Final

BUILDING 45 GREASE TRAP VAULT CLOSURE REPORT FORMER YORK NAVAL ORDNANCE PLANT

SAIC Project 166345.00.08232.6072.00

Prepared for:

Harley-Davidson Motor Company Operations, Inc. _{York, PA}

December 2009



Final

Building 45 Grease Trap Vault Closure Report Former York Naval Ordnance Plant

SAIC Project 166345.00.08232.6072.00

Prepared for:

Harley-Davidson Motor Company Operations, Inc. York, PA

By:

Science Applications International Corporation 6310 Allentown Boulevard Harrisburg, PA 17112 (717) 901-8100

December 2009

Reviewed by:

Stephens M. Anyder

Stephen M. Snyder, P.G. Project Director

Respectfully submitted,

Roger D. Myers Project Manager

Science Applications International Corporation

TABLE OF CONTENTS

1.0	INTRODUCTION AND BACKGROUND1
2.0	VAULT REMOVAL AND SOIL EXCAVATION
3.0	SOIL SAMPLING AND ANALYSIS4
4.0	SUMMARY AND CONCLUSIONS

LIST OF FIGURES

Figure 1, Site Location Map	Following Text
	e
Figure 2, Building 45 Soil Samples	Following Text

LIST OF TABLES

Table 1, Soils Data Summary – Building 45(B45) Following Text
--

LIST OF APPENDICES

Appendix A, Historical Drawings	Following Text
Appendix B, Photographs	Following Text
Appendix C, Waste Characterization Results and Disposal Manifests	Following Text

1.0 INTRODUCTION AND BACKGROUND

This report describes the closure of an underground grease trap vault located near Building 45. The closure activities were conducted in accordance with the scope of work in Science Applications International Corporation (SAIC) proposal number 01-1633-71-2009-175, dated August 14, 2008.

Harley-Davidson Motor Company Operations, Inc. (Harley-Davidson) entered into a Settlement Agreement with the Department of Defense and the Department of the Navy (as facilitated by the United States Army Corps of Engineers [USACE]) on January 24, 1995. That agreement established a cost sharing arrangement between Harley-Davidson, as the present site owner, and the United States, as the past owner, for costs incurred in response to environmental contamination at the facility. A Trust Fund was established to handle the cost sharing of those response actions. All environmental response actions must be completed in accordance with federal methods. This scope of work and proposal were approved by Harley-Davidson and the York Remediation Trust Fund on September 8, 2008.

Building 45, which is currently used as a maintenance building, is located in the northwestern part of the Harley-Davidson, York, Pennsylvania, facility (see Figure 1). The vault, or grease trap as it is identified on some drawings/documents, was located west of Building 45. According to a 1945 as-built utility drawing, the vault was constructed to separate oil and water from a drain line exiting Building 45. The outlet from the vault was joined to an existing sanitary sewer line on the property. Historic drawings are included in Appendix A. Because there was no known ongoing need for the oil/water separator, Harley-Davidson decided to have the vault cleaned, inspected, and removed. Photographs taken during the investigation and closure of the vault are included in Appendix B.

Sludge and water in the vault were sampled in March 2008. Both the sludge and water contained elevated concentrations of oil/grease, chlorinated volatile organic compounds (VOCs), and certain metals. The metals in the sludge sample, however, did not exceed applicable criteria when tested via the Toxicity Characteristic Leaching Procedure (TCLP). The liquid and sludge

were removed from the vault in May 2008 and disposed of off-site at Modern Landfill of York, Pennsylvania by Veolia Environmental Services.

After the vault was cleaned, a sump pump was installed to remove liquids that continued to enter the vault through the inlet line (note - the inlet was connected to an oil/water separator as detailed in the next paragraph). The liquids collected by the sump pump were transferred to an on-site Baker tank. The liquids in the vault contained low levels of VOCs; however, water samples collected directly from the inlet pipe did not contain VOCs. Therefore, it was determined that VOCs were leaching into the water from the concrete vault. The vault water in the Baker tank was subsequently treated via the on-site groundwater treatment system.

A dye test was used to trace the influent pipe and ongoing discharge into the vault to an oil/water separator associated with an air dryer for two plant air compressor units located at the former fire station inside Building 45 (see photographs in Appendix B). The discharge was temporarily redirected using a sump pump to a sink near the men's bathroom of Building 45 to ensure that liquids would not reenter the vault during the excavation and removal activities. This sink is connected to the sanitary sewer via a separate discharge pipe.

Historic maps show that the effluent pipe from the vault was connected to a nearby sanitary sewer line. The maps also show the influent pipe was possibly connected to several floor drains/clean-outs located in Building 45. Dye tests conducted to confirm the connection of these floor drains to the vault were inconclusive. Therefore, Harley-Davidson decided to seal three of these floor drains/clean-outs by filling them with concrete to floor level in January 2009 in order to avoid uncontrolled releases from any future spills in Building 45.

2.0 VAULT REMOVAL AND SOIL EXCAVATION

Excavation of the vault began on January 5, 2009, using SAIC subcontractor, Stewart & Tate. The influent and effluent lines were excavated with a backhoe and cut with a gas-powered cutoff saw. Once the lines were cut, the vault was excavated and broken into pieces. The concrete pieces were placed in a roll-off container located adjacent to the excavation and subsequently disposed of off-site as hazardous waste by Envirite. Disposal documentation for the concrete vault is included in Appendix C.

Once the vault was removed, the soil around the vault was excavated and staged on plastic adjacent to the excavation. At approximately 10 feet below ground surface (2 feet below the bottom of the vault), a layer of stained soil and wood was encountered. The stained soil, which had a hydrocarbon-like odor, was staged separately from other soil. The excavation was discontinued at a depth of approximately 11 feet below the ground surface after all visual evidence of contamination had been removed.

The soil that did not display visual evidence of contamination was placed in a York Waste rolloff container and stored on-site until waste characterization was completed. Soil that displayed visual evidence of contamination was placed in an Envirite roll-off container and was also staged on-site until waste characterization was completed. Four Envirite containers and two York Waste containers were used. The soil in the containers was sampled on January 9, 2009, for waste characterization. Characterization results and disposal manifests for the excavated soils are provided in Appendix C.

3.0 SOIL SAMPLING AND ANALYSIS

On January 8, 2009, eight soil samples were collected from the bottom of the excavation using a hand auger. Sample depths ranged from 10 to 11.5 feet below ground surface and can be viewed on Table 1. Each sample location is shown on Figure 2.

All soil samples were screened in the field for the presence of VOCs using a photoionization detector (PID). Upon retrieving soil from the subsurface, the soil core was split open and the presence of VOCs was evaluated by placing the PID inlet inside of the soil core. Samples intended for laboratory analysis were placed into laboratory-supplied glassware immediately following field screening procedures. The samples were kept on ice in preparation for shipment to the analytical laboratory.

The laboratory soil samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) for analysis of VOCs, semi-volatile organic compounds (SVOCs), total metals, hexavalent chromium, total cyanide, and free cyanide. Safety fencing was installed around the excavation for several days until the sample results were received.

Analytical data received from TestAmerica are handled in accordance with SAIC's Quality Assurance Project Plan (QAPP, July 2009). Laboratory data packages are verified at SAIC and evaluated for completeness, technical holding times, blanks, duplicates, laboratory control samples, matrix spike samples, surrogates, and calibration to standards. Electronic data deliverables from the laboratory are entered into the former York Naval Ordnance Plant (fYNOP) data base, which is stored in the ARC IMS system and checked for completeness against the chain-of-custody record. Electronic analytical data are stored on an SAIC server, as well as at the laboratory. Laboratory records are retained at TestAmerica for a period of five years after the report is issued. The analytical results from these soil samples are summarized and compared to Pennsylvania Department of Environmental Protection's (DEP) nonresidential medium-specific concentrations (MSCs) and the United States Environmental Protection Agency's (EPA) risk-based concentrations (RBCs) for industrial soils in Table 1. None of the compounds analyzed were detected at a concentration greater than an MSC. Various metals - 5 -

were detected at concentrations that are typical for soils. Butylbenzylphthalate, phenol, 1,1,1-trichloroethane (1,1,1-TCA), cis-1,2-dichloroethene (cis-1,2-DCE), and trichloroethene (TCE) were detected in some samples at concentrations that were below the lower quantitation limit (i.e., estimated concentrations), which indicates probable presence, but at concentrations far below the MSC.

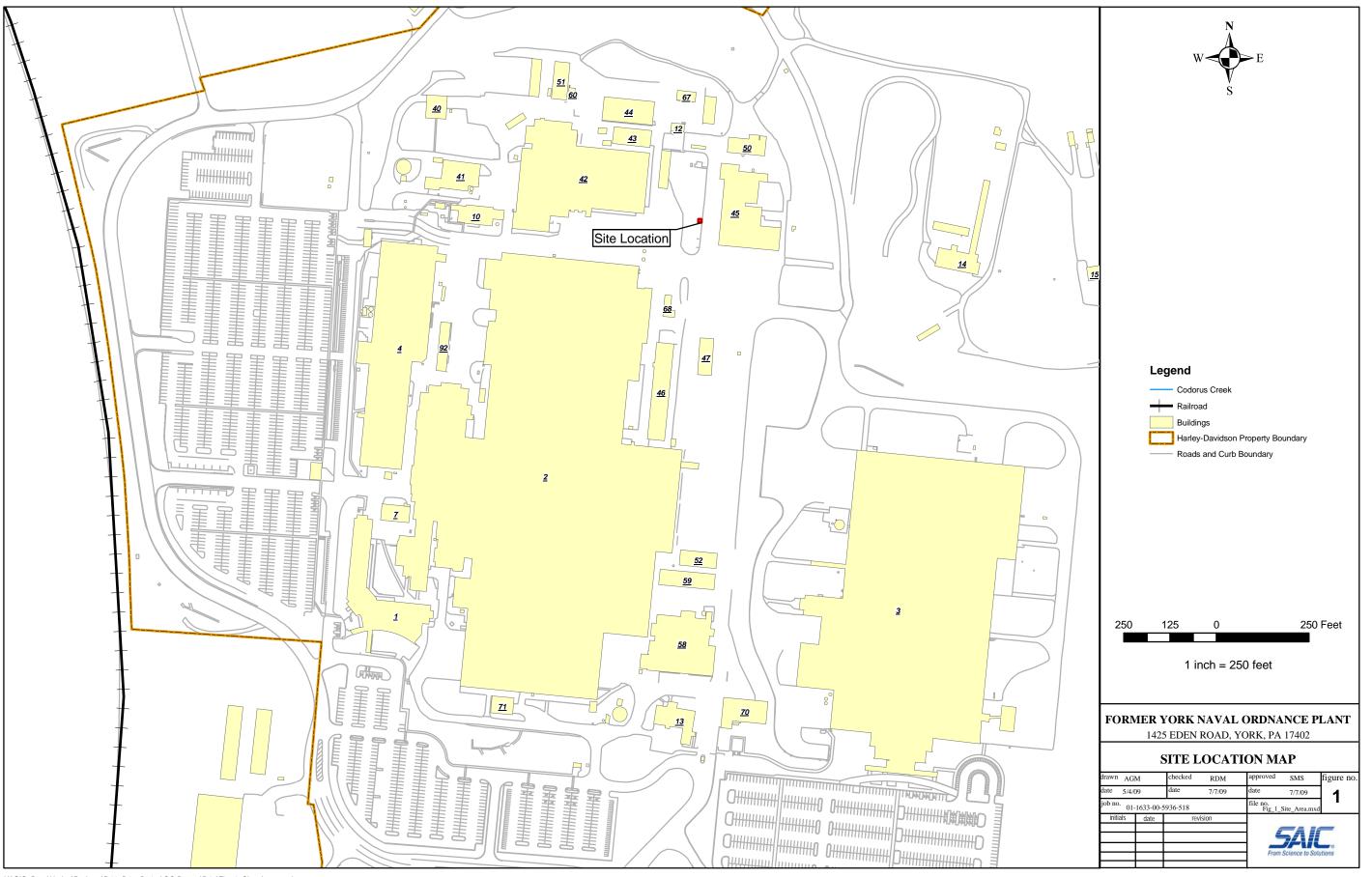
4.0 SUMMARY AND CONCLUSIONS

This report describes the closure of an underground grease trap vault located near Building 45. Excavation of the vault began on January 5, 2009. Once the vault was removed, the soil around the vault was excavated and staged on plastic adjacent to the excavation. Soils displaying visual evidence of contamination were encountered beneath the vault to a depth of 11 feet below ground surface. These soils were containerized, characterized, and disposed of off-site. Following excavation activities, a total of eight confirmatory soil samples were collected from the bottom of the excavation using a hand auger. The laboratory soil samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) for analysis of VOCs, SVOCs, total metals, hexavalent chromium, total cyanide, and free cyanide. None of the compounds analyzed were detected at a concentration greater than an MSC. Various metals were detected at concentrations that are typical for soils.

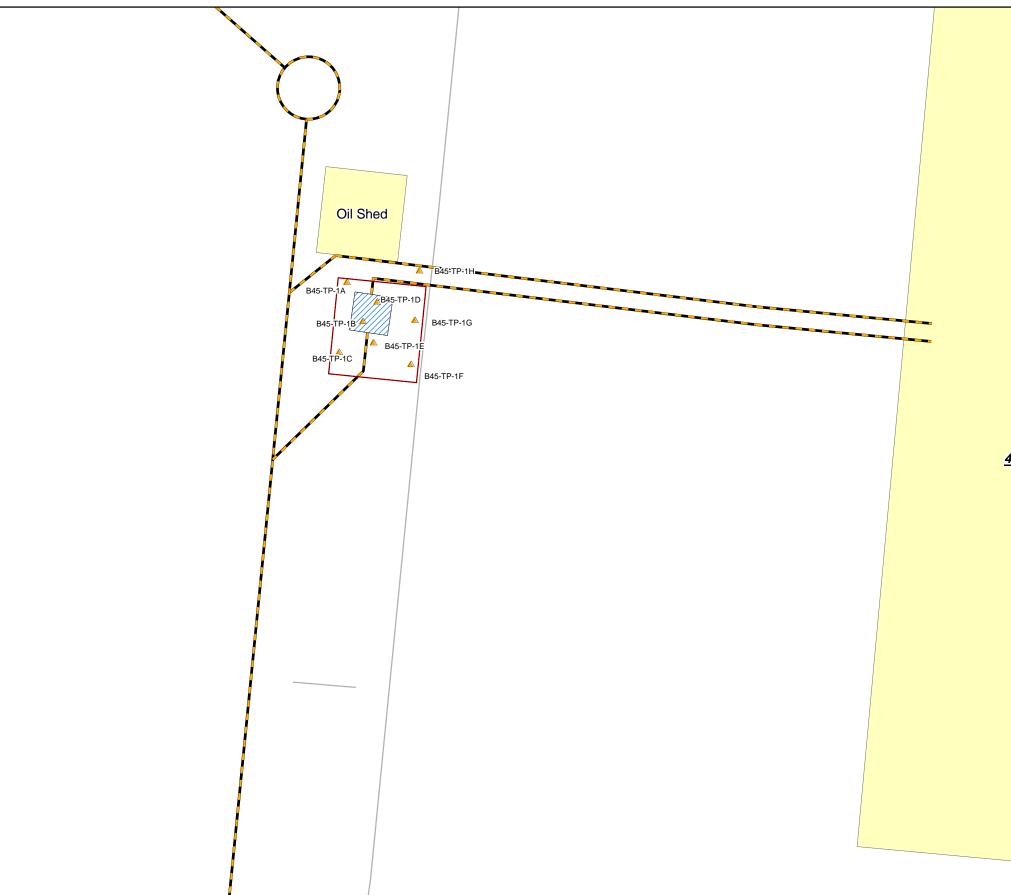
Based on the analytical results for the soil samples, no further soil excavation was deemed necessary, and the excavation was backfilled and compacted with crushed stone to the elevation of the influent and effluent pipes. The influent and effluent pipes were joined using a section of 4-inch Schedule 40 PVC pipe and rubber couplings manufactured by Fernco, Inc. The oil/water separator for the air compressors in Building 45 was then reconnected to the influent pipe to allow it to discharge to the sanitary sewer. The remainder of the excavation was backfilled with crushed stone to near-grade. Topsoil was added, and Harley-Davidson personnel were tasked with the responsibility of reseeding the area.

FIGURES

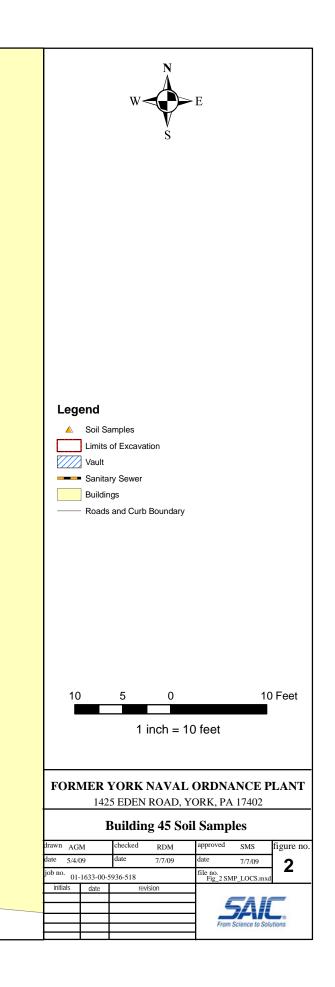
Science Applications International Corporation



K:\GIS_Data\Harley\Projects\B41_B45_B51_AOC Report\B45\Fig_1_Site_Area.mxd



K:\GIS_Data\Harley\Projects\B41_B45_B51_AOC Report\B45\Fig_2 SMP_LOCS.mxd



TABLES

Science Applications International Corporation

Table 1. Soils Data Summary - Building 45 (B45) Former York Naval Ordnance Plant - York, PA

Depth (h) brane Soli O (V) (mpk) Direct Contact (mpk) Instruction (mpk) In 1:15, (mpk) In 1:15, (mpk)	Location/ID	MSC	MSC	MSC	EPA RBC ¹	B45-TP-1A	B45-TP-1B	B45-TP-1C	B45-TP-1D	B45-TP-1E	B45-TP-1F	B45-TP-1G	B45-TP-1H	B45-TP-1H
Sample Date Lead Aquife 0:-11 2:-15 Solit 18/2000										-			-	
barnet (mg/kg) (mg/kg) <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>														
Dynamik, Pres Second Second Second Optimity														
Spands, Free 2000 19000 0.82U 0.71U 0.89U 0.7U 0.88U 0.7U 0.81U		(((((((((((((
Dynals, Trail Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Cyanide, Free	200	56000	190000	20000	0.62 U	0.71 U	0.59 U	0.69 U	0.7 U	0.66 U	0.62 U	0.61 U	0.62 U
Viewaker Chromium 190 420 1900 220 0.43 0.47 U 0.63 0.44 B 0.15 U 0.067 J	Cyanide, Total													
isoavalant Coronum 190 420 190000 230 0.96 0.71 0.83 0.468 0.168 0.528 0.623 darcay 10 640 190000 24 0.053 0.113 0.133 0.073 0.0691 0.0671 darcay 10 0.050 0.051 0.0518 0.0586 0.0518 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 <	Cyanide, Total	200	56000	190000		0.62 U	0.71 U	0.59 U	0.69 U	0.7 U	0.66 U	0.62 U	0.61 U	0.62 U
Intercury 10 19000 24 0.053J 0.013J 0.013J 0.013J 0.0218 0.0218 Name 1100 190000 1100 190000 10018 0.0518 0.0518 0.0518 0.118 0.0228 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 0.0528 0.0518 0.	Hexavalent Chromium			•			•		•					
Intervir 10 840 19600 24 0.63 J 0.16 J 0.61 J 0.17 J 0.17 J 0.62 J 0.67 J 0.69 J 0.69 J tutinory 27 1100 196000 400 0.69 J 0.024 J 0.51 J 1.1 J <	Hexavalent Chromium	190	420	190000	200	0.23 B	0.96	0.47 U	0.63	0.94	0.46 B	0.16 B	0.22 B	0.62
Marci No.97 100 190000 410 0.007 B 0.051 B 0.052 B 0.11 B 0.22 B 0.26 B 0.031 B 0.028 B 0.031 B 0.028 B 0.031 B 0.028 B 0.031 B 0.028 B 0.031 B 0.031 B 0.031 B 0.032 B 0.041 B 111 J 12.0 J 0.053 B 0.14 B 0.037 B 0.047 B 0.037 B 0.044 B 0.037 B 0.044 B 0.037 B 0.044 B 0.037 B 0.047 B 0.037 B 0.047 B 0.037 B 0.044 B 0.077 B 0.037 B 0.047 B 0.037 B 0.044 B 0.077 B 0.037 B 0.047 B 0.037 B 0.048 B 0.041 B 0.077 B	Mercury													
name 27 1100 1100 1100 1007 B 0.057 B 0.057 B 0.057 B 0.057 B 0.057 B 0.057 B 0.11 B 0.22 B 0.069 B 0.037 B 0.11 B 0.22 B 0.069 B 0.037 B 0.11 B 0.73 B 0.41 B 0.75 J 0.67 J 0.63 B 0.64 B 0.64 B 0.61 B 0.11 B 0.75 J 0.63 B 0.64 B 0.64 B 0.61 B 0.75 J 0.63 B 0.64 B 0.64 B 0.61 B 0.75 J 0.63 B 0.64 B 0.64 B 0.61 B 0.77 J 0.81 B 0.75 B 0.75 J 0.81 B 0.75 B 0.77 J 0.81 B 0.75 B 0.75 J 0.73 J <td>Mercury</td> <td>10</td> <td>840</td> <td>190000</td> <td>24</td> <td>0.063 J</td> <td>0.18 J</td> <td>0.053 J</td> <td>0.11 J</td> <td>0.19 J</td> <td>0.13 J</td> <td>0.07 J</td> <td>0.069 J</td> <td>0.067 J</td>	Mercury	10	840	190000	24	0.063 J	0.18 J	0.053 J	0.11 J	0.19 J	0.13 J	0.07 J	0.069 J	0.067 J
Instant 150 53 190000 1.6 1.1 1.3 0.77 1.1 1.2 1.6 0.52 0.54 0.41 Bardum 320 190000 190000 190000 0.64 0.64 0.64 1.0 0.51 0.53 0.61 0.77 0.27 0.072 0.023 0.021 0.021 0.021 0.021 0.021 0.023 0.021 0.023 0.021 0.023 0.021 0.023 0.021 0.021 0.021 0.021 0.021<	Metal													
samu 8200 190000 190000 94.9.J 74.1.J 97.2.J 194.J 118.J 74.5.J 65.1.J 64.2.J catrium 38 210 190000 800 0.46 0.21 0.88 1 0.51 0.38 0.44 0.43 catrium 38 210 190000 800 0.978 0.928 0.14 0.7.4 18.1.J 0.7.4 18.1.J 0.7.4 18.1.J	Antimony				-					-	-			
Bandhum 320 5600 19000 2000 0.648 0.64 0.44 0.44 0.637 0.0378 0.0678 0.0378 <t< td=""><td>Arsenic</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Arsenic													
Samma 38 210 19000 0.068 0.077 b 0.017 b 0.072 b 0.021 b 0.023 b 0.01 b 0.023 b 0.021 b	Barium						-			118 J				
Internation Image	Beryllium													
Scoper 36000 190000 190000 8100 151.J 162.J 162.J 116.J 14.5.J 15.5.J 16.7.J		38	210	190000										
and 450 1000 19000 2000 151 J 16.1 J 6.1 J 5.1 J 2.1 J 2.7 4 J 17.4 J 11.4 J 12.1 J 2.3 J <th< td=""><td></td><td></td><td>400</td><td>400000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>			400	400000										
Sicket 6500 55000 199000 2000 3.9.J 4.4.J 21.J 5.3.J 6.9.J 5.J 2.3.J 3.3.J 3.														
Seenum 26 14000 190000 5100 0.39 B 0.57 B 0.52 B 0.64 B 0.42 B 0.32 B 0.23 B 0.23 B 0.23 B 0.021 D 0.12 U														
Bite 84 14000 190000 5100 0.12 U 0.12 U 0.023 B 0.071 B 0.032 B 0.071 B 0.022 C 0.22 U 0.12 U														
Induise 14 2000 190000 66 0.29 0.34 0.17 0.33 0.32 0.22E 0.20 10.9 10.8 Irandarum 12000 190000 310000 13.8 13.8 13.3 5.8 17.9 20.4 18.6 8.7 7.4 6.8 VIC 2.4 10000 10000 0.41 0.47 0.39 0.45 0.46 0.44 0.41 <														
Tandum 72000 20000 190000 5200 12.5 J 18.1 J 7.8 J 14.1 J 18.4 J 14.4 J 10.8 J 10.J 10.J <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
Time 12000 190000 190000 13.8 J 13.5 J 5.6 J 17.9 J 20 J 18.6 J 8 J 7 J 6.8 J 1.2.4-Trinkorobenzene 60 10000 10000 0.401 0.471 0.391 0.451 0.461 0.441 0.411 0.41 0.410 0.410 0.441 0.411 0.410 0.421 0.451 0.461 0.441 0.411 0.41 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
SVDC 0														
12.4-Trichtorbenzene 27 10000 10000 0.41U 0.47U 0.39U 0.45U 0.46U 0.41U 0.41U 0.41U 0.42U 2-Dichtorbenzenen 61 10000 10000 3066 0.41U 0.47U 0.39U 0.45U 0.46U 0.44U 0.41U 0.41U 0.42U 3-Dichtorbenzenen 10 3300 190000 13 0.41U 0.47U 0.39U 0.45U 0.46U 0.44U 0.41U 0.4U 0.4U </td <td></td> <td>12000</td> <td>190000</td> <td>190000</td> <td>310000</td> <td>13.0 5</td> <td>13.5 5</td> <td>5.0 5</td> <td>17.9 J</td> <td>20 J</td> <td>10.0 0</td> <td>00</td> <td>73</td> <td>0.8 5</td>		12000	190000	190000	310000	13.0 5	13.5 5	5.0 5	17.9 J	20 J	10.0 0	00	73	0.8 5
12-Dichlorobenzene 60 10000 10000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.43 U 0.44 U 0.44 U 0.41 U 0.43 U 0.44 U 0.44 U 0.41 U 0		27	10000	10000	400	0 41 U	0 47 U	0.39 U	0.45 U	0.46 U	0 44 U	0 41 U	04U	04U
13-Decharbonenzene 61 1000 3966 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.4														
14-Dichlorobenzene 10 3300 190000 62000 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.41 U 0.41 U 0.41 U 0.41 U 0.44 U 0.41 U 0.44 U 0.41 U 0.41 U 0.44 U 0.41 U 0.41 U 0.41 U 0.41 U 0.41 U 0.														
24.5-Trichlorophenol 6100 190000 190000 190000 0.47U 0.39U 0.46U 0.44U 0.41U 0.4U 0.44U 24-Dinktorophenol 2 840 190000 1800 0.47U 0.39U 0.46U 0.44U 0.41U 0.4U 0.4U 24-Dinktorophenol 20 19000 19000 1200 0.41U 0.47U 0.39U 0.45U 0.46U 0.44U 0.41U 0.4U 0.4U <td></td>														
2Dichlorophenol 2 8400 190000 1800 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.4 U 2.4-Dimsthylphenol 200 10000 12000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.42 U 2.4-Dimtophenol 4.1 5600 190000 2004 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.4 U<	2,4,5-Trichlorophenol	6100	190000	190000						0.46 U	0.44 U			
24-Dimetrylphenol 200 10000 10000 12000 0.41U 0.47U 0.39U 0.45U 0.46U 0.44U 0.41U 0.4U 0.4U <th< td=""><td>2,4,6-Trichlorophenol</td><td>8.9</td><td>840</td><td>190000</td><td>160</td><td>0.41 U</td><td>0.47 U</td><td>0.39 U</td><td>0.45 U</td><td>0.46 U</td><td>0.44 U</td><td>0.41 U</td><td>0.4 U</td><td>0.4 U</td></th<>	2,4,6-Trichlorophenol	8.9	840	190000	160	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
2+Dnitrophenol 4.1 5600 190000 1200 2.1 U 2.4 U 2.3 U 2.4 U 2.3 U 2.1 U	2,4-Dichlorophenol	2	8400	190000	1800	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
24-Dinitroluene 0.84 260 190000 2044 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41	2,4-Dimethylphenol													
Benintroluene 10 2800 190000 620 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U <td>2,4-Dinitrophenol</td> <td></td>	2,4-Dinitrophenol													
Performagnithalene 18000 190000 82000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U <					-									
4.4 920 1100 5100 0.41 U 0.47 U 0.33 U 0.45 U 0.46 U 0.44 U 0.41 U 0.41 U 0.44 U Methylpnaphthalene 8000 10000 10000 4100 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.4U U 0.4U U Methylpnaphthalene 0.58 160 190000 1800 2.1 U 2.4 U 2.0 U 2.3 U 2.4 U 2.3 U 2.1 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.1 U <	2,6-Dinitrotoluene													
2-Methylnaphthalene 8000 10000 10000 4100 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U														
S10 10000 10000 51100 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U	2-Chlorophenol													
2-Nitroaniline 0.58 160 190000 1800 2.1 U 2.4 U 2.0 U 2.3 U 2.4 U 2.3 U 2.1 U 2.2 U 2.1 U 2.3 U 2.4 U 2.3 U 2.1 U														
82 22000 190000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.4 U 3.3-Dichlorobenzidine 32 180 190000 6.35911 2 U 2.3 U 1.9 U 2.2 U 2.1 U 2 U														
3.3-Dichlorobenzidine 32 180 190000 6.35911 2.U 2.3.U 1.9.U 2.2.U 2.1.U 2.U 2.U 2.U V/4-Methylphenol 0.58 160 190000 2.1.U 2.4.U 2.U 2.3.U 2.4.U 2.3.U 2.4.U 2.3.U 2.4.U 2.3.U 2.4.U 2.3.U 2.4.U 2.3.U 2.4.U 2.3.U 2.1.U 2.1.U 2.1.U 2.1.U 2.3.U 2.4.U 2.3.U 2.4.U 2.3.U 2.1.U 2.4.U 0.46.U 0.44.U 0.41.U 0.4.U					1800									
W4-Methylphenol 5100 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.41 U 0.4 U 9-Nitroaniline 0.58 160 190000 2.1 U 2.4 U 2.U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.4 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.4 U 2.1 U 2.1 U 2.1 U 2.1 U 2.4 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.1 U 2.1 U 2.1 U 2.4 U 2.1 U 2.3 U 2.1 U 2.1 U 2.1 U 2.4 U 2.1 U 2.4 U 2.1 U 2.4 U 0.4 U					0.05044									
3-Nitroaniline 0.58 160 190000 2.1 U 2.4 U 2 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.4 U 2.3 U 2.1 U 0.45 U 0.46 U 0.44 U 0.41 U 0.4 U		32	180	190000										
I.6-Dinitro-2-Methylphenol 2.1 U 2.4 U 2.1 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U I-Bromopheryl phenyl ether 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.44 U 0.41 U 0.41 U 0.45 U 0.46 U 0.44 U 0.41 U 0.44 U 0.41 U 0.41 U 0.45 U 0.46 U 0.44 U 0.41 U 0.41 U 0.41 U 0.45 U 0.46 U 0.44 U 0.41 U 0.41 U 0.41 U 0.45 U 0.46 U 0.44 U 0.41 U 0.45 U 0.46 U 0.44 U 0.41		0.59	160	100000	5100									
Head 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.41 U 0.41 U 0.41 U 0.41 U 0.45 U 0.46 U 0.41 U 0.41 U 0.41 U 0.41 U 0.41 U 0.45 U 0.46 U 0.44 U 0.41 U 0.41 U 0.41 U 0.41 U 0.45 U 0.46 U 0.44 U 0.41 U 0.41 U 0.41 U 0.41 U 0.41 U 0.45 U 0.46 U 0.44 U 0.41 U 0.46 U 0.46 U 0.44 U 0.41 U <td></td> <td>0.56</td> <td>100</td> <td>190000</td> <td></td>		0.56	100	190000										
I-Chloro-3-Methyl-Phenol 110 14000 190000 4088 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.45 U 0.46 U 0.44 U 0.41 U	· ·													-
52 11000 190000 4088 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.41 U 0.4U I-Chlorodiphenyl Ether 0.58 160 190000 86 2.1 U 2.4 U 2.0 U 2.3 U 2.4 U 2.1 U		110	14000	190000										
I-Chlorodiphenyl Ether 0.58 160 190000 86 2.1 U 2.4 U 2.0 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.1 U 2.4 U 2.0 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.4 U 2.0 U 2.3 U 2.1 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.1 U					4088									
I-Nitroaniline 0.58 160 190000 86 2.1 U 2.4 U 2 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U I-Nitrophenol 6 22000 190000 2.1 U 2.4 U 2.U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U 2.1 U 2.1 U 2.4 U 2.3 U 2.4 U 2.3 U 2.1 U <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
6 22000 190000 2.1 U 2.4 U 2 U 2.3 U 2.4 U 2.3 U 2.1 U 2.1 U 2.1 U Acenaphthene 4700 170000 190000 33000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.41 U 0.42 U 0.45 U 0.46 U 0.44 U 0.41 U 0.41 U 0.42 U 0.45 U 0.46 U 0.44 U 0.41 U 0.45 U 0.46 U 0.44 U 0.41 U 0.	4-Nitroaniline	0.58	160	190000	86									
Accenaphthene 4700 170000 190000 33000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.41 U 0.4 U Accenaphthylene 6900 170000 190000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.41 U 0.4 U 0.41 U 0.4	4-Nitrophenol													
Accenaphthylene 6900 170000 190000 170000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U	Acenaphthene				33000									
Anthracene 350 190000 190000 170000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.41 U 0.4 U Benzo (A) Anthracene 320 110 190000 2.1 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.41 U 0.4 U 0.41 U 0.41 U 0.4 U Benzo (A) Anthracene 320 110 190000 2.1 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.41 U 0.4 U Benzo (b) Fluoranthene 170 110 190000 2.1 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.41 U 0.4 U Benzo (b) Fluoranthene 170 110 190000 2.1 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.4 U 0.4 U Benzo (b, fluoranthene 17000 190000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.4 U	Acenaphthylene													
Benzo (A) Anthracene 320 110 190000 2.1 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.41 U 0.4 U Benzo (a) Pyrene 46 11 190000 0.21 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.41 U 0.41 U 0.4 U 0.41 U	Anthracene				170000									
Benzo (b) Fluoranthene 170 110 190000 2.1 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.4 U 0.4 U	Benzo (A) Anthracene		110	190000	2.1	0.41 U	0.47 U		0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
3enzo (g,h,i) Perylene 180 170000 190000 0.41 U 0.47 U 0.39 U 0.45 U 0.46 U 0.44 U 0.41 U 0.4 U 0.4 U	Benzo (a) Pyrene					0.41 U								
	Benzo (b) Fluoranthene				2.1									
Benzo (k) Fluoranthene 610 1100 190000 21 0.41 U 0.47 U 0.39 U 0.45 U 0.44 U 0.41 U 0.4 U 0.4 U	Benzo (g,h,i) Perylene													
	Benzo (k) Fluoranthene	610	1100	190000	21	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U

Table 1. Soils Data Summary - Building 45 (B45) Former York Naval Ordnance Plant - York, PA

Location/II	MSC	MSC	MSC	EPA RBC ¹	B45-TP-1A	B45-TP-1B	B45-TP-1C	B45-TP-1D	B45-TP-1E	B45-TP-1F	B45-TP-1G	B45-TP-1H	B45-TP-1H
Depth (ft.		Direct Contact	Direct Contact	Industrial	10.5 - 11	11 - 11.5	11 - 11.5	11 - 11.5	11 - 11.5	11 - 11.5	11 - 11.5	11 - 11.5	11 - 11.5
Sample Date		0 - 2 ft	2 - 15 ft	Soil	1/8/2009	1/8/2009	1/8/2009	1/8/2009	1/8/2009	1/8/2009	1/8/2009	1/8/2009	1/8/2009
Parameter	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bis(2-Chloroethoxy) Methane	(ing/itg/	(ing/ing/	(iiig/ikg/	1800	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Bis(2-Chloroethyl) Ether	0.055	5	5.7	0.9	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Bis(2-Chloroisopropyl) Ether	30	160	190	0.0	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Bis(2-Ethylhexyl) Phthalate	130	5700	10000	120	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Butylbenzylphthalate	10000	10000	10000	910	0.41 U	0.072 J	0.038 J	0.45 U	0.46 U	0.44 U	0.04 J	0.03 J	0.4 U
Carbazole	83	4000	190000		0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Chrysene	230	11000	190000	210	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Dibenzo (a,h) Anthracene	160	11	190000	0.21	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Dibenzofuran					0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Diethylphthalate	500	10000	10000	490000	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Dimethylphthalate					0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Di-n-Butylphthalate	4100	10000	10000		0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Di-n-octylphthalate	10000	10000	10000		0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Fluoranthene	3200	110000	190000	22000	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Fluorene	3800	110000	190000	22000	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Hexachlorobenzene	0.96	50	190000	1.1	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Hexachlorobutadiene	1.2	560	10000	22	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Hexachlorocyclopentadiene	91	10000	10000	3700	2 U	2.3 U	1.9 U	2.2 U	2.2 U	2.1 U	2 U	2 U	2 U
Hexachloroethane	0.56	2800	190000	120	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Indeno (1,2,3-cd) Pyrene	28000	110	190000	2.1	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Isophorone	10	10000	10000	1800	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Naphthalene	25	56000	190000	20	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Nitrobenzene	5.1	1400	10000	22	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
N-Nitrosodi-N-Propylamine	0.037	11	10000	0.25	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
N-Nitrosodiphenylamine	83	16000	190000	350	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Pentachlorophenol	5	660	190000	9	2 U	2.3 U	1.9 U	2.2 U	2.2 U	2.1 U	2 U	2 U	2 U
Phenanthrene	10000	190000	190000		0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Phenol	400	190000	190000	180000	0.072 J B	0.027 J B	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Pyrene	2200	84000	190000	17000	0.41 U	0.47 U	0.39 U	0.45 U	0.46 U	0.44 U	0.41 U	0.4 U	0.4 U
Total Solids													
Percent Solids					80.40%	70.10%	84.10%	72.20%	71.80%	75.40%	80.50%	81.80%	81.10%
VOC													
1,1,1,2-Tetrachloroethane	18	3100	190000	9.8	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
1,1,1-Trichloroethane	20	10000	10000	39000	0.0054 U	0.0014 J	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
1,1,2,2-Tetrachloroethane	0.03	28	33	2.9	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
1,1,2-Trichloroethane	0.5	100	120	5.5	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
1,1-Dichloroethane	11	1000	1200	17	0.0054 U	0.0029 J	0.0051 U	0.0011 J	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
1,1-Dichloroethene	0.7	33	38	0.47	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
1,2-Dibromoethane	0.005	0.93	8.6	0.17	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
1,2-Dichloroethane	0.5	63 160	73 180	2.2	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
1,2-Dichloropropane	0.5	160 210	180 240	4.7 160	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U 1.2 U
1,4-Dioxane 2-Butanone	2.4	210	240	160 190000	1.1 U 0.022 U	1.4 U 0.029 U	1 U 0.02 U	1.3 U 0.025 U	1.4 U 0.027 U	1.3 U 0.027 U	1.1 U 0.021 U	1 U 0.02 U	1.2 U 0.023 U
	080	10000	10000	190000									
2-Hexanone 4-Methyl-2-Pentanone	41	4300	4900	52000	0.022 U 0.022 U	0.029 U 0.029 U	0.02 U 0.02 U	0.025 U 0.025 U	0.027 U 0.027 U	0.027 U 0.027 U	0.021 U 0.021 U	0.02 U 0.02 U	0.023 U 0.023 U
	41	4300	4900	52000 610000	0.022 U 0.022 U	0.029 U 0.029 U	0.02 U 0.02 U	0.025 U 0.025 U	0.027 U 0.027 U	0.027 U 0.027 U	0.021 U 0.021 U	0.02 U 0.02 U	0.023 U 0.023 U
Acetone Acrylonitrile	0.27	24	28	1.2	0.022 U 0.11 U	0.029 U 0.14 U	0.02 U 0.1 U	0.025 U 0.13 U	0.027 U 0.14 U	0.027 U 0.13 U	0.021 U 0.11 U	0.02 U 0.1 U	0.023 U 0.12 U
	0.27	24	28	5.6	0.0054 U	0.14 U 0.0072 U	0.10 0.0051 U	0.13 U 0.0063 U	0.14 U 0.0068 U	0.13 U 0.0066 U	0.0053 U	0.10 0.0051 U	0.12 U 0.0059 U
Benzene Bromochloromethane	0.5	10000	10000	0.0	0.0054 U 0.0054 U	0.0072 U 0.0072 U	0.0051 U 0.0051 U	0.0063 U 0.0063 U	0.0068 U 0.0068 U	0.0066 U 0.0066 U	0.0053 U 0.0053 U	0.0051 U 0.0051 U	0.0059 U 0.0059 U
Bromochloromethane	9 10	45	51	1.4	0.0054 U 0.0054 U	0.0072 U 0.0072 U	0.0051 U 0.0051 U	0.0063 U 0.0063 U	0.0068 U 0.0068 U	0.0066 U 0.0066 U	0.0053 U 0.0053 U	0.0051 U 0.0051 U	0.0059 U 0.0059 U
Bromodichioromethane	10	40	1700	220	0.0054 U 0.0054 U	0.0072 U 0.0072 U	0.0051 U 0.0051 U	0.0063 U 0.0063 U	0.0068 U 0.0068 U	0.0066 U 0.0066 U	0.0053 U 0.0053 U	0.0051 U 0.0051 U	0.0059 U 0.0059 U
	10	1500	1700	220	0.0004 0	0.0072 0	0.0001.0	0.0003 0	0.0000 0	0.0000 U	0.0000 0	0.0001 0	0.0009.0

Table 1. Soils Data Summary - Building 45 (B45) Former York Naval Ordnance Plant - York, PA

Location/ID	MSC	MSC	MSC	EPA RBC ¹	B45-TP-1A	B45-TP-1B	B45-TP-1C	B45-TP-1D	B45-TP-1E	B45-TP-1F	B45-TP-1G	B45-TP-1H	B45-TP-1H
Depth (ft.)	Soil to GW	Direct Contact	Direct Contact	Industrial	10.5 - 11	11 - 11.5	11 - 11.5	11 - 11.5	11 - 11.5	11 - 11.5	11 - 11.5	11 - 11.5	11 - 11.5
Sample Date	Used Aquifer	0 - 2 ft	2 - 15 ft	Soil	1/8/2009	1/8/2009	1/8/2009	1/8/2009	1/8/2009	1/8/2009	1/8/2009	1/8/2009	1/8/2009
Parameter	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bromomethane	1	270	300	35	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Carbon Disulfide	410	10000	10000	3000	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Carbon Tetrachloride	0.5	110	120	1.3	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Chlorobenzene	10	10000	10000	1500	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Chlorodibromomethane	10	61	70		0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Chloroethane	90	10000	10000		0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Chloroform	10	17	19	1.5	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Chloromethane	0.3	920	1000	510	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
cis-1,2-Dichloroethene	7	1900	2100		0.00096 J	0.0019 J	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
cis-1,3-Dichloropropene	2.6	410	470		0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Ethylbenzene	70	10000	10000	29	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Methyl tert-butyl ether	2	3200	3700	190	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Methylene chloride	0.5	3500	4000	54	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Styrene	24	10000	10000	38000	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Tetrachloroethene	0.5	1500	3300	2.7	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Toluene	100	10000	10000	46000	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
trans-1,2-Dichloroethene	10	3700	4300		0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
trans-1,3-Dichloropropene	2.6	410	470		0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Trichloroethene	0.5	970	1100	14	0.001 J	0.0026 J	0.0051 U	0.0011 J	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Vinyl Chloride	0.2	53	220	1.7	0.0054 U	0.0072 U	0.0051 U	0.0063 U	0.0068 U	0.0066 U	0.0053 U	0.0051 U	0.0059 U
Xylenes (Total)	1000	10000	10000	2600	0.016 U	0.022 U	0.015 U	0.019 U	0.02 U	0.02 U	0.016 U	0.015 U	0.018 U

Qualifier	Explanation
	Organic Data Qualifiers
J	Indicates an estimated value. This flag is used when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample unpitient limit hut research they are set.
В	Analyte is found in the associated blank, as well as in the
U	with the detection limit value.
	Inorganic Data Qualifiers
J	Analyte is found in the associated blank, as well as in the
В	Indicates an estimated value. This flag is used when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample
E	Matrix Interference
U	with the detection limit value.

Screening Value Comparison Qualifiers

Qualifier	Explanation
	Soils
w	Excedence of the Pennsylvania DEP Act 2 Medium Specific Concentration for Soil to Groundwater (are the greater of the "100 X GW MSC" and "Generic" regulation values).
x	Excedence of the Pennsylvania DEP Act 2 Medium Specific Concentration for Direct Contact 0' to 2' below ground surface.
Y	Excedence of the Pennsylvania DEP Act 2 Medium Specific Concentration for Direct Contact 2' to 15' below ground surface.
Z	Excedence of the United States EPA Region 3 Risked Based Concentrations for Industrial soil. Per EPA, for certain low-toxicity chemicals, the screening levels exceed possible concentrations at the target risks.

NOTES:

- RBCs Risk Based Concentrations from:
- United States Environmental Protection Agency (EPA), May 19, 2009; Regional Screening Level Table.
- MSCs Medium Specific Concentrations from:
 - Pennsylvania Department of Environmental Protection (DEP), November 24, 2001; from Chapter 250, Appendix A.
 - 1 EPA has indicated that for certain low-toxicity chemicals, the screening levels exceed possible concentrations at the target risks.

APPENDIX A

Historical Drawings

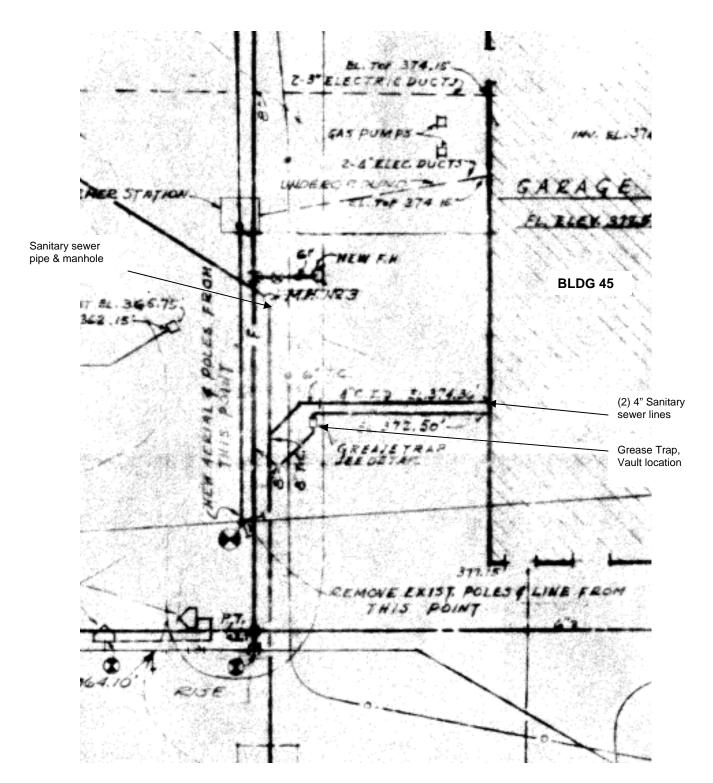


Figure 1. Bldg 45 facilities - 1945 Blaw-Knox As-Built Drawing.

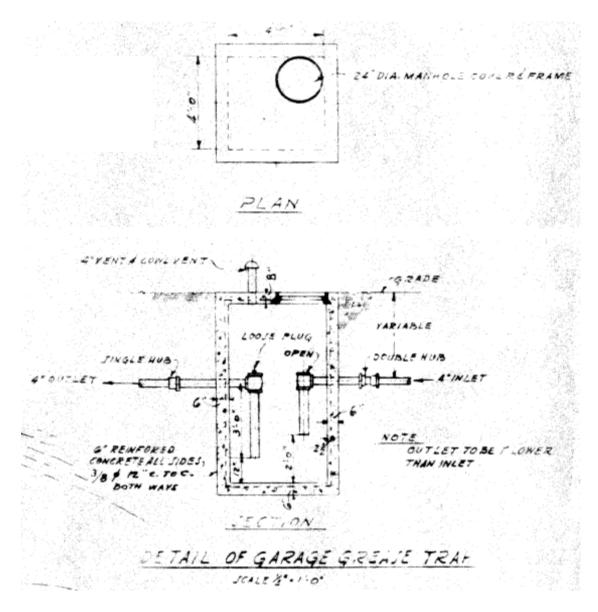


Figure 2. Bldg 45 Grease Trap Detail - 1945 Blaw-Knox As-Built Drawing.

APPENDIX B

Photographs



Photo 1 - Building 45 vault looking south. Building 45 is the left (west).



Photo 2 - Liquid in Building 45 vault prior to cleaning.



Photo 3 - Sump pump installed in Building 45 vault to remove liquids after cleaning.



Photo 4 - Liquids from Building 45 vault pumped into Baker Tank located next to vault.



Photo 5 - Condensate knockout tank that was the source of water draining into the vault following cleaning. This water was redirected with a hose to discharge into floor drain in men's bathroom during the closure of the vault.



Photo 6 - One of the 3 floor drains in Building 45 that were cemented shut as part of the vault closure procedure.



Photo 7 - Influent pipe from Building 45 into vault.



Photo 8 - Excavating Building 45 Vault and breaking concrete with jack hammer.



Photo 9 - Vault with top removed.



Photo 10 - Vault removed from excavation. Influent pipe visible on north side of excavation.



Photo 11 - East wall of excavation-stained and/or gleyed soil and wood debris visible.



Photo 12 - Excavated gleyed/stained soil from east wall of vault.



Photo 13 - Looking north at Building 45 vault excavation prior to sample collection



Photo 14 – Final closure of the vault. Compacted gravel overlain by topsoil, ready for seed by H-D trades.

APPENDIX C

Waste Characterization Results and Disposal Manifests

e print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Eme		1	4. Manifest		Approved.		
WASTE MANIFEST PADOO1643691 1 87	7.818.0				024	3 01	JN
D. Generator s Marine and Maturg Address	ors Sile Address	(ir ditterent th	an mailing addres	i)			
Harley-Davidson Motor Co. Ops., Inc. 1425 Eden Road, York, PA 17402							
Generalor's Phone: 717-848-1177							
6. Transporter 1 Company Name			U.S. EPAID N		C A		
Freehold Cartage, Inc.		22- 3 A.T	U.S. EPAIDIN			. 4	- H
7. Transporter 2 Company-Name		ŕ	1				¥
8. Designated Facility Name and Site Address			U.S. EPA ID N	umber			
Envirite of Pennsylvania, Inc.				<u></u>)		
730 Vogelsong Road, York, PA 17404			PADO	01/15	4045		
Facility's Phone: 717-846-1900	10. Conta	iners	11. Total	12. Unit	1		
ga. 9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, JD Number, and Packing Group (if any))	No.	Туре	Quantity	Wt./Vol.	13.	Waste Cod	35
¹ NA3077, Hazardous Waste Solid, N.O.S.,				a da sera Na g	D040		
X (Trichloroethylene), 9, PG III, RQ (D040)	001	CM	20	Y			
		1					
						a n The second se	
				[ļ	<u> </u>
3.			i v				
				1]	
					-		+
4.					·		
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reine Box # 6407 VES PO # 3718-13658	and accurately d	escribed abov	e by the proper st	ipping nam	ne, and are d	assified, pao	kaged,
 14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reme Box # 6467 VES PO # 3718-13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable int Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(b) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(b) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(b) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(b) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(b) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(b) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(b) (if I am a large quantity generator) of the statement identified in 40 CFR 262.27(b) (if I am a large q	and accurately d ernational and na nt of Consent.	escribed abov Nional govarn	e by the proper sh nental regulations	ipping nam	ne, and are claim hipment and	assified, pao I am the Pri	
 14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reme Box # 64-07 VES PO # 3718-13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable int Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgmen I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Signature 	and accurately d emational and na nt of Consent. or (b) (if I am a sm	escribed abov dional govarn nall quantily ge	e by the proper sh nental regulations	ipping nam	ne, and are cla hipment and	assified, pao I am the Pri onth Da	y Year
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reme Box # 0407 VES PO # 3718-13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable into Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name Signature Signature With State State State Signature	and accurately d emational and na nt of Consent. or (b) (if I am a sn	escribed abov tional governm nall quantily ge MBc	e by the proper sh nental regulations	ipping nam	ne, and are cla hipment and	assified, pao I am the Pri	y Year
 14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reme Box # 64-07 VES PO # 3718-13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable int Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgmen I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Signature 	and accurately d ermational and na nt of Consent. or (b) (if I am a sn on Qa Y Port of e	escribed abov dional govarn nall quantily ge	e by the proper sh nental regulations	ipping nam	ne, and are cla hipment and	assified, pao I am the Pri onth Da	y Year
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reme Box # 6407 VES PO # 3718–13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable into Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name Signature Signature Bits International Shipments import to U.S. Trainsporter signature (for exports only): import to U.S. 17. Transporter Acknowledgment of Receipt of Materials	and accurately d ermational and na nt of Consent. or (b) (if I am a sn on Qa Y Port of e	escribed abov ational govarnr nall quantity ge nall quantity ge antry/exit:	e by the proper sh nental regulations	ipping nam	ne, and are claim in the second	assified, pace I am the Pri conth Da	y Year 109
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reine Box # 6407 VES PO # 3718-13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable into Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name Signature Signature 16. International Shipments import to U.S. Traitsporter signature (for exports only): Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature	and accurately d ermational and na nt of Consent. or (b) (if I am a sn on Qa Y Port of e	escribed abov ational govarnr nall quantity ge nall quantity ge antry/exit:	e by the proper sh nental regulations	ipping nam	ne, and are claim in the second	assified, pao I am the Pri onth Da	y Year 1 09
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reme Box # 6407 VES PO # 3718-13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable int Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name D(CENDA DECEDED) Dimport to U.S. 16. Intermational Shipments import to U.S. 17. Transporter signature (for exports only): Transporter 1 Printed/Typed Name 17. Transporter 1 Printed/Typed Name Signature 18. Intermational Shipments import to U.S. 19. Transporter signature (for exports only): Signature 17. Transporter 1 Printed/Typed Name Signature 19. Transporter 1 Printed/Typed Name Signature	and accurately d ermational and na nt of Consent. or (b) (if I am a sn on Qa Y Port of e	escribed abov ational govarnr nall quantity ge nall quantity ge antry/exit:	e by the proper sh nental regulations	ipping nam	ne, and are cl hipment and Mi	assified, pace I am the Pri conth Da	y Year 1 09 y Year 9 09
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reine Box # 64.07 VES PO # 3718-13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable interpreter in the extension of the stacked EPAAcknowledgment certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name Signature Signature Dimport to U.S. Import to U.S. Transporter signature (for exports only): Transporter 1 Printed/Typed Name With Market and Signature (for exports only): Signature Market and Market and Signature Signature	and accurately d ermational and na nt of Consent. or (b) (if I am a sn on Qa Y Port of e	escribed abov ational govarnr nall quantity ge nall quantity ge antry/exit:	e by the proper sh nental regulations	ipping nam	ne, and are cl hipment and Mi	assified, pac I am the Pri Dath Da Dath Da Dath Da	y Year 1 09 y Year 9 09
14. Special Handling Instructions and Additional Information 9a.1) Profile I8611 Concrete and Debris from Reine Box # 64677 VES PO # 3718-13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable integration in the terms of the attached EPAAcknowledgment certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the attached EPAAcknowledgment identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the terms of the attached EPAAcknowledgment of according to applicable integration statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the terms of the attached EPAAcknowledgment of according to applicable integrator's/Offeror's Printed/Typed Name Signature Signature 016. Intermational Shipments Import to U.S. 17. Transporter Acknowledgment of Receipt of Materials Signature 17. Transporter 1 Printed/Typed Name Signature 17. Transporter 2 Printed/Typed Name Signature 17. Transporter 2 Printed/Typed Name Signature	and accurately d ermational and na nt of Consent. or (b) (if I am a sn on Qa Y Port of e	escribed abov ational govarnr nall quantity ge nall quantity ge antry/exit:	e by the proper sh nental regulations	ipping nam	ne, and are cl hipment and Mi	assified, pac I am the Pri Dath Da Dath Da Dath Da	y Year 1 09 y Year 9 09
14. Special Handling Instructions and Additional Information 9a.1) Profile I8611 Concrete and Debris from Retries Box # 64.07 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarided, and are in all respects in proper condition for transport according to applicable interporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or Generator's/Offeror's Printed/Typed Name Signature Signature 16. International Shipments Import to U.S. Transporter signature (for exports only): Import to U.S. 17. Transporter 1 Printed/Typed Name Signature Off. Signature 17. Transporter 2 Printed/Typed Name Signature	and accurately d ermational and na nt of Consent. or (b) (if I am a sn on Qa Y Port of e	escribed abov ational govarnr nall quantity ge nall quantity ge antry/exit:	e by the proper sh nental regulations	ipping nam If export s	ne, and are cl hipment and Mi	assified, pac I am the Pri Donth Da Dath Da Dath Da Dath Da	y Year 1 09 y Year 9 09
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reine Box # 64677 VES PO # 371.8–1.3658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable inthe Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment leartify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or Generator's/Offeror's Printed/Typed Name Bicenardor's/Offeror's Printed/Typed Name Signature Bicenardor of the corports only): Import to U.S. Trainsporter signature (for exports only): Import to U.S. Trainsporter 1 Printed/Typed Name Signature Trainsporter 2 Printed/Typed Name Signature	and accurately d emational and near nt of Consent. or (b) (if I am a sm prod of 1 Port of e Date lea	escribed abov tional governm nall quantity ge ntry/exit: ving U.S.:	e by the proper sh nental regulations inerator) is true.	ipping nam If export s	ne, and are cl hipment and Mi	assified, pac I am the Pri Donth Da Dath Da Dath Da Dath Da	y Year 09 y Year 9 09 y Year
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reine Box # 0407 VES PO # 3718–13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable into Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name Differor's Printed/Typed Name Signature Differor's Printed/Typed Name Signature Transporter signature (for exports only): Import to U.S. 17. Transporter Acknowledgment of Receipt of Materials Signature Transporter 1 Printed/Typed Name Signature 18. Discrepancy Quantity 18. Discrepancy Quantity 18. Discrepancy Quantity	and accurately d emational and near nt of Consent. or (b) (if I am a sm prod of 1 Port of e Date lea	escribed abov tional government all quantity ge mtry/exit: ving U.S.:	e by the proper sh nental regulations inerator) is true.	ipping nam if export s jection	Market And Are Cl.	assified, pac I am the Pri Donth Da Dath Da Dath Da Dath Da	y Year 09 y Year 9 09 y Year
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reine Box # 0407 VES PO # 3718–13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable into Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name Differor's Printed/Typed Name Signature Differor's Printed/Typed Name Signature Transporter signature (for exports only): Import to U.S. 17. Transporter Acknowledgment of Receipt of Materials Signature Transporter 1 Printed/Typed Name Signature 18. Discrepancy Quantity 18. Discrepancy Quantity 18. Discrepancy Quantity	and accurately d emational and near nt of Consent. or (b) (if I am a sm prod of 1 Port of e Date lea	escribed abov tional governm nall quantity ge ntry/exit: ving U.S.:	e by the proper sh nental regulations inerator) is true.	ipping nam if export s	Market And Are Cl.	assified, pac I am the Pri Donth Da Dath Da Dath Da Dath Da	y Year 09 y Year 9 09 y Year
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reine Box # 0407 VES PO # 3718–13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable into Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name Differor's Printed/Typed Name Signature Differor's Printed/Typed Name Signature Transporter signature (for exports only): Import to U.S. 17. Transporter Acknowledgment of Receipt of Materials Signature Transporter 1 Printed/Typed Name Signature 18. Discrepancy Quantity 18. Discrepancy Quantity 18. Discrepancy Quantity	and accurately d emational and near nt of Consent. or (b) (if I am a sm prod of 1 Port of e Date lea	escribed abov tional government all quantity ge mtry/exit: ving U.S.:	e by the proper sh nental regulations inerator) is true.	ipping nam if export s jection	Ane, and are cl. hipment and Market	assified, pac I am the Pri Donth Da DB } S DB S DONTH Da DA S C DONTH DA DA S C DA DA S S S S S S S S S S S S S S S S S S S	y Year 09 y Year 9 09 y Year
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reine Box # 0407 VES PO # 3718–13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable into Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name Differor's Printed/Typed Name Signature Differor's Printed/Typed Name Signature Transporter signature (for exports only): Import to U.S. 17. Transporter Acknowledgment of Receipt of Materials Signature Transporter 1 Printed/Typed Name Signature 18. Discrepancy Quantity 18. Discrepancy Quantity 18. Discrepancy Quantity	and accurately d emational and near nt of Consent. or (b) (if I am a sm prod of 1 Port of e Date lea	escribed abov tional government all quantity ge mtry/exit: ving U.S.:	e by the proper sh nental regulations inerator) is true.	ipping nam if export s jection	Ane, and are cl. hipment and Market	assified, pac I am the Pri Donth Da DB } S DB S DONTH Da DA S C DONTH DA DA S C DA DA S S S S S S S S S S S S S S S S S S S	y Year 9 69 9 9 9 19 9 19 9 19 9 19 9 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 1
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reine Box # 0407 VES PO # 3718–13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable into Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name Differor's Printed/Typed Name Signature Differor's Printed/Typed Name Signature Transporter signature (for exports only): Import to U.S. 17. Transporter Acknowledgment of Receipt of Materials Signature Transporter 1 Printed/Typed Name Signature 18. Discrepancy Quantity 18. Discrepancy Quantity 18. Discrepancy Quantity	and accurately d emational and near nt of Consent. or (b) (if I am a sm Port of e Date lea	escribed abov tional government all quantity ge antry/exit:	e by the proper sh nental regulations inerator) is true.	ipping nam if export s jection	Ane, and are cl. hipment and Market	assified, pac I am the Pri Donth Da DB } S DB S DONTH Da DA S C DONTH DA DA S C DA DA S S S S S S S S S S S S S S S S S S S	y Year 9 69 9 9 9 19 9 19 9 19 9 19 9 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 1
14. Special Handling Instructions and Additional Information 9a.1) Profile I8611 Concrete and Debris from Reine Box # 64607 VES PO # 3718–13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable interpret to entity that the contents of this consignment conform to the terms of the attached EPAAcknowledgment to entity that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of the terms of the attached EPAAcknowledgment of Bacher Generator's/Offeror's Printed/Typed Name Signature Differor's Printed/Typed Name Signature 77. Transporter Acknowledgment of Receipt of Materials Signature 77. Transporter Acknowledgment of Receipt of Materials Signature 77. Transporter Acknowledgment of Receipt of Materials Signature 78. Discrepancy Signature 18. Discrepancy Quantity Type 18. Discrepancy IBb. Alternate Facility (or Generator) Signature 78. Target Phone: Type Type	and accurately d emational and near nt of Consent. or (b) (if I am a sm Port of e Date lea Date lea Consent Port of e Date lea Consent Port of e Date lea	escribed abov tional government all quantity ge antry/exit:	e by the proper sh nental regulations inerator) is true.	ipping nam if export s jection	Mana and are classification and are classific	assified, pac I am the Pri Donth Da DB } S DB S DONTH Da DA S C DONTH DA DA S C DA DA S S S S S S S S S S S S S S S S S S S	y Year 9 69 9 9 9 19 9 19 9 19 9 19 9 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 1
14. Special Handling Instructions and Additional Information 9a.1) Profile I8611 Concrete and Debris from Refine Box # 6407 VES PO # 3718–13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable interporter, locrity that the contents of this consignment conform to the terms of the attached EPA Achnowledgment locrify that the waste minimization statement identified in 40 CFR 262.27(a) (f1 am a large quantity generator) or Generator's/Offeror's Printed/Typed Name Breacher M Bacher C 16. International Shipments import to U.S. Transporter Acknowledgment of Receipt of Materials Signature 77. Transporter Acknowledgment of Receipt of Materials Signature 71. Transporter 2 Printed/Typed Name Signature 71. Transporter 2 Printed/Typed Name Signature 71. Discrepancy Ita. Discrepancy 18. Discrepancy </td <td>and accurately d emational and ne nt of Consent. or (b) (if I am a sm Port of e Date lea Accurately d Port of e Date lea Accurately d Residue Manifest Referen</td> <td>escribed abov tional government all quantily ge mitry/exit:</td> <td>e by the proper sheental regulations inerator) is true.</td> <td>ipping nam if export s jection</td> <td>Magnetic and are classification of the second secon</td> <td>assified, pac I am the Pri Donth Da DB } S DB S DONTH Da DA S C DONTH DA DA S C DA DA S S S S S S S S S S S S S S S S S S S</td> <td>y Year 9 69 9 9 9 19 9 19 9 19 9 19 9 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 1</td>	and accurately d emational and ne nt of Consent. or (b) (if I am a sm Port of e Date lea Accurately d Port of e Date lea Accurately d Residue Manifest Referen	escribed abov tional government all quantily ge mitry/exit:	e by the proper sheental regulations inerator) is true.	ipping nam if export s jection	Magnetic and are classification of the second secon	assified, pac I am the Pri Donth Da DB } S DB S DONTH Da DA S C DONTH DA DA S C DA DA S S S S S S S S S S S S S S S S S S S	y Year 9 69 9 9 9 19 9 19 9 19 9 19 9 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 1
14. Special Handling Instructions and Additional Information 9a.1) Profile 18611 Concrete and Debris from Reine Box # 0407 VES PO # 3718–13658 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable into Exporter, I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the contents of this consignment conform to the terms of the attached EPAAcknowledgment I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) of Generator's/Offeror's Printed/Typed Name Differor's Printed/Typed Name Signature Differor's Printed/Typed Name Signature Transporter signature (for exports only): Import to U.S. 17. Transporter 1 Printed/Typed Name Signature Discrepancy Signature 18. Discrepancy Quantity 18. Discrepancy Quantity	and accurately d emational and ne nt of Consent. or (b) (if I am a sm Port of e Date lea Accurately d Port of e Date lea Accurately d Residue Manifest Referen	escribed abov tional government all quantily ge mitry/exit:	e by the proper sheental regulations inerator) is true.	ipping nam if export s jection	Are, and are cl. hipment and Market	assified, pac I am the Pri Donth Da DC I S DC I S DC I S DC I C DONTH Da I S S I C DONTH Da I S S I S S I S S I S S S I S S S S S S	y Year 9 69 9 9 9 19 9 19 9 19 9 19 9 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 1

RÉPUBLIC SERVICES, INC.
SERVICES, INC.

07 42369

GENERATOR INFORMATION			CUSTOMER/BILLING INFORMATION				
Generator Name: Ha	arley-Davidson Motor Co. Ops, Inc	• Billin	g Name: York Was	ste Disposal	· · · · · · · · · · · · · · · · · · ·		
Address:1425 Ede	en Roač	Addr	ess: 3730 Sandhu	rst Drive			
City: <u>York</u>	County: York	City:	York	County:	. York		
State: PA	Zip:7402		· · ·	Zip <u>17</u> -	406		
Site Location (if diffe	rent):						
	승규가 그렇게 물어 물건을 가려면 것이 없는 것이다.	BC	x#250	2/			
Republic Services Approval Number	Description of Waste		Volume/Weight	Expiration Date	Container Type		
20717J1				-			
		rator)	11.54				
	1017 Nenecitacion Itust Lano						
*Attach Additional She	Barley-Bavidson Notor Cc. Ops, Inc. Billing Name: York Waste Disposal den Road Address: 3730 Sendhurst Drive						
	R Fisher XIA Agent Name Signatur	e e	Fisher	~	2/2/09 Date Shipped		
				F & A & F			
	, _			a .	<u></u>		
7	Address: 730 Vogelsong Roac				_ ·		
	York, PA 17406	Phone	Number: (717)84	16-1900	_		
I certify no hazardou this vehicle is the wa	ste identified above, to the best of my knowledge	igly introduc	ed to the waste whil	e in my custody. Th	ne waste transported in		
TAMES_	• · · · · · · · · · · · · · · · · · · ·		w D. ///		2/2/07		
Name of Authorized Ag	ent Signatur	e //			Date Delivered '		
	DISPOSAL SI	FE INFORM	ATION				
	Site Name: Modern Landfill	Phone	Number: 717-24	46-2686	_		
	Address: 4400 Mt. Pisgah Road, York,	PA 17406			-		
	a an		- m.				
I hereby acknowledg	e receipt of the above described materials.		$\overline{}$				
	X	(()	2205			
Name (Print or Type)	Signatur	9		/_	Date Received		

SERVICES, INC.

07 42370

NON-HAZARDOUS WASTE MANIFEST

GENERATOR IN	FORMATION	CUS	CUSTOMER/BILLING INFORMATION					
Generator Name:	Marley-Davidson Motor Co. Ops. Inc	• Billin	Billing Name: York Waste Disposal					
Address: <u>1425</u> E	State for the second	Address: <u>3730</u> Sandhurst Drive						
	County: York	City: York County York						
State: PA	Zip: 17402	State: PA Zip 17406						
Juno,		Ollic		q				
Site Location (if dif	ferent):		~ +	~~//	~			
	and and the first of the state		Rox # C	02810	J anakan karan di karang			
Republic Service	• ↓ • • • • • • • • • • • • • • • • • • •	Annual Control of Cont		<u>, / - / - / - / - / - / - / - / - / </u>				
Approval Numbe	Description of Waste		Volume/Weight	Expiration Date	Container Type			
20717J1	Non-Hazardous Soils	/		$\overline{)}$	20 Cu. Ya.			
	Please provide weight to gene	rator) (10.70					
	York Remediation Trust Fund	N.						
				,				
Attach Additional Sh	neet if necessary.				· · · · ·			
	TRANSPORT	ER INFORM	TATION					
	Transporter Name: Envirite of PA	DOT N	lumber: PAD0101	54045				
the second s	Address: 730 Vogelsong Road	Truck	Number: <u>801/</u>	0/9006				
en e		1月1日)2月1日 1月1日 - 日本日本日本日 1月1日 - 日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本日本		AC 1000				
	York, PA 17406	Phone	Number: (717)8	40-1900	-			
certify no hazardo	ous waste or other regulated substance was knowir	ngly introduç	ed to the waste whil	e in my custody. Th	e waste transported			
his vehicle is the w	vaste identified above, to the best of my knowledge	. L	I G MM		- 10/00			
THMES	MILLER, VK X	- law	-0.1100	· · · · · · · · · · · · · · · · · · ·	- 21d10/			
lame of Authorized A	Agent Signatur	e	*		Date Delivered			
	DISPOSAL SI	tė inforn	IATION					
	Site Name: Modern Landfill	Phone	Number: 717-24	46-2686				
te di seconda di second Seconda di seconda di se	4400 Mt. Pisgah Road, York,		· · · · ·					
e Na Status anna an Arain	Address:			·				
hough a star as for								
nereby acknowled	lge receipt of the above described materials.		<u> </u>					
	Х		() 2	207				

Signature

		<u>n</u> _n				EUX T FUN			
		NON-HAZ	SERVICES	JBLIC , inc. Aste manifes	07	42371			
ENERATOR INFO	RMATION	and and a second se		CUSTOMER/BILLIN		in the second			
enerator Name: Har	ley-Daivs	on Motor Ca. C	Dps.Inc.	Billing Name: York 🛚	Vaste Disposal				
idress:1425 Eder	8			Address: 3730 Saladhurst Drive					
and an	y: <u>York</u> County: York				County:	County:			
		zip: <u>17402</u>		State: PA		ip17406			
ite Location (if differ	ərit):								
Republic Services Approval Number		Description of	Waste	Volume/Weight	Expiration Date	Container Type			
20717J1		rdous Soils	L &			20 Cu. Yd.			
	 An element our removal de la constitue 	provide weigh mediation Trus	t to generator	<u>.</u>					
			de weekstelle Killer versterene inder der	ta nikun kesiki managina panakan dapat ta panakan					
nereby certify that the above named ansportation accord	t if necessary. the above desc d materials are ing to the app F_1 - $H \in C$	ibed materials are n properly classified, i licable regulations of	on-hazardous waste described, packaged f the Department of T X 2 La chie		261 or any applicab and are in proper col	e state law. Further, Idition for 2/2/09 Date Shipped			
hereby certify that the above named ansportation accord	t if necessary. le above desc l materials are ing to the app Fight Name	ibed materials are n properly classified, i licable regulations of	on-hazardous waste described, packaged f the Department of T X 2 An 151 Signature RANSPORTER INI	FORMATION		e state law. Further, ndition for <u>2/2/09</u> Date Shipped			
hereby certify that the above named ansportation accord	t if necessary. le above desc l materials are ing to the app Fight Name	ibed materials are n properly classified, i licable regulations o	on-hazardous waste described, packaged f the Department of T X 2 An 151 Signature RANSPORTER INI	FORMATION	261 or any applicab and are in proper col	e state law. Further, idition for $\frac{2/2/09}{\text{Date Shipped}}$			
hereby certify that the above named ansportation accord <u>Sharon</u> enerator/Authorized A	t if necessary. t above desc d materials are ing to the app <u>FiGACC</u> gent Name	ibed materials are n properly classified, i licable regulations of	on-hazardous waste described, packaged fithe Department of T X <u>X A A A A</u> Signature RANSPORTER INI of PA	FORMATION		e state law. Further, idition for 2/2/09 Date Shipped			
hereby certify that the above named ansportation accord <u>Sharon</u> enerator/Authorized A	t if necessary. the above desc i materials are ing to the app Fight o the app Fight o the app Transporter N Address: <u>73</u>	ibed materials are n properly classified, o licable regulations of	on-hazardous waste described, packaged f the Department of T X 2 4 4 4 5 Signature RANSPORTER INI of PA	A, marked and labeled, Transportation. FORMATION FORMATION DOT Number: PADOIC Truck Number:		e state law. Further, ndition for 2/2/09 Date Shipped			
hereby certify that the above named ansportation accord <u>Sharon</u> enerator/Authorized A	t if necessary. te above desc materials are ing to the app <u>Fidter</u> gent Name Transporter N Address: <u>73</u> <u>Yo</u>	ibed materials are n properly classified, d licable regulations of TF ame: Envirite c O Vogelsong Rc ck, PA 17406	on-hazardous waste described, packaged fithe Department of T X 2 4 4 4 4 Signature RANSPORTER INI of PAI badI ce was knowingly int	A, marked and labeled, Transportation. A FORMATION DOT Number: Truck Number:	0154045 2842 2846-1900	2/2/09 Date Shipped			
certify no hazardous is vehicle is the was	t if necessary. te above desc d materials are ing to the app <u>Fidter</u> gent Name Transporter N Address: <u>73</u> <u>Yo</u> waste or othe ste identified a <u>A</u> <u>A</u>	ibed materials are n properly classified, a licable regulations of TF ame: Envirite c D Vogelsong Rc ck, PA 17405 rregulated substant bove, to the best of r	on-hazardous waste described, packaged fithe Department of T Signature RANSPORTER INI of PA [bad] ce was knowingly int my knowledge. 	A, marked and labeled, Transportation. FORMATION DOT Number: PADOLO Truck Number: (717) Phone Number: (717) troduced to the waste w	0154045 2842 2846-1900	2/2/09 Date Shipped			
certify no hazardous is vehicle is the was	t if necessary. te above desc d materials are ing to the app <u>Fidter</u> gent Name Transporter N Address: <u>73</u> <u>Yo</u> waste or othe ste identified a <u>A</u> <u>A</u>	ibed materials are n properly classified, a licable regulations of TF ame: Envirite c D Vogelsong Rc ck, PA 17405 rregulated substant bove, to the best of r	on-hazardous waste described, packaged fithe Department of T 	FORMATION Truck Number: 717) Phone Number: 717) FORMATION	2154045 2842)846–1900 /hile in my custody. T	2/2/09 Date Shipped			
certify no hazardous is vehicle is the was	t if necessary. te above desc d materials are ing to the app <u>Fidter</u> gent Name Transporter N Address: <u>73</u> <u>Yo</u> waste or othe ste identified a <u>A</u> <u>A</u>	ibed materials are n properly classified, o licable regulations of TF ame: Envirite C D Vogelsong RC D Vogelsong RC Ck, PA 17406 or regulated substant bove, to the best of r D D D D D D D D Modern Landfill	on-hazardous waste described, packaged fithe Department of T 	A, marked and labeled, Transportation. FORMATION DOT Number: PADOLO Truck Number: 717) Phone Number: (717) troduced to the waste w CALLED A	0154045 2842 2846-1900	2/2/09 Date Shipped			
certify no hazardous is vehicle is the was ame of Authorized Age	t if necessary. te above desc materials are ing to the app <u>Fille C</u> gent Name Transporter N Address: <u>73</u> <u>Yo</u> waste or otheste identified a <u>Address:</u> Site Name: Address:	ibed materials are n properly classified, o licable regulations of TF ame: Envirite C D Vogelsong RC ck, PA 17406 or regulated substant bove, to the best of r DDDD DI Modern Landfill 4400 Mt. Pisgah	on-hazardous waste described, packaged fithe Department of T 	A, marked and labeled, Transportation. FORMATION DOT Number: PADOLO Truck Number: 717) Phone Number: (717) troduced to the waste w CALLED A	2154045 2842)846–1900 /hile in my custody. T	2/2/09 Date Shipped			
certify no hazardous is vehicle is the was	t if necessary. te above desc materials are ing to the app <u>Fille C</u> gent Name Transporter N Address: <u>73</u> <u>Yo</u> waste or otheste identified a <u>Address:</u> Site Name: Address:	ibed materials are n properly classified, o licable regulations of TF ame: Envirite C D Vogelsong RC D Vogelsong RC Ck, PA 17406 or regulated substant bove, to the best of r D D D D D D D D Modern Landfill	on-hazardous waste described, packaged fithe Department of T 	A, marked and labeled, Transportation. FORMATION DOT Number: PADOLO Truck Number: 717) Phone Number: (717) troduced to the waste w CALLED A	2154045 2842)846–1900 /hile in my custody. T	2/2/09 Date Shipped			



6007 yo 07 42372

NON-HAZARDOUS WASTE MANIFEST

GENERATOR INFORMATION			CUSTOMER/BILLING INFORMATION				
Generator Name Har.	ley-Davidson Motor Co.Ops., Inc.	Billing Name: <u>York Waste Disposal</u> Address: <u>3730 Sandhurst Drive</u>					
	n Road	Addre	ss: <u>3730 Sandhi</u>	rst Drive			
City: <u>York</u>	County: York	City: <u>York</u> County: <u>York</u> State: <u>PA</u> Zip <u>17406</u>					
State: PA	Zip: <u>17402</u>	State:	PA	Zip <u>17</u>	406		
	,	digit Actors					
Site Location (il dillere	ent):		가지? 한 바람을 통해 있는 것이다. 한 바람을 통해 있는 것이다. 한 바람을 통해 있는 것이다.				
		×. 1.		191	an a		
Republic Services	Description of Waste		Volume/Weight	Expiration Date	Container Type		
Approval Number					20:Cu. yd.		
20717J1	Non-Hazardous Soils		19.37.	.)			
	(Please provide weight to generate						
	York Remediation Trust Fund						
*Attach Additional Shee	t if necessary. Ie above described materials are non-hazardous wa						
ά.	TRANSPORTER	INFORM	IATION				
	Transporter Name: Envirite of PA	_ DOT N	umber: PAD0101	54045			
lagar a sa si si si si sa sa Tang sa sa si	Address: 7 <u>30 Vogelsong Road</u> York, PA 17406	Truck	Number: (717)8	<u>×4</u> 46–1900			
L certify no bazardous	s waste or other regulated substance was knowingly ste identified above, to the best of my knowledge.	introduc	ed to the waste wh	ile in my custody. T	he waste transported in		
HAROLS) A WOOD X d	lan	S A I	Not	 Date Delivered		
Name of Authorized Age							
	DISPOSAL SITE	INFORM	ATION				
n alas anti anti anti anti anti anti anti anti	Site Name: Modern Landfill		化甲基酚 法法公司 法公司	246-2686	1970 - Alexin Alexin, and Alexin - Alexin Alexin - Alexin Alexin - Alexin - A		
a an	Address: 4400 Mt. Pisgah Road, York, PA	17406			· · · · ·		
I hereby acknowledg	e receipt of the above described materials.	\prod		205			
	X	4	<u> </u>	••••••	Date Received		

	SERV.				
	NON-HAZARDOU	S WAST	E MANIFES	T.	· · · · ·
ENERATOR INFO	DRMATION	CUS	TOMER/BILLING	INFORMATION	
lenerator Name: Par	Jey-Davidson Motor Co. Ops.; In	c. Billing	y Name: <u>York</u> W	aste Disposel	1997 - 1997 -
and the second second	en Roac	and the second second	ess: <u>3730-Sandh</u>	urst Drive	
	County: <u>York</u>		Vork		
itate: <u>PA</u>	Zip: <u>17402</u>	State	<u>. PA</u>	Zip <u>174</u>	06
lite Location (if differ		•			
					•
		1			e
Republic Services Approval Number	Description of Waste		Volume/Weight	Expiration Date	Container Type
20717J1	Non-Hazardous Soils		$\left(1, 0 \right)$		20 Cu. Yd.
	(Please provide weight to gene	rator) ((1.43		
					
	York Remediation Trust Fund				
hereby certify that th	t if necessary. e aboye described materials are non-hazardou materials are properly classified, described, pa	s wastes as d ackaged; mar	rked and labeled, ar	61 or any applicabl	e state law. Further, ndition for
hereby certify that th nat the above named ansportation accord	t if necessary. e above described materials are non-hazardou I materials are properly classified, described, pains ing to the applicable regulations of the Departn M.M.M.	s wastes as d ackaged; mar nent of Transp	rked and labeled, ar	61 or any applicabled are in proper cor	e state law. Further, ndition for $\frac{1 - 20 - 0.9}{\text{Date Shipped}}$
hereby certify that th nat the above named ansportation accord	t if necessary. e above described materials are non-hazardou I materials are properly classified, described, pain ing to the applicable regulations of the Departn <u>Mathematical Signatu</u> gent Name Signatu	s wastes as d ackaged; mar nent of Transp hown ire	Red and labeled, ar	61 or any applicabl Id are in proper cor	1-70-09
hereby certify that th nat the above named ansportation accord	t if necessary. e above described materials are non-hazardou I materials are properly classified, described, pain ing to the applicable regulations of the Departn <u><u><u></u></u><u><u></u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>	s wastes as d ackaged; mar nent of Transp have n re TER INFORM		61 or any applicabled are in proper cor	1-70-09
hereby certify that th nat the above named ansportation accord	t if necessary. e above described materials are non-hazardou I materials are properly classified, described, pain ing to the applicable regulations of the Departn <u>Mathematical Signatu</u> gent Name Signatu	s wastes as d ackaged; mar nent of Transp have n re TER INFORM	Red and labeled, ar	61 or any applicabled are in proper cor	1-70-09
hereby certify that th nat the above named ansportation accord <u>Junn</u> R tenerator/Authorized A	t if necessary. e above described materials are non-hazardou I materials are properly classified, described, pain ing to the applicable regulations of the Departn <u><u><u></u></u><u><u></u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>	s wastes as d ackaged; mar nent of Transp wre ER INFORM <u>1</u> DOT N		61 or any applicabled are in proper con	1-70-09
hereby certify that th nat the above named ansportation accord <u>Junn</u> R tenerator/Authorized A	til necessary. e above described materials are non-hazardou I materials are properly classified, described, pain ing to the applicable regulations of the Departn y gent Name TRANSPORT Transporter Name: York Waste Disposa	s wastes as d ackaged, mar nent of Transp ner re ER INFORM 1 DOT N Truck	And labeled, and contation.	61 or any applicabled are in proper con	1-70-09
hereby certify that the above name ansportation accord	tif necessary. e above described materials are non-hazardou i materials are properly classified, described, pri- ing to the applicable regulations of the Departin <u>Address</u> : <u>York Waste Disposa</u> Address: <u>3730 Sanchurst Drive</u> <u>York, PA 17406</u> waste or other regulated substance was know	s wastes as d ackaged; mar nent of Transp re TER INFORM 1 DOT N Truck Phone ingly introduc	And labeled, ar		Idition tor <u>/- 20-09</u> Date Shipped
hereby certify that the above name ansportation accord	tif necessary. e above described materials are non-hazardou I materials are properly classified, described, pring ing to the applicable regulations of the Departn Marcon Signatu Transporter Name: York Waste Disposa Address: <u>3730 Sanchurst Drive</u> York, PA 17406	s wastes as d ackaged; mar nent of Transp re TER INFORM 1 DOT N Truck Phone ingly introduc	And labeled, ar		Idition tor <u>/- 20-09</u> Date Shipped
hereby certify that the above name ansportation accord <u><u><u></u></u> (enerator/Authorized A certify no hazardous nis vehicle is the was</u>	til necessary. e above described materials are non-hazardou I materials are properly classified, described, pain ing to the applicable regulations of the Departn yent Name TRANSPORT Transporter Name: <u>York Waste Disposa</u> Address: <u>3730 Sandhurst Drive</u> <u>York, PA 17406</u> waste or other regulated substance was know te identified above, to the best of my knowledg	s wastes as d ackaged; mar nent of Transp 	And labeled, ar		Idition tor <u>/- 20-09</u> Date Shipped
certify no hazardous	til necessary. e above described materials are non-hazardou I materials are properly classified, described, pain ing to the applicable regulations of the Departn yent Name TRANSPORT Transporter Name: <u>York Waste Disposa</u> Address: <u>3730 Sandhurst Drive</u> <u>York, PA 17406</u> waste or other regulated substance was know te identified above, to the best of my knowledg	s wastes as d ackaged; mar nent of Transp 	And labeled, ar		Indition for $\frac{1 - 20 - 09}{Date Shipped}$ The waste transported $\frac{1 - 20 - 09}{Date Shipped}$
hereby certify that the nat the above name ansportation accord yuung tenerator/Authorized A certify no hazardous his vehicle is the was	til necessary. e above described materials are non-hazardou I materials are properly classified, described, pain ing to the applicable regulations of the Departn yent Name TRANSPORT Transporter Name: <u>York Waste Disposa</u> Address: <u>3730 Sandhurst Drive</u> <u>York, PA 17406</u> waste or other regulated substance was know te identified above, to the best of my knowledg	s wastes as d ackaged; mar nent of Transp fre ER INFORM 1 DOT N Taruck Phone ingly introduc ie.	And labeled, ar		Indition for $\frac{1 - 20 - 09}{Date Shipped}$ The waste transported $\frac{1 - 20 - 09}{Date Shipped}$
hereby certify that the pat the above named ansportation accord yuuu R enerator/Authorized Age certify no hazardous is vehicle is the was ame of Authorized Age	til necessary. e above described materials are non-hazardou I materials are properly classified, described, pain ing to the applicable regulations of the Departn yent Name Signatu TRANSPORT Transporter Name: <u>York Waste Disposa</u> Address: <u>3730 Sandhurst Drive</u> <u>York, PA 17406</u> waste or other regulated substance was know ite identified above, to the best of my knowledg ant	s wastes as d ackaged; mar nent of Transp re TER INFORM 1 DOT N Truck Phone ingly introduc is ingly introduc is ingly introduc	A A A A A A A A A A A A A A A A A A A		Indition for $\frac{1 - 20 - 09}{Date Shipped}$ The waste transported $\frac{1 - 20 - 09}{Date Shipped}$
nereby certify that the above name ansportation accord yange enerator/Authorized Age certify no hazardous is vehicle is the was ame of Authorized Age	tif necessary. e above described materials are non-hazardou materials are properly classified, described, pri- ing to the applicable regulations of the Departin yent Name Signatu TRANSPORT Transporter Name: York Waste Disposa Address: <u>3730 Sandhurst Drive</u> York, PA 17406 waste or other regulated substance was know the identified above, to the best of my knowledg mt Signatu DISPOSAL S Modern Landfill	s wastes as d ackaged; mar nent of Transp re ER INFORM 1 DOT N Truck Phone ingly introduce ingly introduce ingly introduce ingly introduce ingly introduce ingly introduce	And labeled, ar contation. MATION Number: 348394 Number: 944 Number: 944 Numbe	ile in my custody. T	Indition for $\frac{1 - 20 - 09}{Date Shipped}$ The waste transported $\frac{1 - 20 - 09}{Date Shipped}$

Name (Print or Type)

X Signature

Date Received

07

2

Form 001.3/04 /SM09 9003 ~ -.1

Construction of the second	ST REPL SERVICES,	JBLIC	07	42368
	NON-HAZARDOUS WA			
GENERATOR INFO	RMATION	CUSTOMER/BILLING		
Generator Name:Ran	Tey-Davidson Motor Co. Ope., Inc. 1	Billing Name¥ <u>ork Was</u>	te Disposal	
Address: 1425 Ede	n Road 🧳	Address: <u>3730 Sandh</u>	urst Drivé	
City: <u>York</u>		Dity: ¥ork	County:	York
State: PA	Zip: <u>17402</u>	State: <u>PA</u>	Zip <u>174</u>	06
Site Location (if differe				ter en
Republic Services	Description of Waste	Volume/Weight	Expiration Date	Container Type
Approval Number	Non-Hazardous Soils			20. Ch. Y6.
20717.11	(Please provide weight to Generator)	(14.97		
	York Remediation Trust Fund		La construction de la constructi	
			a the set of	
	ing to the applicable regulations of the Department of T	en son son sin son son son son son son son son son so	$\overline{\sim}$	<u>1-30-07</u> Date Shipped
	TRANSPORTER INF	ORMATION		
	Transporter Name: York Waste Disposal D	OT Number: <u>348394</u>		-
		hone Number: (717)	- 375	-
this vehicle is the was	waste or other regulated substance was knowingly intr te identified above, to the best of my knowledge.	oduced to the waste wh	ile in my custody. Th	he waste transported in $\frac{2}{3}/3$
Name of Authorized Age	nt Signature	<u> </u>		Date Delivered
	DISPOSAL SITE INF		246-2686	-
	Address:4400 Mt. Pisgah Road, York, PA 174	406		
Thereby acknowledge	receipt of the above described materials.	TS -	220	9

Name (Print or Type)

Signature

.....

.... ..

Date Received

Table C-1 Buildings 45 Waste Characterization Summary Former York Naval Ordnance Plant - York, PA									
Parameter/Units	HD-B45-RO-01-5 1/9/2009	HD-B45-RO-02-5 1/9/2009	HD-B45-RO-03-5 1/9/2009	HD-B45-RO-04-5 1/9/2009	HD-B45-RO-05-5 1/9/2009	HD-B45-RO-06-5 1/9/2009	RCRA Toxicity Levels	EPA Hazardous Waste Number	
TCLP Metals (mg/L) Arsenic	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5	D004	
Barium	<0.50 0.31	<0.30 0.29	<0.50 0.26	<u><0.30</u> 0.27	<u><0.50</u> 0.47	<0.30 0.27	100	D004	
Cadmium	0.0018	0.0018	0.0015	0.0030	0.0022	0.0024	100	D005	
Chromium, total	0.0014	0.0012	0.0012	0.0014	0.0022	0.0016	5	D007	
Lead	0.0085	0.0094	0.0062	0.065	0.011	0.013	5	D008	
Mercury	< 0.0002	0.000025	0.000062	0.000021	<0.00020	<0.00020	0.2	D009	
Selenium	0.0073	0.0053	0.0067	0.0072	0.0071	0.0064	1	D010	
Silver	<0.50	<0.50	<0.50	0.00055	0.00068	<0.50	5	D011	
TCLP Volatile Organics (mg/L)									
Benzene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.5	D018	
2-Butanone (MEK)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	200	D035	
Carbon tetrachloride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.5	D019	
Chlorobenzene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	100	D021	
1,2-Dichloroethane	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.5	D028	
1,1-Dichloroethene	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.7	D029	
Tetrachloroethene (PCE)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.7	D039	
Trichloroethene (TCE)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.5	D040	
Vinyl Chloride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.2	D043	

ND = Not detected NA = Not Analyzed

Table C-2 Building 45 Waste Disposal Summary Former York Naval Ordnance Plant - York, PA

Remediation Area	Volume	Container type	Container Owner	Ref. No.	Date arrived	Date shipped	contents	Destination	Manifest Ref.	Net Wt. (Tons)
Bldg 45	20 CY	Roll-off	FCI	0407	12/29/2008	3/18/2009	Haz concrete	Envirite	005676249JJK	10.04
Bldg 45	20 CY	Roll-off	Envirite	25021	1/9/2009	2/2/2009	non-haz soil	Modern LF	07 42369	11.56
Bldg 45	20 CY	Roll-off	Envirite	6028YO	1/9/2009	2/2/2009	non-haz soil	Modern LF	07 42370	10.76
Bldg 45	20 CY	Roll-off	Envirite	6018YO	1/9/2009	2/2/2009	non-haz soil	Modern LF	07 42371	9.96
Bldg 45	20 CY	Roll-off	Envirite	6007YO	1/9/2009	2/2/2009	non-haz soil	Modern LF	07 42372	12.37
Bldg 45	20 CY	Roll-off	York Waste		1/6/2009	1/30/2009	non-haz soil	Modern LF	07 42363	6.93
Bldg 45	20 CY	Roll-off	York Waste		1/6/2009	1/30/2009	non-haz soil	Modern LF	07 42368	14.97
										76.59