUL-2011	Acquisition Govt Cost	$6,863.21
RPA Description	Memorial Plaque w/Tree					Design FAC	7602	Design CAT	76020	Interest Type	ONST	Placed in Service Date	18-JUL-2011	Acquisition Method	DONA
Reportable						Current FAC	7602	Current CAT	76020	Operational Status	ACT	Acquisition Date	18-JUL-2011		
Asset Allocation	Area:	001	Area Name	Monument	FAC	7602	Primary UOM	EA	Quantity	1	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P
					CAT	76020	Secondary UOM		Quantity		Agreement Support	S15	Sustainment Fund	021-2065-000		
Structure	FACNO/LD	FLAGP	RPA Name	FLAGPOLE		RPUID	340721	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JAN-1922	Acquisition Govt Cost	$526.14
RPA Description	FLAGPOLE					Design FAC	6900	Design CAT	69010	Interest Type	ONST	Placed in Service Date	01-JAN-1922	Acquisition Method	PUR
Reportable						Current FAC	6900	Current CAT	69010	Operational Status	ACT	Acquisition Date	01-JAN-1922		
Asset Allocation	Area:	001	Area Name	FLAGPOLE	FAC	6900	Primary UOM	EA	Quantity	1	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P
					CAT	69010	Secondary UOM		Quantity		Agreement Support	S15	Sustainment Fund	021-2065-000		
Land	FACNO/LD	LAND1	RPA Name	State Owned Land		RPUID	929920	RPA Type	L	Construction Type		Facility Built Date		Acquisition Govt Cost	$1,400.00
RPA Description	LAND PURCHASES AND CONDEMNATION - STATE					Design FAC	9111	Design CAT	91510	Interest Type	ONST	Placed in Service Date	15-APR-1920	Acquisition Method	OTHR
Reportable						Current FAC	9111	Current CAT	91510	Operational Status	ACT	Acquisition Date	15-APR-1920		
Asset Allocation					FAC	9111	Primary UOM	AC	Quantity	0.3	User Organization		Sustainment Organization		Shared Use Indicator	
					CAT	91510	Secondary UOM		Quantity		Agreement Support	S15	Sustainment Fund			
Structure	FACNO/LD	PSIGN	RPA Name	FAC INFO SIGN		RPUID	340720	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JAN-1922	Acquisition Govt Cost	$526.14
RPA Description	FACILITY INFORMATION SIGN					Design FAC	6900	Design CAT	69030	Interest Type	ONST	Placed in Service Date	01-JAN-1922	Acquisition Method	CONS
Reportable						Current FAC	6900	Current CAT	69030	Operational Status	ACT	Acquisition Date	01-JAN-1922		
Asset Allocation	Area:	001	Area Name	FAC INFO SIGN	FAC	6900	Primary UOM	EA	Quantity	1	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P
					CAT	69030	Secondary UOM		Quantity		Agreement Support	S15	Sustainment Fund	021-2065-000		
Linear Structure	FACNO/LD	ROADS	RPA Name	DRIVEWAY		RPUID	340719	RPA Type	LS	Construction Type	PERM	Facility Built Date	01-JAN-1922	Acquisition Govt Cost	$738.25
RPA Description	CANTONMENT AREA ROADS, SURFACED					Design FAC	8511	Design CAT	85110	Interest Type	ONST	Placed in Service Date	01-JAN-1922	Acquisition Method	CONS
Reportable						Current FAC	8511	Current CAT	85110	Operational Status	ACT	Acquisition Date	01-JAN-1922		
Asset Allocation					FAC	8511	Primary UOM	SY	Quantity	278	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P
					CAT	85110	Secondary UOM	MI	Quantity	0.04	Agreement Support	S15	Sustainment Fund	021-2065-000		
Structure	FACNO/LD	SDWLK	RPA Name	SIDEWALKS		RPUID	340724	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JAN-1922	Acquisition Govt Cost	$1,932.68
RPA Description	SIDEWALKS AND WALKWAYS, SURFACED					Design FAC	8524	Design CAT	85220	Interest Type	ONST	Placed in Service Date	01-JAN-1922	Acquisition Method	CONS
Reportable						Current FAC	8524	Current CAT	85220	Operational Status	ACT	Acquisition Date	01-JAN-1922		
Asset Allocation	Area:	001	Area Name	SIDEWALK	FAC	8524	Primary UOM	SY	Quantity	690	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P
					CAT	85220	Secondary UOM		Quantity		Agreement Support	S15	Sustainment Fund	021-2065-000		
Building	FACNO/LD	STR01	RPA Name	General Purpose Storage Building		RPUID	340722	RPA Type	B	Construction Type	PERM	Facility Built Date	01-JAN-1922	Acquisition Govt Cost	$4,877.77
RPA Description	General Purpose Storage Building					Design FAC	4421	Design CAT	44220	Interest Type	ONST	Placed in Service Date	01-JAN-1922	Acquisition Method	CONS
Reportable						Current FAC	4421	Current CAT	44220	Operational Status	ACT	Acquisition Date	01-JAN-1922		
Asset Allocation	Area:	001	Area Name	GENERAL PURPOSE STORAGE BU	FAC	4421	Primary UOM	SF	Quantity	690	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P
					CAT	44220	Secondary UOM	CF	Quantity	0	Agreement Support	S15	Sustainment Fund	021-2065-000		

Site: 42C45 **Site Name:** KANE WET SITE **City,State:** Kane, Pennsylvania **SUID:** 5688

Structure	FACNO/LD	00001	RPA Name	PAD		RPUID	340643	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JAN-1960	Acquisition Govt Cost	$282.02
RPA Description	PAD					Design FAC	8526	Design CAT	85225	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	CONS
Reportable						Current FAC	8526	Current CAT	85225	Operational Status	ACT	Acquisition Date	01-JAN-1960		
Asset Allocation	Area:	001	Area Name	PAD	FAC	8526	Primary UOM	SY	Quantity	88.89	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P
					CAT	85225	Secondary UOM		Quantity		Agreement Support	TSC	Sustainment Fund	021-2065-000		

Site: 42C45 **Site Name:** KANE WET SITE **City,State:** Kane, Pennsylvania **SUID:** 5688

Structure	FACNO/LD	00001	RPA Name	PAD			RPUID	340643	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JAN-1960	Acquisition Govt Cost	$282.02	
RPA Description	PAD						Design FAC	8526	Design CAT	85225	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	CONS	
Reportable							Current FAC	8526	Current CAT	85225	Operational Status	ACT	Acquisition Date	01-JAN-1960			
Building	FACNO/LD	00002	RPA Name	TOILET/SHOWER			RPUID	343840	RPA Type	B	Construction Type	PERM	Facility Built Date	01-JAN-1960	Acquisition Govt Cost	$1,824.47	
RPA Description	SEPARATE TOILET/SHOWER BUILDING						Design FAC	7385	Design CAT	73075	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	CONS	
Reportable							Current FAC	7385	Current CAT	73075	Operational Status	ACT	Acquisition Date	01-JAN-1960			
Asset Allocation	Area:	001	Area Name	TOILET/ SHOWER	FAC	7385	Primary UOM	SF	Quantity	108	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P	
					CAT	73075	Secondary UOM		Quantity		Agreement Support	TSC	Sustainment Fund	021-2065-000			
Structure	FACNO/LD	00003	RPA Name	PAD			RPUID	340644	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JAN-1960	Acquisition Govt Cost	$282.02	
RPA Description	PAD						Design FAC	8526	Design CAT	85225	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	CONS	
Reportable							Current FAC	8526	Current CAT	85225	Operational Status	ACT	Acquisition Date	01-JAN-1960			
Asset Allocation	Area:	001	Area Name	PAD	FAC	8526	Primary UOM	SY	Quantity	88.89	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P	
					CAT	85225	Secondary UOM		Quantity		Agreement Support	TSC	Sustainment Fund	021-2065-000			
Structure	FACNO/LD	00004	RPA Name	Wash Platform - Organizational			RPUID	343838	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JAN-1960	Acquisition Govt Cost	$6,857.75	
RPA Description	Wash Platform - Organizational						Design FAC	2145	Design CAT	14955	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	CONS	
Reportable							Current FAC	2145	Current CAT	14955	Operational Status	ACT	Acquisition Date	01-JAN-1960			
Asset Allocation	Area:	001	Area Name	Wash Platform Organizational	FAC	2145	Primary UOM	EA	Quantity	1	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P	
					CAT	14955	Secondary UOM		Quantity	0	Agreement Support	TSC	Sustainment Fund	021-2065-000			
Linear Structure	FACNO/LD	00005	RPA Name	Gate - Double Cantilever Slide Entranc			RPUID	1160665	RPA Type	LS	Construction Type	PERM	Facility Built Date	06-APR-2009	Acquisition Govt Cost	$5,750.00	
RPA Description	Gate - Double Cantilever Slide Entrance Gate						Design FAC	8721	Design CAT	87250	Interest Type	ONST	Placed in Service Date	06-APR-2009	Acquisition Method	CONS	
Reportable							Current FAC	8721	Current CAT	87250	Operational Status	ACT	Acquisition Date	06-APR-2009			
Asset Allocation					FAC	8721	Primary UOM	LF	Quantity	28	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P	
					CAT	87250	Secondary UOM		Quantity		Agreement Support	TSC	Sustainment Fund	021-2065-000			
Structure	FACNO/LD	EXTLT	RPA Name	EXTERIOR LIGHTING			RPUID	340641	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JAN-1960	Acquisition Govt Cost	$2,552.55	
RPA Description	EXTERIOR LIGHTING						Design FAC	8122	Design CAT	81230	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	CONS	
Reportable							Current FAC	8122	Current CAT	81230	Operational Status	ACT	Acquisition Date	01-JAN-1960			
Asset Allocation	Area:	001	Area Name	EXT LIGHTING	FAC	8122	Primary UOM	EA	Quantity	7	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P	
					CAT	81230	Secondary UOM		Quantity		Agreement Support	TSC	Sustainment Fund	021-2065-000			
Linear Structure	FACNO/LD	FENCE	RPA Name	FENCING			RPUID	340642	RPA Type	LS	Construction Type	PERM	Facility Built Date	01-JAN-1960	Acquisition Govt Cost	$3,316.90	
RPA Description	FENCING AND WALLS						Design FAC	8721	Design CAT	87210	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	CONS	
Reportable							Current FAC	8721	Current CAT	87210	Operational Status	ACT	Acquisition Date	01-JAN-1960			
Asset Allocation					FAC	8721	Primary UOM	LF	Quantity	822	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P	
					CAT	87210	Secondary UOM		Quantity		Agreement Support	TSC	Sustainment Fund	021-2065-000			
Land	FACNO/LD	LAND1	RPA Name	WETSite			RPUID	931321	RPA Type	L	Construction Type		Facility Built Date		Acquisition Govt Cost	$1.00	
RPA Description	LAND PURCHASES AND CONDEMNATION - STATE						Design FAC	9111	Design CAT	91510	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	PUR	
Reportable							Current FAC	9111	Current CAT	91510	Operational Status	ACT	Acquisition Date	01-JAN-1960			
Asset Allocation					FAC	9111	Primary UOM	AC	Quantity	2.5	User Organization		Sustainment Organization		Shared Use Indicator		
					CAT	91510	Secondary UOM		Quantity		Agreement Support	TSC	Sustainment Fund				
Structure	FACNO/LD	REC01	RPA Name	RECREATION SHELTER			RPUID	343839	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JAN-1960	Acquisition Govt Cost	$520.47	
RPA Description	RECREATIONAL SHELTER						Design FAC	7531	Design CAT	75052	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	CONS	
Reportable							Current FAC	7531	Current CAT	75052	Operational Status	ACT	Acquisition Date	01-JAN-1960			
Asset Allocation	Area:	001	Area Name	REC SHELTER	FAC	7531	Primary UOM	SF	Quantity	75	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P	
					CAT	75052	Secondary UOM	EA	Quantity	1	Agreement Support	TSC	Sustainment Fund	021-2065-000			
Building	FACNO/LD	STOR1	RPA Name	UNIT STORAGE			RPUID	340514	RPA Type	B	Construction Type	PERM	Facility Built Date	01-JAN-1989	Acquisition Govt Cost	$148,253.41	
RPA Description	ORGANIZATIONAL STORAGE BUILDING						Design FAC	4421	Design CAT	44224	Interest Type	ONST	Placed in Service Date	01-JAN-1989	Acquisition Method	CONS	
Reportable							Current FAC	4421	Current CAT	44224	Operational Status	ACT	Acquisition Date	01-JAN-1989			
Asset Allocation	Area:	001	Area Name	Organizational Storage Building	FAC	4421	Primary UOM	SF	Quantity	2,000	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P	
					CAT	44224	Secondary UOM	CF	Quantity	24,000	Agreement Support	TSC	Sustainment Fund	021-2065-000			
Building	FACNO/LD	STOR2	RPA Name	UNIT STORAGE			RPUID	340515	RPA Type	B	Construction Type	PERM	Facility Built Date	01-JAN-1960	Acquisition Govt Cost	$1,527.44	
RPA Description	ORGANIZATIONAL STORAGE BUILDING						Design FAC	4421	Design CAT	44224	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	PUR	
Reportable							Current FAC	4421	Current CAT	44224	Operational Status	CLSD	Acquisition Date	01-JAN-1960			
Asset Allocation	Area:	001	Area Name	ORG STORAGE	FAC	4421	Primary UOM	SF	Quantity	140	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P	
					CAT	44224	Secondary UOM	CF	Quantity	0	Agreement Support	NO	Sustainment Fund	021-2065-000			
Structure	FACNO/LD	UPARK	RPA Name	UNSURFACED OR PARKING			RPUID	340516	RPA Type	S	Construction Type	PERM	Facility Built Date	01-JAN-1960	Acquisition Govt Cost	$6,454.69	
RPA Description	ORGANIZATIONAL VEHICLE PARKING, UNSURFACED						Design FAC	8522	Design CAT	85211	Interest Type	ONST	Placed in Service Date	01-JAN-1960	Acquisition Method	CONS	
Reportable							Current FAC	8522	Current CAT	85211	Operational Status	ACT	Acquisition Date	01-JAN-1960			
Asset Allocation	Area:	001	Area Name	UNSURFACED ORG PARKING	FAC	8522	Primary UOM	SY	Quantity	4,629	User Organization	02	Sustainment Organization	02	Shared Use Indicator	P	
					CAT	85211	Secondary UOM		Quantity		Agreement Support	TSC	Sustainment Fund	021-2065-000			

Appendix D

Kane WETS UST Closure-Related Documentation

ATTACHMENT 4

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

42-09810
Facility I.D.

Kane — Municipality
McKean — County

4/9/97
Date Prepared

David W. Johns
Name of Person Submitting Report
(Please Print)

Environmental Restoration, Inc.
Company Name
(If Applicable)

General Manager
Title

Closure Method (Check all that apply):

- ☒ Removal
- ☐ Closure-In-Place
- ☐ Change-In-Service

Site Assessment Results (Check all that apply):

- ☒ No Obvious Contamination - Sample Results Meet Standards/Levels
- ☐ No Obvious Contamination - Sample Results Do Not Meet Standards/Levels
- ☐ Obvious, Localized Contamination - Sample Results Meet Standards/Levels
- ☐ Obvious, Localized Contamination - Sample Results Do Not Meet Standards/Levels
- ☐ Obvious, Extensive Contamination

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

DATE RECEIVED: _____

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Owners who are permanently closing underground storage tanks may use this form to demonstrate that an underground storage tank closure was performed in accordance with the "Closure Requirements For Underground Storage Tank Systems" document. PLEASE PRINT OR TYPE. COMPLETE ALL QUESTIONS.

SECTION I. Owner/Facility/Tank/Waste Management and Disposal Information

1. Facility ID Number 42-09810
2. Facility Name Dept. of Military Affairs
3. Facility County McKean
4. Facility Municipality Kane
5. Facility Address Ash Street
6. Facility Contact Person Mr. John Fronko
7. Facility Telephone Number (717) 861-8250
8. Owner Name Dept. of Military Affairs
9. Owner Mailing Address State aRmory Board Annville, PA 17003-5002
10. Description of Underground Storage Tanks (Complete for each tank closed)

DATE OF TANK CLOSURE (Month/Day/Year)		3/26/97			
Tank Registration Number		001			
Estimated Total Capacity (Gallons)		1,000			
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	a. Petroleum				
	Unleaded Gasoline	☒	☐	☐	☐
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☐	☐	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☐	☐	☐	☐
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☐	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Other, Please Specify	_____	_____	_____	_____
NOTE: If Hazardous Substance Block is Checked, Attach Material Safety Data Sheets (MSDS)	b. Hazardous Substance	☐	☐	☐	☐
	Name of Principal CERCLA Substance	_____	_____	_____	_____
	AND				
	Chemical Abstract Service (CAS) No.	_____	_____	_____	_____
	c. Unknown	☐	☐	☐	☐
Closure Method (Check Only One)	a. Removal	☒	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-In-Service	☐	☐	☐	☐
Partial System Closure (Yes or No)		no			

DATE OF TANK CLOSURE (Month/Day/Year)					
Tank Registration Number					
Estimated Total Capacity (Gallons)					
Substance(s) Stored Throughout Operating Life of Tank (Check All That Apply)	a. Petroleum				
	Unleaded Gasoline	☐	☐	☐	☐
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☐	☐	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☐	☐	☐	☐
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☐	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Other, Please Specify	_____	_____	_____	_____
NOTE: If Hazardous Substance Block is Checked, Attach Material Safety Data Sheets (MSDS)	b. Hazardous Substance	☐	☐	☐	☐
	Name of Principal CERCLA Substance	_____	_____	_____	_____
	AND				
	Chemical Abstract Service (CAS) No.	_____	_____	_____	_____
	c. Unknown	☐	☐	☐	☐
Closure Method (Check Only One)	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-In-Service	☐	☐	☐	☐
Partial System Closure (Yes or No)					

Yes N/A

11. Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) including use of tanks: The current and only known use of this tank was as a fuel supply tank for military equipment at the state armory in Kane, PA. The tank originally was reported as a diesel tank it does however hold gasoline.

☒ 12. A site location and sampling map of the site, drawn to scale, is attached. See page 11 of 11. (not to scale)

☒ 13. Original, color photographs of the closure process are attached (i.e, inside of excavation/piping runs, pit water, tanks showing condition).

☒ 14. An amended "Registration of Storage Tanks" form was submitted to the DEP, Bureau of Water Quality Management, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.

Date: 4/3/97

☐ ~~☒~~ 15. If a reportable release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.

Date: _____ Office: _____

Yes N/A

☒ ☐ 16. If tanks were cleaned on-site:

a. Briefly describe the disposition of usable product: Approximately 30 gallons of reusable product was taken by Hazleton Oil Salvage for reuse as a motor fuel.

b. Briefly describe the disposal of unusable product, sludges, sediments, and wastewater generated during cleaning. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal): No other product was present except as noted above in item 16a.

c. If tank contents were determined/deemed to be hazardous waste, provide: N/A

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

☐ ☒ 17. If tanks were removed from the site for cleaning:

a. Provide the name and permit number of the processing, treatment, storage or disposal facility performing the tank cleaning: _____

b. If tank contents were determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

18. Briefly describe the disposition of tanks/piping (Attach documentation of proper disposal): The entire tank system and its piping were removed from the excavation cleaned and disposed of at Louis Cohen & Son, Inc. as scrap metal.

☐ ☒ 19. If contaminated soil is excavated:

a. Briefly describe the disposition and amount _____ (tons) of contaminated soil. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):

b. If contaminated soil is determined/deemed to be hazardous waste, provide:

(1) Generator ID Number: _____

(2) Licensed Hazardous Waste Transporter Name and ID Number: _____

Yes N/A

☒ ☐ 20. Briefly describe the disposition of and amount 6 (tons) of uncontaminated soil (attach analyses): The clean soils around the tank excavation were used as backfill materials.

I, John Fronko (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S.§4904 (relating to unsworn falsification to authorities) that I am the owner of the above referenced storage tank(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Signature of Tank Owner

Date

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 42-09810

Yes	N/A		
		1.	Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil: Soils removed from the excavation area were placed adjacent to the excavation on the facility property.
		2.	Briefly describe the method of piping system closure and the closure of the piping systems including the quantity and condition of the piping: The piping was 2" metal from the tank to the pump island about 15' away. All piping was removed as part of the closure.
		3.	Briefly describe the condition of the tanks and any problems encountered during tank removal: The tank appeared to be in very good condition and there were no holes found in the tank or piping system.
		4.	Briefly describe the method used to purge the tanks of and monitor for explosive vapors: The tank was purged using nitrogen gas. The nitrogen was introduced in the tank to purge the tank of its oxygen content.
☒	☐	5.	If tanks were cleaned on-site:
			a. Briefly describe the tank cleaning process: After purging the tank ends were drilled into and then cut out using a saws-all. Once cut the remaining product was removed and the tank cut with torches.
			b. If subcontracted, name and address of company that performed the tank cleaning:
☐	☒	6.	If tanks were closed-in-place, briefly describe the tank fill material:
☐	☒	7.	If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

SECTION II. (continued)

I, David W. Johns (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S.§4904 (relating to unsworn falsification to authorities) that I am the certified installer who performed the tank handling activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section II) is true, accurate and complete to the best of my knowledge and belief.

David W. Johns
Signature of Certified Installer

4/9/97
Date

4382
Installer Certification Number

1058
Company Certification Number

Environmental Restoration, Inc.
Company Name

191 Courtdale AVenue
Street

Courtdale, PA 18704
City/Town, State, Zip

(717) 331-8191
Phone

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration # 001 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 42-09810

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A" if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).
Length of piping N/A feet

C. TANK SYSTEM REMOVED FROM THE GROUND

1). Was obvious contamination observed while excavating?

☒ **NO** ----------→ Conduct confirmatory sampling----------→ See end of this section for options on submission and maintenance of closure records----------→ Do not complete item C.2. below.

☐ **YES** ----------→ Report release to DEP within 2 hours ----------→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills): _____

_____

_____ ----------→ Complete item C.2. below.

2). Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ **YES** --------→ Remove or remediate contaminated soil ----------→ Conduct confirmatory sampling --------→ See end of this section for options on submission and maintenance of closure records ---------→ Call Indemnification Fund (717-787-0763).

☐ **NO** --------→ Continue interim remedial actions ---------→ See end of this section for options on submission and maintenance of closure records ----------→ Call Indemnification Fund (717-787-0763).

D. TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE

Was obvious contamination observed during sampling, boring or assessing water depths?

☒ **NO** --------→ Conduct confirmatory sampling ---------→ See end of this section for options on submission and maintenance of closure records.

☐ **YES** ---------→ Report release to DEP within 2 hours ---------→ Describe contamination observed and likely sources (i.e., tank, piping, dispenser, spills, overfills): _____

_____

_____ ---------→

Continue with corrective action ---------→ See end of this section for options on submission and maintenance of closure records ---------→ Call Indemnification Fund (717-787-0763).

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the UST system out of service;
(b) By the current owners and operators of the UST system site; or
(c) By mailing these records to the implementing agency if they cannot be maintained at the closed facility.

At least one option must be chosen. If option (c) is chosen, the closure report form should be sent to the DEP regional office responsible for the county in which the tank was located.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the CAP regulation requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, David W. Johns (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S.§4904 (relating to unsworn falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

David W. Johns
Signature of Person Performing Site Assessment

4/9/97
Date

General Manager
Title of Person Performing Site Assessment

Environmental Restoration, Inc.
Name of Company Performing Site Assessment

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information

(Attachment for Section III.)

Facility ID Number 42-09810

1997

Sample I.D. (See diagram)	Parameter	Analytical Method	Media	Result (units) ug/kg	Detection Limit (units) ug/kg	Date Sample Taken	Date Sample Analyzed
97-002-T1	Benzene	8021	Soil	71	290	3/26	4/2
	Ethyl-Benzene	8021	Soil	57	290	3/26	4/2
	Isoprpyl Benzene	8021	Soil	61	290	3/26	4/2
	MTBE	8021	Soil	71	290	3/26	4/2
	Napthalene	8021	Soil	45	2900	3/26	4/2
	Toluene	8021	Soil	77	290	3/26	4/2
	Xylenes	8021	Soil	190	290	3/26	4/2
	Benzo(a) pyrene	8270	Soil	ND	380	3/26	4/
	Benzo (a) Anthracene	8270	Soil	ND	380	3/26	4/
97-002-T1	Benzene	8021	Soil	73	300	3/26	4/2
	Ethyl Benzene	8021	Soil	60	300	3/26	4/2
	Isopropyl Benzene	8021	Soil	63	300	3/26	4/2
	MTBE	8021	Soil	67	300	3/26	4/2
	Naphthalene	8021	Soil	42	3000	3/26	4/2
	Toluene	8021	Soil	77	300	3/26	4/2
	Xylenes	8021	Soil	190	300	3/26	4/2
	Benzo(a) Pyrene	8270	Soil	ND	390	3/26	4/7
	Benzo(a) anthracene	8270	Soil	ND	390	3/26	4/7
97-002-L1	Benzene	8021	Soil	73	300	3/26	4/2
	Ethyl Benzene	8021	Soil	57	300	3/26	4/2
	Isoprpyl Benzene	8021	Soil	63	300	3/26	4/2
	MTBE	8021	Soil	90	300	3/26	4/2
	Napthalene	8021	Soil	44	3000	3/26	4/2
	Toluene	8021	Soil	77	300	3/26	4/2

Site Location and Sampling Map - Use this page or suitable facsimile to provide a large scale map of the site where tanks were closed. Scales between 1"= 10 and 1"=100 feet frequently work out well. Include the following information as each applies to the site: facility name and I.D., county, township or borough, property boundaries or area of interest, buildings, roads and streets with names or route numbers, utilities, location and ID number of storage tanks removed including piping and dispensers, soil stockpile locations, excavations or other locations of product recovery, north arrow, approximate map scale and legend. Also show depth and location of samples with sample ID numbers cross-referenced to the same ID numbers shown on Page 10 of 11.

Facility Name and ID: State Armory Board Kane Armory 42-09810

County: Mckean

Township/Borough: Kane, PA

Please Refer to attached drawing

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF LAND RECYCLING AND WASTE MANAGEMENT

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Sample/Analysis Information
(Attachment for Section III.)
Facility ID Number _____

1997

Sample I.D. (See diagram)	Parameter	Analytical Method	Media	Result (units) ug/kg	Detection Limit (units) ug/kg	Date Sample Taken	Date Sample Analyzed
97-002-L1	Xylenes	8021	Soil	190	300	3/26	4/2
	Benzo(a) Pyrene	8270	Soil	ND	390	3/26	4/7
	Benzo(a) Anthracene	8270	Soil	ND	390	3/26	4/7
97-002-P1	Benzene	8021	Soil	73	290	3/26	4/2
	Ethyl Benzene	8021	Soil	59	290	3/26	4/2
	Isopropyl Benzene	8021	Soil	62	290	3/26	4/2
	MTBE	8021	Soil	80	290	3/26	4/2
	Naphthalene	8021	Soil	46	2900	3/26	4/2
	Toluene	8021	Soil	77	290	3/26	4/2
	Xylenes	8021	Soil	190	290	3/26	4/2
	Benzo(a) pyrene	8270	Soil	ND	390	3/26	4/7
	Benzo(a) Anthracene	8270	Soil	ND	390	3/26	4/7

Antech Ltd.
Chain of Custody Record

Ship To:
Antech Ltd.
One Triangle Drive
Export, PA 15632
(412) 733-1161
FAX (412) 327-7793

For Laboratory Use Only
Laboratory Project No.:_____

Project Name: DEPT. OF MILITARY AFFAIRS Project No.: 97-002 Sampler: DAVID JOHNS (Printed Name) (Signature)

Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
[illegible] DAVID L. JOHNS	3-27-97	1:00 PM			
Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time
Relinquished By: (Signature and Printed Name)	Date	Time	Received By: (Signature and Printed Name)	Date	Time

Antech Quote ID No.:_____
Antech Contact Name:_____
Client Purchase Order No.: 97-002
Method of Shipment:_____
Shipment ID:_____

Sample ID Number	Sample Description: Date	Time	Description	Grab	Composite	Circle Bottle Size: Chemistry (500 ml, 1000 ml)	Nutrient (250 ml, 500 ml)	Total Metals (250 ml, 500 ml)	Dissolved Metals (250 ml, 500 ml)	Cyanide (1000 ml)	Phenolics (1000 ml)	TOC (125 ml)	TOX (250 ml)	Sulfide (500 ml)	Radiological (1000 ml)	Oil & Grease (1000 ml)	TPHC (1000 ml)	VOA (40 ml)	Organics (1000 ml, 2.5 liter)	Bacteriological (125 ml)	Widemouth Jar, Soil (250 ml, 500 ml, 1000 ml)	VOA Septa Jar, Soil (125 ml)	Other (Please Specify): Chlorine Present	Chlorine Free	No. of Containers	For Laboratory Use Only: Laboratory ID
97-002-T1	3-26-97	10:[illegible]	Soil	X																			X		2	
97-002-T2	3-26-97	[illegible]	Soil	X																			X		2	
97-002-L1	3-26-97	[illegible]	Soil	X																			X		2	
97-002-M1	3-26-97	[illegible]	Soil	X																			X		2	

Please Check when Monitoring Samples are Collected:
☐ Residual Chlorine Present
☐ Residual Chlorine Not Present

Please Check when VOA Vials are Collected:
☐ Free of Bubbles ☐ Bubbles Present
(Specify in Special Instructions/Comments)

Special Instructions/Comments: PLEASE FAX RESULTS TO [illegible] (717) 221-1194 [illegible] FOLLOW WITH HARD COPY.

Sample Return/Disposal:
☐ Return to Client
☒ Disposal by Antech

Results To:
Client Name: [illegible]
Company: ENVIRONMENTAL PROTECTION INC.
Address: 111 [illegible]
[illegible]

Invoice To:
Client Name: ENVIRONMENTAL PROTECTION INC.
Company:_____
Address: 111 [illegible]
[illegible]

For Laboratory Use Only:
Sample Condition Upon Request:_____
Cooler Temperature Upon Receipt:_____
Was Temperature Vial Sent With Cooler? YES_____ NO_____

Table 1
Volatile Organic Analyses
EPA Method 8021(1)
Environmental Restoration, Inc.
Antech Ltd. Project No. 97-1250
Soil Characterization; 97-002
Dept. of Military Affairs

Parameter	CAS(2) Number	Analyst	Analysis Date	Units	Sample Identification 9703-2267 97-002-T1 (3/26/97) Result	Detection
Benzene	71-43-2	RLR	04/02/97	µg/kg	71	290
Ethylbenzene	100-41-4	RLR	04/02/97	µg/kg	57	290
Isopropyl benzene	98-82-8	RLR	04/02/97	µg/kg	61	290
Methyl-Tertiary-Butyl-Ether	1634-04-4	RLR	04/02/97	µg/kg	71	290
Naphthalene	91-20-3	RLR	04/02/97	µg/kg	45	2900
Toluene	108-88-3	RLR	04/02/97	µg/kg	77	290
Xylenes (Total)	1330-20-7	RLR	04/02/97	µg/kg	190	290

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)CAS - Chemical Abstracts Services.

Table 6
Semivolatile Organic Analyses
EPA Method 8270(1)
Environmental Restoration, Inc.
Antech Ltd. Project No. 97-1250
Soil Characterization; 97-002
Dept. of Military Affairs

Parameter	CAS(2) Number	Analyst	Analysis Date	Units	Sample Identification 9703-2267 97-002-T1 (3/26/97) Result	Detection
Benzo(a)pyrene	50-32-8	HMH	04/07/97	µg/kg	ND(3)	380
Benzo(a)anthracene	56-55-3	HMH	04/07/97	µg/kg	ND	380

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)CAS = Chemical Abstracts Services.
(3)ND = None detected.

Table 2
Volatile Organic Analyses
EPA Method 8021(1)
Environmental Restoration, Inc.
Antech Ltd. Project No. 97-1250
Soil Characterization: 97-002
Dept. of Military Affairs

Parameter	CAS(2) Number	Analyst	Analysis Date	Units	Sample Identification 9703-2268 97-002-T2 (3/26/97) Result	Detection
Benzene	71-43-2	RLR	04/02/97	µg/kg	73	300
Ethylbenzene	100-41-4	RLR	04/02/97	µg/kg	60	300
Isopropyl benzene	98-82-8	RLR	04/02/97	µg/kg	63	300
Methyl-Tertiary-Butyl-Ether	1634-04-4	RLR	04/02/97	µg/kg	67	300
Naphthalene	91-20-3	RLR	04/02/97	µg/kg	42	3000
Toluene	108-88-3	RLR	04/02/97	µg/kg	77	300
Xylenes (Total)	1330-20-7	RLR	04/02/97	µg/kg	190	300

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)CAS - Chemical Abstracts Services.

Table 7
Semivolatile Organic Analyses
EPA Method 8270(1)
Environmental Restoration, Inc.
Antech Ltd. Project No. 97-1250
Soil Characterization; 97-002
Dept. of Military Affairs

					Sample Identification 9703-2268 97-002-T2 (3/26/97)	
Parameter	CAS(2) Number	Analyst	Analysis Date	Units	Result	Detection
Benzo(a)pyrene	50-32-8	HMH	04/07/97	µg/kg	ND(3)	390
Benzo(a)anthracene	56-55-3	HMH	04/07/97	µg/kg	ND	390

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)CAS = Chemical Abstracts Services.
(3)ND = None detected.

Table 3
Volatile Organic Analyses
EPA Method 8021(1)
Environmental Restoration, Inc.
Antech Ltd. Project No. 97-1250
Soil Characterization; 97-002
Dept. of Military Affairs

Parameter	CAS(2) Number	Analyst	Analysis Date	Units	Sample Identification 9703-2269 97-002-L1 (3/26/97) Result	Detection
Benzene	71-43-2	RLR	04/02/97	µg/kg	73	300
Ethylbenzene	100-41-4	RLR	04/02/97	µg/kg	57	300
Isopropyl benzene	98-82-8	RLR	04/02/97	µg/kg	63	300
Methyl-Tertiary-Butyl-Ether	1634-04-4	RLR	04/02/97	µg/kg	90	300
Naphthalene	91-20-3	RLR	04/02/97	µg/kg	44	3000
Toluene	108-88-3	RLR	04/02/97	µg/kg	77	300
Xylenes (Total)	1330-20-7	RLR	04/02/97	µg/kg	190	300

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)CAS - Chemical Abstracts Services.

Table 8
Semivolatile Organic Analyses
EPA Method 8270(1)
Environmental Restoration, Inc.
Antech Ltd. Project No. 97-1250
Soil Characterization; 97-002
Dept. of Military Affairs

Parameter	CAS(2) Number	Analyst	Analysis Date	Units	Sample Identification 9703-2269 97-002-L1 (3/26/97) Result	Detection
Benzo(a)pyrene	50-32-8	HMH	04/07/97	µg/kg	ND(3)	390
Benzo(a)anthracene	56-55-3	HMH	04/07/97	µg/kg	ND	390

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)CAS - Chemical Abstracts Services.
(3)ND - None detected.

Table 4
Volatile Organic Analyses
EPA Method 8021(1)
Environmental Restoration, Inc.
Antech Ltd. Project No. 97-1250
Soil Characterization; 97-002
Dept. of Military Affairs

Parameter	CAS(2) Number	Analyst	Analysis Date	Units	Sample Identification 9703-2270 97-002-P1 (3/26/97) Result	Detection
Benzene	71-43-2	RLR	04/02/97	µg/kg	73	290
Ethylbenzene	100-41-4	RLR	04/02/97	µg/kg	59	290
Isopropyl benzene	98-82-8	RLR	04/02/97	µg/kg	62	290
Methyl-Tertiary-Butyl-Ether	1634-04-4	RLR	04/02/97	µg/kg	80	290
Naphthalene	91-20-3	RLR	04/02/97	µg/kg	46	2900
Toluene	108-88-3	RLR	04/02/97	µg/kg	77	290
Xylenes (Total)	1330-20-7	RLR	04/02/97	µg/kg	190	290

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)CAS = Chemical Abstracts Services.

Table 9
Semivolatile Organic Analyses
EPA Method 8270(1)
Environmental Restoration, Inc.
Antech Ltd. Project No. 97-1250
Soil Characterization; 97-002
Dept. of Military Affairs

Parameter	CAS(2) Number	Analyst	Analysis Date	Units	Sample Identification 9703-2270 97-002-P1 (3/26/97) Result	Detection
Benzo(a)pyrene	50-32-8	HMH	04/07/97	µg/kg	ND(3)	390
Benzo(a)anthracene	56-55-3	HMH	04/07/97	µg/kg	ND	390

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)CAS = Chemical Abstracts Services.
(3)ND = None detected.

Table 5
Volatile Organic Analyses
RPA Method 8021(1)
Environmental Restoration, Inc.
Antech Ltd. Project No. 97-1250
Soil Characterization; 97-002
Dept. of Military Affairs

Parameter	CAS(2) Number	Analyst	Analysis Date	Units	Sample Identification 9703-2271 Method Blank (3/31/97) Result	Detection
Benzene	71-43-2	RLR	04/02/97	µg/kg	ND(3)	250
Ethylbenzene	100-41-4	RLR	04/02/97	µg/kg	ND	250
Isopropyl benzene	98-82-8	RLR	04/02/97	µg/kg	ND	250
Methyl-Tertiary-Butyl-Ether	1634-04-4	RLR	04/02/97	µg/kg	ND	250
Naphthalene	91-20-3	RLR	04/02/97	µg/kg	ND	2500
Toluene	108-88-3	RLR	04/02/97	µg/kg	ND	250
Xylenes (Total)	1330-20-7	RLR	04/02/97	µg/kg	ND	250

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)CAS = Chemical Abstracts Services.
(3)ND = None detected.

Table 10
Semivolatile Organic Analyses
EPA Method 8270(1)
Environmental Restoration, Inc.
Antech Ltd. Project No. 97-1250
Soil Characterization; 97-002
Dept. of Military Affairs

Parameter	CAS(2) Number	Analyst	Analysis Date	Units	Sample Identification 9703-2271 Method Blank (3/31/97) Result	Detection
Benzo(a)pyrene	50-32-8	HMH	04/07/97	µg/kg	ND(3)	330
Benzo(a)anthracene	56-55-3	HMH	04/07/97	µg/kg	ND	330

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)CAS = Chemical Abstracts Services.
(3)ND = None detected.

Original-Not Negotiable

Straight Bill of Lading Short Form

Shipper's No. _____

Environmental Restoration, Inc.
(Name of Carrier)

Carrier's No. _____

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of the Bill of Lading. Dept. of Military Affairs,As
at _____ 19 From Street, Kane, PA 16735

the property described below, in apparent good order, except as noted (contents and conditions of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (t word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination on its own route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destinati and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill Lading set forth (1) in Official, Southern, Western and Illinois Freight Classification in effect on the date thereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tar if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs t transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to Hazleton Oil Salvage, Ltd.

(Mail or street address at consignee—For purposes of notification onl

Destination Hazleton State PA Zip 18201 County Luzerne Delivery Address ★ Rt 309

★ To be filled in only when shipper desires and governing tariffs provide for delivery there

Route 309

Delivering Carrier Environmental Restoration, Inc. Car or Vehicle Initials _____ No. _____

No. Packages	Kind of Package, Description of Articles, Special Marks, and Exceptions	*WEIGHT (Subject to Correction)	Class or Rate	Check Column
1	55 Gallon DOT approved Drum containing			
	Approximately 30 Gallons of Gasoline			
	for reuse.			

Subject to Section 7 of Conditions applicable bill of lading, if this shipment is be delivered to the consignee witho recourse on the consignor, the consignor sh sign the following statement:
The carrier shall not make delivery of t shipment without payment of freight and other lawful charges.

(Signature of Consignor)

If charges are to be prepaid, write or stam here; "To be Prepaid."

Received $ _____
to apply in prepayment of the charges on t property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only t amount prepaid.)

Charges Advanced:

$ _____

* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

† The fibre boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of the Consolidated Freight Classification.

† Shipper's imprint in lieu of stamp; not part of Bill of Lading approved by the Int state Commerce Commission.

Ronald Eckert Shipper, Per _____ Agent, Per _____

Permanent post-office address of shipper, _____

1

WilsonJones • Carbonless • MADE IN U
44-301 Triplicate

HAZLETON OIL SALVAGE LTD.

P.O. Box No. 2339 Hazleton, PA 18201
Phone# 800-458-3496 EPA#PA0000101816

H.O.S. LTD. TAKES FULL RESPONSIBILIT
For The Pickup, Transportation And Dispositio
Of All Waste Effluent Accepted By Our Compan
YOU CAN TRUST US WITH *ALL* YOUR DISPOSAL NEE

WORK ORDER # 025396

Customer PO # _____

Phone _____

Bill To: ERI

Address _____

City; State _____ Zip _____

Date 3/27/97 Driver / Vehicle

Job Site

Address Hill State Armory City

Time Arrived _____ Time Finished _____

QUANTITY	UNITS	*IF PRICED: USE AS YOUR INVOICE*	UNIT PRICE	TOTALS
30	gal	Gasoline for use, delivered		
TANK CLEANING	√ IF YES	EXCESS TANK TIME: hrs. min.		
Driver Signature if COD		√ IF CASH / CHECK NUMBER / NET 15 DAYS	*Total:*	

GENERATOR CERTIFIES HIS PRODUCT AS NON-HAZARDOUS

Accepted by: *SIGN* / Bill Brink / Accepted by: *PRINT* / _____ / Representative of: / _____

COHEN
RECYCLING RESOURCES

Louis Cohen & Son, Inc. P.O. Box 1004 Fellows Avenue Wilkes-Barre, PA 18703

WILKES-BARRE • (717) 823-0113 SCRANTON • (717) 655-7317 • FAX (717) 823-0827

Member Institute of Scrap Recycling Industries, Inc.

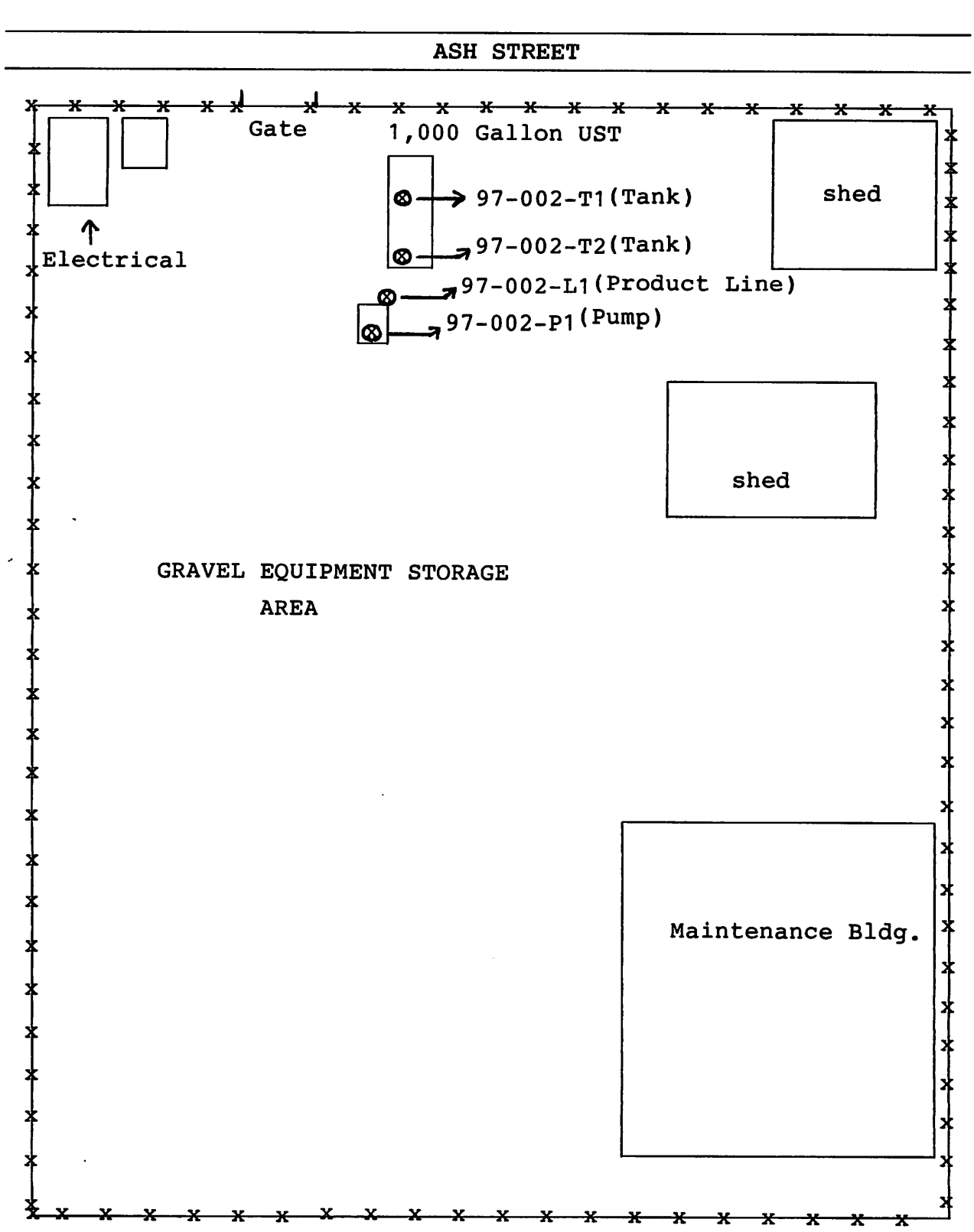
PURCHASED FROM: Environmental Restoration DATE: 3/27/97

ADDRESS/CITY/STATE: No.

DESCRIPTION	UNITS	GROSS	TARE	NET	UNIT PRICE	AMOUNT
Steel STC 010	NV	7360	5720	1340	$79/GT	41 87
Steel STL 030	NV	3420	6640	780	$160/GT	20 89
Rec'd By: MS TOTALS						

THANK YOU

DEPARTMENT OF MILITARY AFFAIRS
UNDERGROUND STORAGE TANK LAYOUT
FOR KANE, PENNSYLVANIA FACILITY



	Statewide Health Standards (SHS) for Organic Regulated Substances in Soil, Direct Contact Values			***SAMPLE ID***			
ANALYTE	**Residential**	**Non-Residential 0-2' bgs**	**Non-Residential 2-15' bgs**	97-002-T1	97-002-T2	97-002-L1	97-002-P1
Benzene	57,000	290,000	330,000	71	73	73	73
Toluene	10,000,000	10,000,000	10,000,000	77	77	77	77
Ethylbenzene	180,000	890,000	1,000,000	57	60	57	59
Xylenes	1,900,000	8,000,000	9,100,000	190	190	190	190
Isopropylbenzene (Cumene)	7,700,000	10,000,000	10,000,000	61	63	63	62
Naphthalene	160,000	760,000	190,000	45	42	44	46
MTBE	1,700,000	8,600,000	9,900,000	71	67	90	80

Notes:

All concentrations are in micrograms per kilogram (µg/kg).

Laboratory anlaytical results for benzo(a)pyrene and benzo(a)anthracene were reported as non-detect (ND), and, so, were not included in this table. The laboratory detection limits for these compounds were less than their respective SHS.

All soil samples were collected on 26 March 1997.

Appendix E

Kane RC Asbestos Containing Materials Survey Summary

ASBESTOS IDENTIFICATION SURVEY
MANAGEMENT PLAN

Task Order #: 97003PSI
PSI Project No. 816-7A018

Prepared For:

COMMONWEALTH OF PENNSYLVANIA
Department of General Services
Asbestos Control Office
401 North Office Building
Harrisburg, PA 17125

Kane Armory
Kane Borough, PA

Installation ID# 00360

Armory Building
00360-001

Performed By:

PROFESSIONAL SERVICE INDUSTRIES, INC
Pittsburgh Testing Laboratory Division
850 Poplar Street
Pittsburgh, PA 15220

David A. Christner
Staff Engineer
Environmental Services
(412) 922-4000, EXT. 242

Joseph Kuchnicki
Manager
Environmental Services
(412) 922-4000, EXT. 380

Table of Contents

SECTION 1 -- EXECUTIVE SUMMARY

Professional Service Industries (PSI), Inc., Pittsburgh Testing Laboratory Division, performed an asbestos building inspection at the Kane Armory, McKean County, Pennsylvania, (Installation ID# 00360). This management plan specifically relates to the Armory Building.

The Armory Building was constructed in 1922. The structure is a brick building encompassing 13,984 square feet. The building is used as an office and training facility. The building has three floors. The Power Generator Tools Room and the Arms Storage Room were inaccessible.

The roof is of the Built-up asphalt variety. The roof should be assumed to be asbestos containing until such time as the roofing materials can be sampled and the actual asbestos content determined.

The inspection was performed on March 3, 1997 by Mr. David Christner of PSI's Pittsburgh Asbestos Office. Mr. Christner is both an EPA accredited and Pennsylvania Department of Labor and Industry (PA DOLI) certified Building Inspector and Management Planner and performed all aspects of the inspection which included, but was not limited to, the collection of bulk samples; the assessment of suspect asbestos containing materials; and the collection of photographs.

The onsite efforts were coordinated by Mr. Ron Manula and Sargent Kiminich of the Department of Military and Veterans Affairs.

The samples obtained during this inspection were analyzed for asbestos at three (3) laboratories.

The primary laboratory for the initial analyses was:

Professional Service Industries, Inc.
850 Poplar Street
Pittsburgh, PA 15220
Joel Davidson, Manager

The QA/QC laboratory that performed the ten percent re-analyses was:

Allegheny Asbestos Analysis, Inc.
100 Rosslyn Road
Carnegie, PA 15106
Tammy J. Seiler, Owner

The QA/QC laboratory that performed the discrepancy analyses was:

Volz Environmental Services
1200 Gulf Lab Road
Pittsburgh, PA 15238
George Skarupa, Manager

A management plan was prepared for the Kane Armory and was based on the results of the inspection. The management plan is a guidance document that is to be used and updated by building personnel until all Asbestos-Containing Materials (ACM's) have been removed. The plan serves three purposes. Primarily, it informs building occupants of the location and condition of asbestos containing materials. The plan also provides recommendations for particular "response actions" , and finally, it provides a framework that can be built upon as the response actions take place and conditions of materials change. The plan was prepared by Mr. David Christner. The plan was reviewed in accordance with PSI's Senior Author Review Program by Mr. Joseph Kuchnicki.

1.1 Summary of Findings

Prior to the onsite inspection, PSI performed a search of existing building records, plans, and specifications for the subject site. This search was performed at the DGS Central Records Building in Harrisburg, PA, and at the Kane Armory. The record search was performed in order to facilitate the onsite inspection as well as to document proprietary information regarding specific asbestos products, where possible. The record search yielded the following information:

Documents relating to the former use of the facility were reviewed on March 21, 1997.
No information was discovered relevant to the specifying or installation of Asbestos Containing Materials.

Armory Building - 00360-001

The following Asbestos Containing Materials(ACM) were identified in the Armory Building. For the purposes of this report, ACM is defined as any material or product containing asbestos in any amount greater than one percent.

Material	Condition	Recommended Action
Mud Fitting 10" Fiberglass Line	Good	O&M
Mud Fitting Emergency Gen. Exh. Insul.	Good	O&M
3" Aircell Pipe Insulation	Damaged	Repair
9"X9" Brown w/ White & Red Fl. Tile	Good	O&M
Window Caulking	Good	O&M
9" X 9" Green w/ White & Black F.T.	Good	O&M
Black Mastic Under 9" X 9" Green F.T.	Good	O&M
6" Aircell Pipe Insulation	Damaged	O&M
Mud Ftg. 6" Aircell Line	Good	O&M
9" X 9" Tan w/ White & Brown F.T.	Good	O&M
Black Mastic Under 9" X9" Tan F.T.	Good	O&M
4" Aircell Pipe Insulation	Damaged	Repair
Mud Ftg. 4" Aircell Line	Damaged	Repair
Mud Ftg. 3" Aircell Line	Damaged	Repair

The recommended response action for this ACM is listed in Table 1 and is based on the amount of damage and potential for disturbance. The ACM found to be in good condition and ACM that has been repaired should be incorporated into an Operations and Maintenance (O&M) program. In addition materials recommended for repair should also be placed on the O&M Program until such time as the response action can be implemented.

The following materials were determined by Polarized Light Microscopy (PLM) to not be asbestos containing materials (ACM's) per the protocol established for this project:

Material

Hard Plaster - Skim Coat

Hard Plaster - Base Coat

Plaster Coat Over Concrete

Boiler Room Ceiling

1'X1' Black w/ Gray Smudges Floor Tile

Brown Mastic Under 1'X1' Black w/ Gray Smudges Fl. Tile

1'X1' Black w/ White Floor Tile

Brown Mastic Under 1'X1'Black w/ White Fl. Tile

Drywall Ceiling w/o Joint Compound

Mud Ftg. 6" Fiberglass Line

Black Mastic Under 9"X9" Brown F.T.

Window Glazing

Black Mastic Under 9"'X 9" Tan w/ Red & White Fl. TileF.T.

9" X 9" Tan w/ Red & White Floor Tile

END OF SECTION

1.2 Cost Estimate

A cost estimate is provided for the recommended response action in Table 1. Where removal was not the recommended response action, the estimated cost to remove the affected material in the functional space is still provided. The basis of the cost estimation is the cost per linear foot or square foot using an asbestos abatement contractor for the removal and repair work and an in-house maintenance staff for the Operations and Maintenance work. The cost per unit may vary given market conditions and actual scope of abatement, which can not be determined at this point.

An Operations & Maintenance (O&M) program is defined as a program of training, work practices, and periodic surveillance to maintain ACM in good condition; insure clean-up of previous asbestos containing debris, and prevent further release by minimizing and controlling ACM disturbance or damage.

Any disturbance to in-place asbestos materials, whether planned, as in the maintenance of a building system, or unplanned as in the accidental contact with in-place materials causing a fiber release of any magnitude, will require specialized training, procedures, and handling as part of the O&M program. The O&M program will also require periodic inspections of the ACM to document changes in the condition of previously assessed materials, updating the management plan, documenting abatement activities and maintaining employees' level of training, PA DOLI certification, physical examination and exposure records. The cost estimate for an O&M program is based on maintaining an in-house staff capable of handling: routine maintenance with ACM present; cleanup of previously damaged ACM debris; periodic inspections; recordkeeping; and, limited asbestos removal and repair for short term, limited duration maintenance operations.

The cost estimate for O&M is separated into an initial start-up (fixed) cost, annual recurring cost, and a variable cost dependent on the amount of ACM requiring O&M actions until such time as the ACM is removed.

Fixed start-up costs for the Operations and Maintenance include the following:

Item (Initial)	Expense
Training - (two persons, USEPA Asbestos Worker Course)	$ 790.00
Certifications- (as required by PA DOLI) two persons	$ 100.00
Physical Examinations - two persons	$ 800.00
Powered Air Purifying Respirators - two	$1000.00
HEPA Equipped Vacuum Cleaner	$ 900.00
Expendable Items:	
Wettable Lag Cloth (repairs), 75 SF	$ 75.00
Clear Polyethylene Sheeting, 6 mil 12'x100' roll	$ 30.00
2''x 60 yds., duct tape, 1 case	$ 75.00
Disposable Coveralls (tyvek® or equivalent)	$ 75.00
Disposable Scrub Pads, box	$ 5.00
6 mil Asbestos Waste Disposal Bags	$ 40.00
Adhesive Backed Address Labels (per NESHAPS)	$ 8.00
Disposable Towels, box	$ 40.00
Respirator Disinfectant, gal	$ 15.00
Glovebags, case of 25	$ 100.00
Smoke tubes, package	$ 40.00
Total Start-up Cost	$ 4095.00

Annual Recurring Costs:

Item	Expense
Asbestos Removal Worker Refresher Course (two persons)	$ 180.00
Certification renewal (two persons)	$ 100.00
Physical Examinations (two persons)	$ 400.00
Total Annual Recurring Cost	$ 680.00

Variable cost include: periodic surveillance of ACM condition; updating the management plan; documenting O&M activities and employee exposures. The variable costs are a function of quantity and type ACM and are shown in Table 1 for each homogeneous area in each functional space.

The estimated cost of the recommended response actions is $1370.00. The cost for total removal is estimated to be $ 18,666.00 and replacement for $ 32,087.00.

APPENDIX A

BUILDING DIAGRAMS

SAMPLE LOCATION MAP KEY

(+) = Sample was analyzed positive for asbestos

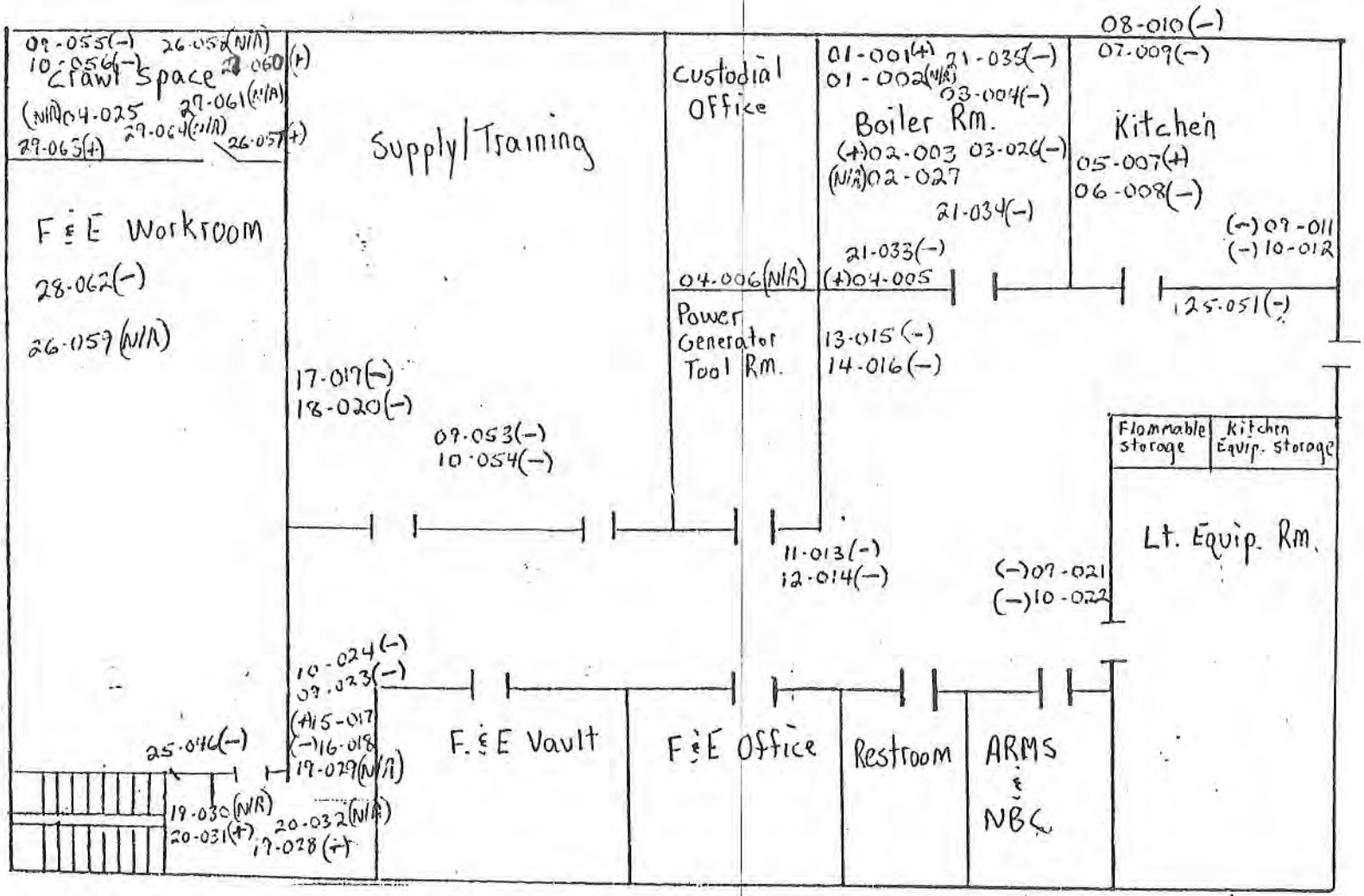
(-) = Sample was analyzed negative for asbestos

N/A = Sample was not analyzed. A prior sample for this homogeneous area was analyzed positive for asbestos. Therefore, the material is considered positive and the remaining samples are not analyzed.

xx-xxx = The first two digits represent the homogeneous area. The last three digits represent the individual sample number.

The Installation ID. and building number are given with the sample map ID.(i.e. SL-)

Kane: Armory Building
00360-001

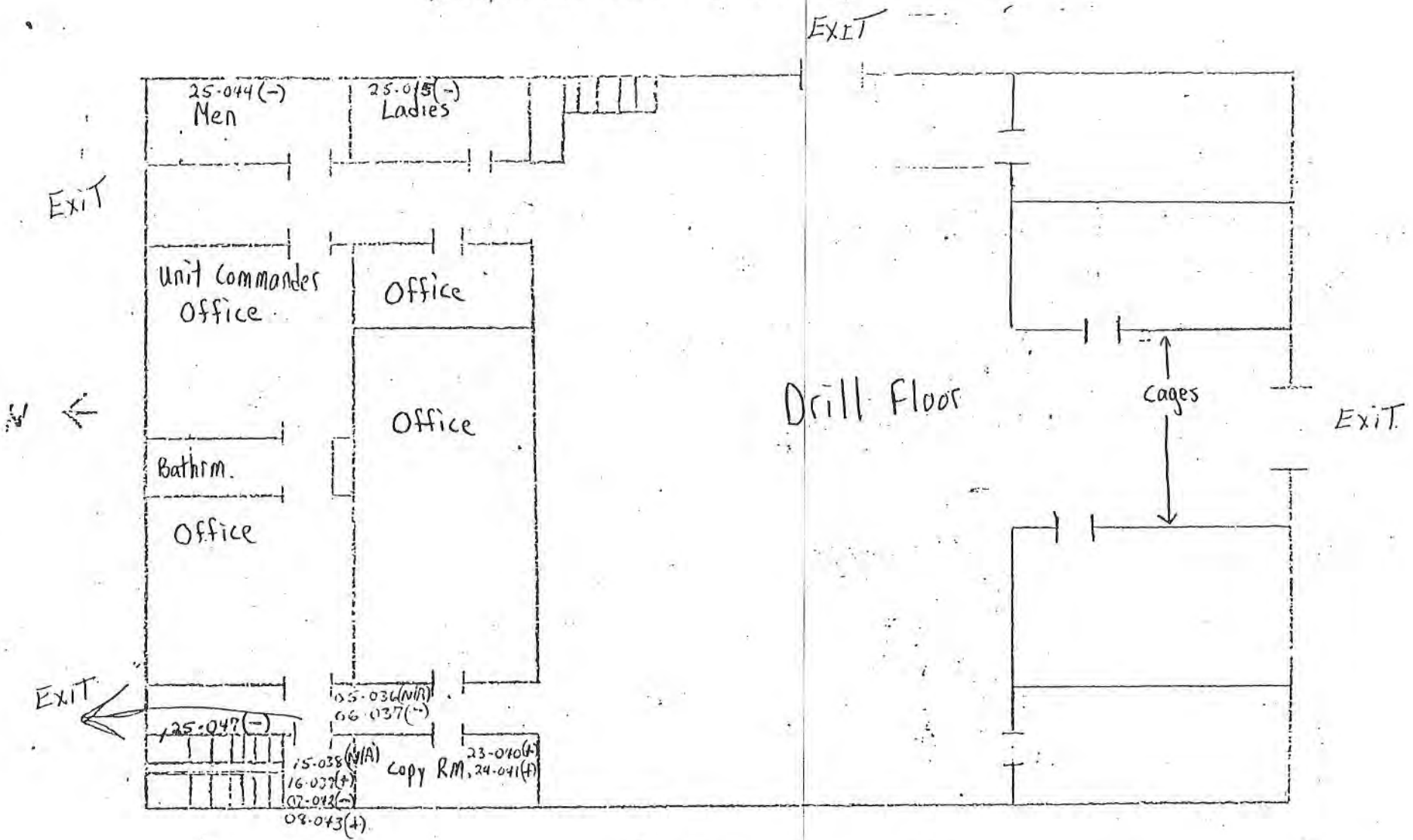


Basement

Sample Location Map S.L.-1

Kane Armory Building .00360-001

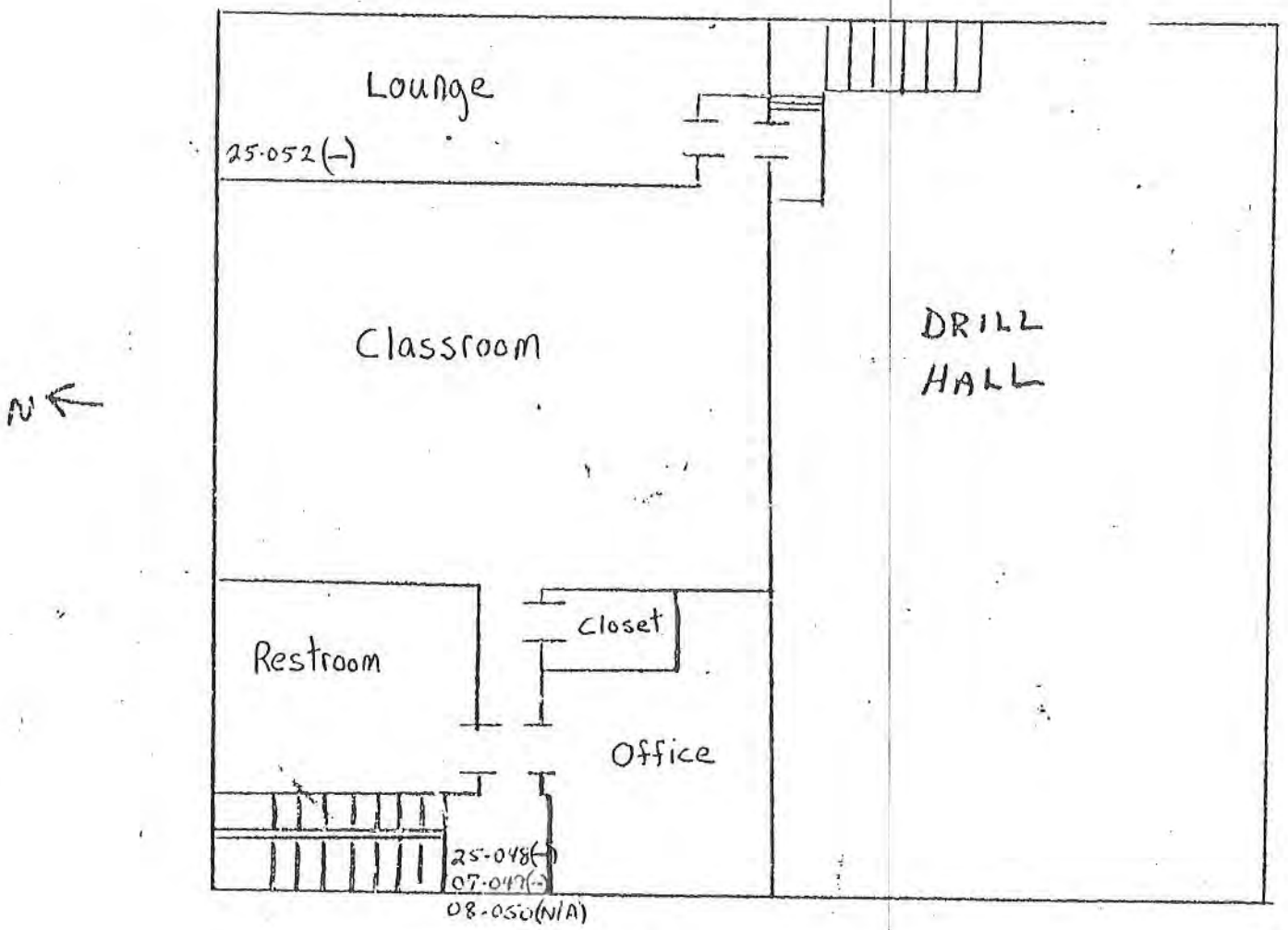
EVACUATION PLAN



1st Floor

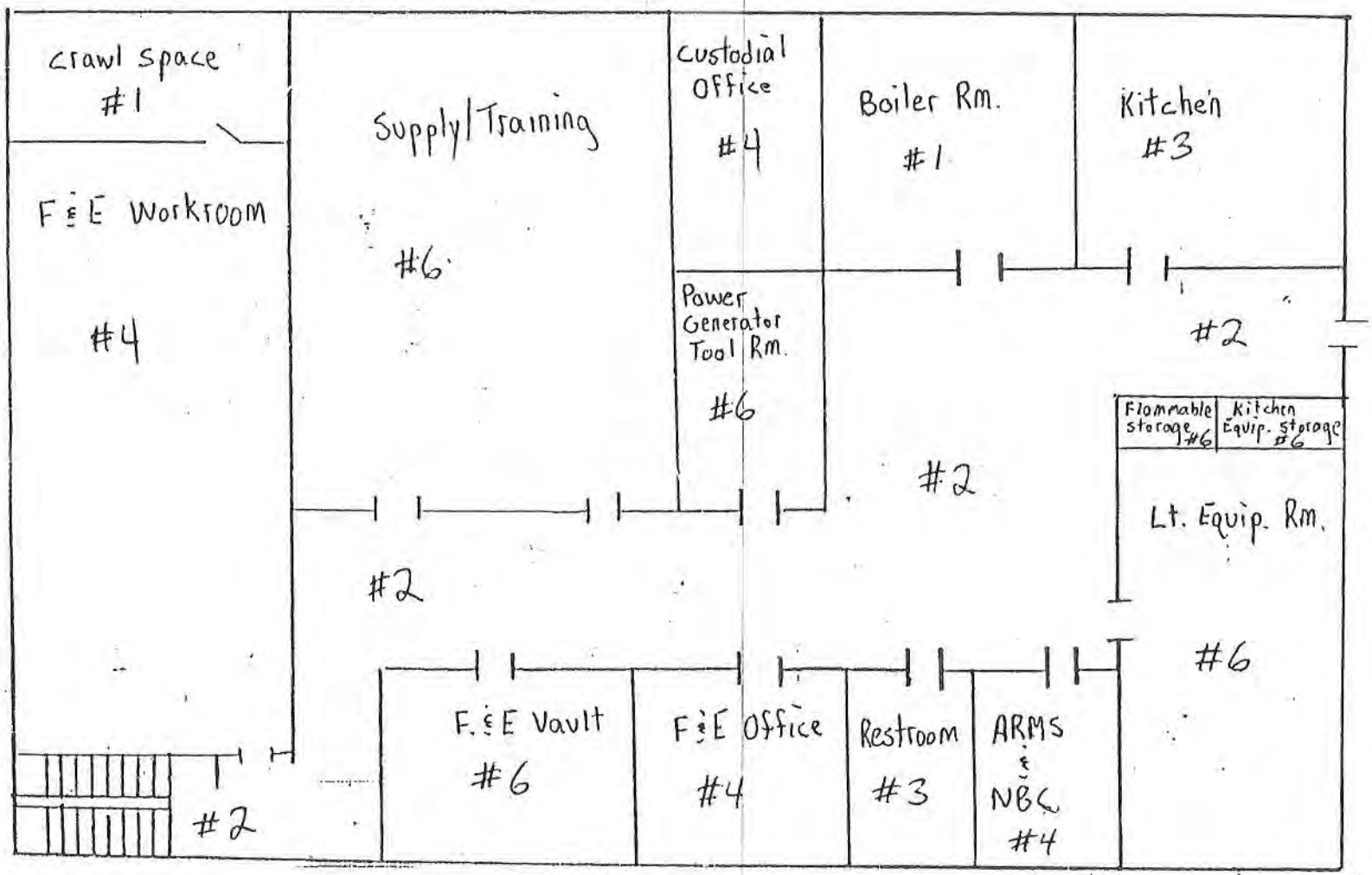
Sample Location Map S.L.-2

Kane Armory Building
00360-001
EVACUATION PLAN



2nd Floor
Sample Location Map S.L.-3

Kane: Armory Building
00360-001



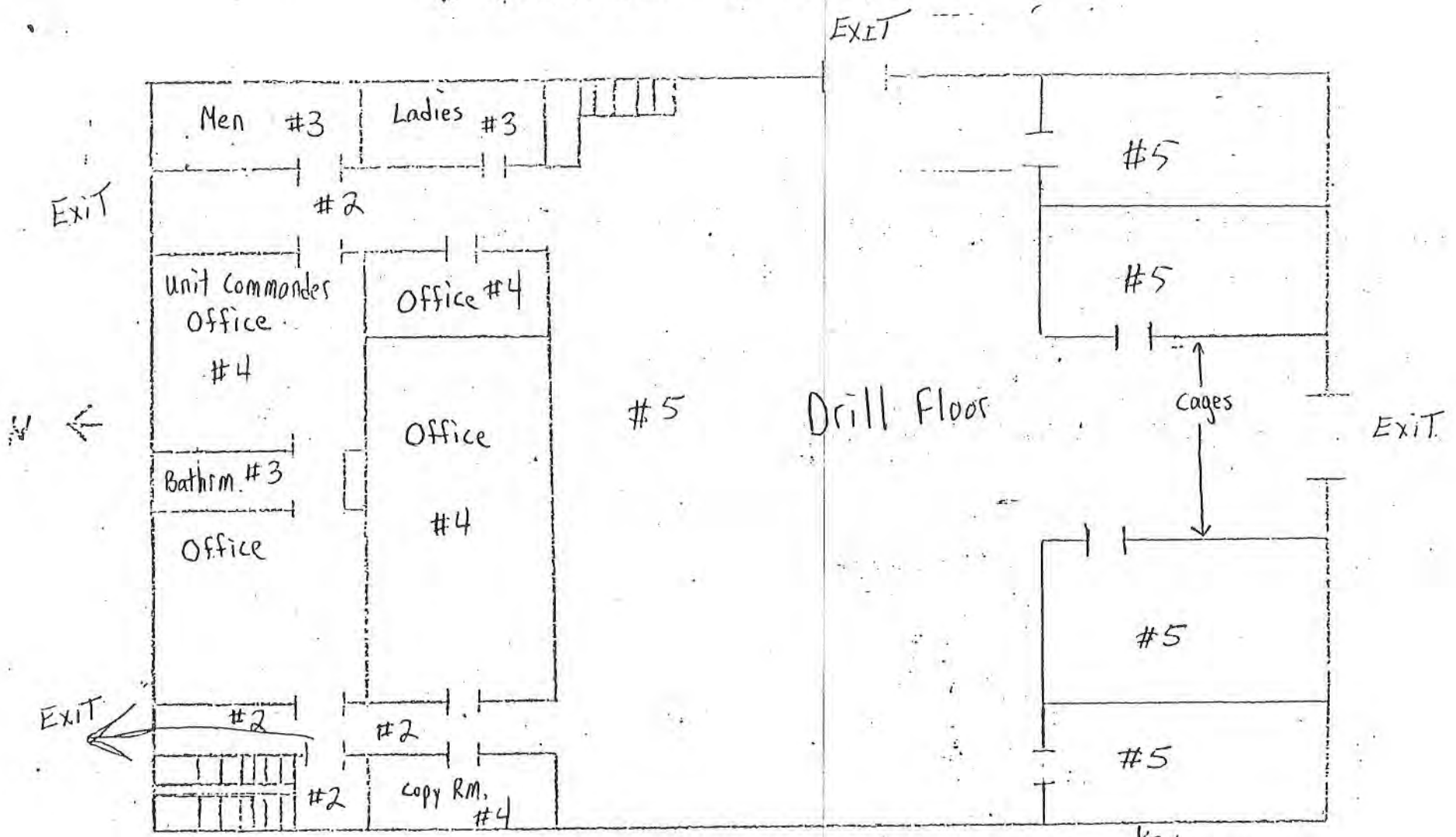
Basement

Functional Space Map

Key
F.S. #1 - Boiler Rm & Crawlspace
F.S. #2 - Halls & Stairs
F.S. #3 - Restrm. & Kitchen
F.S. #4 - Offices & Workrm.
F.S. #6 - Storage

Kane Armory Building .00360-001

EVACUATION PLAN



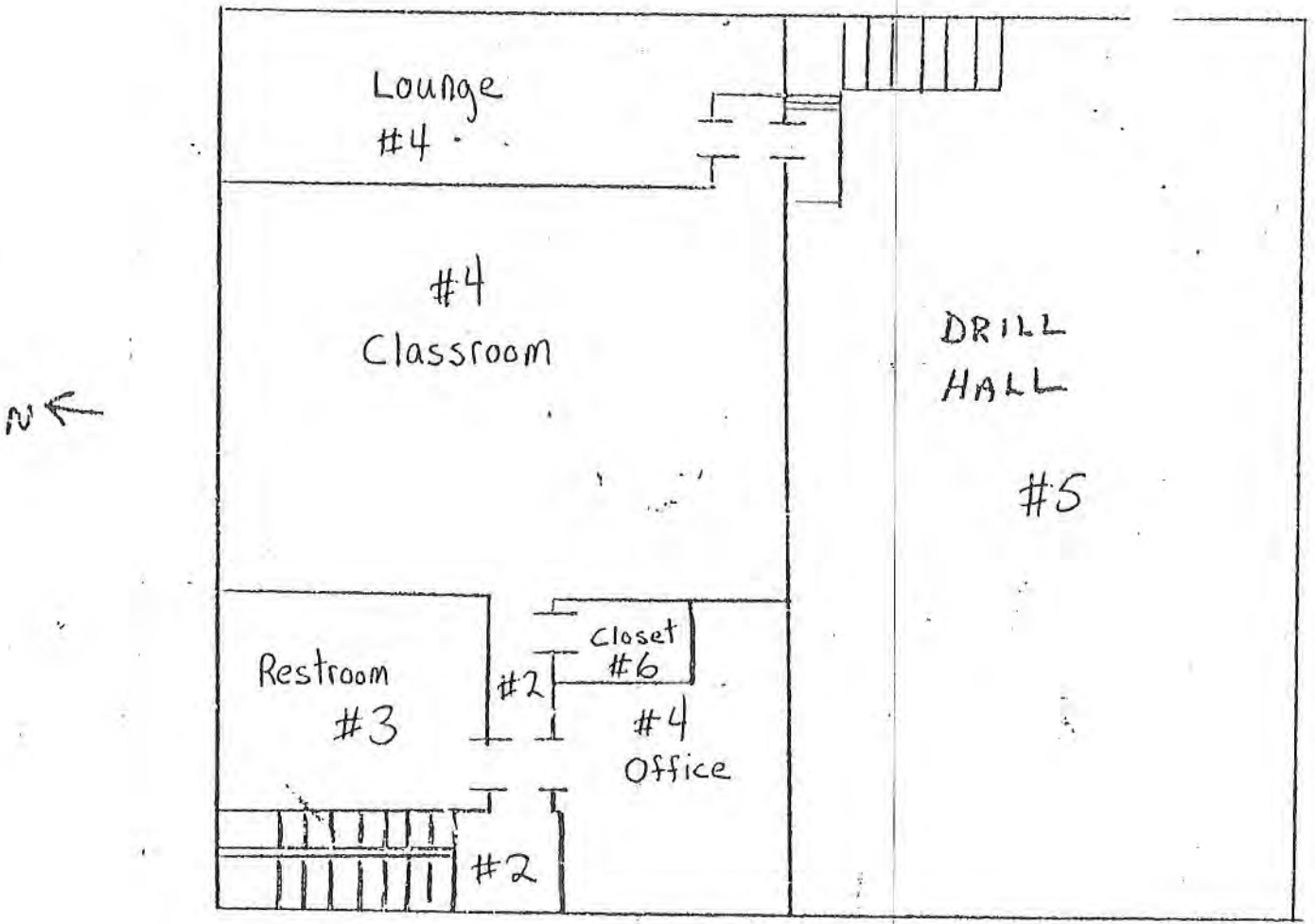
Key

F.S. #2 - Halls & Stairs
F.S. #3 - Restrooms
F.S. #4 - Offices
F.S. #5 - Drill Floor

1st Floor

Functional Space Map

Kane Armory Building
00360-001
EVACUATION PLAN



Key
F.S. #2 - Halls & Stairs
F.S. #3 - Restroom
F.S. #4 - Office, Classrm. & Lounge
F.S. #5 - Drill Floor
F.S. #6 - Storage

2nd Floor
Functional Space Map

Appendix F

Summary of Assessment Documentation for Former Indoor Firing Range

FINAL
COMPLETION REPORT

DECONTAMINATION OF INDOOR RIFLE RANGES
FORT INDIANTOWN GAP (FIG)
VARIOUS LOCATIONS IN
PENNSYLVANIA

Total Environmental Restoration Contract
DACA31-02-D-0017 Task Order 001

Prepared For:
United States Army Corps of Engineers
Baltimore, Maryland

Prepared By:
MWH Americas, Inc.

March 2004

42C40 - Kane

2.0 APPROACH TO DECONTAMINATION

This section identifies the requirements for the decontamination activities and the methods used for implementation. Modifications to the approach to the decontamination work were made during the project implementation to improve the effectiveness and efficiency of the work.

2.1 CLEANUP GUIDANCE

Decontamination of the IFRs was based on the ARNG *Guidelines for IFR Rehabilitation, Conversion, and Cleaning* (ARNG). A copy of this guidance is included in Appendix A. The cleanup objective, as specified in the ARNG Guidelines, is to reduce the level of lead on surfaces in the range to 200 micrograms per square foot (µg/sf) or less. This is to be accomplished using High Efficiency Particulate Air (HEPA) filtered vacuums and wet wiping with detergent.

For range conversion, the removal of range components is required by ARNG Guidelines. This includes:

- Removal and disposal of all acoustical tiles and sound proofing materials
- Removal of backstops, bullet traps, and target handling equipment
- Removal or decontamination of light fixtures and ventilation system grills
- Decontamination or removal and replacement of ventilation system ducts
- Decontamination or removal of exhaust fans and air-handling units
- Disposal or decontamination of equipment stored in the range which contains lead levels above the cleanup goal

After decontamination, the guidance calls for the application of a single coat of lead-free latex paint to be applied to the range interior. Concrete floors are to be painted with a single coat of enamel deck paint.

2.2 CLEANUP METHOD

The general approach to the decontamination of the IFRs was developed meet the requirements of ARNG Guidance in a cost-effective manner. The approach was provided in the Work Plan (MWH 2002a) prepared for the project. Decontamination activities required at the ranges included mobilization and setup, equipment decontamination, abatement of damaged asbestos containing materials (ACM), removal or decontamination of range components and fixtures, decontamination of ventilation system duct work, decontamination of range surfaces, clearance wipe sampling, surface painting, and demobilization and cleanup.

Mobilization and setup activities consisted of securing temporary utilities for the decontamination operations, lock-out and tag out of electrical circuits feeding light fixtures or

exhaust fans which were removed or decontaminated during the work. During the set-up, lead abatement control area (containment area) and equipment and personnel decontamination facilities were erected.

After setup of the containment area, the next step in the decontamination process was the decontamination and removal of equipment stored in the range, removal of range components, acoustic tiling, and damaged ACM.

- Equipment that was found to contain lead levels above the cleanup goal was decontaminated and removed.
- Removal of the backstop deflector plates required the use of a cutting torch to cut the plates into manageable sized pieces and to remove anchors. The individual pieces of steel plate were decontaminated and staged for recycling.
- Bullet trap sand was either hand excavated or removed using a vacuum truck and staged in drums for disposal by others.
- Acoustic tile present on the walls and ceilings was removed and containerized for off-site disposal.
- Damaged ACM was identified in several ranges which required removal to facilitate the decontamination activities. The removal followed abatement plans prepared by a State of Pennsylvania certified Project Designer as required by state regulations.

The approach for decontamination of the surfaces of the ranges consisted of HEPA vacuuming, wet wiping, followed by a second HEPA vacuuming. Wet wiping was accomplished using a lead-specific detergent in hot water. After wet wiping the surfaces were allowed to thoroughly dry and a second HEPA vacuuming was performed to remove any remaining visible dust or residue. Clearance wipe samples were collected from the decontaminated surfaces and analyzed for lead.

The ventilation duct systems in the IFRs were either; removed, abandoned in-place by sealing vents and other openings, or decontaminated, depending upon the conditions and requirements of the armory for continued use of the system. For exhaust fans and vents which were used exclusively for ventilation during target practice operations, the duct work associated with these exhaust systems was typically abandoned in place. Where the ventilation system is required for future use of the range area, cleaning or removal and replacement of the duct work and HVAC system components was performed.

After completion of the decontamination activities, the surfaces of the range interior were typically covered with one or more coats of latex primer paint. At some IFRs additional painting was performed to satisfy the requirements of the facility. Demobilization consisted of removal of equipment and materials used during the decontamination, removal and disposal of containment structures, and staging of hazardous wastes for off-site disposal by others.

2.3 CHANGES TO DECONTAMINATION APPROACH

During implementation of the field work, changes to the approach were made to improve the effectiveness and efficiency of the decontamination activities. It was found that in some IFRs the level of lead present and the nature of the surfaces in the ranges prevented achievement of the cleanup goals using the planned decontamination approach. In some locations lead levels higher than 100,000 µg/sf were found on walls and floors of the ranges. In addition, some ranges were constructed of very porous concrete, masonry, or brick materials which prevented effective cleaning using wet wiping methods. Due to the age of many of the ranges, multiple layers of lead-based paint were present some in poor condition which contributed to high lead levels in the clearance wipe samples.

As a result of conditions encountered in the ranges, modifications to the decontamination approach were made during the work effort. Changes in field procedures included:

- Using a more aggressive lead specific detergent (Heavy Metals Cleaning Solution 101).
- Use of a lead visualizing spray to identify in the field areas with potential high lead levels during the cleaning process.
- Utilization of power floor scrubbers

Although these changes in procedures improved the effectiveness of the decontamination process, it was still found to be necessary to perform multiple cleanings to lower the lead levels on the range interiors to within the cleanup goals. Given the costs associated with this increased level of effort, the decision was made by USACE and PAARNG representatives to limit the level of effort in decontamination to two rounds of cleaning. The entire range interiors would be cleaned once and clearance samples collected for comparison with cleanup goals. An additional round of cleaning would be performed in those areas which still contained lead exceeded the cleanup goal.

3.2 RANGES WITH NO DECONTAMINATION

Based on site reconnaissance observations and wipe sampling, 16 ranges were identified which did not require decontamination; either lead levels were below the cleanup goal, it was determined that further reductions in lead levels by decontamination would not be cost-effective, or the facility was scheduled for sale. Cleanup actions required at facilities which were scheduled for sale were limited to removal of hazardous wastes (bullet trap sand) when present.

3.2.9 Kane

The IFR at the Kane Armory is a renovated range. A site reconnaissance of the IFR was performed in February 2003 to observe site conditions and to collect wipe samples for lead analysis. During the visit, the location of the former range was identified by a facility point-of-contact (POC) and is shown on attached Figure 1. There was a discrepancy between this location and the range location identified by a PAARNG representatives in a report of an inspection in August 2001. This possible location of the range is also shown on Figure 1. Based on additional conversations with facility representatives and a subsequent site visit, the former IFR was confirmed in the location identified by the POC.

Based on the observations made during the site reconnaissance and the analytical results of the wipe samples collected, the former ranges meets the cleanup goals. The clearance wipe sample analytical results are shown on Table 3-42. Sample locations are identified on Figure 3-42.

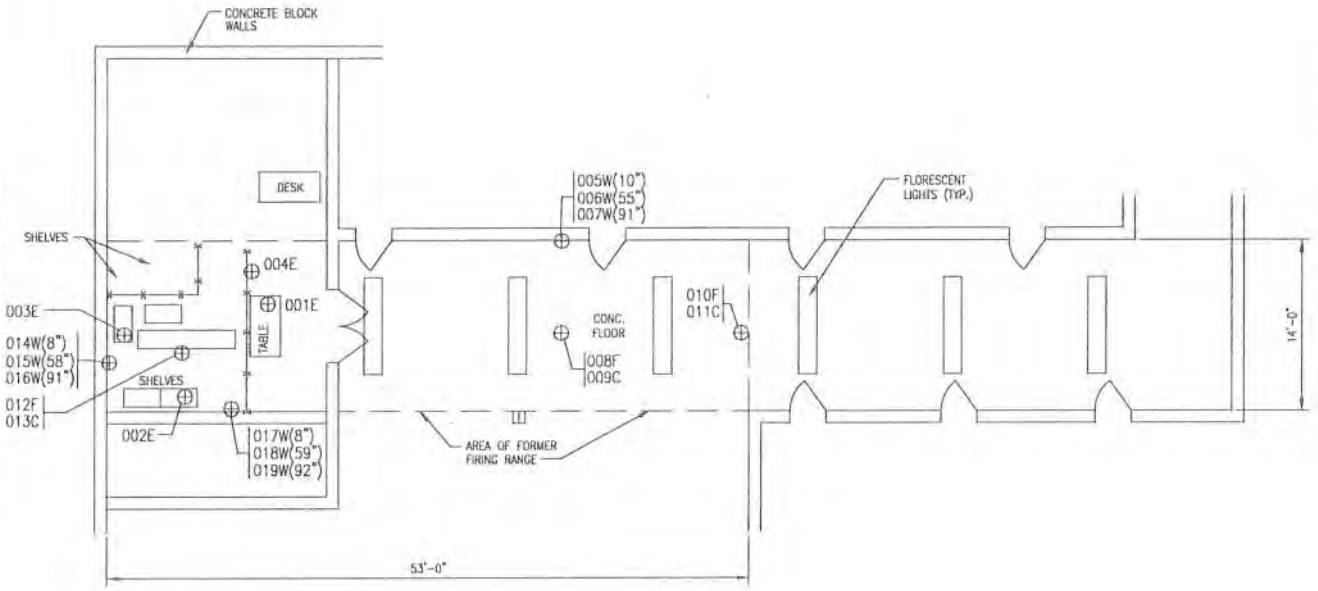
Table 1-1
Indoor Firing Range Summary

Armory	Renovated Range	Range Area Use	Decontamination Activities Performed
Kane	Yes	Storage / Office Space	None

Table 3-42
Clearance Sample Analytical Results
Indoor Rifle Range Decontamination
Kane Armory

Sample ID	Sample Date	Sample Type	Location	Lead Level	Units
Kane 001 E	2/7/2003	Equipment	Table	ND	µg/sf
Kane 002 E	2/7/2003	Equipment	Shelves	54	µg/sf
Kane 003 E	2/7/2003	Equipment	Desk	47	µg/sf
Kane 004 E	2/7/2003	Equipment	Partition	ND	µg/sf
Kane 005 W	2/7/2003	Wall	East Wall (10 inches above floor)	ND	µg/sf
Kane 006 W	2/7/2003	Wall	East Wall (55 inches above floor)	ND	µg/sf
Kane 007 W	2/7/2003	Wall	East Wall (91inches above floor)	ND	µg/sf
Kane 008 F	2/7/2003	Floor	Center	120	µg/sf
Kane 009 C	2/7/2003	Ceiling	Center	ND	µg/sf
Kane 010 F	2/7/2003	Floor	South End	110	µg/sf
Kane 011 C	2/7/2003	Ceiling	South End	ND	µg/sf
Kane 012 F	2/7/2003	Floor	North End	50	µg/sf
Kane 013 C	2/7/2003	Ceiling	North End	ND	µg/sf
Kane 014 W	2/7/2003	Wall	North Wall (8 inches above floor)	ND	µg/sf
Kane 015 W	2/7/2003	Wall	North Wall (58 inches above floor)	ND	µg/sf
Kane 016 W	2/7/2003	Wall	North Wall (91 inches above floor)	ND	µg/sf
Kane 017 W	2/7/2003	Wall	West Wall (8 inches above floor)	ND	µg/sf
Kane 018 W	2/7/2003	Wall	West Wall (59 inches above floor)	ND	µg/sf
Kane 019 W	2/7/2003	Wall	West Wall (91 inches above floor)	ND	µg/sf

µg/sf - micrograms per square foot
ND - below detection limit of 40 µg/sf



Post-Decontamination Wipe Sample Results		
Sample ID	Location	Lead Level ug/sf
001E	Equipment	ND
002E	Equipment	54
003E	Equipment	47
004E	Equipment	ND
005W	Wall	ND
006W	Wall	ND
007W	Wall	ND
008F	Floor	120
009C	Ceiling	ND
010F	Floor	110
011C	Ceiling	ND
012F	Floor	50
013C	Ceiling	ND
014W	Wall	ND
015W	Wall	ND
016W	Wall	ND
017W	Wall	ND
018W	Wall	ND
019W	Wall	ND

ug/sf - micrograms per square foot
ND - Non-detect

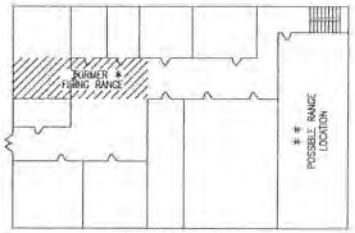
(ASSUMED NORTH)

LEGEND

⊕ WIPE SAMPLE LOCATION

001E SAMPLE IDENTIFICATION (C=CEILING, E=EQUIPMENT, F=FLOOR)

014W(8") SAMPLE IDENTIFICATION ON WALL (HEIGHT ABOVE FLOOR SAMPLE TAKEN)



BASEMENT FLOOR PLAN

* AS IDENTIFIED BY FACILITY POC

** BASED ON AUGUST 2001 VISIT BY PAANG PERSONNEL

SCALE		DECONTAMINATION OF INDOOR RIFLE RANGES FORT INDIANTOWN GAP (FIG) UNITED STATES ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT	SITE MAP KANE ARMORY	FIGURE
1" = 10'	MWH Atlanta, Georgia			3-42

Job No.: 3670002 Location: IFD\Federal\CORPS OF ENGINEERS\Baltimore\TO1-Figures\Kane Armory.dwg Plot Date: 22-SEPT-2003 12:00

Wipe Sampling Project – Field Data Sheet

State/District: PA RC Location: Kane RC Sampling Date: 22 Feb 2016

Sampling Performed By: Todd Eakin Team members: M. Noushi / T. Eakin

Status of IFR at this RC: ☐Active, ☑Inactive (closed/not cleaned), ☐Closed (cleaned) ☐Disposed, ☐Unknown

Sample ID (XX XXXX #)	Room/Area	Surface (Wall, Floor, etc)
PA - Kane - #1	IFR	Floor
PA - Kane - #2	IFR	Floor
PA - Kane - #3	IFR	Floor
PA - Kane #4	IFR	Wall A
PA - Kane #5	IFR	Wall A
PA - Kane - #6	IFR	Wall A
PA - Kane - #7	IFR	Wall B
PA - Kane - #8	IFR	Wall B
PA - Kane - #9	IFR	Wall B
PA - Kane - #10	IFR	Wall C
PA - Kane - #11	IFR	Wall C
PA - Kane - #12	IFR	Wall C
PA - Kane - #13	IFR	Wall D
PA - Kane - #14	IFR	Wall D
PA - Kane - #15	IFR	Wall D
PA - Kane - #16	IFR	Ceiling
PA - Kane - #17	IFR	Ceiling
PA - Kane - #18	IFR	Ceiling
PA - Kane - #19	Hallway Outside IFR	Floor
PA - Kane - #20	Drill Hall	Floor
PA - Kane - #21	Drill Hall	Floor
PA - Kane - #22	Maint. Break Room	Floor
PA - Kane - #23	Basement Male Showers	Floor
PA - Kane - #24	Commanders Office	Desk
PA - Kane - #25	Kitchen	Floor
PA - Kane - #26	Basement Female Showers	Floor
PA - Kane - #27	Kitchen	Counter Prep Area
PA - Kane - #28	PLT SGT Office (1ST Floor)	Desk
PA - Kane - #29	Lobby / Foyer	Floor
PA - Kane - #30	1ST Floor Female latrine	Floor
PA - Kane - #31	2nd Floor Male Latrine	Floor
PA - Kane - #32	Commanders Office	Floor
PA - Kane - #33	1ST Floor Male latrine	Floor
PA - Kane - #34	PLT SGT Office (1ST Floor)	Floor
PA - Kane - #35	PLT SGT Room (2nd Floor)	Floor
PA - Kane - #36	N/A	Blank
PA - Kane #37	N/A	Blank
PA - Kane #38	N/A	Blank

Ship Samples in boxes. Include the Laboratory Chain of Custody and copy of the field data sheet(s). Samples Shipped by: Ettren, James

Signature: Date: 25 Feb 2016

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

AIHA LAP, LLC ACCREDITED LABORATORY
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ISO/IEC 17025:2005
www.aihaaccreditedlabs.org
LAB #100470

Client:	National Guard Bureau	**Job Name:**	North East Regional IH	**Chain Of Custody:**	531635		
Address:	301-IH Old Bay Lane, Attn: ARNG-CJG-P, State Military Reservation	**Job Location:**	Kane RC	**Date Submitted:**	3/2/2016		
	Havre de Grace, Maryland 21078	**Job Number:**	Not Provided	**Person Submitting:**	James Eirich		
		P.O. Number:	Not Provided	**Date Analyzed:**	3/8/2016	**Report Date:**	3/10/2016
Attention:	Cindy Harrison						

Summary of Atomic Absorption Analysis for Lead

AMA Sample Number	Client Sample Number	Analysis Type	Sample Type	Air Volume (L)	Area Wiped (ft²)	Reporting Limit	Total ug	Final Result	Comments
16066531	PA-KANE-1	Flame	Wipe	****	0.969	10 ug/ft²	19	19 ug/ft²	
16066532	PA-KANE-2	Flame	Wipe	****	0.969	10 ug/ft²	11	11 ug/ft²	
16066533	PA-KANE-3	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066534	PA-KANE-4	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066535	PA-KANE-5	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066536	PA-KANE-6	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066537	PA-KANE-7	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066538	PA-KANE-8	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066539	PA-KANE-9	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066540	PA-KANE-10	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066541	PA-KANE-11	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066542	PA-KANE-12	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066543	PA-KANE-13	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066544	PA-KANE-14	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066545	PA-KANE-15	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066546	PA-KANE-16	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066547	PA-KANE-17	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066548	PA-KANE-18	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	
16066549	PA-KANE-19	Flame	Wipe	****	0.969	10 ug/ft²	<10	<10 ug/ft²	

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ISO/IEC 17025:2005
www.aihaaccreditedlabs.org
LAB #100470

Client:	National Guard Bureau	**Job Name:**	North East Regional IH	**Chain Of Custody:**	531635		
Address:	301-IH Old Bay Lane, Attn: ARNG-CJG-P, State Military Reservation	**Job Location:**	Kane RC	**Date Submitted:**	3/2/2016		
	Havre de Grace, Maryland 21078	**Job Number:**	Not Provided	**Person Submitting:**	James Eirich		
		P.O. Number:	Not Provided	**Date Analyzed:**	3/8/2016	**Report Date:**	3/10/2016
Attention:	Cindy Harrison						

Summary of Atomic Absorption Analysis for Lead

AMA Sample Number	Client Sample Number	Analysis Type	Sample Type	Air Volume (L)	Area Wiped (ft^2)	Reporting Limit	Total ug	Final Result	Comments
16066550	PA-KANE-20	Flame	Wipe	****	0.969	10 ug/ft^2	25	26 ug/ft^2	
16066551	PA-KANE-21	Flame	Wipe	****	0.969	10 ug/ft^2	41	42 ug/ft^2	
16066552	PA-KANE-22	Flame	Wipe	****	0.969	10 ug/ft^2	46	47 ug/ft^2	
16066553	PA-KANE-23	Flame	Wipe	****	0.969	10 ug/ft^2	15	16 ug/ft^2	
16066554	PA-KANE-24	Flame	Wipe	****	0.969	10 ug/ft^2	<10	<10 ug/ft^2	
16066555	PA-KANE-25	Flame	Wipe	****	0.969	10 ug/ft^2	<10	<10 ug/ft^2	
16066556	PA-KANE-26	Flame	Wipe	****	0.969	10 ug/ft^2	83	86 ug/ft^2	
16066557	PA-KANE-27	Flame	Wipe	****	0.969	10 ug/ft^2	<10	<10 ug/ft^2	
16066558	PA-KANE-28	Flame	Wipe	****	0.969	10 ug/ft^2	29	30 ug/ft^2	
16066559	PA-KANE-29	Flame	Wipe	****	0.969	10 ug/ft^2	25	26 ug/ft^2	
16066560	PA-KANE-30	Flame	Wipe	****	0.969	10 ug/ft^2	34	35 ug/ft^2	
16066561	PA-KANE-31	Flame	Wipe	****	0.969	10 ug/ft^2	20	20 ug/ft^2	
16066562	PA-KANE-32	Flame	Wipe	****	0.969	10 ug/ft^2	35	37 ug/ft^2	
16066563	PA-KANE-33	Flame	Wipe	****	0.969	10 ug/ft^2	56	57 ug/ft^2	
16066564	PA-KANE-34	Flame	Wipe	****	0.969	10 ug/ft^2	25	26 ug/ft^2	
16066565	PA-KANE-35	Flame	Wipe	****	0.969	10 ug/ft^2	15	15 ug/ft^2	
16066566	PA-KANE-36	Flame	Wipe Blank	****	N/A	10 ug		<10 ug	
16066567	PA-KANE-37	Flame	Wipe Blank	****	N/A	10 ug		<10 ug	
16066568	PA-KANE-38	Flame	Wipe Blank	****	N/A	10 ug		<10 ug	

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LAB #100470

Client:	National Guard Bureau	**Job Name:**	North East Regional IH	**Chain Of Custody:**	531635		
Address:	301-IH Old Bay Lane, Attn: ARNG-CJG-P, State Military Reservation	**Job Location:**	Kane RC	**Date Submitted:**	3/2/2016		
	Havre de Grace, Maryland 21078	**Job Number:**	Not Provided	**Person Submitting:**	James Eirich		
		P.O. Number:	Not Provided	**Date Analyzed:**	3/8/2016	**Report Date:**	3/10/2016
Attention:	Cindy Harrison						

Summary of Atomic Absorption Analysis for Lead

AMA Sample Number	Client Sample Number	Analysis Type	Sample Type	Air Volume (L)	Area Wiped (ft²)	Reporting Limit	Total ug	Final Result	Comments

Analysis Method for Flame: Air, Wipes, Paints, and Soil/Solids: EPA 600/R-93/200(M)-7000B; Water: SM-3111B

Analysis Method For Furnace: Air, Wipes, Paints, and Soil/Solids : EPA 600/R-93/200(M)-7010; Water: SM-3113B

N/A = Not Applicable mg/Kg = parts per million (ppm) on a dry weight basis mg/L = parts per million (ppm)

%Pb = percent lead on a dry weight basis ug = micrograms ug/L = parts per billion (ppb)

Note: All samples were received in good condition unless otherwise noted.

Note: All results have two significant digits. Any additional digits shown should not be considered when interpreting the result.

Air and Wipe results are not corrected for any blank results

Final results for air and wipe samples are based on client supplied information nor verified by this laboratory.

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

See QC Summary for analytical results of quality control samples associated with these samples.

Analyst: K.Lutkus/J.P.Littleton

Technical Manager: G. Edward Carney

OWI (410) 247-2024 159202 210 REV. 6.08

AMA Analytical Services, Inc.
Focused on Results www.amalab.com
AIHA (#100470) NVLAP (#101143-0) NY ELAP (10920)
4475 Forbes Blvd. • Lanham, MD 20706
(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This Number For Inquires) **531635**

Mailing/Billing Information:
1. Client Name: Cindy Harrison
2. Address 1: 301 IH
3. Address 2: OLD Bay Lane
4. Address 3: Havre de Grace
5. Phone # (410) 942-0273 Fax #:

Submittal Information:
1. Job Name: North East Regional IH
2. Job Location:
3. Job #: P.O. #:
4. Contact Person: Cindy Harrison @ phone # (410) 942-0273
5. Submitted by: James Erick Signature:

Reporting Information (Results will be provided as soon as technically feasible):

AFTER HOURS (must be pre-scheduled)
❑ Immediate Date Due:
❑ 24 Hours Time Due:
Comments:

NORMAL BUSINESS HOURS
❑ Immediate ❑ 3 Day
❑ Next Day ☒ 5 Day + Date Due: 3/8/16
❑ 2 Day ❑ Results Required By Noon (EveryAttempt Will Be Made to Accomodate)

REPORT TO:
❑ Include COC/Field Data Sheets with Report
❑ Email: @
❑ Fax:
❑ Verbals:

Asbestos Analysis
PCM Air – Please Indicate Filter Type:
❑ NIOSH 7400 (QTY)
❑ Fiberglass (QTY)
TEM Air – Please Indicate Filter Type:
❑ AHERA (QTY)
❑ NIOSH 7402 (QTY)
❑ Other (specify) (QTY)
PLM Bulk
❑ EPA 600 – Visual Estimate (QTY)
❑ EPA Point Count (QTY)
❑ NY State Friable 198.1 (QTY)
❑ Grav. Reduction ELAP 198.6 (QTY)
❑ Other (specify) (QTY)
MISC
❑ Vermiculite
❑ Asbestos Soil PLM (Qual) PLM (Quan) PLM/TEM (Qual) PLM/TEM (Quan)

TEM Bulk
❑ ELAP 198.4/Chatfield (QTY)
❑ NY State PLM/TEM (QTY)
❑ Residual Ash (QTY)
TEM Dust
❑ Qual. (pres/abs) Vacuum/Dust (QTY)
❑ Quan. (s/area) Vacuum D5755-95 (QTY)
❑ Quan. (s/area)Dust D6480-99 (QTY)
TEM Water
❑ Qual. (pres/abs) (QTY)
❑ ELAP 198.2/EPA 100.2 (QTY)
❑ EPA 100.1 (QTY)
☒ All samples received in good condition unless otherwise noted. (TEM Water samples °C)

Metals Analysis
❑ Pb Paint Chip (QTY)
☒ Pb Dust Wipe (wipe type Chest) 38 (QTY)
❑ Pb Air (QTY)
❑ Pb Soil/Solid (QTY)
❑ Pb TCLP (QTY)
❑ Drinking Water ❑ Pb (QTY) ❑ Cu (QTY) ❑ As (QTY)
❑ Waste Water ❑ Pb (QTY) ❑ Cu (QTY) ❑ As (QTY)
❑ Pb Furnace (Media) (QTY)
Fungal Analysis
Collection Apparatus for Spore Traps/Air Samples:
Collection Media
❑ Spore-Trap (QTY) ❑ Surface Vacuum Dust (QTY)
❑ Surface Swab (QTY) ❑ Culturable ID Genus (Media) (QTY)
❑ Surface Tape (QTY) ❑ Culturable ID Species (Media) (QTY)
❑ Other (Specify) (QTY)

CLIENT ID NUMBER	SAMPLE INFORMATION: SAMPLE LOCATION/ IDENTIFICATION	DATE	VOLUME (LITERS)	WIPE AREA	ANALYSIS: TEM	PCM	PLM	LEAD	MOLD	AIR	BULK	DUST	MATRIX: WATER AND OTHER	SPORE TRAP	TAPE	SWAB
	PA-KANE	02 Feb		300cm²				X								

CLIENT CONTACT
(LABORATORY STAFF ONLY)
Date/Time: Contact: By:
900cm² KE.
Date/Time: Contact: By:
Date/Time: Contact: By:

LABORATORY STAFF ONLY: (CUSTODY)
1. Date/Time RCVD: 3/1/16 @ 1000 Via: Fedex By (Print): Sign:
2. Date/Time Analyzed: / / @ By (Print): Sign:
3. Results Reported To: Via: Date: / / Time: Initials:
4. Comments:

OrderID: 201607648

Wipe Sampling Project – Field Data Sheet

201607648

State/District: PA RC Location: Kane RC Sampling Date: 14 June 2016

Sampling Performed By: Todd Eakin Team members: T. Eakin

Status of IFR at this RC: ☐Active, ☑Inactive (closed/not cleaned), ☐Closed (cleaned) ☐Disposed, ☐Unknown

Sample ID (XX XXXX #)	Room/Area	Surface (Wall, Floor, etc)
PA-Kane-01	Drill Hall	Floor
PA-Kane-02	Maint Break Room	Floor
PA-Kane-03	1ST Floor Male Lat.	Floor
PA-Kane-04	Basement Female Showers	Floor
PA-Kane-05	N/A	Blank

Ship Samples in boxes. Include the Laboratory Chain of Custody and copy of the field data sheet(s). Samples Shipped by:

Signature: Date:

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201607648
CustomerID:	COCC50
CustomerPO:	
ProjectID:	

Attn: **Lynn Stutzman**
Cocciardi & Associates, Inc.
4 Kacey Court
Mechanicsburg, PA 17055

Phone:	(717) 766-4500
Fax:	(717) 766-3999
Received:	07/14/16 2:30 PM
Collected:	6/14/2016

Project: **Kane RC**

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead* ***Concentration***
PA-Kane-01	*201607648-0001*	6/14/2016	7/20/2016	144 in²	<10 µg/ft²
	Site: Drill Hall - Floor				
PA-Kane-02	*201607648-0002*	6/14/2016	7/20/2016	144 in²	45 µg/ft²
	Site: Maint Break Room - Floor				
PA-Kane-03	*201607648-0003*	6/14/2016	7/20/2016	144 in²	22 µg/ft²
	Site: 1st Floor Male Lat. - Floor				
PA-Kane-04	*201607648-0004*	6/14/2016	7/20/2016	144 in²	61 µg/ft²
	Site: Basement Female Showers - Floor				
PA-Kane-05	*201607648-0005*	6/14/2016	7/20/2016	n/a	<10 µg/wipe
	Site: Blank				

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependent on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 07/21/2016 12:48:01

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):*

PHONE:
FAX:

Company : Cocciardi & Associates	**EMSL-Bill to:** ☐ Different ☐ Same If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 4 Kacey Court	
City: Mechanicsburg **State/Province:** PA	**Zip/Postal Code:** 17055 **Country:** USA
Report To (Name): Lynn Stutzman	**Telephone #:** (717) 766-4500
Email Address: lstutzman@cocciardi.com	**Fax #:** **Purchase Order:**
Project Name/Number: Kane RC	**Please Provide Results:** ☐ FAX ☐ E-mail ☐ Mail
U.S. State Samples Taken:	**CT Samples:** ☐ **Commercial/Taxable** ☐ **Residential/Tax Exempt**

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	■ 1 Week	☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☐
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* **ASTM** ☒ **non ASTM** ☐ ***if no box is checked, non-ASTM Wipe is assumed**	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☒
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: Todd Eakin **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
PA-Kane-01	Drill Hall-Floor	144 sq-in	1400/14 Jun 16
PA-Kane-02	Maint Break Room-Floor	144 sq-in	1400/14 Jun 16
PA-Kane-03	1st Floor Male Lat.-Floor	144 sq-in	1400/14 Jun 16
PA-Kane-04	Basement Female Showers-Floor	144 sq-in	1400/14 Jun 16
PA-Kane-05	Blank		1400/14 Jun 16

Client Sample #'s - **Total # of Samples:** 2

Relinquished (Client):	Todd Eakin	**Date:**	28 June 2016	**Time:**	
Received (Lab):		**Date:**		**Time:**	

Comments:

OrderID: 201607648

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 201607648

PHONE:
FAX:

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Email Address: lstutzman@cocciardi.com	**Fax #:** **Purchase Order:**
Project Name/Number: Kane RC	**Please Provide Results:** ☐ FAX ☐ E-mail ☐ Mail
U.S. State Samples Taken:	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

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☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ■ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

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Name of Sampler: Todd Eakin **Signature of Sampler:** Todd A Eak

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PA-Kane-04	Basement Female Showers-Floor	144 sq-in	1400/14 Jun 16
PA-Kane-05	Blank		1400/14 Jun 16

Client Sample #'s - **Total # of Samples:** 5

Relinquished (Client):	Todd Eakin	**Date:**	28 June 2016	**Time:**	
Received (Lab):	[illegible]	**Date:**	7/14/16	**Time:**	230 pm USPS

Comments: