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7	efficacy, or applicability of the contents hereof.
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15	at 14 Compliance Restoration Sites
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DOCUMENT DISTRIBUTION for the Draft Project Management Plan 2011 PBA Environmental Investigation and Remediation at 14 Compliance Restoration Sites Revision 0 Ravenna Army Ammunition Plant Ravenna, Ohio

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61

62 Ohio EPA – NEDO = Ohio Environmental Protection Agency Northeast District Office

63 NGB = National Guard Bureau

64 OHARNG = Ohio Army National Guard

65 RVAAP = Ravenna Army Ammunition Plant

66 USACE = United States Army Corps of Engineers

67 REIMS = Ravenna Environmental Information Management System

68 ECC = Environmental Chemical Corporation

69

CONTRACTOR'S STATEMENT OF INDEPENDENT TECHNICAL REVIEW

72 73

71

74

75 ECC has completed the Draft Project Management Plan for the Environmental Investigation and 76 Remediation at 14 Compliance Restoration Sites at Ravenna Army Ammunitions Plant, Ravenna. 77 Ohio. Notice is hereby given that an independent technical review has been conducted that is 78 appropriate to the level of risk and complexity inherent in this project. During the independent 79 technical review, compliance with established policy principals and procedures, utilizing justified and valid assumptions was verified. This included review of data quality objectives; 80 technical assumptions, methods, procedures, and materials used; the appropriateness of data used 81 82 and level of data obtained; and reasonableness of the results, including whether the product 83 meets the customer's needs consistent with the law and existing United States Corps of 84 Engineers policy.

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- 96 Willard Murray, Ph.D., P.E.
- 97 Senior Engineer

November 17, 2011

Date

November 17, 2011

Date

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ACRONYMS AND ABBREVIATIONS

ACM	Asbesto Containing Material
AEDB-R	Army Environmental Database-Restoration Module
AOC	Area of Concern
ASSHP	Abbreviated Site Safety and Health Plan
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
bgs	below ground surface
BRACD	Base Realignment and Closure Division
С	Central
CAS	Chemical Abstracts Services
CERCLA	Comprehensive Environmental, Response, Compensation, and Liability Act
CIH	Certified Industrial Hygienist
CLIN	Contract Line Item Number
CR	Compliance Restoration
COR	Contracting Officer Representative
CRF	Central Records Facility
CSDGM	Content Standard for Digital Geospatial Metadata
CSP	Certified Safety Professional
CWM	Chemical Warfare Material
DDESB	Department of Defense Explosives Safety Board
DERP	Defense Environmental Restoration Program
DERR	Division of Emergency and Remedial Response
DFFO	Director's Final Findings and Orders
DLA	Defense Logistics Agency
DQO	Data Quality Objective
EC	Electronic copy
EM	Engineering Manual
EPA	Environmental Protection Agency
ERIS	Environmental Restoration Information System
FAR	Federal Acquisition Regulations
FGDC	Federal Geographic Data Committee
FWSHP	Facility-Wide Safety and Health Plan
GIS	Geographic Information System
HC	Hard copy
HRR	Historical Records Review
HTRW	Hazardous, Toxic, and Radioactive Waste
IAP	Installation Action Plan
IRP	Installation Restoration Program
IMCOM	Installation Management Command
km	Kilometer
LL #2	Load Line 2
LL #6	Load Line 6

LL #12 Load Line 12 LCG Louisville Chemistry Guideline MC **Munitions Constituent** MD **Munitions Debris** MEC Munitions and Explosives of Concern **Munitions Response** MR MRS **Munitions Response Site** Ν North National Contingency Plan NCP NE Northeast Northeast District Office NEDO NELAC National Environmental Laboratory Accreditation Conference **NELAP** National Environmental Laboratory Accreditation Program NGB National Guard Bureau National Pollutant Discharge Elimination System NPDES NPL National Priorities List National Standard for Spatial Data Accuracy NSSDA **OFFO** Office of Federal Facilities Oversight OHARNG **Ohio Army National Guard Ohio Environmental Protection Agency** Ohio EPA Performance-Based Acquisition PBA PE **Professional Engineer** PG Professional Geologist Powerhouse PH Project Manager PM Project Management Plan PMP Point of Contract POC PPE Personal Protective Equipment **PWS** Performance Work Statement OA/OC **Quality Assurance/Quality Control QAPP Quality Assurance Project Plan** OSM Quality Systems Manual **Restoration Advisory Board** RAB **RVAAP** Environmental Information Management System REIMS **Remedial Investigation** RI RIP Remedy In Place Right of Entry ROE Railroad RR RRD **Range-Related Debris RVAAP Ravenna Army Ammunition Plant** S South SARA Superfund Amendments and Reauthorization Act **SDSFIE** Spatial Data Standards for Facilities, Infrastructure, and Environment

ACRONYMS AND ABBREVIATIONS (CONTINUED)

ACRONYMS AND ABBREVIATIONS (CONTINUED)

SI	Site Inspection
SOW	Scope of Work
SS	South Service
SSHP	Site Safety and Health Plan
TM	Task Manager
USACE	United States Army Corps of Engineers
USACHPPM	United States Army Center for Health Promotion and Preventive Medicine
USAEC	United States Army Environmental Command
USATCES	United States Army Technical Center for Explosive Safety
UST	Underground Storage Tank
UTM	Universal Transverse Mercator
UXO	Unexploded Ordnance
WW	Waterworks

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189 EXECUTIVE SUMMARY

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- 191 The Project Management Plan (PMP) presents the management plan for ECC's task order under
- 192 Contract Number W912QR-04-D-0039, Delivery Order Number 0004 for the U.S Army Corps
- 193 of Engineers (USACE), Louisville District. In accordance with the Performance Work
- 194 Statement (PWS) dated May 3, 2011 for this Performance-Based Acquisition (PBA), firm fixed
- 195 price task order, ECC is tasked with executing environmental investigations and remediation
- activities at 14 Compliance Restoration (CR) sites at the Ravenna Army Ammunition Plant

197 (RVAAP) in Ravenna, Ohio. This Project Management Plan presents the team organization,

198 statement of work, coordination details, deliverables, quality, schedule, site logistics and record 199 management for this task order for the following CR sites at RVAAP:

- 200
- CC-RVAAP-68 Electric Substations (East, West, No. 3);
- CC-RVAAP-69 Building 1048 Fire Station;
- CC-RVAAP-70 East Classification Yard;
- CC-RVAAP-71 Barn No. 5 Petroleum Release;
- CC-RVAAP-72 Facility-Wide Underground Storage Tanks;
- CC-RVAAP-73 Facility-Wide Coal Storage;
- CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift;
- CC-RVAAP-75 George Road Sewage Treatment Plant;
- CC-RVAAP-76 Depot Area;
- CC-RVAAP-77 Building 1037 Laundry Waste Water Sump;
- CC-RVAAP-78 Quarry Pond Surface Dump;
- CC-RVAAP-79 DLA Ore Storage Sites Remaining Ore Sites;
- CC-RVAAP-80 Group 2 Propellant Can Tops; and
- CC-RVAAP-83 Former Buildings 1031 and 1039.

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228 **1.0 INTRODUCTION**

ECC is submitting this Draft Project Management Plan (PMP) to the U.S. Army in accordance
with the Performance Work Statement (PWS), Contract No. W912QR-04-D-0039, Task Order
0004 for performance-based, firm fixed-price environmental services at 14 Compliance
Restoration (CR) Sites at the Ravenna Army Ammunition Plant (RVAAP), Ravenna, Ohio. The
Delivery Order was issued by the United States Army Corps of Engineers, Louisville District on
August 15, 2011.

236

237 **1.1 Installation Setting and Status**

238

The RVAAP (Federal Facility Identification number: OH213820736) is located in northeastern
 Ohio within Portage and Trumbull Counties, approximately 3 miles east-northeast of the city of

Ravenna (Figure 1-1). The installation is approximately 11 miles long and 3.5 miles wide

bounded by State Route 5, the Michael J. Kirwan Reservoir, and the CSX System Railroad on

the south; Garret, McCormick, and Berry roads on the west; the Norfolk Southern Railroad on

the north; and State Route 534 on the east. The Installation is surrounded by several

communities: Windham on the north, Garrettsville 6 miles to the northwest, Newton Falls 1 mile

to the southeast, Charlestown to the southwest, and Wayland 3 miles to the south.

247

As of February 2006, administrative control of 20,403 acres of the former 21,683 acre RVAAP

have been transferred to the National Guard Bureau (NGB) and subsequently licensed to the

250 Ohio Army National Guard (OHARNG) for use as a military training site. Currently, RVAAP

consists of 1,280 acres in several distinct parcels scattered throughout the confines of the Camp

252 Ravenna Joint Military Training Center (Camp Ravenna). These 1,280 acres consist of former

253 industrial facilities that are being remediated and managed by the Base Realignment and Closure

- Division (BRACD) that has, among other responsibilities, the task of overseeing inactive status installations.
- 255 256

257 During the operational years, prior to Camp Ravenna, the entire 21,683- acre property was a

258 government-owned, contractor-operated industrial facility. The RVAAP CR Sites encompass

259 investigation and remediation of past activities over the entire 21,683 acres of the former

260 RVAAP; therefore, references to the RVAAP in this PMP are considered to be inclusive of the

261 historical extent of the RVAAP, which is inclusive of the combined acreages of the current

262 Camp Ravenna and RVAAP, unless otherwise specifically stated.

263

RVAAP is bound to the Director's Final Findings and Orders (DFFOs) issued June 10, 2004 by the Ohio Environmental Protection Agency (Ohio EPA) pursuant to the authority vested under Chapters 3734, 3745, and 6111 of the Ohio Revised Code (ORC). The objective of the Orders is to ensure that the public health, safety, and welfare, as well as the environment, is protected from the disposal, discharge, or release of contaminants. RVAAP is not on the USEPA National

269 Priorities List (NPL), although it is in the USEPA Comprehensive Environmental Response,

270 Compensation, and Liability Information System (CERCLIS) database. The Ohio EPA is the

271 lead environmental regulator at the RVAAP. The installation is bound to the DFFOs, issued on

272 June 10, 2004 by the Ohio EPA. The DFFOs form the basis for the implementation of a 273 CERCLA based environmental remediation program at the installation.

275 1.2 **Scope of Work**

276

274

- 277 Under this Delivery Order, ECC will perform environmental investigation and remediation 278 activities at the 14 CR Sites listed in the PWS dated May 3, 2011. This PMP describes ECC's 279 approach to executing this project and meeting the requirements of the PWS. This PMP includes 280 a discussion of project team roles and responsibilities, an organizational chart, deliverable 281 matrix, and addresses coordination with RVAAP stakeholders, as well as other facility 282 environmental and operational activities. This PMP will be updated as necessary throughout the 283 remainder of the contract. Updates to the PMP shall be noted as Revisions and numbered 284 sequentially. The approved PMP will initially be designated as Revision 0.
- 285

286 This PMP is applicable to all environmental investigation and remedial activities to be conducted

287 by ECC and ECC subcontractors for the 14 CR sites identified in the PWS. All references to

managers, organizations, and processes in this document are intended to refer to ECC's 288

289 management team, organization, and processes, unless otherwise specified. The locations of the 290 14 CR sites are provided on Figure 1-2, and are listed as follows:

- 291
- 292 • CC-RVAAP-68 Electric Substations (East, West, No. 3);
- 293 • CC-RVAAP-69 Building 1048 Fire Station;
- 294 • CC-RVAAP-70 East Classification Yard;
- CC-RVAAP-71 Barn No. 5 Petroleum Release; 295
- 296 • CC-RVAAP-72 Facility-Wide Underground Storage Tanks;
- 297 • CC-RVAAP-73 Facility-Wide Coal Storage;
- 298 • CC-RVAAP-74 Building 1034 - Motor Pool Hydraulic Lift;
- 299 • CC-RVAAP-75 George Road Sewage Treatment Plant;
- 300 • CC-RVAAP-76 Depot Area:
- 301 • CC-RVAAP-77 Building 1037 - Laundry Waste Water Sump;
- 302 • CC-RVAAP-78 Ouarry Pond Surface Dump;
- 303 • CC-RVAAP-79 DLA Ore Storage Sites – Remaining Ore Sites;
- 304 CC-RVAAP-80 Group 2 Propellant Can Tops; and
- 305 CC-RVAAP-83 Former Buildings 1031 and 1039. •
- 306

307 The work to be completed under the PWS shall comply with all applicable Federal, State, and 308 local rules, laws, and regulations in order to successfully complete all performance objectives in

- 309 a manner that is consistent with any applicable orders and permits, all previously agreed-upon
- 310 and future cleanup agreements, guidance for the RVAAP BRAC program, and relevant
- 311 Department of Defense (DOD) and Army policies, for the duration of this Delivery Order. All
- 312 environmental services will comply with CERCLA, the Superfund Amendments and
- 313 Reauthorization Act (SARA), and the National Oil and Hazardous Substances Contingency Plan
- 314 (NCP) in coordination with the Ohio EPA and the United States Environmental Protection
- 315 Agency (USEPA), Region 5, requirements as applicable.
- 316

318 1.3 Performance Objectives319

320 ECC will furnish all labor, materials, and equipment necessary to meet the performance 321 objectives and standards identified in Table 1-1.

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Table 1-1: Performance Objectives and Standards

Performance Objectives	Performance Standards
 Achieve Approved Project Management Plan (PMP) and Quality Assurance Surveillance Plan (QASP) within 6 months of Notice to Proceed: Draft PMP submittal within 30 calendar days of contract award Final PMP submittal within 30 calendar days of receipt of COR/Ohio EPA comments on the draft Draft QASP submittal within 30 calendar days of contract award 	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming Final PMP approval). Army approval through the Contracting Officer's Representative (COR).
Achieve an approved Historical Records Review for the following sites by 30 July 2012: CC-RVAAP-71 Barn No. 5 Petroleum Release CC-RVAAP-83 Former Buildings 1031 and 1039	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming Final Historical
Option:Achieve an approved Site Inspection (SI) at the following site by 30 July 2013:CC-RVAAP-71 Barn No. 5 Petroleum Release	Records Review Report approval). Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming Final SI Report approval).
Option:Achieve an approved Site Inspection (SI) at the following site by 30 July 2013:CC-RVAAP-83 Former Buildings 1031 and 1039	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming Final SI Report approval).
 Achieve an approved Site Inspection (SI) at the following sites by 30 July 2013: CC-RVAAP-70 East Classification Yard CC-RVAAP-72 Facility-Wide Underground Storage Tanks CC-RVAAP-75 George Road Sewage Treatment Plant CC-RVAAP-77 Building 1037-Laundry Waste Water Sump 	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming SI approvals).

Performance Objectives	Page 6 of 44 Performance Standards
·	
Achieve an approved Remedial Investigation (RI) for all media, except groundwater, at the following site by 30 May 2014:	Army approval through the Contracting Officer's Representative (COR), and Ohio
CC-RVAAP-79 DLA Ore Storage Site – Main Ore Storage Yard	EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Achieve an approved Feasibility Study (FS) for all media, except groundwater, at the following site by 30 June 2014:	Army approval through the Contracting Officer's Representative (COR), and Ohio
CC-RVAAP-76 Depot Area	EPA concurrence (i.e., receipt of Ohio EPA documentation confirming FS approval).
Achieve an approved Remedial Investigation (RI) for all media, except groundwater, at the following sites by 30 July 2015: CC-RVAAP-68 Electric Substations (East, West, No.3) CC-RVAAP-69 Building 1048-Fire Station CC-RVAAP-73 Facility-Wide Coal Storage CC-RVAAP-74 Building 1034-Motor Pool Hydraulic Lift CC-RVAAP-78 Quarry Pond Surface Dump CC-RVAAP-79 DLA Ore Storage Sites-Remaining Ore Sites	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approvals).
Option: Achieve an approved Remedial Investigation (RI) for all media, except groundwater, at CC-RVAAP-70 East Classification Yard by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Option: Achieve an approved RI for all media, except groundwater, at CC-RVAAP-71 Barn No. 5 Petroleum Release by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Option:	Army approval through the
Achieve an approved RI for all media, except groundwater, at CC- RVAAP-72 Facility-Wide Underground Storage Tanks by 1 August 2015.	Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Option: Achieve an approved RI for all media, except groundwater, at CC-RVAAP-75 (George Road Sewage Treatment Plant) by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
	comming Ki appiovai).

Parformance Objectives	Page 7 of 44 Performance Standards
Performance Objectives	
Option: Achieve an approved RI for all media, except groundwater, at CC- RVAAP-77 Building 1037- Laundry Waste Water Sump by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
<u>Option:</u> Achieve an approved RI for all media, except groundwater, at CC- RVAAP-80 Group 2 Propellant Can Tops by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Option: Achieve an approved RI for all media, except groundwater, at CC-RVAAP-83 Former buildings 1031 and 1039 by 1 August 2015.	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).
Achieve Non-Time-Critical Removal Action Appropriate for Future Land Use at the following sites located within Load Lines 1, 2, 3, 4, and 12 by 30 August 2013: CC-RVAAP-73 Facility-Wide Coal Storage CC-RVAAP-79 DLA Ore Storage Sites	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approvals).
Achieve Non-Time-Critical Removal Action Appropriate for Future Land Use at the following site by 30 May 2014: CC-RVAAP-79 DLA Ore Storage Site – Main Ore Storage Yard	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approvals).
Achieve Non-Time-Critical Removal Action Appropriate for Future Land Use at the following sites by 30 July 2015: CC-RVAAP-73 Facility-Wide Coal Storage – Remaining Sites CC-RVAAP-74 Building 1034-Motor Pool Hydraulic Lift CC-RVAAP-78 Quarry Pond Surface Dump CC-RVAAP-79 DLA Ore Storage Sites - Remaining Sites	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approvals).
<u>Option:</u> Achieve Non-Time-Critical Removal Action Appropriate for Future Land Use at the following site by 30 July 2015: CC-RVAAP-72 Facility-Wide Underground Storage Tanks	Army approval through the Contracting Officer's Representative (COR), and Ohio EPA concurrence (i.e., receipt of Ohio EPA documentation confirming RI approval).

Performance Objectives	Performance Standards
Option:	Army approval through the
Achieve Non-Time-Critical Removal Action Appropriate for	Contracting Officer's
Future Land Use at the following site by 1 August 2015:	Representative (COR), and Ohio
	EPA concurrence (i.e., receipt of
CC-RVAAP-75 George Road Sewage Treatment Plant	Ohio EPA documentation
	confirming RI approval).
For all Remedies, optimize capital and long-term costs.	Acceptance by the COR that the
	Contractor has demonstrated that
	the proposed remedy represents
	the lowest 30-year present worth
	cost to the Army, and is
	acceptable to the Ohio EPA.

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- 326

328

327 1.4 **Project Management Plan Organization**

329 This PMP is organized following the requirements as stated in the PWS and includes the 330 following sections:

- 331
- 332 • Section 1.0 – Introduction 333
 - Section 2.0 Project Management Team •
- 334 • Section 3.0 – Project Coordination
- 335 Section 4.0 – Deliverables •
- 336 Section 5.0 – Quality Management •
- 337 • Section 6.0 – Site Logistics
- 338 Section 7.0 – Records Management •
- 339 Section 8.0 – Government Resources •
- 340 Section 9.0 – References • 341

342 1.5 **Compliance Restoration Sites Operational History/Description** 343

344 CC-RVAAP-68 Electric Substations (East, West, and No. 3)

345

346 Three electrical substations are included in this site. The east electrical substation comprises an 347 area of approximately 12,300 square feet, which includes the land surrounding Building 25-27. 348 There are no documented releases; however, aerial photographs and visual observations 349 demonstrate stressed vegetation and staining outside the building, and around the former 350 transformers. Volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), 351 and polychlorinated biphenyl's (PCBs) are possible contaminants of concern (COCs) for soil. 352 The west electrical substation comprises an area of approximately 3,000 square ft., which 353 includes the land around Building 28 and the surrounding land formerly used as the transformer 354 station. This Area of Concern (AOC) excludes Building 28-28. One spill of approximately 500 gallons of transformer fluid occurred on the north side of the building. The impacted area was 355 356 cleaned up by Emerald Environmental in 1997. Possible impacted soils may exist outside the

building around the former transformers. VOCs, SVOCs, and PCBs are possible COCs for soil.
Substation No. 3 comprises an area of approximately 10,000 square feet. The substation and all
transformer equipment have been removed from the site. There are no documented releases;
however, aerial photographs and visual observations demonstrate stressed vegetation and
staining outside the building, and around the former transformers. VOCs, SVOCs, and PCBs are
possible COCs for soil.

- 363
- 364 CC-RVAAP-69 Building 1048 Fire Station

The fire station was located in the Plant Administration Area in the northwest quadrant of the intersection of George Road and South Service Road. In 1968, the fire station was referred to as the Fire and Guard Building, and consisted of 12,130 square feet. The fire station building was demolished in late 2008, and the site currently remains undeveloped. Reportedly, it was common practice for the fire department to clean out fire extinguishers behind the west side of the fire building, and to allow the contents of the fire extinguishers (carbon tetrachloride) to spill onto the ground surface. The area of potential impact includes the ground surface behind the former

- 373 building location.
- 374
- 375 CC-RVAAP-70 East Classification Yard
- 376

The Ravenna facility was originally equipped with east and west classification yards during the facility's early operational years. The classification yards were used for the switching and maintenance of railroad cars. The east classification yard is located east of Load Line 1 and the Main Defense Logistics Agency (DLA) Ore Storage Area in close proximity to the intersection of Ramsdell Road and Irons Road. The rail yard reportedly consisted of 18 tracks with a 750 car capacity, and 3 Hi-X tracks with a 120 car capacity, which also included the wash rack south of the main track area. This yard was equipped with a locomotive repair building (Round House) and a herbicide storage shed along Tracks # 47 and 48.

384 385

386 CC-RVAAP-71 Barn No. 5 Petroleum Release

387

The site location is a vacant property along the southern property fence line in close proximity to former Post No. 6. There is a documented release on 13 May 1964 of approximately 20 barrels of gasoline to the ground surface inside of the south fence near Barn No. 5. The release occurred from a buried Standard Oil of Ohio (Sohio) pipeline. The OHARNG future land use designation is Training Area D.

- 393
- 394 CC-RVAAP-72 Facility-Wide Underground Storage Tanks
- 395

396 Facility records document the former presence and use of 50 underground storage tanks (USTs)

397 at the Ravenna facility. Approximately 34 of the USTs were installed in 1941, with the

remaining USTs installed between 1941 and 1981. The USTs were used for the storage of

399 gasoline, diesel fuel, No. 5 heating oil, and No. 6 fuel oil. The USTs located in the Depot Area

400 were reportedly filled with potassium dichromate to prevent corrosion when not in use. Readily

401 available records suggest that nearly all of the USTs have been closed by removal, and the tanks

	Fage 10 01 4
402	have been scrapped. Table 1-2 presents a list of the former USTs at RVAAP. Closure documents
403	and official tank status records have not been obtained for most of the USTs. As such,
404	additional records searches are required to further characterize the USTs. Petroleum and/or
405	potassium dichromate impacted soils and/or groundwater may exist at several of the former UST
406	sites. Possible USTs that were located within the Atlas Scrap Yard (Service Stations #1 and #2)
407	are located within a Munitions Response Site (MRS), and Munitions and Explosives of Concern
408	(MEC) avoidance procedures will be required for property visits and perimeter surveys in this
409	area.
410 411	CC-RVAAP-73 Facility-Wide Coal Storage
412	CC-RVAAI -/5 Fucility-white Coal Storage
413	Facility records document the former presence of approximately 17 coal storage locations at the
414	Ravenna facility. Coal was historically used to fuel powerhouses and various other buildings at
415	the site. Typically, coal storage consisted of placing the coal on the ground surface as coal piles
416	or placing the coal in railcars adjacent to the subject buildings. The total area of potentially
417	impacted media associated with the coal consists of approximately 222,500 square feet (about 5
418	acres). Coal storage occurred at the following locations on the Ravenna property:
419	
420	• Load Line 1 Powerhouse;
421	• Load Line 2 Powerhouse;
422	• Building F-15;
423	• Building F-16;
424	• Atlas Scrap Yard (MRS);
425	• North Line Road Coal Tipple;
426	• Sand Creek Coal Tipple;
427	• East Classification Yard Round House;
428	Administration Area;
429	• Depot Area Building U-5;
430	• Depot Area Building U-14;
431	• Fuze and Booster Road Powerhouse No. 5;
432	• Fuze and Booster Road Inert Storage No. 2F-N21;
433	 Fuze and Booster Service Road Powerhouse; and
434	• Area 6 Inert Storage.
435	
436	Former coal storage sites located within Atlas Scrap Yard may also be within the Atlas Scrap
437	Yard MRS; therefore, MEC avoidance procedures may be required for property visits and

- 438 439 perimeter surveys in these areas.

	Table 1-2: Former Underg	ground Storage Ta	anks at RVAAP
Tank Number	Location	Tank Number	Location
RV-1	George Road Gas Station	RV-51	WW #4 – Gen
RV-2	George Road Gas Station	RV-52	Old ATLAS – Building T-18
RV-3	Post #1 Generator	RV-55	PH #1
RV-10 Post 24, Building F-4		RV-56	PH #1
RV-11	RR Yard	RV-57	PH #2
RV-12	PH #6	RV-58	PH #2
RV-13	Building U-6 (N) Depot	RV-59	PH #4
RV-14	Building U-6 (S) Depot	RV-60	PH #4
RV-15	Building U-3 (S) Depot	RV-61	PH #5
RV-16	Building U-3 (N) Depot	RV-62	PH #5
RV-17	Building A-6 (N) Depot	RV-63	PH #7
RV-18	Building A-6 (C) Depot	RV-64	PH #7
RV-19	Building A-6 (S) Depot	RV-66	PH #6
RV-20	Building DB-27 LL #2	RV-67	PH #6
RV-21	Building DB-27 LL #2	RV-73	Building T-2501
RV-22	RR Yard	RV-80	George Road Gas Station
RV-23	Building 1045	RV-81	Building 1047
RV-29	Building FE-22 LL #12	RV-82	Building 1047
RV-33	Deactivation Furnace	RV-83	Building 1047
RV-37	Building A-1 Depot	RV-86	Telephone Building (100' N)
RV-41	Building 2F-11 LL #6	RV-87	Telephone Building (NE)
RV-46	EE-102 (Bolton House)	RV-88	Fire Station #2
RV-47	Post 32 (Freedom)	RV-89	George Road Sewage
RV-50	WW #4 – Heat		

 $\begin{array}{r} 443\\ 444\\ 445\\ 446\\ 447\\ 448\\ 449\\ 450\\ 451\\ 452\\ 453\\ 454\end{array}$

- C = CentralLL #2 = Load Line 2
- LL #12 = Load Line 12
- LL #6 = Load Line 6
- N = North
- NE = Northeast
- PH = Powerhouse
- RR = Railroad S = South
- SS = South Service WW = Waterworks
- 455

457 CC-RVAAP-74 Building 1034 - Motor Pool Hydraulic Lift

456 457 458

459 An in-ground hydraulic floor lift system has been identified inside the existing Motor Pool 460 building. The hydraulic floor lift system is described in a 1969 drawing as a twin-post lift 461 system constructed of metal. The below-grade system consists of a cast in concrete "L" shaped 462 pit measuring approximately 12 feet (long portion of the "L" shape) and 4 feet (short portion of the "L" shape) in length, 3 feet in width, and 4 feet in depth. The pit is reportedly buried at 463 depths ranging from 4 feet below ground surface (bgs) to approximately 8 feet bgs. The twin-464 465 post lift reportedly has a clearance of 6 feet between the floor surface and the bottom of the lift 466 (height in the air). The floor lift system remains in place. It is also believed that an additional 467 floor lift system was historically used at the Building 1034 Motor Pool facility.

468

469 CC-RVAAP-75 George Road Sewer Treatment Plant

470

471 The George Road Sewer Treatment Plant is an inactive domestic sewage treatment plant. The 472 plant was gravity fed and consisted of two Imhoff tanks, two trickling filters, and a clarifier. 473 Sludge was dried in a greenhouse structure and spread over the ground surface (location 474 unknown). The design capacity was 350,000 gallons per day. Reportedly, approximately 1,200 475 cubic feet of sludge was spread every three years. Wastes handled at the site consisted of 476 domestic sewage and discharge from RVAAP-15 (Load Line 6) and RVAAP-30 (Load Line 7) 477 pink water treatment. This site also received sludge from the Depot Sewage Treatment Plant 478 (RVAAP-15). The site maintained a current Ohio National Pollution Discharge Elimination 479 System (NPDES) permit (#31000000BD), which allowed discharge to Outfall No. 002 (to the 480 adjacent receiving stream). The NPDES permit was maintained until 1993 when the facility 481 ceased operation.

482

483 Available information indicates approximately one quart of mercury was released to the floor
484 drain at the plant (date unknown). It is anticipated the mercury may have remained in the
485 receiving piping and/or traps located below the floor drain in the pipe galley. If the mercury
486 escaped the pipe galley, then it may have impacted the receiving (down-gradient) trickling filters
487 and/or the down-gradient drying beds.

- 488
- 489 CC-RVAAP-76 Depot Area
- 490

491 The Depot Area consisted of a waste oil storage tank located between Depot Buildings U-4 and 492 U-5. The tank was an above ground storage tank (AST) constructed of steel with a capacity of 493 400 gallons. The tank sat on crushed slag next to the motor oil storage shed. Waste oil from the 494 motor pool area was stored in the AST until it was removed by an oil reclaimer. The AST was in 495 operation from 1983 through 1993. In 1993, the contents of the AST were removed and the tank 496 remained inactive until its removal (after 1996). The AST has since been removed and an 497 earthen embankment remains at the location of the former tank. In addition, other areas within 498 the Depot Area have been identified for inclusion under this CR site. Buildings 1W-2 and U-10 499 were reportedly used for the demilitarization and maintenance of various munitions. As such,

500 portions of this CR site may possibly contain MEC, Munitions Constituents (MC), and/or 501 Munitions Debris (MD), although it is not currently recognized as an MRS.

- 502
- 503 CC-RVAAP-77 Building 1037 Laundry Waste Water Sump
- 504

505 The Building 1037 Laundry Waste Water Sump consists of a former below ground concrete 506 sump located on the north side of Building 1037. The sump had a capacity of approximately 507 5,765 gallons. The unit was previously used as a settling tank for the discharge of laundry rinse 508 water. Wash water was emptied approximately 12 times during 8 hours of operation and rinsing 509 3 times each 8 hours. The wash water entered the tank prior to the rinse water discharge had 510 sufficient settling time so that the increase in rate from the rinse water did not disturb the settled 511 matter on the tank bottom. Rinse water was then sent to RVAAP-22 (George Road Sewage 512 Treatment Plant). The concrete waste water sump was removed in 2009.

- 512
- 514 CC-RVAAP-78 Quarry Pond Surface Dump
- 515

516 This site consists of three debris piles (A, B, and C) that have a combined total of 23,450 (Pile A 517 = 12,320 square feet, Pile B = 6,285 square feet, and Pile C = 4,845 square feet) square feet with 518 an average thickness of 5 feet. In addition to the three debris piles, there is a former burn area 519 and a rusted 55-gallon drum was located within Debris Pile B and a second rusted 55-gallon 520 drum was located within Debris Pile C. The debris piles contain construction debris, scrap metal 521 and unidentified materials. Debris Pile A is suspected to contain ACM. The area between 522 Debris Piles A and B is suspected of containing construction debris and material excavated from 523 the quarry. The April 2011 HRR Report recommended test pitting to determine if Debris Piles B 524 and C contained ACM, and test pit the area between Debris Piles A and B to determine extent of 525 construction debris and identify if ACM is present within this area.

526

527 CC-RVAAP-79 DLA Ore Storage Sites – Remaining Ore Sites

528

529 Various ores were stored at RVAAP. The ore was stored on the ground in piles and in above

530 ground storage tanks that did not have floors. Therefore, the stored ore within these ASTs had 531 direct contact with the ground surface. Other materials were also stockwilled directly on the

531 direct contact with the ground surface. Other materials were also stockpiled directly on the 532 ground surface, including brass ingots, chemical chrome ore, copper ingots, ferrochrome ore,

532 ground surface, including brass ingots, chemical chrome ore, copper ingots, ferrochrome ore, ferrous manganese ore and metallurgical manganese ore. The 2010 LAP estimated that

533 ferrous manganese ore and metallurgical manganese ore. The 2010 IAP estimated that

approximately 66,592 cubic yards of soil is impacted at these sites and will require delineation,
 excavation and off-site disposal.

536

537 CC-RVAAP-80 Group 2 Propellant Can Tops

538

539 CC-RVAAP-80 consists of the Group 2 Propellant Can Tops area. Propellant can lids or tops

540 were identified on the ground surface/near-surface at the southern end of the former Group 2

541 Ammunition Storage Area. These materials are typically classified as range-related debris

542 (RRD) (similar to munitions packaging materials); however, this site was never used or classified

as an operational range. It is believed that the discarded propellant can tops might qualify as

inert scrap metal. The propellant can tops located at the south end of Group 2 were initially

550 revealed multiple magnetic anomalies in the surface and near-surface soils. On-site personnel 551 visually identified the surface anomalies as propellants can lids or tops. During the emergency 552 survey it was noted that the ground surface had been disturbed and contained hummocks 553 (mounds) ranging in height from 1 ft to 2 ft throughout the survey area. 554 555 CC-RVAAP-83 Former Buildings 1031 and 1039 556 557 Former Buildings 1031 and 1039 was where the former Hospital and a former Laboratory was 558 located, respectively. The OHARNG designated future land use for both building sites is Future OHARNG Cantonment Area. 559 560 561 Building 1031 - Former Hospital Building 562 563 The west end of the former Hospital Building included a gauge laboratory that was used for the 564 development of large scale photos. Site-related constituents (SRCs) of concern are related to the 565 former generation of x-ray acid/silver mix solutions, and common hospital wastes that may have 566 been disposed of through the sanitary waste system, which were constructed of clay pipe. 567 Potential SRCs for the sanitary system at the former Hospital Building are VOCs, SVOCs, and 568 target analyte list (TAL) metals. Asbestos-Containing Material (ACM) was also mentioned as a 569 potential SRC during the Site Visit. 570 571 Building 1039 - Former Laboratory Building 572 573 The former Laboratory Building measured approximately 16,500 square feet. The structure

identified by OHARNG trainees in the winter of 2008. The propellant can tops were observed in

vicinity of the southern railroad spur lines. This area consists of approximately 539,572 square ft

the vegetative area located immediately south of the ammunition storage magazines in the

(12.4 acres). The Louisville District USACE performed an emergency survey with a metal

detector on a portion of the southern area ground surface. Results of the initial investigation

574 contained three powder test rooms for the routine analyses of lead azide, mercury fulminate, and 575 percussion element mixes. The laboratory was used for the testing of Load Line materials. 576 During operations, the building contained and operated a photography laboratory, a chemistry 577 laboratory, and a medical x-ray facility. The laboratory building was demolished by Lakeshore 578 Engineering Services, Inc. (LES) between May 2006 and July 2007. Following demolition, all 579 unpainted and uncontaminated brick and concrete was crushed and recycled off-site. The 580 basement of Building 1039 was filled with approved clean soil, and was then seeded with 581 approved grass seed. Potential SRCs for the sanitary system at the former Laboratory Building 582 are VOCs, SVOCs, TAL metals, explosives and propellants.

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- 585 2.0 **PROJECT TEAM ORGANIZATION**
- 586

587 ECC is the prime contractor for this Task Order. ECC is supported by teaming partners AMEC, 588 Inc. (AMEC), and Prudent Technologies, Inc. (Prudent). AMEC and Prudent personnel will 589 assist the ECC project team in the preparation of Work Plans, Quality Assurance Project Plans, 590 Remedial Investigation Reports, Feasibility Studies, Risk Assessments, and Remedial Designs at 591 the RVAAP sites, and in the conduct of field work. Additionally, several subcontractors will 592 provide other services to complete the project as necessary, including but not limited to drilling, 593 analytical services, surveying, waste management/disposal, and equipment supply services. 594 595 Figure 2-1 outlines the project organization for the proposed work at the RVAAP. Table 2-1 596 provides the names, titles, addresses, and phone numbers of personnel responsible for ensuring 597 the execution of the project as well as key project stakeholders.

598

599 ECC's organizational structure is embodied by established capabilities and resources focused on

600 strong project management. ECC's management team is supported by Health and Safety,

601 Quality Assurance/Quality Control (QA/QC), Risk Management, the Contract Administrator, 602 and Project Controls to assist in project execution. The ECC Project Manager (PM) will be the

603 single point of contact (POC) for the Army, USACE COR, and the Ohio EPA for all contractual, 604 technical, and field activities. This organizational structure is designed to provide the following:

605 606

607

608

Provide the manpower and resources to meet project schedules. •

- Successfully perform the required services. •
- Administer the contractual requirements effectively to minimize the Army's • management time.
- 609 610

611 Project execution is directed by the ECC management team located in the Marlborough,

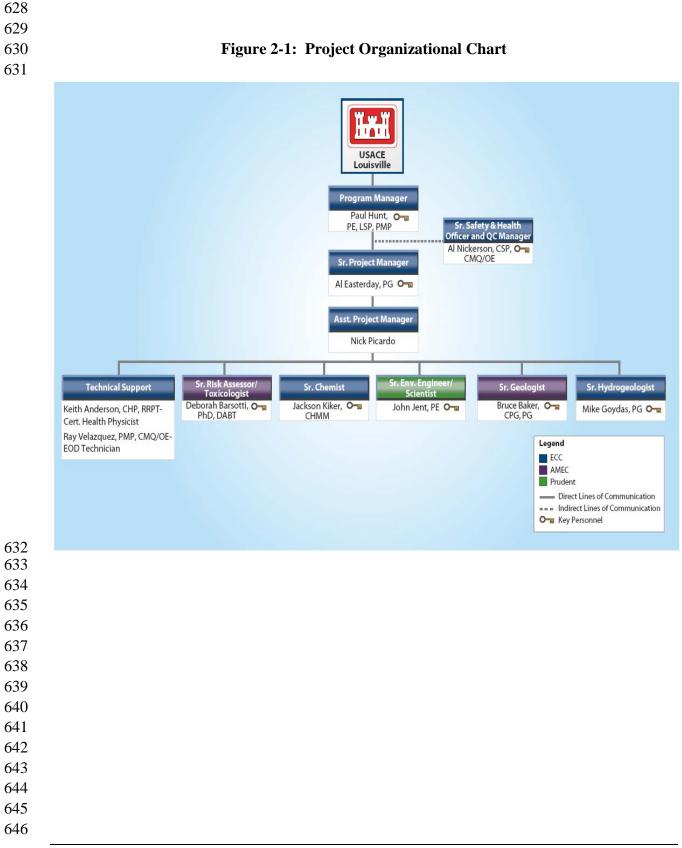
612 Massachusetts office. ECC's management team will also have the ability to draw resources

613 from ECC's offices nationwide. ECC's PM for the project will have the authority to procure any 614 resources required to effectively complete the required work.

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Table 2-1: Key Personnel for Ravenna Army Ammunition Plant

Name	Title	Address	Phone Number & Email
BRAC		•	
William O'Donnell	BRAC Office Program Manager	BRAC - Assistant Chief of Staff Installation Management 2530 Crystal Drive Arlington, Virginia 22202	T: (702) 601-1570 E: william.odonnell@us.army.mil
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Mark Elonoge	Project Manager	USAEC 2450 Connell Road Fort Sam Houston, Texas 78234	T : (210) 424-8857 E : <u>mark.h.eldridge@us.army.mil</u>
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	T '41	A 11	Page 18 of 44
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		Louisville, KY 40202	
National Guard H	Bureau		
Kim Harriz	Cleanup Program	National Guard Bureau	T : (703) 607-7991
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	e	111 S. George Mason Drive	
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Ohio EPA			
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2.10011 1.1011	Coordinator	Northeast District Office	F : (330) 487-0769
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Kevin Palombo	Site Coordinator	Ohio EPA	T : (330) 963-1292
		Northeast District Office	F : (330) 487-0769
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		Twinsburg, OH 44087	_ · · · · · · · · · · · · · · · · · · ·
Ohio Army Natio	onal Guard	6,	
Katie Tait	Environmental	Ohio Army National Guard	T : (614) 336-6136
futio futi	Specialist	1438 State Route 534 SW	F : (614) 336-6135
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ECC			
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i uui iiunt	i iogram Manager	33 Boston Post Road West	F : (508) 229-7737
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		-	
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Al Nickerson	Senior Health and	ECC	T : (508) 771-1636
	Safety Officer and	1600 Falmouth Road	F : (508) 775-1864
	QC Manager	Suite 40	C : (508) 836-6185
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Environmental Investigation and Remediation at 14 Compliance Restoration Sites

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y 1		318 East Inner Circle	F: (508) 563-1217
		Buzzards Bay, MA 02542	C: (774)-836-6593
		57	E: rvalazquez@ecc.net
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	Manager		
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		Suite 5250	E: @PrudentWeb.com
		San Antonio, TX 78229	

651 L

T = telephone numberF = fax number652

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654 C = cell phone number

655 E = e-mail address

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671 **3.0 PROJECT COORDINATION**

This PMP is structured to ensure all stakeholders are kept informed of the project status, existing or potential problems, and any changes that may be required to prudently manage the project and satisfy the needs of the Installation stakeholders and decision-makers.

- 677 3.1 Project Stakeholders
- The project stakeholders identified in the PWS consist of the following:
- 680 681 • U.S. Army
- Ohio Environmental Protection Agency
- U.S. Environmental Protection Agency Region V
- Ohio Army National Guard
- Headquarters National Guard Bureau
- Restoration Advisory Board (RAB)
- 687
- 688 Specific Army stakeholders include the RVAAP staffs, Installation Management Command
- 689 (IMCOM) as the Installation's parent organization, Department of Defense Explosive Safety
- Board (DDESB), U.S. Army Technical Center for Explosives Safety (USATCES), U.S. Army
- 691 Center for Health Promotion and Preventative Medicine (USCHPPM), U.S. Army 602 Environmental Command (USAEC) and the U.S. Army Come of Engineers (USACE)
- Environmental Command (USAEC) and the U.S. Army Corps of Engineers (USACE).
- 693
- As previously mentioned, the Ohio EPA is the lead regulator at the RVAAP. The USEPA
 Region V is listed as a stakeholder; however, the agency has not been actively involved at the
 RVAAP.
- 697

698**3.2Coordination and Communication**

- The COR, or his designated representative, will be kept informed of the project status by the
 ECC PM through monthly status reports, milestone presentations, conference calls, and frequent
 communication with the COR or designated representatives, as necessary. The ECC PM will be
 accessible to the COR at all times.
- 704

705 **3.2.1 Monthly Status Reports**

706

ECC will provide input to the project team in the form of monthly status reports, weekly
 contractor conference calls (during field work activities), and/or scheduling meetings as follows:

709 710

- ECC will provide a monthly status report for inclusion in the overall monthly report provided to Ohio EPA for approval per the Director's Final Findings and Orders.
- These reports will succinctly describe project status and progress at each site and follow 713 the outline provided in Figure 3-1. A meeting can be scheduled to review the monthly

	Figure 3-1: Montl	hly Progress Report			
	MONTHLY PRO	GRESS REPORT			
Contract No. W912QR	-04-D-0039/DO 0004	Repor	Report Number:		
Project Number: Deliv	ery Order 0004	Date:	Date:		
	Post Road West, Suite 3 gh, MA 01752	40			
Location: Ravenna Arm	ny Ammunition Plant, R	avenna, OH			
Project Name: Investig	gation and Remediation	at 14 Compliance Restor	ation Sites		
SUMMARY OF ACTI	VITIES:				
HEALTH AND SAFE	FY PERFORMANCE	:			
PROBLEMS ENCOU	NTERED/RESOLUTI	ON:			
PLANNED ACTIVITI	ES:				
Target/Milestone Activity	Scheduled Completion Date	Actual Completion Date	Status		

status report if necessary. Monthly status reports will be submitted by the 6th of the

REMARKS:

ECC PROJECT MANAGER:

SIGNATURE:

722 723

714

715

following month.

724 **3.2.2 Milestone Presentations**

725

ECC will comply with Section 4.3 of the PWS. If requested, milestone presentations will be

made to the COR at the completion of each milestone to provide in depth analysis, discuss

lessons learned, and to present approaches for completion of future milestones. At the COR's

- request, ECC may also make milestone presentations to the other project stakeholders to show
- achievement of the performance objectives. The Contract Line Item Number (CLIN) structure,
 included in the Milestone Schedule in Appendix B, presents ECC's proposed execution strategy.
- 732

The Milestone Schedule is reflective of ECC's proposal, the requirements of the PWS, and any

subsequent negotiations with the Army as to how the Army will structure funding for the project

at the CLIN level. Payments will be tied to the successful completion of a milestone or an

interim milestone plan approved by ECC and the Army, through the COR. All interim milestones

should be associated with easily demonstrated metrics tied to performance measurements.

738 Milestones must have a defined means for demonstrating completion in order to facilitate

certification and approval. The milestone schedule presented in Appendix B has been approved

by both the Army and ECC. ECC's Milestone Schedule may be subject to change over the

course of the project depending on the progress of work and what is required to reach

performance goals. In the event of milestone changes, replacement pages for this PMP may be

issued to document changes following approval by the Army and ECC.

744

745 **3.2.3** Phone Conferences/Informal Site Meetings

746

As necessary with all multi-site, multi-task projects, phone conferences and informal site
 meetings with the COR or his representative(s) will be documented appropriately through
 follow-up emails and summaries in the monthly status reports

750

751 3.3 Regulatory Coordination752

753 All regulatory coordination will be approved by the Army through the COR. The ECC PM will 754 provide the necessary support to initiate, schedule, and address all regulatory aspects of the 755 project (e.g., organizing discussions with regulators concerning site recommendations, obtaining 756 regulator comments on site documents and appropriately addressing them, and obtaining written 757 documentation, as necessary, of regulator input for all sites in the PWS). All communication to 758 stakeholders and regulators will be coordinated with the USACE and RVAAP. ECC will keep a 759 record of phone conversations and written correspondence affecting decisions relating to the 760 performance of site documents.

761

The COR, or other COR designee, will attend and represent the Army at all meetings with the regulators if they so chose. ECC will prepare and submit minutes of all significant meetings attended. With approval of the COR, ECC may also informally discuss issues with regulators and provide an after-action report back to the COR. ECC will not contact regulators without prior approval of the COR. The Army will be the signature authority for all agreements, remediation documentation and off-site characterization and disposal documents. For this PWS, Ohio EPA approval is tied to the performance objectives and standards presented in 769 Table 1-1.

770

771 In addition, communications that contain information that could affect ECC's ability to achieve

the PWS milestones for the 14 Compliance Restoration sites that occurs between the Army and

the regulators, without the presence of ECC, shall be transmitted to ECC through the COR.

After reviewing the documents, ECC will provide the Army with comments on any items or issues related that may impact ECC's execution of the work. Documentation for all meetings

issues related that may impact ECC's execution of the work. Documentation for all meetingsand conference calls will be completed by the ECC PM and circulated within ten business days

770 and conference cans will be completed by the ECC PM and circulated with 777 to the necessary stakeholders as determined by the Army.

778

779 3.4 Public Involvement780

All public participation coordination will be approved by the Army through the CO. ECC will

782 provide the necessary support to initiate, schedule, and manage public involvement activities of

the project. Public comments will be requested and addressed consistent with the

784 CERCLA/SARA and NCP. The COR, or other Army designee, shall attend and represent the

Army at all meetings with the public. ECC will also provide support for RAB meetings and

786 present project-related information (e.g., work plans and findings) to the RAB, as requested by

the COR and in accordance with the PWS and terms and conditions of the contract.

789 **4.0 DELIVERABLES**

790 791 Deliverables for this Delivery Order will be produced in preliminary draft, draft, and final 792 versions and in hard copy and electronic Portable Document Format (PDF). All deliverables 793 will be prepared in accordance with CERCLA and the National Contingency Plan (NCP) 794 following requirements of the Ohio EPA DFFO for RVAAP and the most current version of the 795 RVAAP Deliverable Documents Formatting Guidelines (Vista 2009). Preliminary draft versions 796 of documents will be prepared and submitted to the Army for review. The Army under this task 797 order will provide comments to ECC on any document within 20 business days. It is expected 798 that the Army will provide ECC with one set of consolidated comments through the COR or his 799 designee, and inform ECC when all comments have been transmitted. Once initial comments 800 from the Army are addressed, a draft version of the document will be prepared for review by the 801 regulators and the Army unless the Army requests a review of the revised preliminary draft 802 before it is issued to the regulators. Following the receipt and resolution of stakeholder 803 comments on the draft document, it will be revised and a final version of the document issued for 804 the record. All documents submitted to Ohio EPA will be identified as draft until completion of 805 stakeholder coordination, when they will be signed and finalized (if required). The anticipated 806 comment and review cycle for each project deliverable is as follows: 807 808 • Preliminary Draft Deliverables: Army, NGB, and OHARNG review only – up to 20 809 business days. 810 Draft Deliverable comment response and concurrence by Army – up to 15 business days. • • Draft Deliverable Team review: Ohio EPA, NGB, OHARNG, and Army – 811 812 minimum of 45 calendar days. 813 • Final Deliverable comment response and concurrence by Ohio EPA, NGB, OHARNG 814

- and Army up to 10 business days.
 Final Deliverable Team review/approval: Ohio EPA, NGB, OHARNG, and Army minimum of 45 calendar days.
- 817

Table 4-1 Summarizes the major documents expected to be prepared to support work at the fourteen CR Sites identified in the PWS. Project deliverables and written communication among the Army, RVAAP, Ohio EPA, NGB, OHARNG and ECC will be delivered to the addresses shown on Table 4-2, which also indicates the number of hard and electronic copies of deliverables to be distributed.

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 Table 4-1: Required Deliverables List

<u>Site:</u>	Deliverable:
All Sites	Project Management Plan
All Sites	Quality Assurance Surveillance Plan (draft)
All Sites	Sample and Analysis Plan (Addendum to the RVAAP Facility-Wide Sample and Analysis Plan, 2011)
All Sites	Quality Assurance Project Plan (Addendum to the RVAAP Facility- Wide Quality Assurance Project Plan, 2011)
All Sites	Site Safety and Health Plan (Addendum to the RVAAP Facility-Wide Sample and Analysis Plan, 2001)
CC-RVAAP-71 Barn No. 5 Petroleum Release	Historical Records Review Report
CC-RVAAP-83 Former Buildings 1031 and 1039	Historical Records Review Report
Option: CC-RVAAP-71 Barn No. 5 Petroleum Release	Site Inspection Work Plan Site Inspection Report
Option: CC-RVAAP-83 Former Buildings 1031 and 1039	Site Inspection Work Plan Site Inspection Report
CC-RVAAP-70 East Classification Yard	Site Inspection Work Plan Site Inspection Report
CC-RVAAP-72 Facility-Wide Underground Storage Tanks (USTs)	Site Inspection Work Plan Site Inspection Report
CC-RVAAP-75 George Road Sewage Treatment Plan	Site Inspection Work Plan Site Inspection Report
CC-RVAAP-77 Building 1037 - Laundry Waste Water Sump	Site Inspection Work Plan Site Inspection Report
CC-RVAAP-79 DLA Ore Storage Sites – Remaining Ore Sites	Remedial Investigation Work Plan Remedial Investigation Report
CC-RVAAP-76 Depot Area	Remedial Investigation Work Plan Remedial Investigation Report Feasibility Study
CC-RVAAP-68 Electric Substations (East, West, and No. 3)	Remedial Investigation Work Plan Remedial Investigation Report

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Site:	Deliverable:	
CC-RVAAP-69 Building 1048 Fire Station	Remedial Investigation Work Plan	
Ŭ	Remedial Investigation Report	
CC-RVAAP-73 Facility-Wide Coal Storage	Remedial Investigation Work Plan	
	Remedial Investigation Report	
CC-RVAAP-74 Building 1034 - Motor Pool Hydraulic	Remedial Investigation Work Plan	
Lift	Remedial Investigation Report	
CC-RVAAP-78 Quarry Pond Surface Dump	Remedial Investigation Work Plan	
	Remedial Investigation Report	
CC-RVAAP-79 DLA Ore Storage Sites – Remaining	Remedial Investigation Work Plan	
Ore Sites	Remedial Investigation Report	
Option:	Remedial Investigation Work Plan	
CC-RVAAP-70 East Classification Yard	Remedial Investigation Report	
Option:	Remedial Investigation Work Plan	
CC-RVAAP-71 Barn No. 5 Petroleum Release	Remedial Investigation Report	
Option:	Remedial Investigation Work Plan	
CC-RVAAP-72 Facility-Wide Underground Storage	Remedial Investigation Report	
Tanks (USTs)		
Option:	Remedial Investigation Work Plan	
CC-RVAAP-75 George Road Sewage Treatment Plant	Remedial Investigation Report	
Option:	Remedial Investigation Work Plan	
CC-RVAAP-77 Building 1037 Laundry Waste Water	Remedial Investigation Report	
Sump		
Option:	Remedial Investigation Work Plan	
CC-RVAAP-80 Group 2 Propellant Can Tops	Remedial Investigation Report	
Option:	Remedial Investigation Work Plan	
CC-RVAAP-83 Former Buildings 1031 and 1039	Remedial Investigation Report	
CC-RVAAP-73 Facility-Wide Coal Storage	Removal Action Work Plan	
	Removal Action Report	
CC-RVAAP-79 DLA Ore Storage Sites – Remaining	Removal Action Work Plan	
Ore Sites	Removal Action Report	
CC-RVAAP-73 Facility-Wide Coal Storage	Removal Action Work Plan	
	Removal Action Report	
CC-RVAAP-74 Building 1034 Motor Pool Hydraulic	Removal Action Work Plan	
Lift	Removal Action Report	
CC-RVAAP-78 Quarry Pond Surface Dump	Removal Action Work Plan	
	Removal Action Report	
CC-RVAAP-79 DLA Ore Storage Sites – Remaining	Removal Action Work Plan	
Ore Sites	Removal Action Report	
Option:	Removal Action Work Plan	
CC-RVAAP-72 Facility-Wide Underground Storage	Removal Action Report	
Tanks (USTs)		

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Table 4-2: Document Distribution List

Agency Contact/Address	<u>Preliminary</u> <u>Draft</u>	<u>Draft</u>	<u>Final</u>
U.S. Army Environmental Command	HC: 0	HC: 0	HC: 0
Attn: Mark Eldridge, 2450 Connell Road	EC: 1	EC: 1	EC: 1
Fort Sam Houston, TX 78234-7664			
BRAC - Assistant Chief of Staff Installation	HC: 0	HC: 0	HC: 0
Management	EC: 1	EC: 1	EC: 1
Attn: William O'Donnell, BRAC Office Program			
Manager			
2530 Crystal Drive			
Arlington, VA 22202			
Ravenna Army Ammunition Plant	HC: 2	HC: 2	HC: 2
Attn: Mark Patterson, Facility Manager	EC: 2	EC: 2	EC: 2
Building 1037			
8451 State Route 5			
Ravenna, OH 44266			
Louisville District Corps of Engineers	HC: 3	HC: 3	HC: 3
Attn: Glen Beckham, LRL IRP/MMRP Project Manager	EC: 3	EC: 3	EC: 3
600 Martin Luther King Jr. Place			
Louisville, KY 40202			
National Guard Bureau	HC: 0	HC: 0	HC: 0
Attn: Kim Harriz, Cleanup Program Manager	EC: 1	EC: 1	EC: 1
NGB-AR-EI			
111 S. George Mason Drive			
Arlington, VA 22206			
Ohio Army National Guard	HC: 1	HC: 1	HC: 1
Attn: Katie Tait, Environmental Specialist	EC: 1	EC: 1	EC: 1
1438 State Route 534, SW			
Newton Falls, OH 44444			
Ohio EPA – NE District, DERR	HC: 0	HC: 2	HC: 2
Attn: Eileen Mohr, Facility Coordinator	EC: 0	EC: 2	EC: 2
2110 E. Aurora Road			
Twinsburg, OH 44087	110.0		
Ohio EPA	HC: 0	HC: 0	HC: 0
Office of Federal Facility Oversight, SW District	EC: 1	EC: 1	EC: 1
Attn: Bonnie Buthker, Federal Facilities Coordinator			
401 E. 5th Street			
Dayton, OH 45402			
ECC	HC: 1	HC: 1	HC: 1
Attn: Al Easterday, Project Manager	EC: 1	EC: 1	EC: 1
33 Boston Post Road West, Suite 340			
Marlborough, MA 01752 HC = hard copy			

850

HC = hard copy EC = electronic copy 851

853 4.1 **Additional Site Plans**

854 855 Prior to the beginning of any field work, ECC will prepare any additional plans or documents 856 (e.g., sampling and analysis plans, quality assurance project plans, waste minimization plans, 857 health and safety plans) consistent with the regulatory drivers listed in Section 1.0 of the PWS, 858 and any other agreements, orders, or regulations that apply to the Installation and sites. These 859 plans and documents shall be subject to Army and Ohio EPA review and approval. 860

4.2 861 **Project Schedule**

862 863 The overall project schedule is shown in Appendix A and incorporates ECC's latest time frame for achieving the performance objectives presented in the PWS for the fourteen CR Sites at the 864 865 time of award of the Delivery Order. A milestone schedule has been prepared and is presented in 866 Appendix B. This schedule will be provided to Ohio EPA for approval per the Director's Final Findings and Orders as needed. A detailed schedule for each site will also be completed and 867 868 included in the appropriate work plan for each site.

869

870 The project schedule will be updated and submitted with the monthly status report as necessary 871 when significant changes are made. The schedule will include all events that impact the project 872 and will be updated for actual starts and finishes, unforeseen or uncontrollable delays, changes in

approaches at sites, etc. 873 874

875 4.3 **Geographic Information System**

876

877 ECC will provide the Ravenna Environmental Information System (REIMS) administrator with

878 electronic copies of all documents in PDF and Geographic Information System (GIS) files used 879 to prepare documents. The GIS information will be presented on maps and submitted to the 880 REIMS administrator in electronic format. Drawings will be submitted in electronic (PDF) 881 format. Maps will be submitted in ArcView compatible format or at a minimum in ESRI shape 882 files, ArcInfo coverages, or AutoCad formats. All electronic files will be submitted to the 883 **REIMS** administrator on compact discs.

884

885 4.4 **Project Repository and Administrative Record**

886

887 At the completion of each major milestone, ECC will provide to the Installation POC, in both 888 paper and electronic (PDF) format, project-related information to ensure pertinent documentation 889 and data are available for project reviews, and to provide a clear record to support decisions and 890 remediation documentation. The Installation POC will include this information in the project 891 repository and the Administrative Record, as appropriate. The Administrative Record is located 892 at:

- 894 Ravenna Army Ammunition Plant
- 895 Building 1037
- 896 8451 State Route 5 - Ravenna, OH 44266
- 897

- 898 ECC shall update at least quarterly, a multimedia (i.e., both paper and electronic format) project 899 repository of all project-related information to ensure that pertinent documentation and data are 900 available for project reviews, and to provide a clear record of the contract approach to support 901 final decisions and remediation completion. This repository is the property of the Army and 902 available to the Army upon request by the CO. A project repository is currently maintained at 903 two locations as follows:
- 904
- 905 Reed Memorial Library
- 906 167 E. Main Street
- 907 Ravenna, OH 44266
- 908 Phone: (330) 296-2827
- 909
- 910 Newton Falls Public Library
- 911 204 South Canal Street
- 912 Newton Falls, Ohio 44444-1694
- 913 Phone: (330) 872-1282
- 914

915 **4.5** Army Environmental Database and Environmental Restoration Information System

916

917 ECC shall comply with the applicable requirements for data validation and submission for the

918 Army Environmental Databases and Environmental Restoration Information System (ERIS) in

919 accordance with Section 4.8.1 of the PWS. Once a site is identified in the Delivery Order as

having achieved remedy-in-place (RIP) (i.e., appropriate documentation is finalized), ECC will

be responsible for providing the CO, or their designated representative, with the data and
 documentation necessary for the closeout of each site in the Army Environmental Database –

923 Restoration Module (AEDB-R). In addition, ECC will upload semi-annually, all generated

analytical data into the ERIS. The Army, through the CO, will provide data specifications for

925 the AEDB-R and ERIS to ECC. The Army will be responsible for uploading all previous data 926 related to the sites covered under the PWS for ECC's use and it is expected the Army will

- provide all previous data in ERIS format. The Army shall also provide ECC with the required
- 928 access and sponsorship to complete these tasks in the ERIS and AEDB-R.

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943 5.0 **QUALITY MANAGEMENT**

944 945 This chapter discusses quality management and presents the QA/QC strategy to be used by the 946 Army to assess progress toward project milestones. ECC will ensure that the quality of all work 947 performed or produced under this Delivery Order meets Army approval through the COR.

948 A Quality Assurance Project Plan (QAPP) and a Quality Assurance Surveillance Plan will be

949 prepared by ECC and approved by the COR prior to the performance of any physical work.

950

951 ECC will prepare the QAPP as an addendum to the Quality Control Plan for the 2010 Phase I

- 952 Remedial Investigations Services at Compliance Restoration Sites (9 Areas of Concern) (SAIC,
- 953 2010) to ensure QA/QC requirements will be met under this Task Order.
- 954

955 In addition, the QAPP will be provided to the Ohio EPA for approval per the Director's Final

956 Findings and Orders. To the extent possible, ECC will utilize existing QA/QC plans prepared

957 for RVAAP and generate addendums to these plans for any new activities. This will ensure

958 procedural consistencies, a higher level of quality and reduce review time. The QA/QC plans 959 will identify the personnel, procedures, controls, instructions, tests, verifications, documents, and

960 forms to be used, and the records to be maintained. Key processes and procedures addressed in 961 the QA/QC plans may include:

962

963 • Organizational Description—Duties, responsibilities, and authorities of key project team 964 members.

- 965 • Definable Features of Work—Listing and brief descriptions of all definable features 966 identified within the applicable specifications and/or work plan documents.
- 967 • Daily Reporting—Complete daily QC reports augmented with supportive data and 968 documentation that is transmitted to the client on a daily basis.
- 969 • Submittal Management Procedures—Procedures and methods that certify all 970 submittals are in compliance with the task order requirements.
- 971 Testing Procedures—Procedures and methods that ensure test control measures are • 972 adequately performed, documented, and conform to task order requirements.
- 973 • Completion Inspection—Procedures for conducting a pre-final inspection, developing 974 a punch list, and resolving deficiencies in preparation for the final inspection.
- 975 • Deficiency Reporting—Reporting and tracking using a systematic process that 976 acquires effective corrective action and QC verification.
- 977 Documents and Records—Procedures that ensure a current, accurate, and complete • 978 project records system and factual evidence that all required QC activities and/or tests 979 have been performed.
- 980

981 ECC will provide notification to the COR and Ohio EPA a minimum of 15 working days prior 982 to the commencement of significant project activities. These activities will include, but are not 983 limited to, meetings for work at sites, sampling activities, drilling, geophysical investigations, 984

and monitoring events. This will provide the COR with the opportunity to verify compliance 985 with task order requirements and adherence to the stipulations of the project QAPP. ECC

986 will also notify RVAAP to ensure there is no conflict with any ongoing Installation activities and

- 987 that appropriate facility access requirements have been met.
- 988

989 5.1 Quality Control Testing

990

991 Chemical QC will be provided whenever sampling or analysis for chemical constituents is 992 required in order to achieve milestones. QC for traditional soils or geotechnical testing also will 993 be included. The laboratory(ies) to be used by ECC will be National Environmental Laboratory 994 Accreditation Conference (NELAC)-certified, will perform testing in accordance with 995 requirements of the DOD Quality Systems Manual (QSM), Version 3 (or the latest approved 996 version), and will be compliant with the Louisville Chemistry Guideline (LCG). If necessary, 997 and with approval from the Army, USACE, and the Ohio EPA, ECC may establish an onsite 998 testing laboratory at the project site. All onsite testing will meet the requirements of USEPA, 999 specific state regulator requirements and the most stringent requirements of the most recently 1000 approved DOD QSM and the current LCG.

1001

1002 All samples collected and analyzed under this Delivery Order will be generated in Electronic 1003 Data Deliverable (EDD) format compatible with uploading requirements for ERIS and other 1004 required databases as discussed in Section 4.5. ECC will complete data verification, including 1005 successfully processing all required electronic data. The EDD will accurately reflect all 1006 analytical quality requirements. All electronic data submitted by the contract laboratory is 1007 required to be error-free and in complete agreement with the hard copy data. Laboratories will 1008 provide the appropriate Chemical Abstracts Services (CAS) number to a specific analyte. A 1009 Load Summary Report and a transmittal letter from the laboratory will accompany the hard copy 1010 data report, certifying that the EDD is in agreement with hard copy data reports and was found to 1011 be free of errors. ECC will perform data validation on all data received. A copy of the data 1012 package also will be provided to RVAAP for the project repositories.

1013

1014 5.2 Data Quality Management

1015

1016 ECC has developed an integrated process for acquiring and managing environmental data for 1017 this project. ECC uses a Microsoft SQL Server 2005 as its data repository with quality checks 1018 at critical steps. ECC's database will accommodate all field and analytical laboratory data 1019 associated with environmental site investigation and remediation for this project. Microsoft 1020 Visual Studio 2005 will be the primary tool used for producing project deliverables (such as 1021 report tables) or to support data analysis, evaluation, and visualization using tools such as a GIS. 1022 ECC will incorporate ArcSDE as the interface for the GIS solution and immediate data retrieval 1023 mechanism. GIS data set shall be accompanied by metadata conforming to the Federal 1024 Geographic Data Committee (FGDC) Content Standard for Digital Geospatial Metadata (CSDGM) and be provided in a geodatabase that is compliant with the Spatial Data Facilities. 1025 1026 Infrastructure, and Environment (SDSFIE) standards and the requirements of the PWS. ECC 1027 will test the horizontal accuracy of the GIS data in accordance with the National Standard for 1028 Spatial Data Accuracy (NSSDA). All GIS data shall be provided in the Universal Transverse 1029 Mercator (UTM) coordinate system and shall have a datum of WGS84. The primary objective of 1030 ECC's data acquisition and management process is to generate data that meets the project's data

1031	quality objectives and EDD requirements in a timely and efficient manner. ECC's database									
1032	management enhances the ability to accomplish this goal through:									
1033										
1034	• Ease of use and familiarity when working with ECC subcontractor laboratories									
1035	• Direct upload of EDD from the laboratory into the database									
1036	Integrated data completeness and quality checks									
1037	• Direct support for validation of analytical data per the Facility-Wide Sampling and									
1038	Analysis Plan (SAIC, 2011), QSM and LCG requirements									
1039	• Data management POC for project deliverables, data requests, and reporting									
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1054 6.0 SITE LOGISTICS

1056 The ECC PM will communicate with the COR and/or designee to review and coordinate field 1057 schedules and activities for execution of the PWS.

1059 6.1 Health and Safety

ECC will produce and implement a written Accident Prevention Plan/Site Safety and Health Plan (APP/SSHP) which will be an addendum to the approved Facility-Wide Safety and Health Plan (FWSHP) (USACE 2011) that will meet the requirements of the federal, state, and local laws and regulations prior to conducting any fieldwork. ECC will ensure that its subcontractors, suppliers, and support personnel follow all established safety and health provisions.

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At a minimum, the SSHP will contain the following elements: site description and contaminant
 characterization, safety and health hazard(s) assessment and risk analysis, safety and health staff
 organization and responsibilities, site-specific training and medical surveillance parameters,

1070 personal protective equipment and decontamination facilities and procedures to be used,

1071 monitoring and sampling required, safety and health work precautions and procedures, site

1072 control measures, on-site first aid and emergency equipment, emergency response plans and 1073 contingency procedures (on-site and off-site), logs, reports, and recordkeeping. Personnel

1074 involved in certain munitions response activities will, as required, meet the qualifications of

- 1075 DOD Explosives Safety Board, Technical Pamphlet (TP) 18, and Minimum Qualifications for
- 1076 UXO Technicians and UXO-Qualified Personnel. All personnel performing munitions response
- 1077 activities that present an explosive risk will be limited to a 50-hour workweek, with no individual
- 1078 workday exceeding 10 hours total, unless specifically authorized by the COR. Accident reporting
- and recordkeeping will be performed in accordance with USACE EM 385-1-1, part 01.D for all
 USACE elements and missions under the command of the Chief of Engineers.
- 1080

ECC's proposed work will adhere to the RVAAP Facility-Wide Safety and Health Plan (USACE 2011), ECC's approved SSHP (and associated site-specific addendums) will tier under the RVAAP FWSHP and neither document can be implemented without the other. ECC's health and safety goal is to provide an injury free work environment where facilities and projects are free of recognized hazards; and people, equipment, and the environment are not placed at unreasonable risk of injury or damage.

1088

10896.2Protection of Property

1090

All fourteen Compliance Restoration sites are believed to be limited to the property boundaries
of the RVAAP. As such, the USACE does not anticipate that formal Rights of Entries (ROEs)
will be required to access the boundaries of the sites. Access to the fourteen CR site properties
will be provided by the on-site BRAC-D Facility Manager, and members of the on-site Ohio
Army National Guard. Should formal ROEs be required to assess off-property locations, then
the U.S. Government will obtain the necessary ROEs for ECC.

- 1097
- 1098 ECC will coordinate with Army (RVAAP, USACE and Camp Ravenna) to minimize potential

- 1099 damage to existing resources and property. Mobilization at intrusive investigation sites will be
- 1100 sequenced to ensure that impacts are minimized. ECC will be responsible for any damage that
- 1101 may be caused to property of the United States (Federal property) or any other property owned
- 1102 by others during ECC activities under this contract and will exercise due diligence in the
- 1103 protection of all property located on the premises against fire or damage from any and all other
- 1104 causes. Any property of the United States or owned by others damaged or destroyed by the
- 1105 ECC incident to the exercise of the privileges herein granted will be promptly repaired or 1106 replaced by ECC to a condition satisfactory to the COR or reimbursement is made by ECC
- 1107 sufficient to restore or replace the property to a condition satisfactory to the COR in accordance
- 1108 with Federal Acquisition Regulation (FAR) Clause 52.245-2.

7.0 1110 **RECORDS MANAGEMENT**

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1109

1112 ECC will maintain records of all data collected and related files. All files, including data, lists, 1113 remediation results, photographs, and maps, will be organized and will be filed. Electronic files 1114 of data, maps, QA/QC data, waste profiles and other pertinent information will be properly archived. Reports and submittals will be provided to the stakeholders as required. All reports will 1115 be assigned unique document control numbers. Any records pertaining to or possibly pertaining 1116 1117 to any matter in litigation or a matter that may possibly be litigated shall be retained for at least 5

1118 years after the litigation is completed and may be retained longer if otherwise required by 1119 contract, applicable law or this policy and may be discarded ONLY with written approval of a 1120 company attorney. All project documents will be prepared in accordance with the most recent 1121 version of the RVAAP Deliverable Document Format Guidelines.

1122

1123 ECC encourages the use of electronic storing of any and all records when feasible from a

1124 practical and financial standpoint. Any documents that are stored electronically on disks may be

1125 maintained there permanently if necessary. Any such disks will be labeled clearly and

adequately so that record retrieval is efficient. Media chosen for electronic storage will be 1126

1127 capable of maintaining records in a readable form for the required retention period and will be

1128 able to be accessed even with changes in hardware and software during the retention period. 1129

The minimum retention period for specific deliverable types that may be encountered on the 1130 project are as follows:

1131 1132

- Accident Reports and Claims 7 years •
- 1133 • Corporate Records (Minutes, By-Laws, Articles, Shareholder/Stock Records, Acquisition and Sale Records) - Permanent 1134
- 1135 • Contracts and Leases – 10 years from expiration/termination
- 1136 • Project Documents (Plans, contracts, notes, etc.) – 10 years from end of project
- 1137 Financial Documents (purchase orders, invoices, etc.) -10 years from end of project •
- Contracts and Contract Documents 10 years from end of project 1138 •
- 1139 • Invoices and Billing Documents – 10 years from end of project
- Technical Drawings and Information Minimum 8 years but according to Contract or 1140 • applicable law for longer retention 1141
- 1142 • Accounts Payable Ledgers – 7 years
- 1143 Accounts Receivable Ledgers – 7 years •
- 1144 • Government Audit Reports - Permanent
- 1145 • Bank Reconciliations – 2 years
- 1146 • Bank Statements – 7 years
- Budget Information 3 years 1147 •
- 1148 Canceled Checks – 7 years •
- Canceled Checks Permanent 1149 •
- 1150 Cash Books – Permanent •
- 1151 • **Depreciation Schedules – Permanent**
 - Deposit Slips 10 years •

1153	•	Expense Reports – 10 years
1154	•	Financial Statements – Permanent
1155	•	Financing Agreements – Permanent
1156	•	General Ledgers – Permanent
1157	•	Internal Audit Work Papers – 7 years from date of report
1158	•	Inventory Records – 7 years
1159	•	Invoices to and from Customers – 7 years
1160	•	Payroll Records – 7 years
1161	•	Purchase Orders, General – 7 years
1162	•	Sales Records – 7 years
1163	•	Tax Returns – Permanent
1164	•	Stock Option Records – 10 years
1165	•	Litigation Records – 5 years after conclusion
1166	•	Legal Records, Other – 10 years
1167	•	Legal Records related to Assets – Permanent
1168	•	Legal Records related to Acquisitions & Mergers – Permanent
1169	•	Insurance Records – Permanent
1170	•	Intellectual property – Permanent
1171	•	Real Estate/Deeds – Permanent
1172	•	Sales Records – 10 years
1173	•	Training Records – Permanent
1174	•	Workers Compensation Records – 10 years
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11988.0GOVERNMENT RESOURCES

Government-furnished resources, contractor-furnished and/or acquired property and contractor-furnished resources are discussed in this section.

1203 8.1 Army-Furnished Resources

1205 Under this Delivery Order, the Army shall provide specified resources to ECC for investigation
1206 and remediation purposes. Army-furnished resources to be provided to ECC under this task
1207 order will include the following:

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- Access to Army-maintained records, reports, data, analyses, and information, in their current format (e.g., paper copy, electronic, tape, disks, compact disks), as related to access to DOD and Army policy and guidance documents
 - ROEs for all sites in the Delivery Order
 - Costs for evacuations, compensation, and temporary housing for displaced residents during intrusive activities and MEC destruction
- 1216 8.2 Contractor-Furnished Resources

ECC, as the Contractor, must possess all the required expertise, knowledge, equipment and tools
required to meet or exceed the government's objectives identified in the Delivery Order in
accordance with established industry standards. Contractor furnished resources to be provided
by ECC includes the following:

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- Coordination with the Army and the Installation in order to get access to the Installation and any off-site properties, as required for execution of the PWS and by doing so, will follow the procedures described during the Contractors' meeting at the Installation.
- Coordination with the Army and the Installation in order to gain access to available infrastructure (e.g., buildings, roadways, waste management units, other Installation facilities) and utilities (e.g., electric power and telephone lines, natural gas and water supply distribution pipelines, and wastewater discharge conveyances), as required for execution of the PWS.
- All waste generated under this contract shall be the responsibility of the Contractor with
 respect to waste containerization and labels, waste characterization, temporary waste
 staging and storage, waste transportation, and the proper off-site disposal (within 90 days
 of generation).
 - Any other necessary resources needed to achieve the defined performance objectives in the PWS.
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1253 **9.0 REFERENCES**

Ohio Environmental Protection Agency (Ohio EPA) 2004. Director's Final Findings and
Orders (DFFO) for RVAAP, dated June 10.

SAIC 2011. Facility-Wide Sample and Analysis Plan for Environmental Investigations at the
Ravenna Army Ammunition Plant, Ravenna, Ohio, February 24.

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USACE 2011. Facility-Wide Safety and Health Plan for Environmental Investigations at the
 Ravenna Army Ammunition Plant, Ravenna, Ohio, February 24.

1264 Vista Sciences Corporation (Vista) 2009. Ravenna Army Ammunition Plant Deliverable

1265 *Document Format Guidelines, Version 18*, dated December 21.

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FIGURES

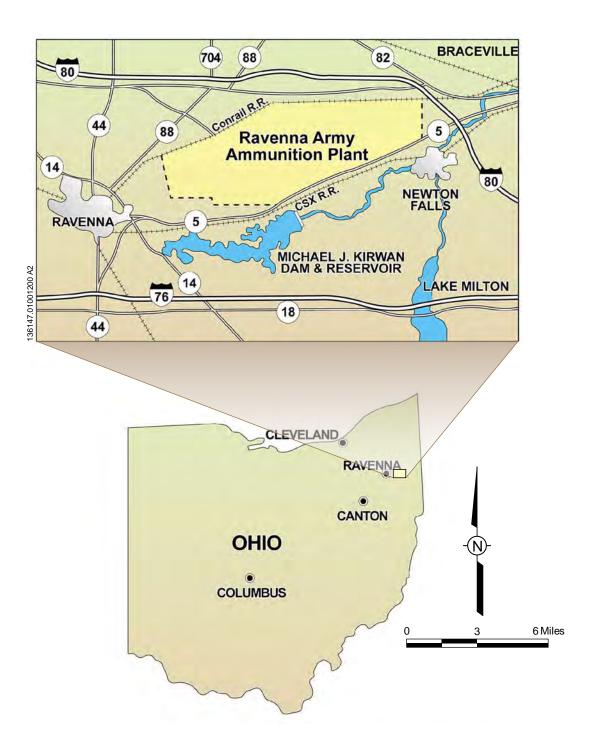
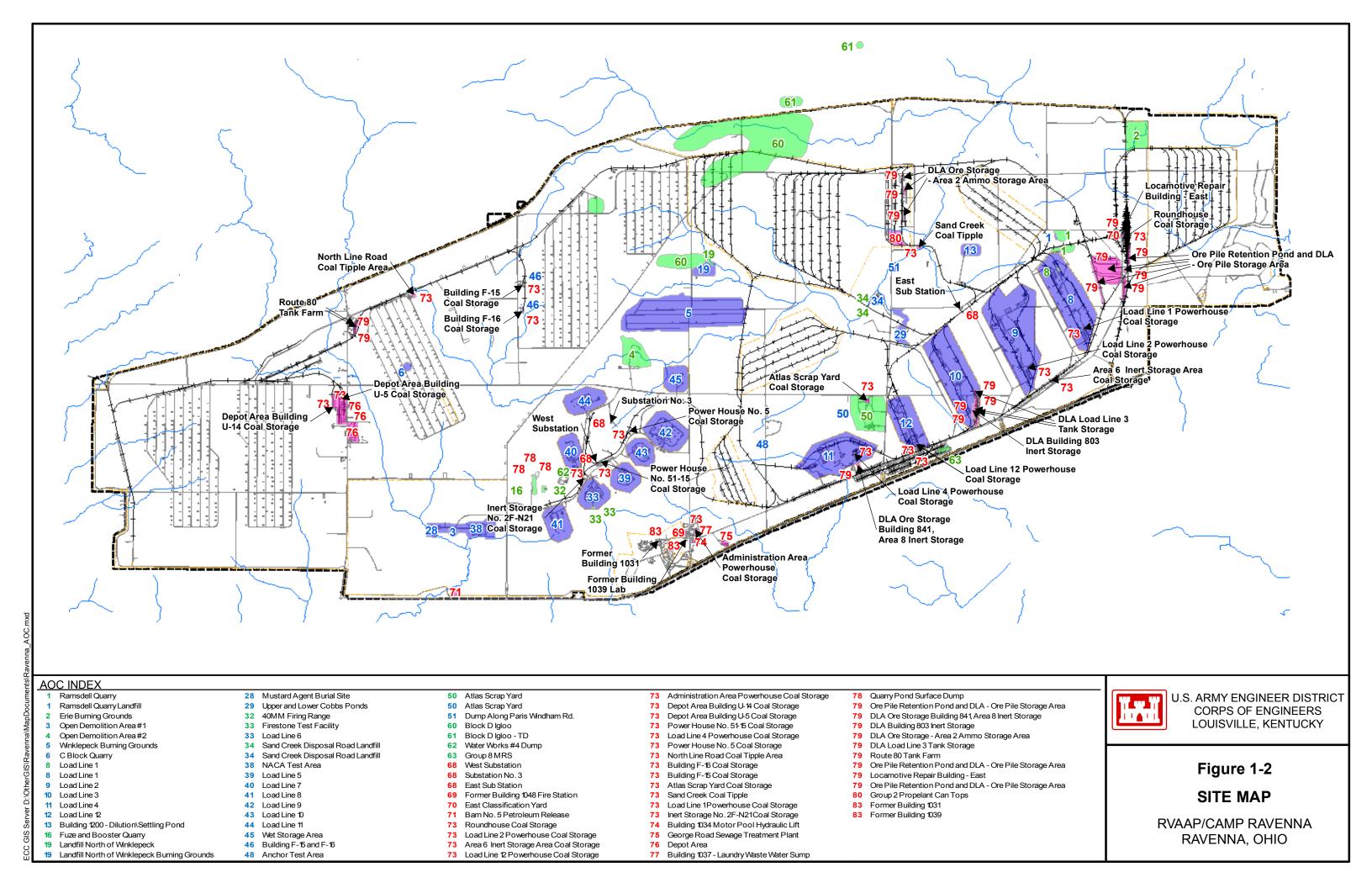


Figure 1-1 Location Map Ravenna Army Ammunition Plant Ravenna, Ohio



APPENDIX A

PROJECT SCHEDULE

Activity ID	CLIN	Activity Description	Cal Days	Early Start	Early Finish	2011 2012 2013 2014 J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N J A S O N D J F M A M J J A S O N J A S O N D J F M A M J J A S O N -1 1 2 3 4 5 6 7 8 9 10111213141516171819202122232425262728293031323334353637383940
Raven	na A	rmy Ammunition Plant				
		eral Conditions				
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0000	0000	Task Order Award	0	15AUG11		◆Task Order Award
0005	0000	Notice to Proceed	0	15AUG11		Notice to Proceed
0010	0000	ECC Project Management (2011)	139*	15AUG11	31DEC11	ECC Project Management (2011)
0030	0000	Conduct Army Kick-Off Meeting	1	08NOV11*	08NOV11	Conduct Army Kick-Off Meeting
0040	0000	Conduct Kick-Off Meeting - Regulators	1	16NOV11	16NOV11	Conduct Kick-Off Meeting - Regulators
0012	0000	ECC Project Management (2012)	366	01JAN12	31DEC12	ECC Project Management (2012)
	0000	ECC Project Management (2013)	365	01JAN13	31DEC13	ECC Project Management (
	0000	ECC Project Management (2014)	365	01JAN14	31DEC14	
	0000	ECC Project Management (thru 30JUL15)	210*	01JAN15	29JUL15	
		istrative Record Updates	1 1 1 7	15411011	201111 4 5	
	0000	Monthly Updates to Project Repository	1,445	15AUG11	29JUL15	
	0000	Quarterly Updates to Admin Record	1,445	15AUG11	29JUL15	
Contrac	ctual M	lilestones				
0044	0000	Clin 0001 Approval Final DMD & QASD	0		17EED12	
0044	0000	Clin 0001 Approval Final PMP & QASP	0		17FEB12	Clin 0001 Approval Final PMP & QASP
0050	0000	Begin Field Work	0	20MAY12		Begin Field Work
0046	0000	Clin 0002 Approved Historical Records Review	0		06JUL12	Clin 0002 Approved Historical Records Review
0052	0000	Clin 0003 (Opt) Approved SI CC-RVAAP-71	0		27MAY13	◆30JUL12 ◆Clin 0003 (Opt) Approved SI CC-RVAAP-72
0054	0000	Clin 0004 (Opt) Approved SI CC-RVAAP-83	0		06MAY13	◆Clin 0004 (Opt) Approved SI CC-RVAAP-83 ◆30JUL13
0056	0000	Clin 0005 Approved SI CC-RVAAP-70, 72, 75 & 77	0		17JUL13	Clin 0005 Approved SI CC-RVAAP-70,
0058	0000	Clin 0006 Approved RI CC-RVAAP-79 (DLA-Main Ore)	0		26JAN14	Clin 0006 Approved RI
0060	0000	Clin 0007 Approved FS CC-RVAAP-76	0		29JAN14	Clin 0007 Approved FS
0062	0000	Clin 0008 Approved RI CC-RVAAP-68,69,73,74,78,79	0		04MAR15	
0064	0000	Clin 0009 (Opt) Approved RI CC-RVAAP-70	0		08MAR15	
0066	0000	Clin 0010 (Opt) Approved RI CC-RVAAP-71	0		04MAR15	
0068	0000	Clin 0011 (Opt) Approved RI CC-RVAAP-72	0		27MAR15	
0070	0000	Clin 0012 (Opt) Approved RI CC-RVAAP-75	0		24APR15	
0072	0000	Clin 0013 (Opt) Approved RI CC-RVAAP-77	0		24MAY15	
0074	0000	Clin 0014 (Opt) Approved RI CC-RVAAP-80	0		21JUN15	
	0000	Clin 0015 (Opt) Approved RI CC-RVAAP-83	0		15JUL15	
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Start Date Finish Date Data Date Run Date		15AUG11 29JUL15 15AUG11 16NOV11 16:24	Progree	ctual Milestor	File Name: Filter: All	RP08 ECC Sheet 1 of 20 Ravenna Army Ammunition Plant Environmental Investigation & Remediation 14 Compliance Restoration Sites Schedule for Draft PMP

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Activity	CLIN	Activity	Cal	Early	Early	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
ID		Description	Days	Start	Finish	-1 1 2 3 4 5 6 7 8 9 1011121314151617181920212223242526272829303132334353637383940414243444546474849505152535455565758596061626364656667686970
	0002	Attend Comment Resolution Mtg Draft HRR CLIN 2	3	30APR12	02MAY12	Attend Comment Resolution Mtg Draft HRR CLIN 2
	0002	Prep/Submit Final HRR To Army&Ohio EPA CLIN 2	20	03MAY12		Prep/Submit Final HRR To Army&Ohio EPA CLIN 2
	0002	Army/Ohio EPA Revw & Approve Final HRR CLIN 2	45	23MAY12	06JUL12	Army/Ohio EPA Revw & Approve Final HRR CLIN 2
Approve	d His	torical Record Review				
		rd Review				
71-8200 0	0002	Approved Historical Record Revw CC-RVAAP-71&83	0		06JUL12	Approved Historical Record Revw CC-RVAAP-71&83
			151	041101444	0.61111.1.0	
Subtotal 0			171	01NOV11	06JUL12	
CLIN 00	03 (C	Opt) Site Inspection CC-RVAAP-71				
CC-RVA	AP-71	(Barn No. 5 Petroleum Release)				
Site Inves	stigatio	on Work Plan				
1310 0	0003	Prep & Submit Pre-Draft SIWP To Army CC-RVAAP-71	30	19FEB12	19MAR12	Prep & Submit Pre-Draft SIWP To Army CC-RVAAP-71
1320 0	0003	Submit Pre-Draft SIWP To Army CC-RVAAP-71	0		19MAR12	Submit Pre-Draft SIWP To Army CC-RVAAP-71
1330 0	0003	Army Review Pre-Draft SIWP CC-RVAAP-71	30	30MAR12	28APR12	Army Review Pre-Draft SIWP CC-RVAAP-71
1340 0	0003	Attend Comment Resolution Meeting SIWP RVAAP-71	1	30APR12	30APR12	Attend Comment Resolution Meeting SIWP RVAAP-71
1350 0	0003	Prep&Submit Draft SIWP To Army/Ohio EPA RVAAP-71	10	01MAY12	14MAY12	Prep&Submit Draft SIWP To Army/Ohio EPA RVAAP-71
1380 0	0003	Army/Ohio EPA Review Draft SIWP CC-RVAAP-71	45	15MAY12	28JUN12	Army/Ohio EPA Review Draft SIWP CC-RVAAP-71
1390 0	0003	Attend Comment Resolution Mtg Drft SIWP RVAAP-71	3	29JUN12	03JUL12	Attend Comment Resolution Mtg Drft SIWP RVAAP-71
1400 0	0003	Prep & Submit Final SIWP To Army/EPA CC-RVAAP-71	15	05JUL12	25JUL12	Prep & Submit Final SIWP To Army/EPA CC-RVAAP-71
1430 0	0003	Army /Ohio EPA Revw & Approve Fnl SIWP RVAAP-71	45	26JUL12	08SEP12	Army /Ohio EPA Revw & Approve Fnl SIWP RVAAP-71
SI Field In	nvestig	ation	,			
1500 0	0003	Request For Site Access	14	26JUL12	08AUG12	Request For Site Access
1510 0	0003	Mobilize To Site CC-RVAAP-71	1	10SEP12	10SEP12	Mobilize To Site CC-RVAAP-71
1520 0	0003	Conduct Field Investigation CC-RVAAP-71	2	11SEP12	12SEP12	Conduct Field Investigation CC-RVAAP-71
1530 0	0003	Demobilize Site CC-RVAAP-71	1	13SEP12	13SEP12	Demobilize Site CC-RVAAP-71
1540 0	0003	Conduct Lab Analysis CC-RVAAP-71	10	14SEP12	27SEP12	Conduct Lab Analysis CC-RVAAP-71
1550 0	0003	Data Review Meeting CC-RVAAP-71	2	28SEP12	010CT12	Data Review Meeting CC-RVAAP-71
Field Wor	rk Com	pletion Report				
1580 0	0003	Prep/Submit Field Work Compl Report CC-RVAAP-71	15	020CT12	230CT12	Prep/Submit Field Work Compl Report CC-RVAAP-71
1590 0	0003	Submit Field Work Compl Report CC-RVAAP-71	0		230CT12	Submit Field Work Compl Report CC-RVAAP-71
Site Inves	stigatio	on Report				
1600 0	0003	Develop SI Report - Pre- Draft CC-RVAAP-71	40	240CT12	02DEC12	Develop SI Report - Pre- Draft CC-RVAAP-71
1605 0	0003	Submit Pre-Draft SIR To Army CC-RVAAP-71	0		02DEC12	Submit Pre-Draft SIR To Army CC-RVAAP-71
1610 0	0003	Army Revw SI Report - Pre-Draft CC-RVAAP-71	30	03DEC12	01JAN13	Army Revw SI Report - Pre-Draft CC-RVAAP-71
1620 0	0003	Comment Res Mtg SIR Pre-Draft CC-RVAAP-71	2	02JAN13	03JAN13	Comment Res Mtg SIR Pre-Draft CC-RVAAP-71
1640 0	0003	Revise & Submit SI Report - Draft CC-RVAAP-71	15	04JAN13	25JAN13	Revise & Submit SI Report - Draft CC-RVAAP-71
1650 0	0003	Army/Ohio EPA Review SIR Draft CC-RVAAP-71	45	26JAN13	11MAR13	Army/Ohio EPA Review SIR Draft CC-RVAAP-71
1660 0	0003	Comment Res Mtg SIR Draft CC-RVAAP-71	2	12MAR13		Comment Res Mtg SIR Draft CC-RVAAP-71
	0003	Prep&Submit Final SIR To Army/Ohio EPA RVAAP-71	30	14MAR13		Prep&Submit Final SIR To Army/Ohio EPA RVAAP-71
	0003	Army/Ohio EPA Revw & Apprv Final SIR RVAAP-71	45	13APR13	27MAY13	Army/Ohio EPA Revw & Apprv Final SIR RVAAP-71
1700 0	0003	Submit SI Report - Final CC-RVAAP-71	0		27MAY13	Submit SI Report - Final CC-RVAAP-71
Site Inves	stigatio					
1750 0	0003	Approved Site Inspection CC-RVAAP-71	0		27MAY13	◆Approved Site Inspection CC-RVAAP-71
	002			1055515	073 6 5 5 5 5	30JUL13 · · · · · · · · · · · · · · · · · · ·
Subtotal 0			319	19FEB12	27MAY13	
CLIN 00	04 (C	Opt) Site Inspection CC-RVAAP-83				
CC-RVA	AP- <u>83</u>	6 (Former Bldgs 1031 & 1039)				
		on Work Plan				
	0004	Prep & Submit Pre-Draft SIWP To Army CC-RVAAP-83	30	19FEB12	19MAR12	Prep & Submit Pre-Draft SIWP To Army CC-RVAAP-83
1820 0	0004	Submit Pre-Draft SIWP To Army CC-RVAAP-83	0		19MAR12	Submit Pre-Draft SIWP To Army CC-RVAAP-83
1830 0	0004	Army Review Pre-Draft SIWP CC-RVAAP-83	30	30MAR12	28APR12	Army Review Pre-Draft SIWP CC-RVAAP-83
	0004	Attend Comment Resolution Meeting SIWP RVAAP-83	1	30APR12		Attend Comment Resolution Meeting SIWP RVAAP-83

Activity CLIN	-	Cal	Early	Early	2011 2012 2013 2014 2015 2016 2017 J A S O N D J F M A M J J A S O N D J F M A M A M J J A S O N D J F M A M A M J J A S O N D J F M A M A M A M A M A M A M A M A M A M
ID	Description	Days	Start	Finish	-1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 10 10 10 10 10 10 10 10 10 10 10 10 10
1850 0004	Prep&Submit Draft SIWP To Army/Ohio EPA RVAAP-83	20		20MAY12	Prep&Submit Draft SIWP To Army/Ohio EPA RVAAP-83
1860 0004	Army/Ohio EPA Review Draft SIWP CC-RVAAP-83	45		04JUL12	Army/Ohio EPA Review Draft SIWP CC-RVAAP-83
1870 0004	Attend Comment Resolution Mtg Drft SIWP RVAAP-83	3	05JUL12	09JUL12	Attend Comment Resolution Mtg Drft SIWP RVAAP-83
1880 0004	Prep & Submit Final SIWP To Army/EPA CC-RVAAP-83	20	10JUL12		Prep & Submit Final SIWP To Army/EPA CC-RVAAP-83
1890 0004	Army /Ohio EPA Revw & Approve Fnl SIWP RVAAP-83	45	30JUL12	12SEP12	Army /Ohio EPA Revw & Approve Fnl SIWP RVAAP-83
SI Field Invest		14	20111 12	10411010	
1895 0004 1900 0004	Request For Site Access	14	30JUL12 14SEP12		Request For Site Access Mobilize To Site CC-RVAAP-83
1900 0004 1910 0004	Mobilize To Site CC-RVAAP-83 Conduct Field Investigation CC-RVAAP-83	2	14SEP12 17SEP12		
1910 0004 1920 0004	Demobilize Site CC-RVAAP-83	2	17SEP12 19SEP12		Conduct Field Investigation CC-RVAAP-83 Demobilize Site CC-RVAAP-83
1920 0004 1930 0004	Conduct Lab Analysis CC-RVAAP-83	10	20SEP12		Conduct Lab Analysis CC-RVAAP-83
1930 0004	Data Review Meeting CC-RVAAP-83	2		050CT12 050CT12	Data Review Meeting CC-RVAAP-83
	ompletion Report		0400112	0500112	
1950 0004	Prep/Submit Field Work Compl Report CC-RVAAP-83	20	060CT12	250CT12	Prep/Submit Field Work Compl Report CC-RVAAP-83
1960 0004	Submit Field Work Compl Report CC-RVAAP-83	0	00000112	250CT12 250CT12	Submit Field Work Compl Report CC-RVAAP-83
Site Investigat			I 		
1970 0004	Develop SI Report - Pre-Draft CC-RVAAP-83	40	260CT12	04DEC12	Develop SI Report - Pre-Draft CC-RVAAP-83
1975 0004	Submit Pre-Draft SIR To Army CC-RVAAP-83	0		04DEC12	Submit Pre-Draft SIR To Army CC-RVAAP-83
1980 0004	Army Revw SI Report - Pre-Draft CC-RVAAP-83	30	05DEC12		Army Revw SI Report - Pre-Draft CC-RVAAP-83
1990 0004	Comment Res Mtg SIR Pre-Draft CC-RVAAP-83	2	04JAN13		Comment Res Mtg SIR Pre-Draft CC-RVAAP-83
2010 0004	Revise & Submit SI Report - Draft CC-RVAAP-83	20	08JAN13	27JAN13	Revise & Submit SI Report - Draft CC-RVAAP-83
2020 0004	Army/Ohio EPA Review SIR Draft CC-RVAAP-83	45	28JAN13	13MAR13	Army/Ohio EPA Review SIR Draft CC-RVAAP-83
2030 0004	Comment Res Mtg SIR Draft CC-RVAAP-83	2	14MAR13	15MAR13	Comment Res Mtg SIR Draft CC-RVAAP-83
2050 0004	Prep&Submit Final SIR To Army/Ohio EPA RVAAP-83	7	16MAR13	22MAR13	Prep&Submit Final SIR To Army/Ohio EPA RVAAP-83
2060 0004	Army/Ohio EPA Revw & Apprv Final SIR RVAAP-83	45	23MAR13	06MAY13	Army/Ohio EPA Revw & Apprv Final SIR RVAAP-83
2070 0004	Submit SI Report - Final - CC-RVAAP-83	0		06MAY13	Submit SI Report - Final - CC-RVAAP-83
Site Investigat	tion				
83-8500 0004	Approved Site Inspection CC-RVAAP-83	0		06MAY13	◆Approved Site Inspection CC-RVAAP-83 ◆30JUL13
Subtotal 0004		305	19FEB12	06MAY13	
CLIN 0005 S	Site Inspection CC-RVAAP-70,72,75,77				
	I For CC-RVAAP-70, 72, 75, 77				
	tion Work Plan CLIN 5				
2110 0005	Prep & Submit Pre-Draft SIWP To Army CLIN 5	30	19FEB12	19MAR12	Prep & Submit Pre-Draft SIWP To Army CLIN 5
2120 0005	Submit Pre-Draft SIWP To Army CLIN 5	0		19MAR12	Submit Pre-Draft SIWP To Army CLIN 5
2130 0005	Army Review Pre-Draft SIWP CLIN 5	30	30MAR12	28APR12	Army Review Pre-Draft SIWP CLIN 5
2140 0005	Attend Comment Resolution Meeting SIWP CLIN 5	1		30APR12	Attend Comment Resolution Meeting SIWP CLIN 5
2150 0005	Prep&Submit Draft SIWP To Army/Ohio EPA CLIN 5	20	01MAY12	20MAY12	Prep&Submit Draft SIWP To Army/Ohio EPA CLIN 5
2160 0005	Army/Ohio EPA Review Draft SIWP CLIN 5	45	21MAY12	04JUL12	Army/Ohio EPA Review Draft SIWP CLIN 5
2170 0005	Attend Comment Resolution Mtg Drft SIWP CLIN 5	3	05JUL12	09JUL12	Attend Comment Resolution Mtg Drft SIWP CLIN 5
2180 0005	Prep & Submit Final SIWP To Army/EPA CLIN 5	20	10JUL12	29JUL12	Prep & Submit Final SIWP To Army/EPA CLIN 5
2190 0005	Army /Ohio EPA Revw & Approve Fnl SIWP CLIN 5	45	30JUL12	12SEP12	Army /Ohio EPA Revw & Approve Fnl SIWP CLIN 5
	75 (George Rd Sewage Treatment Plant)				
SI Field Invest		1.4	128ED12	268ED12	
2200 0005	Request For Sites Access CLIN 5 Mobilize To Site CC-RVAAP-75 CLIN 5	14	13SEP12		Request For Sites Access CLIN 5
2350 0005 2360 0005	Conduct Field Investigation CC-RVAAP-75 CLIN 5	5	27SEP12	27SEP12 04OCT12	Mobilize To Site CC-RVAAP-75 CLIN 5
2360 0005	Demobilize Off-Site CC-RVAAP-75 CLIN 5		-	040CT12 050CT12	Conduct Field Investigation CC-RVAAP-75 CLIN 5 Demobilize Off-Site CC-RVAAP-75 CLIN 5
2370 0003 2380 0005	Conduct Lab Analysis CC-RVAAP-75 CLIN 5	1		190CT12	Conduct Lab Analysis CC-RVAAP-75 CLIN 5
2390 0005	Data Review Meeting CC-RVAAP-75 CLIN 5			230CT12	Data Review Meeting CC-RVAAP-75 CLIN 5
2390 0003	Sum notion freeding CC-R (7/111-75 CLIIV)	2	2200112	2500112	

Activity CLIN	Activity	Cal	Early Early	
ID	Description	Days	Start Finish	J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A A -1 1 2 3 4 5 6 7 8 9 10111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970
CC-RVAAP-72	2 (Facility-Wide UG Storage Tanks)			
SI Field Investig	gation			
2270 0005	Mobilize To Site CC-RVAAP-72 CLIN 5	1	090CT12 090CT12	Mobilize To Site CC-RVAAP-72 CLIN 5
2280 0005	Conduct Field Investigation CC-RVAAP-72 CLIN 5	10	100CT12 230CT12	Conduct Field Investigation CC-RVAAP-72 CLIN 5
2290 0005	Demobilize Off-Site CC-RVAAP-72 CLIN 5	1	240CT12 240CT12	Demobilize Off-Site CC-RVAAP-72 CLIN 5
2300 0005	Conduct Lab Analysis CC-RVAAP-72 CLIN 5	10	240CT12 06NOV12	Conduct Lab Analysis CC-RVAAP-72 CLIN 5
2310 0005	Data Review Meeting CC-RVVAP-72 CLIN 5	2	07NOV12 08NOV12	Data Review Meeting CC-RVVAP-72 CLIN 5
CC-RVAAP-7	0 (East Classification Yard)			
SI Field Investig				
2210 0005	Mobilize To Site CC-RVAAP-70 CLIN 5	2	250CT12 260CT12	Mobilize To Site CC-RVAAP-70 CLIN 5
2220 0005	Conduct Field Investigation CC-RVAAP-70 CLIN 5	5	290CT12 02NOV12	Conduct Field Investigation CC-RVAAP-70 CLIN 5
2230 0005	Demobilize Off-Site CC-RVAAP-70 CLIN 5	1	05NOV12 05NOV12	Demobilize Off-Site CC-RVAAP-70 CLIN 5
2240 0005	Conduct Lab Analysis CC-RVAAP-70 CLIN 5	10	05NOV12 19NOV12	Conduct Lab Analysis CC-RVAAP-70 CLIN 5
2250 0005	Data Review Meeting CC-RVAAP-70 CLIN 5	2	20NOV12 21NOV12	Data Review Meeting CC-RVAAP-70 CLIN 5
	7 (Bldg 1037-Laundry Waste Wtr Sump)			
SI Field Investi				
2450 0005	Mobilize To Site CC-RVAAP-77 CLIN 5	1	06NOV12 06NOV12	Mobilize To Site CC-RVAAP-77 CLIN 5
2460 0005	Conduct Field Investigation CC-RVAAP-77 CLIN 5	5	07NOV12 14NOV12	Conduct Field Investigation CC-RVAAP-77 CLIN 5
2470 0005 2480 0005	Demobilize Off-Site CC-RVAAP-77 CLIN 5	2	15NOV12 16NOV12 15NOV12 29NOV12	Demobilize Off-Site CC-RVAAP-77 CLIN 5
2480 0005 2490 0005	Conduct Lab Analysis CC-RVAAP-77 CLIN 5 Data Review Meeting CLIN 5	10	13NOV12 29NOV12 30NOV12 03DEC12	Conduct Lab Analysis CC-RVAAP-77 CLIN 5
		2	JOINOVI2 USDECI2	<u> </u>
	ompletion Report CLIN 5			
2500 0005	npletion Report CLIN 5 Prep/Submit Field Work Compl Report CLIN 5	20	04DEC12 23DEC12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Submit Field Work Compl Report CLIN 5	0	23DEC12 23DEC12	Prep/Submit Field Work Compl Report CLIN 5
	ation Report CLIN 5	0	2501012	
	mpletion Report CLIN 5			
2550 0005	Develop SI Report - Pre-Draft CLIN 5	40	24DEC12 01FEB13	Develop SI Report - Pre-Draft CLIN 5
2555 0005	Submit Pre-Draft SIR To Army CLIN 5	0	01FEB13	Submit Pre-Draft SIR To Army CLIN 5
2560 0005	Army Revw SI Report - Pre- Draft - CLIN 5	30	02FEB13 03MAR13	Army Revw SI Report - Pre- Draft - CLIN 5
2570 0005	Comment Res Mtg SIR Pre-Draft CLIN 5	2	04MAR13 05MAR13	Comment Res Mtg SIR Pre-Draft CLIN 5
2590 0005	Revise & Submit SI Report - Draft CLIN 5	20	06MAR13 25MAR13	Revise & Submit SI Report - Draft CLIN 5
2600 0005	Army/Ohio EPA Review SIR Draft CLIN 5	45	26MAR13 09MAY13	Army/Ohio EPA Review SIR Draft CLIN 5
2610 0005	Comment Res Mtg SIR Draft CLIN 5	2	10MAY13 13MAY13	Comment Res Mtg SIR Draft CLIN 5
2630 0005	Prep&Submit Final SIR To Army/Ohio EPA CLIN 5	20	14MAY13 02JUN13	Prep&Submit Final SIR To Army/Ohio EPA CLIN 5
2640 0005	Army/Ohio EPA Revw & Apprv Final SIR CLIN 5	45	03JUN13 17JUL13	Army/Ohio EPA Revw & Apprv Final SIR CLIN 5
2650 0005	Submit SI Report - Final - CLIN 5	0	17JUL13	Submit SI Report - Final - CLIN 5
Approved Site	e Inspection CLIN 5			
Approved Site	Inspection CLIN			
2700 0005	Approved Site Inspection CC-RVAAP-70 CLIN 5	0	17JUL13	Approved Site Inspection CC-RVAAP-70 CLIN 5
2710 0005	Approved Site Inspection CC-RVAAP-72 CLIN 5	0	17JUL13	Approved Site Inspection CC-RVAAP-72 CLIN 5
2720 0005	Approved Site Inspection CC-RVAAP-75 CLIN 5	0	17JUL13	◆Approved Site Inspection CC-RVAAP-75 CLIN 5
0700				
2730 0005	Approved Site Inspection CC-RVAAP-77 CLIN 5	0	17JUL13	Approved Site Inspection CC-RVAAP-77 CLIN 5
Subtotal 0005		355	19FEB12 17JUL13	
CLIN 0006 R	RI CC-RVAAP-79 (Main Ore Storage Yard)			
	9 (DLA Ore Storage Site-Main Ore Yard)			
Remedial Inves	stigation Work Plan			
2815 0006	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-79	30	19FEB12 19MAR12	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-79

Activity	CLIN	Activity	Cal	Early	Early	J	2011 2012 2013 2014 A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N
ID 2020	0006		Days	Start	Finish	-1	$\frac{1}{1} \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11 \ 12 \ 13 \ 14 \ 15 \ 16 \ 17 \ 18 \ 19 \ 20 \ 21 \ 22 \ 23 \ 24 \ 25 \ 26 \ 27 \ 28 \ 29 \ 30 \ 31 \ 32 \ 33 \ 34 \ 35 \ 36 \ 37 \ 38 \ 39 \ 40 \ 38 \ 39 \ 40 \ 38 \ 38 \ 38 \ 38 \ 38 \ 38 \ 38 \ 3$
2820	0006	Submit Pre-Draft RIWP To Army CC-RVAAP-79	0	20144.0.12	19MAR12		Submit Pre-Draft RIWP To Army CC-RVAAP-79
2825	0006	Army Review Pre-Draft RIWP CC-RVAAP-79	30	30MAR12	28APR12		Army Review Pre-Draft RIWP CC-RVAAP-79
2830	0006	Attend Comment Resolution Meeting RIWP RVAAP-79	1	30APR12	30APR12		Attend Comment Resolution Meeting RIWP RVAAP-79
2835	0006	Rev&Submit Draft RIWP To Army/Ohio EPA RVAAP-79	20		20MAY12		Rev&Submit Draft RIWP To Army/Ohio EPA RVAAP-79
2840	0006	Army/Ohio EPA Review Draft RIWP CC-RVAAP-79	45	21MAY12			Army/Ohio EPA Review Draft RIWP CC-RVAAP-79
2845	0006	Attend Comment Resolution Mtg Drft RIWP RVAAP-79	2	05JUL12	06JUL12		Attend Comment Resolution Mtg Drft RIWP RVAAP-79
2850	0006	Prep & Submit Final RIWP To Army/EPA CC-RVAAP-79	20	07JUL12	26JUL12		Prep & Submit Final RIWP To Army/EPA CC-RVAAP-79
2855	0006	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-79	45	27JUL12	09SEP12		Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-79
2860		Submit RI Work Plan - Final CC-RVAAP-79	0		09SEP12		Submit RI Work Plan - Final CC-RVAAP-79
2950	vestigati 0006	Request For Site Access CC-RVAAP-79	14	01APR13*	14APR13	i	
2950	0006	Mobilize To Site CC-RVAAP-79	2	15APR13	14APR13 16APR13		Request For Site Access CC-RVAAP-79 Mobilize To Site CC-RVAAP-79
2900	0006		30	17APR13	16MAY13	-	
2970	0006	Conduct Field/Conf. Sampling/Remvl Action - 79 Demobilize Off-Site CC-RVAAP-79		17APK13 17MAY13	20MAY13		Conduct Field/Conf. Sampling/Remvl Action Demobilize Off-Site CC-RVAAP-79
	0006		2				
2975		Conduct Lab Analysis CC-RVAAP-79	30	17MAY13			Conduct Lab Analysis CC-RVAAP-79
3000	0006	Data Review Meeting CC-RVAAP-79	2	17JUN13	18JUN13		Data Review Meeting CC-RVAAP-79
	1	ppletion Report	20	10111112	0011112		
3010	0006	Prep/Submit Field Work Compl Report CC-RVAAP-79	20	19JUN13	08JUL13		Prep/Submit Field Work Compl Report
3020	0006	Submit Field Work Compl Report CC-RVAAP-79	0		08JUL13	1	Submit Field Work Compl Report CC-
		tigation Report	40	0011112	1741/012		
3050	0006	Develop RIR - Pre-Draft CC-RVAAP-79	40	09JUL13	17AUG13	_	Develop RIR - Pre-Draft CC-RVAAP
3055	0006	Submit Pre-Draft RIR To Army CC-RVAAP-79	0	10 411012	17AUG13		Submit Pre-Draft RIR To Army CC
3060	0006	Army Revw RIR - Pre-Draft CC-RVAAP-79	30	18AUG13	16SEP13		Army Revw RIR - Pre-Draft CC-R
3080	0006	Revise & Submit RIR - Draft CC-RVAAP-79	20	17SEP13	06OCT13	_	Revise & Submit RIR - Draft CC
3110	0006	Army/Ohio EPA Revw RIR Draft CC-RVAAP-79	45	070CT13	20NOV13	-	
3120	0006	Comment Res Mtg Draft RIR CC-RVAAP-79	2	21NOV13			Comment Res Mtg Draft RIR
3150	0006	Revise & Submit RIR Final CC-RVAAP-79	20	23NOV13	12DEC13		Revise & Submit RIR Final
3160	0006	Army/Ohio EPA Revw & Apprv RIR Final CC-RVAAP-79	45	13DEC13	26JAN14		Army/Ohio EPA Revw &
3170	0006	Submit RIR Final - CC-RVAAP-79	0		26JAN14	1	Submit RIR Final - CC
	al Invest 0006	Approved RI Main Ore Storage Yd CC-RVAAP-79	0		26JAN14		Approved RI Main Ore
Subtotal	0006		485	19FEB12	26JAN14		
-		easibility Study CC-RVAAP-76	105	1)1 2012	20011111		
		· · ·					
		6 (Depot Area)					
		y Work Plan					
3260	0007	Prep & Submit Pre-Draft FSWP To Army CC-RVAAP-76	30	19FEB12	19MAR12	_	Prep & Submit Pre-Draft FSWP To Army CC-RVAAP-76
3270	0007	Submit Pre-Draft FSWP To Army CC-RVAAP-76	0	20144.012	19MAR12	- 1	Submit Pre-Draft FSWP To Army CC-RVAAP-76
3280	0007	Army Review Pre-Draft FSWP CC-RVAAP-76	30	30MAR12		- 1	Army Review Pre-Draft FSWP CC-RVAAP-76
3290	0007	Attend Comment Resolution Meeting FSWP RVAAP-76	1	30APR12	30APR12		Attend Comment Resolution Meeting FSWP RVAAP-76
3300	0007	Prep&Submit Draft FSWP To Army/Ohio EPA RVAAP-76	20		20MAY12		Prep&Submit Draft FSWP To Army/Ohio EPA RVAAP-76
3310	0007	Army/Ohio EPA Review Draft FSWP CC-RVAAP-76	45	21MAY12			Army/Ohio EPA Review Draft FSWP CC-RVAAP-76
3320	0007	Attend Comment Resolution Mtg Drft FSWP RVAAP-76	3	05JUL12	09JUL12		Attend Comment Resolution Mtg Drft FSWP RVAAP-76
3330	0007	Prep & Submit Final FSWP To Army/EPA CC-RVAAP-76	20	10JUL12	29JUL12		Prep & Submit Final FSWP To Army/EPA CC-RVAAP-76
3340 Field W	0007 ork	Army /Ohio EPA Revw & Approve Fnl FSWP RVAAP-76	45	30JUL12	12SEP12		Army /Ohio EPA Revw & Approve Fnl FSWP RVAAP-76
3370	0007	Request For Site Access CC-RVAAP-76	14	01APR13*	14APR13		Request For Site Access CC-RVAAP-76
3380	0007	Mobilize To Site CC-RVAAP-76	2	15APR13	16APR13		Mobilize To Site CC-RVAAP-76
3390	0007	Conduct Field Work - RVAAP-76	20	17APR13	06MAY13		Conduct Field Work - RVAAP-76
3400	0007	Demobilize Off-Site CC-RVAAP-76	20	07MAY13		_	Demobilize Off-Site CC-RVAAP-76
3410	0007	Conduct Lab Analysis CC-RVAAP-76	30	07MAT13			Conduct Lab Analysis CC-RVAAP-76
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	0008	Mobilize To Site CC-RVAAP-79RS CLIN 8	1	09JUN14	09JUN14				Mobilize To S
	0008	Conduct Field Sampling CC-RVAAP-79RS CLIN 8	10	10JUN14	23JUN14				Conduct Fie
	0008	Demobilize Off-Site CC-RVAAP-79RS CLIN 8	2	24JUN14	25JUN14				Demobilize (
	0008	Conduct Lab Analysis CC-RVAAP-79 CLIN 8	30	24JUN14	23JUL14	1			Conduct I
	0008	Data Review Meeting CC-RVAAP-79 CLIN 8	2	24JUL14	25JUL14				Data Revi
Field W	ork Co	mpletion Report CLIN 8							
		pletion Report							
	0008	Prep/Submit Field Work Compl Report CLIN 8	20	26JUL14	14AUG14				Prep/Sul
	0008	Submit Field Work Compl Report CLIN 8	0		14AUG14	- i			Submit
Remed	al Inve	estigation Report CLIN 8			1				
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	0008	Dev RIR Pre-Draft CLIN 8	8	15AUG14	22AUG14				Dev RII
	0008	Submit Pre-Draft RI Report CLIN 8	0		22AUG14				Submi
4360	0008	Army Revw RIR Pre-Draft CLIN 8	30	23AUG14	21SEP14				Army
4370	0008	Comment Res Mtg Pre-Draft RI Rpt CLIN 8	2	22SEP14	23SEP14				Com
4380	0008	Revise & Submit RIR Draft CLIN 8	30	24SEP14	230CT14				Re
4410	0008	Army/Ohio EPA Revw RIR Draft CLIN 8	45	240CT14	07DEC14				
4420	0008	Comment Res Mtg RIR CLIN 8	2	08DEC14	09DEC14				
4450	0008	Revise & Submit RIR Final CLIN 8	40	10DEC14	18JAN15				
4460	0008	Army/Ohio EPA Revw & Apprv RIR Fnl CLIN8	45	19JAN15	04MAR15	l i			
4470	0008	Submit RI Report - Final - CLIN 8	0		04MAR15				
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69-8500	0008	Apprvd Remedial Investigation CC-RVAAP-69 CLIN 8	0		04MAR15				
73-8500	0008	Apprvd Remedial Investigation CC-RVAAP-73 CLIN 8	0		04MAR15	- 1			
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74-8500	0008	Apprvd Remedial Investigation CC-RVAAP-74 CLIN 8	0		04MAR15	1			
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Activity ID	CLIN	Activity Description	Cal Days	Early Start	Early Finish	2011 2012 2013 2014 J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N 0 J F M A M J J A S O N 0 J F M A M J J A S O N -1 1 2 3 4 5 6 7 8 9 10111213141516171819202122232425262728293031323334353637383940
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	•	pt)Remedial Investigation CC-RVAAP-70				
		(East Classification Yard)				
	1	igation Work Plan				
5100	0009	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-70	30	30SEP13	290CT13	
5105	0009	Submit Pre-Draft RIWP To Army CC-RVAAP-70	0		290CT13	—
5110	0009	Army Review Pre-Draft RIWP CC-RVAAP-70	30	09NOV13	-	I _ I _ I _ I _ I _ I _ I _ I _ I _ I _ I
5115	0009	Attend Comment Resolution Meeting RIWP RVAAP-70	2	09DEC13	10DEC13	
5120	0009	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-70	20	11DEC13	30DEC13	
5125	0009	Army/Ohio EPA Review Draft RIWP CC-RVAAP-70	45	31DEC13	13FEB14	
5130	0009	Attend Comment Resolution Mtg Drft RIWP RVAAP-70	2	14FEB14	18FEB14	
5135	0009	Prep & Submit Final RIWP To Army/EPA CC-RVAAP-70	30	19FEB14	20MAR14	→
5140	0009	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-70	45	21MAR14	04MAY14	
	0009	Submit RI Work Plan - Final CC-RVAAP-70	0		04MAY14	4
	vestigati					
5250	0009	Mobilize To Site CC-RVAAP-70	1		30MAY14	<u></u>
5260	0009	Conduct Field Sampling CC-RVAAP-70	10	02JUN14	13JUN14	
5280	0009	Conduct Lab Analysis CC-RVAAP-70	30	14JUN14	13JUL14	— I I I I I I I I I I I I I I I I I I I
5270	0009	Demobilize Off-Site CC-RVAAP-70	2	16JUN14	17JUN14	
5290	0009	Data Review Meeting CC-RVAAP-70	2	14JUL14	15JUL14	Data Revie
Field W		pletion Report	ſ		1	
5300	0009	Prep/Submit Field Work Compl Report CC-RVAAP-70	20	16JUL14	04AUG14	1
5310	0009	Submit Field Work Compl Report CC-RVAAP-70	0		04AUG14	4
		igation Report		1	1	
5350	0009	Develop RI Report - Pre-Draft CC-RVAAP-70	40	05AUG14	13SEP14	
5355	0009	Submit Pre-Draft RIR CC-RVAAP-70	0		13SEP14	•
5360	0009	Army Revw RI Report - Pre-Draft CC-RVAAP-70	30	14SEP14	130CT14	<u> </u>
5370	0009	Comment Res Mtg RIR Pre-Draft CC-RVAAP-70	2	140CT14	150CT14	\mathbf{F}
5390	0009	Revise & Submit RI Report - Draft CC-RVAAP-70	20	160CT14	04NOV14	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
5400	0009	Army/Ohio EPA Review RIR Draft CC-RVAAP-70	45	05NOV14	19DEC14	
5410	0009	Comment Res Mtg RIR Draft CC-RVAAP-70	2	22DEC14	23DEC14	
5430	0009	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-70	30	24DEC14	22JAN15	
5440	0009	Army/Ohio EPA Revw & Apprv Final RIR CC-RVAAP-70	45	23JAN15	08MAR15	5 1 1 1 1 1 1 1 1 1 1
5450	0009	Submit RI Report - Final - CC-RVAAP-70	0		08MAR15	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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70-8500	0009	Approved Remedial Investigation CC-RVAAP-70	0		08MAR15	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Subtotal			358	30SEP13	08MAR15	; <u> </u>
CLIN 0	010(O	pt)Remedial Investigation CC-RVAAP-71				
CC-RV	AAP-71	(Barn No. 5 Petroleum Release)				
Remedi	al Invest	igation Work Plan				
	0010	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-71	30	300CT13	28NOV13	3 Prep & Submit Pre-Draft RIV
5510	0010	Submit Pre-Draft RIWP To Army CC-RVAAP-71	0		28NOV13	3 Submit Pre-Draft RIWP To
5515	0010	Army Review Pre-Draft RIWP CC-RVAAP-71	30	09DEC13	07JAN14	
5520	0010	Attend Comment Resolution Meeting RIWP RVAAP-71	1	08JAN14	08JAN14	
5525	0010	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-71	20	09JAN14	28JAN14	
5530	0010	Army/Ohio EPA Review Draft RIWP CC-RVAAP-71	45	29JAN14	14MAR14	
5535	0010	Attend Comment Resolution Mtg Drft RIWP RVAAP-71	3	17MAR14	19MAR14	
5540	0010	Prep & Submit Final RIWP To Army/EPA CC-RVAAP-71	20	20MAR14	08APR14	→
5545	0010	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-71	45	09APR14	23MAY14	
5550	0010	Submit RI Work Plan Final CC-RVAAP-71	0		23MAY14	
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		Mobilize To Site CC-RVAAP-71	1	02JUN14	02JUN14	Mobilize To Si
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	0010	Conduct Field Sampling CC-RVAAP-71	Days 10	Start 03JUN14	16JUN14	-1	1 1 2 3 4 5 6 7 8 9 1011121314151617181920212232425262728293031323334353637383940								
							Conduct Field								
5700		Demobilize Off-Site CC-RVAAP-71	2 30	17JUN14	18JUN14										
5710	0010	Conduct Lab Analysis CC-RVAAP-71		17JUN14	16JUL14										
	0010	Data Review Meeting CC-RVAAP-71	2	17JUL14	18JUL14										
	0010	pletion Report Prep/Submit Field Work Compl Report CC-RVAAP-71	20	19JUL14	07AUG14										
			20	19JUL14			Prep/Sub								
	0010	Submit Field Work Compl Report CC-RVAAP-71	0		07AUG14										
5800	0010	igation Report Develop RI Report - Pre-Draft CC-RVAAP-71	40	08AUG14	16SEP14										
5805	0010		0	08AU014	16SEP14 16SEP14										
	0010	Submit Pre-Draft RIR CC-RVAAP-71	-	17SEP14		- i									
5810		Army Revw RI Report - Pre-Draft CC-RVAAP-71	30		160CT14										
5820	0010	Comment Res Mtg RIR Pre-Draft CC-RVAAP-71	2 20	170CT14	200CT14										
5840	0010	Revise & Submit RI Report - Draft CC-RVAAP-71		210CT14	09NOV14	l i									
5850	0010	Army/Ohio EPA Review RIR Draft CC-RVAAP-71	45	10NOV14 26DEC14			1 1								
5860	0010	Comment Res Mtg RIR Draft CC-RVAAP-71	2		29DEC14										
5880	0010	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-71	20	30DEC14	18JAN15	- i									
5890	0010	Army/Ohio EPA Revw & Apprv Final RIR CC-RVAAP-71	45	19JAN15	04MAR15										
	0010	Submit RI Report - Final - CC-RVAAP-71	0		04MAR15										
	al Invest		0		04144.015										
5920	0010	Approved Remedial Investigation CC-RVAAP-71	0		04MAR15										
Subtotal	0010		335	300CT13	04MAR15										
	1	pt)Remedial Investigation CC-RVAAP-72	000	10000110	0 1011 11(10										
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		(Facility-Wide UG Storage Tanks)													
		igation Work Plan													
	0011	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-72	30	29NOV13	28DEC13		Prep & Submit Pre-Draft R								
6010	0011	Submit Pre-Draft RIWP To Army CC-RVAAP-72	0		28DEC13		Submit Pre-Draft RIWP T								
6015	0011	Army Review Pre-Draft RIWP CC-RVAAP-72	30	08JAN14	06FEB14		Army Review Pre-Draft								
6020	0011	Attend Comment Resolution Meeting RIWP RVAAP-72	1	07FEB14	07FEB14		Attend Comment Resolu								
	0011	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-72	20	08FEB14	27FEB14	l i	Prep&Submit Draft R								
	0011	Army/Ohio EPA Review Draft RIWP CC-RVAAP-72	45	28FEB14			Army/Ohio EPA R								
	0011	Attend Comment Resolution Mtg Drft RIWP RVAAP-72	3	14APR14	16APR14		Attend Comment 1								
6040	0011	Prep & Submit Final RIWP To Army/EPA CC-RVAAP-72	20	17APR14			Prep & Submit F								
	0011	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-72	45	07MAY14	20JUN14		Army /Ohio]								
	0011	Submit RI Work Plan Final CC-RVAAP-72	0		20JUN14										
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	0011	Mobilize To Site CC-RVAAP-72	1	23JUN14	23JUN14		Mobilize To								
	0011	Conduct Field Sampling CC-RVAAP-72	10	24JUN14	08JUL14										
	0011	Demobilize Off-Site CC-RVAAP-72	2	09JUL14	10JUL14		Demobilize								
	0011	Conduct Lab Analysis CC-RVAAP-72	30	09JUL14	07AUG14		Conduct								
	0011	Data Review Meeting CC-RVAAP-72	2	08AUG14	11AUG14										
		pletion Report	20	10.41/01.4	21 4 1/01 4										
	0011	Prep/Submit Field Work Compl Report CC-RVAAP-72	20	12AUG14	31AUG14		Prep/Si								
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	0011	Submit Pre-Draft RIR To Army CC-RVAAP-72	0	1100714	100CT14										
6260	0011	Army Revw RI Report - Pre-Draft CC-RVAAP-72	30	110CT14	09NOV14										
6270		Comment Res Mtg RIR Pre-Draft CC-RVAAP-72	2	10NOV14											
6290	0011	Revise & Submit RI Report - Draft CC-RVAAP-72	20		02DEC14	l i									
6300	0011	Army/Ohio EPA Review RIR Draft CC-RVAAP-72	45	03DEC14	16JAN15										
6310	0011	Comment Res Mtg RIR Draft CC-RVAAP-72	2	20JAN15	21JAN15										
6330	0011	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-72	20	22JAN15	10FEB15	i									

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Activity	CLIN	Activity	Cal	Early	Early	2011 2012 J A S O N D J F M A M J J A S O N D J F M A	2013 2014 A M J J A S O N D J F M A M J J A S O N
ID	0011	Description	Days	Start	Finish	-1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 2	12223242526272829303132333435363738394
6340	0011	Army/Ohio EPA Revw & Apprv Final RIR RVAAP-72	45	11FEB15	27MAR15		
6350	0011	Submit RI Report - Final - CC-RVAAP-72	0		27MAR15		
6360	ial Invest 0011	Approved Remedial Investigation CC-RVAAP-72	0		27MAR15		
0300	0011	Approved Remedial Investigation CC-RVAAI -72	0				1 1
Subtotal	0011		332	29NOV13	27MAR15		
	012(0	pt)Remedial Investigation CC-RVAAP-75					
	•	George Rd Sewage Treatment Plant)					
		tigation Work Plan					
6455	0012	Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-75	30	29DEC13	27JAN14		Prep & Submit Pre-Draf
6460	0012	Submit Pre-Draft RIWP To Army CC-RVAAP-75	0		27JAN14		Submit Pre-Draft RIW
6465	0012	Army Review Pre-Draft RIWP CC-RVAAP-75	30	07FEB14	08MAR14		Army Review Pre-Dr
6470	0012	Attend Comment Resolution Meeting RIWP RVAAP-75	1	10MAR14	10MAR14	- i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i	Attend Comment Re
6475	0012	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-75	20	11MAR14	30MAR14		Prep&Submit Draf
6480	0012	Army/Ohio EPA Review Draft RIWP CC-RVAAP-75	45	31MAR14	14MAY14		
6485	0012	Attend Comment Resolution Mtg Drft RIWP RVAAP-75	3	15MAY14	19MAY14		Attend Comme
6490	0012	Prep & Submit Final RIWP To Army/EPA CC-RVAAP-75	20	20MAY14	08JUN14		Prep & Subm
6495	0012	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-75	45	09JUN14	23JUL14		Army /Ol
6500	0012	Submit RI Work Plan - Final CC-RVAAP-75	0		23JUL14		Submit]
	vestigati						
6600	0012	Mobilize To Site CC-RVAAP-75	1	24JUL14	24JUL14		Mobilize
6610	0012	Conduct Field Sampling CC-RVAAP-75	10	25JUL14	07AUG14		Conduct
6620	0012	Demobilize Off-Site CC-RVAAP-75	2	08AUG14			Demobil
6630	0012	Conduct Lab Analysis CC-RVAAP-75	30	08AUG14	06SEP14		Condu
6640	0012	Data Review Meeting CC-RVAAP-75	2	08SEP14	09SEP14		Data D
6650	0012	pletion Report Prep/Submit Field Work Compl Report CC-RVAAP-75	20	10SEP14	29SEP14		Prej
6660	0012	Submit Field Work Compl Report CC-RVAAP-75	0	105L114	29SEP14		
		tigation Report	0		2)5111		
6700	0012	Develop RI Report - Pre-Draft CC-RVAAP-75	40	30SEP14	08NOV14		
6705	0012	Submit Pre-Draft RIR To Army CC-RVAAP-75	0		08NOV14	- i i i i i i i i i i i i i i i i i i i	
6710	0012	Army Revw RI Report - Pre-Draft CC-RVAAP-75	30	09NOV14	08DEC14		
6720	0012	Comment Res Mtg RIR Pre-Draft CC-RVAAP-75	2	09DEC14	10DEC14		
6740	0012	Revise & Submit RI Report - Draft CC-RVAAP-75	20	11DEC14	30DEC14		
6750	0012	Army/Ohio EPA Review RIR Draft CC-RVAAP-75	45	31DEC14	13FEB15		
6760	0012	Comment Res Mtg RIR Draft CC-RVAAP-75	2	17FEB15	18FEB15		
6780	0012	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-75	20	19FEB15	10MAR15		
6790	0012	Army/Ohio EPA Revw & Apprv Final RIR RVAAP-75	45	11MAR15			
6800	0012	Submit RI Report - Final - CC-RVAAP-75	0		24APR15		
	al Invest	ř			244 DD 15		
6850	0012	Approved Remedial Investigation CC-RVAAP-75	0		24APR15		
Subtotal	0012		332	29DEC13	24APR15		
1	1	pt)Remedial Investigation CC-RVAAP-77	1	1 - /	1		
		' (Bldg 1037-Laundry Waste Wtr Sump)					
6905	0013	tigation Work Plan Prep & Submit Pre-Draft RIWP To Army CC-RVAAP-77	30	28JAN14	26FEB14		Prep & Submit Pre-D
6910	0013	Submit Pre-Draft RIWP To Army CC-RVAAP-77	0	205/1114	26FEB14 26FEB14		Submit Pre-Draft RI
6915	0013	Army Review Pre-Draft RIWP CC-RVAAP-77	30	09MAR14			Army Review Pre-
6920	0013	Attend Comment Resolution Meeting CC-RVAAP-77	1	08APR14	07/11 R14		Attend Comment 1
6925	0013	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-77	20	09APR14	28APR14		Prep&Submit D
6930	0013	Army/Ohio EPA Review Draft RIWP CC-RVAAP-77	45	29APR14	12JUN14		
6935	0013	Attend Comment Resolution Mtg Drft RIWP RVAAP-77	3	13JUN14	17JUN14		Attend Com
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ID 6940	0013	Description Prep & Submit Final RIWP To Army/EPA CC-RVAAP-77	Days 20	Start 18JUN14	07JUL14	-1 1	234	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 2	32425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970
6940	0013	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-77	45	08JUL14	21AUG14	-			Prep & Submit Final RIWP To Army/EPA CC-RVAAP-77
6950	0013	Submit RI Work Plan - Final CC-RVAAP-77	0		21AUG14 21AUG14	-			Submit RI Work Plan - Final CC-RVAAP-77
	vestigat			l 					
7050	0013	Mobilize To Site CC-RVAAP-77	1	22AUG14	22AUG14	┦ ╎┃			Mobilize To Site CC-RVAAP-77
7060	0013	Conduct Field Sampling CC-RVAAP-77	10	25AUG14		1			Conduct Field Sampling CC-RVAAP-77
7070	0013	Demobilize Off-Site CC-RVAAP-77	2	09SEP14	10SEP14				Demobilize Off-Site CC-RVAAP-77
7080	0013	Conduct Lab Analysis CC-RVAAP-77	30	09SEP14	080CT14				Conduct Lab Analysis CC-RVAAP-77
7090	0013	Data Review Meeting CC-RVAAP-77	2	090CT14	100CT14			I I	Data Review Meeting CC-RVAAP-77
Field V	/ork Con	npletion Report		·	-				
7100	0013	Prep/Submit Field Work Compl Report CC-RVAAP-77	20	110CT14	300CT14			I I	Prep/Submit Field Work Compl Report CC-RVAAP-77
7110	0013	Submit Field Work Compl Report CC-RVAAP-77	0		300CT14				Submit Field Work Compl Report CC-RVAAP-77
Remed	ial Inves	tigation Report		1					
7150	0013	Develop RI Report - Pre-Draft CC-RVAAP-77	40	310CT14	09DEC14				Develop RI Report - Pre-Draft CC-RVAAP-77
7155	0013	Submit Pre-Draft RIR To Army CC-RVAAP-77	0		09DEC14				Submit Pre-Draft RIR To Army CC-RVAAP-77
7160	0013	Army Revw RI Report - Pre-Draft CC-RVAAP-77	30	10DEC14	08JAN15				Army Revw RI Report - Pre-Draft CC-RVAAP-77
7170	0013	Comment Res Mtg RIR Pre-Draft CC-RVAAP-77	2	09JAN15				1 1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>	Comment Res Mtg RIR Pre-Draft CC-RVAAP-77
7190	0013	Revise & Submit RI Report - Draft CC-RVAAP-77	20	13JAN15	01FEB15				Revise & Submit RI Report - Draft CC-RVAAP-77
7200	0013	Army/Ohio EPA Review RIR Draft CC-RVAAP-77	45	02FEB15	18MAR15				Army/Ohio EPA Review RIR Draft CC-RVAAP-77
7210	0013	Comment Res Mtg RIR Draft CC-RVAAP-77	2	19MAR15	20MAR15				Comment Res Mtg RIR Draft CC-RVAAP-77
7230	0013	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-77	20		09APR15	-			Prep&Submit Final RIR To Army/Ohio EPA RVAAP-77
7240	0013	Army/Ohio EPA Revw & Apprv Final RIR RVAAP-77	45	10APR15		-			Army/Ohio EPA Revw & Apprv Final RIR RVAAP-77
7250	0013	Submit RI Report - Final - CC-RVAAP-77	0		24MAY15				Submit RI Report - Final - CC-RVAAP-77
	ial Inves		0		24MAX15				
7270	0013	Approved Remedial Investigation CC-RVAAP-77	0		24MAY15	i i		I I	◆01AUG15
Subtotal	0013		333	28JAN14	24MAY15				
)014(O	pt)Remedial Investigation CC-RVAAP-80							
) (Group 2 Propellant Can Tops)						1 1	
		tigation Work Plan							
7305	0014	Prep & Submit Pre-Draft RIWP To Army RVAAP-80	30	27FEB14	28MAR14	┦ ╎┃			Prep & Submit Pre-Draft RIWP To Army RVAAP-80
7310	0014	Submit Pre-Draft RIWP To Army RVAAP-80	0		28MAR14	-			Submit Pre-Draft RIWP To Army RVAAP-80
7315	0014	Army Review Pre-Draft RIWP RVAAP-80	30	08APR14		┨ ╎┃			Army Review Pre-Draft RIWP RVAAP-80
7320	0014	Attend Comment Resolution Meeting RIWP RVAAP-80	1		08MAY14	1			Attend Comment Resolution Meeting RIWP RVAAP-80
7325	0014	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-80	20		28MAY14	1			Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-80
7330	0014	Army/Ohio EPA Review Draft RIWP RVAAP-80	45	29MAY14	12JUL14				Army/Ohio EPA Review Draft RIWP RVAAP-80
7335	0014	Attend Comment Resolution Mtg Drft RIWP RVAAP-80	3	14JUL14	16JUL14	1			Attend Comment Resolution Mtg Drft RIWP RVAAP-80
7340	0014	Prep & Submit Final RIWP To Army/EPA RVAAP-80	20	17JUL14	05AUG14				Prep & Submit Final RIWP To Army/EPA RVAAP-80
7345	0014	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-80	45	06AUG14	19SEP14			I I	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-80
7350	0014	Submit RI Work Plan - Final RVAAP-80	0		19SEP14				Submit RI Work Plan - Final RVAAP-80
	ivestigat					▋┊┃			
7450	0014	Mobilize To Site CC-RVAAP-80	1	22SEP14	22SEP14				Mobilize To Site CC-RVAAP-80
7460	0014	Conduct Field Sampling CC-RVAAP-80	10	23SEP14					Conduct Field Sampling CC-RVAAP-80
7470	0014	Demobilize Off-Site CC-RVAAP-80	2	070CT14					Demobilize Off-Site CC-RVAAP-80
7480	0014	Conduct Lab Analysis CC-RVAAP-80	30	070CT14					Conduct Lab Analysis CC-RVAAP-80
7490	0014	Data Review Meeting CC-RVAAP-80	2	06NOV14	07NOV14				Data Review Meeting CC-RVAAP-80
	1	pletion Report		00010111	07210111			1 1	
7500	0014	Prep/Submit Field Work Compl Report CC-RVAAP-80	20	08NOV14	27NOV14	-			Prep/Submit Field Work Compl Report CC-RVAAP-80
	0014	Submit Field Work Compl Report CC-RVAAP-80	0		27NOV14				Submit Field Work Compl Report CC-RVAAP-80
	1	tigation Report	40	20101/14	OCIANIIE				
7540	0014	Develop RI Report - Pre-Draft CC-RVAAP-80	40	28NOV14		┥╎			Develop RI Report - Pre-Draft CC-RVAAP-80
7545	0014 0014	Submit Pre-Draft RIR To Army CC-RVAAP-80 Army Revw RI Report - Pre-Draft CC-RVAAP-80	0 30	07JAN15	06JAN15 05FEB15	-			Submit Pre-Draft RIR To Army CC-RVAAP-80
1550	0014		- 50	UIJAINIJ	UJI EDIJ		1 1		AI III Y NEVW NI NEPOTI - FTE-DTall CC-KVAAF-80

Activity ID	CLIN	Activity Description	Cal Days	Early Start	Early Finish	2011 2012 2013 2014 J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N 2014 -1 1 2 3 4 5 6 7 8 9 10111213141516171819202122232425262728293031323334353637383940
	0014	Comment Res Mtg RIR Pre-Draft CC-RVAAP-80	2	06FEB15	09FEB15	
		Revise & Submit RI Report - Draft CC-RVAAP-80	20	10FEB15	01MAR15	
	0014	Army/Ohio EPA Review RIR Draft CC-RVAAP-80	45	02MAR15	15APR15	
		Comment Res Mtg RIR Draft CC-RVAAP-80	2	16APR15	17APR15	- I I I I I I I I I I I I I I I I I I I
	0014	Prep&Submit Final RIR To Army/Ohio EPA RVAAP-80	20	18APR15	07MAY15	
		Army/Ohio EPA Revw & Apprv Final RIR RVAAP-80	45	08MAY15	21JUN15	
		Submit RI Report - Final - CC-RVAAP-80	0		21JUN15	
	al Invest				21001(15	
	0014	Approved Remedial Investigation CC-RVAAP-80	0		21JUN15	
Subtotal	0014		331	27FEB14	21JUN15	
		pt)Remedial Investigation CC-RVAAP-83	001	2/12011	21001110	
		(Former Bldgs 1031 & 1039)				
	0015	igation Work Plan Prep & Submit Pre-Draft RIWP To Army RVAAP-83	30	29MAR14	27APR14	Prep & Submit Pr
			0	29WIAK14	27APR14 27APR14	Submit Pre-Draft
		Submit Pre-Draft RIWP To Army RVAAP-83 Army Review Pre-Draft RIWP RVAAP-83	30	08MAY14	06JUN14	4 1 <mark>8</mark> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			30			
		Attend Comment Resolution Meeting RIWP RVAAP-83	1	09JUN14	09JUN14	
	0015	Prep&Submit Draft RIWP To Army/Ohio EPA RVAAP-83	10	10JUN14	19JUN14	Prep&Submit
		Army/Ohio EPA Review Draft RIWP RVAAP-83	45	20JUN14	03AUG14	
	0015	Attend Comment Resolution Mtg Drft RIWP RVAAP-83	3	04AUG14	06AUG14	Attend Co
		Prep & Submit Final RIWP To Army/EPA RVAAP-83	20	07AUG14	26AUG14	Prep &
	0015	Army /Ohio EPA Revw & Approve Fnl RIWP RVAAP-93	45	27AUG14	100CT14	
		Submit RI Work Plan - Final RVAAP-83	0		100CT14	
	/estigati		1	140.07714	14007714	
		Mobilize To Site CC-RVAAP-83	1	140CT14	140CT14	Mot
	0015	Conduct Field Sampling CC-RVAAP-83	10	150CT14	280CT14	
		Demobilize Off-Site CC-RVAAP-83	2	290CT14	300CT14	
		Conduct Lab Analysis CC-RVAAP-83	30	290CT14	27NOV14	
	-	Data Review Meeting CC-RVAAP-83	2	28NOV14	01DEC14	
		pletion Report	20	00000014	01DEC14	
		Prep/Submit Field Work Compl Report CC-RVAAP-83	20	02DEC14		
		Submit Field Work Compl Report CC-RVAAP-83	0		21DEC14	
		igation Report	40	22DEC14	2014 115	
	0015	Develop RI Report - Pre-Draft CC-RVAAP-83	40	22DEC14	30JAN15	
		Submit Pre-Draft RIR To Army CC-RVAAP-83	0	21142115	30JAN15	1 1
	0015	Army Revw Pre-Draft RI Report CC-RVAAP-83	30	31JAN15	01MAR15	
		Comment Res Mtg Pre-Draft RIR CC-RVAAP-83	2	02MAR15		
	0015	Revise & Submit Draft RI Report CC-RVAAP-83	20	04MAR15		
	0015	Army/Ohio EPA Review Draft RI Report CC-RVAAP-83	45	24MAR15		
	0015	Comment Res Mtg Draft RI Report CC-RVAAP-83	2	08MAY15		
		Prep&Submit Final RIR To Army/Ohio EPA RVAAP-83	20		31MAY15	
	0015	Army/Ohio EPA Revw & Apprv Final RIR RVAAP-83	45	01JUN15	15JUL15	
		Submit Final RI Report CC-RVAAP-83	0		15JUL15	
	al Invest		0		151111 15	
7895	0015	Approved Remedial Investigation CC-RVAAP-83	0		15JUL15	
Subtotal	0015		326	29MAR14	15JUL15	
		TC RA Load Lines 1,2,3,4,13 - 73&79				
		on/Cost Analysis (EE/CA) CLIN 16				
		Iluation/Cost Analysis (EE/CA)	40	OCEED 10*	1014012	
		Prep & Submit PreDraft EE/CA To Army RVAAP-73&79	40	06FEB12*		Prep & Submit PreDraft EE/CA To Army RVAAP-73&79
7910	0016	Submit Pre-Draft EE/CA To Army CC-RVAAP-73&79	0		16MAR12	Submit Pre-Draft EE/CA To Army CC-RVAAP-73&79

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Comment Res Mtg R	RIR Pre-Draft CC-RVAAP-80
Revise & Submit R	I Report - Draft CC-RVAAP-80
	A Review RIR Draft CC-RVAAP-80
Comment Res	Mtg RIR Draft CC-RVAAP-80
Prep&Submit	t Final RIR To Army/Ohio EPA RVAAP-80
	io EPA Revw & Apprv Final RIR RVAAP-80
Submit I	RI Report - Final - CC-RVAAP-80
	ed Remedial Investigation CC-RVAAP-80
♦01AUG	
Pre-Draft RIWP To Army R `	
raft RIWP To Army RVAAP-	-83
w Pre-Draft RIWP RVAAP-8	
ment Resolution Meeting RIV	WP RVAAP-83
nit Draft RIWP To Army/Oh	nio EPA RVAAP+83
Dhio EPA Review Draft RIW	
Comment Resolution Mtg Dr	
& Submit Final RIWP To Ar	my/EPA RVAAP-83
rmy /Ohio EPA Revw & App	
Submit RI Work Plan - Final	KVAAP-83
Iobilize To Site CC-RVAAP-8	83
Conduct Field Sampling CC-	
Demobilize Off-Site CC-RVA	AP-83
Conduct Lab Analysis CC-	
Data Review Meeting CC-	KVAAP-83
Pren/Submit Field Work	Compl Report CC-RVAAP-83
Submit Field Work Cor	mpl Report CC-RVAAP-83
Develop RI Report - I	Pre-Draft CC-RVAAP-83
	IR To Army CC-RVAAP-83
Army Revw Pre-Di	raft RI Report CC-RVAAP-83
Comment Res Mtg	Pre-Draft RIR CC-RVAAP-83
_	
	Draft RI Report CC-RVAAP-83
Army/Ohio E	PA Review Draft RI Report CC-RVAAP-83
Comment Re	s Mtg Draft RI Report CC-RVAAP-83
	mit Final RIR To Army/Ohio EPA RVAAP-83
Army/C	Dhio EPA Revw & Appry Final RIR RVAAP-83
	it Final RI Report CC-RVAAP-83
Appro	wed Remedial Investigation CC-RVAAP-83
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Activit	y CLIN	Activity	Cal	Early	Early		$\begin{array}{c c c c c c c c c c c c c c c c c c c $
ID		Description	Days	Start	Finish	-1 1 2 3	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70
7915	0016	Army Review Pre-Draft EE/CA CC-RVAAP-73&79	30	27MAR12	25APR12		Army Review Pre-Draft EE/CA CC-RVAAP-73&79
7920	0016	Attend Comment Resolution MTG EE/CA RVAAP-73&79	1	26APR12	26APR12		Attend Comment Resolution MTG EE/CA RVAAP-73&79
7925	0016	Prep&Submit Draft EE/CA To Army/Ohio EPA -73&79	30	27APR12	26MAY12		Prep&Submit Draft EE/CA To Army/Ohio EPA -73&79
7930	0016	Army/Ohio EPA Review Draft EE/CA RVAAP-73&79	45	27MAY12			Army/Ohio EPA Review Draft EE/CA RVAAP-73&79
7935	0016	Attend Comment Resolution Mtg Drft EE/CA -73&79	3	11JUL12	13JUL12		Attend Comment Resolution Mtg Drft EE/CA -73&79
7940	0016	Prep & Submit Final EE/CA To Army/EPA -73&79	30	14JUL12	12AUG12		Prep & Submit Final EE/CA To Army/EPA +73&79
7945	0016	Army /Ohio EPA Revw & Approve Fnl EE/CA - 73&79	45	13AUG12	26SEP12		Army /Ohio EPA Revw & Approve Fnl EE/CA - 73&79
7950		Submit EE/CA - Final CC-RVAAP-73&79	0		26SEP12		Submit EE/CA - Final CC-RVAAP-73&79
Action	Memor	andum CLIN 16					
Action	Memoral	ndun		1			
7975	0016	Develop Pre-Draft Action Memo CC-RVAAP-73&79	30	17MAR12	15APR12		Develop Pre-Draft Action Memo CC-RVAAP-73&79
7980	0016	Submit Pre-Draft AM To Army CC-RVAAP-73&79	0		15APR12		Submit Pre-Draft AM To Army CC-RVAAP-73&79
7985	0016	Army Review Pre-Draft AM CC-RVAAP-73&79	30		25MAY12		Army Review Pre-Draft AM CC-RVAAP-73&79
7990	0016	Attend Comment Resolution Mtg Act Memo -73&79	1		29MAY12		Attend Comment Resolution Mtg Act Memo -73&79
7995	0016	Prep&Submit Draft AM To Army/Ohio EPA -73&79	10	30MAY12			Prep&Submit Draft AM To Army/Ohio EPA -73&79
8000	0016	Army/Ohio EPA Review Draft AM RVAAP-73&79	45	09JUN12	23JUL12		Army/Ohio EPA Review Draft AM RVAAP-73&79
8005	0016	Attend Comment Resolution Mtg Draft AM 73&79	3	24JUL12	26JUL12		Attend Comment Resolution Mtg Draft AM 73&79
8010	0016	Prep & Submit Final AM To Army/EPA RVAAP-73&79	15	27JUL12	16AUG12		Prep & Submit Final AM To Army/EPA RVAAP-73&79
8015	0016	Army /Ohio EPA Revw & Approve Fnl AM RVAAP-73&79	45	17AUG12	30SEP12		Army /Ohio EPA Revw & Approve Fnl AM RVAAP-73&79
8035	0016	Submit Action Memo Final Act Memo CC-RVAAP-73&79	0		30SEP12		Submit Action Memo Final Act Memo CC-RVAAP-73&79
Remed		n Work Plan		T	Γ		
8040	0016	Develop Pre-Draft RAWP CC-RVAAP-73&79	30	16APR12	15MAY12		Develop Pre-Draft RAWP CC-RVAAP+73&79
8045	0016	Submit Pre-Draft RAWP To Army CC-RVAAP-73&79	0		15MAY12		Submit Pre-Draft RAWP To Army CC-RVAAP-73&79
8050	0016	Army Review Pre-Draft RAWP CC-RVAAP-73&79	30	26MAY12			Army Review Pre-Draft RAWP CC-RVAAP-73&79
8055	0016	Attend Comment Resolution RAWP CC-RVAAP-73&79	1	25JUN12	25JUN12		Attend Comment Resolution RAWP CC-RVAAP-73&79
8060	0016	Prep&Submit Draft RAWP To Army/Ohio EPA -73&79	10	26JUN12	05JUL12		Prep&Submit Draft RAWP To Army/Ohio EPA -73&79
8065	0016	Army/Ohio EPA Review Draft RAWP RVAAP-73&79	45	06JUL12	19AUG12		Army/Ohio EPA Review Draft RAWP RVAAP-73&79
8070	0016	Attend Comment Resolution Mtg Draft RAWP 73&79	3	20AUG12	22AUG12		Attend Comment Resolution Mtg Draft RAWP 73&79
8075	0016	Prep & Submit Final RAWP To Army/EPA RVAAP-73&79	18	23AUG12	09SEP12		Prep & Submit Final RAWP To Army/EPA RVAAP-73&79
8080	0016	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP73&79	45	10SEP12	240CT12		Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP73&79
8085		Submit Final RAWP CC-RVAAP-73&79	0		240CT12		Submit Final RAWP CC-RVAAP-73&79
NTC F	emoval	Action CC-RVAAP-73					
Remo	al Action						
8095	0016	Request For Sites Access CC-RVAAP-73 & 79	14	10SEP12	23SEP12		Request For Sites Access CC-RVAAP-73 & 79
8105	0016	Mobilize To Site CC-RVAAP-73	1	250CT12	250CT12		Mobilize To Site CC-RVAAP-73
8115	0016	Removal Action CC-RVAAP-73	20	260CT12	14NOV12		Removal Action CC-RVAAP-73
8125	0016	Confirmation Sampling CC-RVAAP-73	20		04DEC12		Confirmation Sampling CC-RVAAP-73
8155	0016	Demobilization CC-RVAAP-73	2	05DEC12	06DEC12		Demobilization CC-RVAAP-73
8135	0016	Conduct Lab Analysis CC-RVAAP-73	22	05DEC12	07JAN13		Conduct Lab Analysis CC-RVAAP-73
8145	0016	Data Review Meeting CC-RVAAP-73	1	08JAN13	08JAN13		Data Review Meeting CC-RVAAP-73
NTC F	emoval	Action CC-RVAAP-79					
Remo	al Action						
8156	0016	Mobilize To Sites CC-RVAAP- 79	1	07DEC12	07DEC12		Mobilize To Sites CC-RVAAP- 79
8158	0016	Removal Action CC-RVAAP-79	20	08DEC12	27DEC12		Removal Action CC-RVAAP-79
8160	0016	Confirmation Sampling CC-RVAAP-79	20	28DEC12	16JAN13		Confirmation Sampling CC-RVAAP-79
8166	0016	Demobilization CC-RVAAP-79	2	17JAN13	18JAN13		Demobilization CC-RVAAP-79
8162	0016	Conduct Lab Analysis CC-RVAAP-79	30	17JAN13	15FEB13		Conduct Lab Analysis CC-RVAAP-79
8164	0016	Data Review Meeting CC-RVAAP-79	1	19FEB13	19FEB13		Data Review Meeting CC-RVAAP-79
Respo	nse Co	mplete Report CLIN 16					
		plete Report					
8165		Develop Pre-Draft RCR CC-RVAAP-73&79	30	20FEB13	21MAR13		Develop Pre-Draft RCR CC-RVAAP-73&79
8170	0016	Submit Pre-Draft RCR To Army CC-RVAAP-73&79	0		21MAR13		Submit Pre-Draft RCR To Army CC-RVAAP-73&79
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Activity ID	CLIN	Activity Description	Cal Days	Early Start	Early Finish	J	2011 A S O N D 1 2 3 4 5	2012 2013 2014 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N I J F M A M J J A S O N I 6 7 8 9 101112131415161718192021222324252627282930313233343536373839404
8175	0016	Army Review Pre-Draft RCR CC-RVAAP-73&79	30	01APR13	30APR13	-1	1 2 3 4 5	Army Review Pre-Draft RCR CC-RVAAP-73&7
8180	0016	Attend Comment Resolution RCR CC-RVAAP -73&79	1		01MAY13			Attend Comment Resolution RCR CC-RVAAP -7
8185	0016	Prep&Submit Draft RCR To Army/Ohio EPA -73&79	8		09MAY13			Prep&Submit Draft RCR To Army/Ohio EPA -7
8190	0016	Army/Ohio EPA Review Draft RCR RVAAP-73&79	45	10MAY13		1		Army/Ohio EPA Review Draft RCR RVAAP
8195	0016	Attend Comment Resolution Mtg Draft RCR 73&79	3	24JUN13	26JUN13			Attend Comment Resolution Mtg Draft RCR
8200	0016	Prep & Submit Final RCR To Army/EPA RVAAP-73&79	20	27JUN13	16JUL13	- i		Prep & Submit Final RCR To Army/EPA I
8205	0016	Army /Ohio EPA Revw & Apprve Fnl RCR RVAAP73&79	45	17JUL13	30AUG13			Army /Ohio EPA Revw & Apprve Fnl I
8210	0016	Submit Final RCR CC-RVAAP-73&79	0		30AUG13			Submit Final RCR CC-RVAAP-73&7
Non-Ti	me Crit	ical Removal Action CLIN 16						
		al Removal Action						
73-8400		NTCRA Load Lines 1,2,3,4,12 For 73 & 79 CLIN1(0		30AUG13	- i		NTCRA Load Lines 1,2,3,4,12 For 73
		· · · · · · · · · · · · · · · · · · ·						♦30AUG13
Subtotal	0016		397	06FEB12	30AUG13			
CLIN (017 N	TC RA DLA Ore Storage Site - 79						
		(DLA Ore Storage Site-Main Ore Yard)						
		aluation/Cost Analysis (EE/CA)				i i		
8255	0017	Prep & Submit PreDraft EE/CA To Army CC-RVAAP-79	25	06FEB12*	01MAR12			Prep & Submit PreDraft EE/CA To Army CC-RVAAP-79
8260	0017	Submit Pre-Draft EE/CA To Army CC-RVAAP-79	0	001 LD12	01MAR12	- 1		Submit Pre-Draft EE/CA To Army CC-RVAAP-79
8265	0017	Army Review Pre-Draft EE/CA CC-RVAAP-79	30	12MAR12		- i		Army Review Pre-Draft EE/CA CC-RVAAP-79
8270	0017	Attend Comment Resolution MTG EE/CA CC-RVAAP-79	1	11APR12	11APR12			Attend Comment Resolution MTG EE/CA CC-RVAAP-79
8275	0017	Prep&Submit Draft EE/CA To Army/Ohio EPA -79	16	12APR12	27APR12			Prep&Submit Draft EE/CA To Army/Ohio EPA -79
8280	0017	Army/Ohio EPA Review Draft EE/CA CC-RVAAP-79	45	28APR12	11JUN12	i		Army/Ohio EPA Review Draft EE/CA CC-RVAAP-79
8285	0017	Attend Comment Resolution Mtg Drft EE/CA -79	3	12JUN12	14JUN12	- !		Attend Comment Resolution Mtg Drft EE/CA -79
8290	0017	Prep & Submit Final EE/CA To Army/EPA -79	16	12JUN12	30JUN12			Prep & Submit Final EE/CA To Army/EPA -79
8295	0017	Army /Ohio EPA Revw & Approve Fnl EE/CA - 79	45	01JUL12	14AUG12	- 1		Army /Ohio EPA Revw & Approve Fnl EE/CA - 79
8300	0017	Submit EE/CA - Final CC-RVAAP-79	0	0130112	14AUG12			Submit EE/CA - Final CC-RVAAP-79
	Memorai	1	Ů		1 110 012			
8305	0017	Develop Pre-Draft Action Memo CC-RVAAP-79	25	15AUG12	08SEP12			Develop Pre-Draft Action Memo CC-RVAAP-79
8310	0017	Submit Pre-Draft Action Memo To Army CC-RVAAP-79	0		08SEP12	- !		Submit Pre-Draft Action Memo To Army CC-RVAAP-79
8315	0017	Army Review Pre-Draft Action Memo CC-RVAAP-79	30	19SEP12	180CT12	- i		Army Review Pre-Draft Action Memo CC-RVAAP-79
8320	0017	Attend Comment Resolution Mtg Action Memo -79	1	190CT12				Attend Comment Resolution Mtg Action Memo -79
8325	0017	Prep&Submit Draft AM To Army/Ohio EPA -79	15	200CT12	03NOV12			Prep&Submit Draft AM To Army/Ohio EPA -79
8330	0017	Army/Ohio EPA Review Draft Action Memo RVAAP-79	45	04NOV12				Army/Ohio EPA Review Draft Action Memo RVAAP-79
8335	0017	Attend Comment Resolution Mtg Draft AM 79	3	19DEC12				Attend Comment Resolution Mtg Draft AM 79
8340	0017	Prep & Submit Final AM To Army/EPA CC-RVAAP-79	17	22DEC12	07JAN13			Prep & Submit Final AM To Army/EPA CC-RVAAP-79
8345	0017	Army /Ohio EPA Revw & Approve Fnl AM RVAAP-79	45	08JAN13	21FEB13			Army /Ohio EPA Revw & Approve Fnl AM RVAAP-79
8350	0017	Submit Final Act Memo CC-RVAAP-79	0		21FEB13			Submit Final Act Memo CC-RVAAP-79
	ial Actior	n Work Plan						
8355	0017	Develop RAWP Pre-Draft CC-RVAAP-79	25	22FEB13	18MAR13			Develop RAWP Pre-Draft CC-RVAAP-79
8360	0017	Submit Pre-Draft RAWP To Army CC-RVAAP-79	0		18MAR13			Submit Pre-Draft RAWP To Army CC-RVAAP-79
8365	0017	Army Review Pre-Draft RAWP CC-RVAAP-79	30	29MAR13	27APR13	- i		Army Review Pre-Draft RAWP CC-RVAAP-79
8370	0017	Attend Comment Resolution RAWP CC-RVAAP -79	1	29APR13	29APR13			Attend Comment Resolution RAWP CC-RVAAP
8375	0017	Prep&Submit Draft RAWP To Army/Ohio EPA -79	17	30APR13	16MAY13			Prep&Submit Draft RAWP To Army/Ohio EPA
8380	0017	Army/Ohio EPA Review Draft RAWP CC-RVAAP-79	45	17MAY13				Army/Ohio EPA Review Draft RAWP CC-R
8385	0017	Attend Comment Resolution Mtg Draft CC-RAWP 79	3	01JUL13	03JUL13			Attend Comment Resolution Mtg Draft CC-
8390	0017	Prep & Submit Final RAWP To Army/EPA CC-RVAAP-79	17	04JUL13	20JUL13	1		Prep & Submit Final RAWP To Army/EP
8395	0017	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP-79	45	21JUL13	03SEP13	1		Army /Ohio EPA Revw & Apprve Fnl
8400	0017	Submit Final RAWP CC-RVAAP-79	0		03SEP13			Submit Final RAWP CC-RVAAP-79
	al Action	1		·				
8405	0017	Request For Site Access CC-RVAAP-79	14	21JUL13	03AUG13			Request For Site Access CC-RVAAP-79
8410	0017	Mobilize To Site CC-RVAAP-79	1	04SEP13	04SEP13			Mobilize To Site CC-RVAAP-79
8415	0017	Removal Action CC-RVAAP-79	20	05SEP13	24SEP13	1		Removal Action CC-RVAAP-79
8420	0017	Confirmation Sampling CC-RVAAP-79	20	25SEP13	140CT13	1		Confirmation Sampling CC-RVAA
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8425	0017	Conduct Lab Analysis CC-RVAAP-79	30	150CT13	13NOV13		
8430	0017	Data Review Meeting CC-RVAAP-79	1	14NOV13			
	0017	Demobilization CC-RVAAP-79	2	15NOV13	18NOV13	3 Demobilization CC-R	VAAP-79
	1	olete Report		1			
8450	0017	Develop Pre-Draft RCR CC-RVAAP-79	30	19NOV13	18DEC13		
8455	0017	Submit Pre-Draft RCR To Army CC-RVAAP-79	0		18DEC13	── 1 <mark> </mark>	
8460	0017	Army Review Pre-Draft RCR CC-RVAAP-79	30	29DEC13	27JAN14	/ _ / / / / / / / / / / / / / / /	
8465	0017	Attend Comment Resolution RCR CC-RVAAP -79	1	28JAN14	28JAN14		
8470	0017	Prep&Submit Draft RCR To Army/Ohio EPA RVAAP-79	10	29JAN14	07FEB14	────┼ <mark>┫</mark> ┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼	
8475	0017	Army/Ohio EPA Review Draft RCR CC-RVAAP-79	45	08FEB14	24MAR14		
8480	0017	Attend Comment Resolution Mtg Draft RCR RVAAP-79	3	25MAR14		———————————————————————————————————————	
8485	0017	Prep & Submit Final RCR To Army/EPA CC-RVAAP-79	17	28MAR14	13APR14		
8490	0017	Army /Ohio EPA Revw & Apprve Fnl RCR CC-RVAAP-79	45	14APR14	28MAY14		/Ohio El
8495	0017	Submit Final RCR CC-RVAAP-79	0		28MAY14	4 i i i i i i i i i i i i i i i i i i	mit Final
		al Removal Action	0		00164344		
8500	0017	Achieve NTCRA Main Ore Storage CC-RVAAP-79	0		28MAY14	4 ◆ 30MA	ieve NTC V14
Subtotal	0017		581	06FEB12	28MAY14	$\overline{4}$	
CLIN 0	018 N	TC RA 73,74,78,79 (Remaining Sites)					
Engr E	val/Cos	st Analysis (EE/CA) CLIN 18					
Enginee	ering Eva	aluation/Cost Analysis (EE/CA)					
8555	0018	Prep & Submit PreDraft EE/CA To Army CLIN 18	30	22FEB12*	22MAR12	2 Prep & Submit PreDraft EE/CA To Army CLIN 18	
8560	0018	Submit Pre-Draft EE/CA To Army CLIN 18	0		22MAR12	2 Submit Pre-Draft EE/CA To Army CLIN 18	
8565	0018	Army Review Pre-Draft EE/CA CLIN 18	30	02APR12	01MAY12	2 Army Review Pre-Draft EE/CA CLIN 18	
8570	0018	Attend Comment Resolution MTG EE/CA CLIN 18	1	02MAY12	02MAY12	2 Attend Comment Resolution MTG EE/CA CLIN 18	
8575	0018	Prep&Submit Draft EE/CA To Army/Ohio EPA CLIN 18	20	03MAY12	22MAY12	2 Prep&Submit Draft EE/CA To Army/Ohio EPA CLIN 18	
8580	0018	Army/Ohio EPA Review Draft EE/CA CLIN 18	45	23MAY12	06JUL12	2Army/Ohio EPA Review Draft EE/CA CLIN 18	
8585	0018	Attend Comment Resolution Mtg Drft EE/CA CLIN 18	3	09JUL12	11JUL12	Attend Comment Resolution Mtg Drft EE/CA CLIN 18	
8590	0018	Prep & Submit Final EE/CA To Army/EPA CLIN 18	20	12JUL12	31JUL12	2 Prep & Submit Final EE/CA To Army/EPA CLIN 18	
8595	0018	Army /Ohio EPA Revw & Approve Fnl EE/CA CLIN 18	45	01AUG12	14SEP12	2Army /Ohio EPA Revw & Approve Fnl EE/CA CLIN 18	
8600	0018	Submit EE/CA - Final CLIN 18	0		14SEP12	2 Submit EE/CA - Final CLIN 18	
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8610	0018	Develop Pre-Draft Action Memo CLIN 18	30	15SEP12	140CT12	2 Develop Pre-Draft Action Memo CLIN 18	
8615	0018	Submit Pre-Draft Action Memo To Army CLIN 18	0		140CT12	2 Submit Pre-Draft Action Memo To Army CLIN 18	
8620	0018	Army Review Pre-Draft Action Memo CLIN 18	30	250CT12	23NOV12	2 Army Review Pre-Draft Action Memo CLIN 18	
8625	0018	Attend Comment Resolution Mtg Action Memo CLIN18	1	26NOV12			
8630	0018	Prep&Submit Draft AM To Army/Ohio EPA CLIN 18	20	27NOV12	16DEC12		
8635	0018	Army/Ohio EPA Review Draft Action Memo CLIN 18	45	17DEC12	30JAN13	1 <mark>_</mark> 1 _ 1 _ 1 _ 1 _ 1 _ 1 _ 1 _ 1 _ 1 _ 1	
8640	0018	Attend Comment Resolution Mtg Draft AM CLIN 18	3	31JAN13	04FEB13		
8645	0018	Prep & Submit Final AM To Army/EPA CLIN 18	20	05FEB13	24FEB13		
8650	0018	Army /Ohio EPA Revw & Approve Fnl AM CLIN 18	45	25FEB13	10APR13		AM CLIN
	0018	Submit Final Action Memo CLIN 18	0		10APR13	3 Submit Final Action Memo CLIN 18	
		on Work Plan CLIN 18					
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8660	0018	Develop RAWP Pre-Draft CLIN 18	30	11APR13			
8665	0018	Submit Pre-Draft RAWP To Army CLIN 18	0	012 5 5 5 5 5	10MAY13		
8670	0018	Army Review Prelim RAWP CLIN 18	30	21MAY13		· · · · · · · · · · · · · · · · ·	
8675	0018	Attend Comment Resolution RAWP CLIN 18	1	20JUN13	20JUN13	I <mark> </mark>	
8680	0018	Prep&Submit Draft RAWP To Army/Ohio EPA CLIN 18	20	21JUN13	10JUL13		-
8685	0018	Army/Ohio EPA Review Draft RAWP CLIN 18	45	11JUL13	24AUG13		
8690	0018	Attend Comment Resolution Mtg Draft CLIN 18	3	26AUG13	28AUG13	3 Attend Comment Resolution	i Mitg Dra

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8695	0018	Prep & Submit Final RAWP To Army/EPA CLIN 18	20	29AUG13	17SEP13			131413101			& Submit Final RAWP To Arm
8700	0018	Army /Ohio EPA Revw & Apprve Fnl RAWP CLIN 18	45	18SEP13	01NOV13						my /Ohio EPA Revw & Apprv
8705	0018	Submit Final RAWP CLIN 18	0		01NOV13		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			 ∳ s	ubmit Final RAWP CLIN 18
	emoval	Action For CC-RVAAP-73			1						
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8720	0018	Request For Site Access CLIN 18	14	18SEP13	010CT13					Requ	est For Site Access CLIN 18
8725	0018	Mobilize To Site CC-RVAAP-73	1	04NOV13	04NOV13					Μ	obilize To Site CC-RVAAP-73
8730	0018	Removal Action CC-RVAAP-73	20	05NOV13	24NOV13						Removal Action CC-RVAAP-7
8735	0018	Confirmation Sampling CC-RVAAP-73	20	25NOV13	14DEC13						Confirmation Sampling CC-I
8740	0018	Conduct Lab Analysis CC-RVAAP-73	30	15DEC13	13JAN14						Conduct Lab Analysis CC
8745	0018	Data Review Meeting CC-RVAAP-73	1	14JAN14	14JAN14						Data Review Meeting CC-
8750	0018	Demobilization CC-RVAAP-73	1	15JAN14	15JAN14						Demobilization CC-RVAA
NTC R	lemoval	Action For CC-RVAAP-74									
Remov	al Action					Ì					
8760	0018	Mobilize To Site CC-RVAAP-74	1	16JAN14	16JAN14						Mobilize To Site CC-RVA
8765	0018	Removal Action CC-RVAAP-74	20	17JAN14	05FEB14						Removal Action CC-RV
8770	0018	Confirmation Sampling CC-RVAAP-74	20	06FEB14	25FEB14						Confirmation Sampling
8775	0018	Conduct Lab Analysis CC-RVAAP-74	30	26FEB14	27MAR14						Conduct Lab Analys
8780	0018	Data Review Meeting CC-RVAAP-74	1	28MAR14							Data Review Meetin
8785	0018	Demobilization CC-RVAAP-74	1	31MAR14	31MAR14						Demobilization CC-
NTC R	lemoval	Action For CC-RVAAP-78									
	al Action				I						
8790	0018	Mobilize To Site CC-RVAAP-78	1	01APR14	01APR14						Mobilize To Site CC
8795	0018	Removal Action CC-RVAAP-78	20	02APR14	21APR14						Removal Action C
8800	0018	Confirmation Sampling CC-RVAAP-78	20	22APR14	11MAY14						Confirmation Sa
8805	0018	Conduct Lab Analysis CC-RVAAP-78	30	12MAY14	10JUN14						
8810	0018	Data Review Meeting CC-RVAAP-78	1	11JUN14	11JUN14						Data Review M
8815	0018	Demobilization CC-RVAAP-78	1	12JUN14	12JUN14	i i					Demobilizatio
		Action For CC-RVAAP-79									
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8820	0018	Mobilize To Site CC-RVAAP-79	1	13JUN14	13JUN14						Mobilize To S
8825	0018	Removal Action CC-RVAAP-79	20	14JUN14	03JUL14						Removal Ac
8830	0018	Confirmation Sampling CC-RVAAP-79	20	04JUL14	23JUL14						Confirmat
8835 8840	0018	Conduct Lab Analysis CC-RVAAP-79 Data Review Meeting CC-RVAAP-79	30	24JUL14 25AUG14	22AUG14 25AUG14						Conduct Data Re
8845	0018	Demobilization CC-RVAAP-79	1		26AUG14						Demobi
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		nplete Report CLIN 18									
8850	0018	olete Report Develop Pre-Draft RCR CLIN 18	30	27AUG14	25SEP14						Devel
8855	0018	Submit Pre-Draft RCR To Army CLIN 18	0	2/A0014	25SEP14 25SEP14						
8855	0018	Army Review Pre-Draft RCR CLIN 18	30	060CT14							
8865	0018	Attend Comment Resolution RCR CLIN 18	1	05NOV14		- 1					
8870	0018	Prep&Submit Draft RCR To Army/Ohio EPA CLIN 18	10	06NOV14							
8875	0018	Army/Ohio EPA Review Draft RCR CLIN 18	45	16NOV14							
8880	0018	Attend Comment Resolution Mtg Draft RCR CLIN 18	3	31DEC14	05JAN15						
8885	0018	Prep & Submit Final RCR To Army/EPA CLIN 18	20	06JAN15	25JAN15						
8890	0018	Army /Ohio EPA Revw & Apprve Fnl RCR CLIN 18	45	26JAN15		11					
8895	0018	Submit Final RCR CLIN 18	0		11MAR15						
		ical Removal Action CLIN 18		·	·						
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8900	0018	Achieve Non-Time Critical RA CC-RVAAP-73 CLIN 18	0		11MAR15						

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Activity ID	y CLIN	Activity Description	Cal Days	Early Start	Early Finish	2011 2012 2013 2014 J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N
8905	0018	Achieve Non-Time Critical RA CC-RVAAP-74 CLIN 18	0	Start	11MAR15	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
8910	0018	Achieve Non-Time Critical RA CC-RVAAP-78 CLIN 18	0		11MAR15	5
8915	0018	Achieve NTCRA Remaining Sites CC-RVAAP-79 CLIN18	0		11MAR15	5
Subtotal	0018		766	22FEB12	11MAR15	
CLIN	0019 (0	Opt) NTC RA CC-RVAAP-72				
		2 (Facility-Wide UG Storage Tanks)				
		aluation/Cost Analysis (EE/CA)				
8955	0019	Prep & Submit PreDraft EE/CA To Army CC-RVAAP-72	30	18JUL13	16AUG13	3 Prep & Submit PreDraft EE/CA To Arr
8960	0019	Submit Pre-Draft EE/CA To Army CC-RVAAP-72	0		16AUG13	3 Submit Pre-Draft EE/CA To Army CO
8965	0019	Army Review Pre-Draft EE/CA CC-RVAAP-72	30	27AUG13	25SEP13	Army Review Pre-Draft EE/CA CC-
8970	0019	Attend Comment Resolution MTG EE/CA CC-RVAAP-72	1	26SEP13	26SEP13	Attend Comment Resolution MTG I
8975	0019	Prep&Submit Draft EE/CA To Army/Ohio EPA RVAAP72	20	27SEP13	160CT13	Prep&Submit Draft EE/CA To Ar
8980	0019	Army/Ohio EPA Review Draft EE/CA RVAAP-72	45	170CT13	30NOV13	3 Army/Ohio EPA Review Draft
8985	0019	Attend Comment Resolution Mtg Drft EE/CA RVAAP72	3	02DEC13	04DEC13	Attend Comment Resolution N
8990	0019	Prep & Submit Final EE/CA To Army/EPA RVAAP-72	20	05DEC13	24DEC13	Brep & Submit Final EE/CA
8995	0019	Army /Ohio EPA Revw & Approve Fnl EE/CA RVAAP72	45	25DEC13	07FEB14	Army /Ohio EPA Revw &
9003	0019	Submit EE/CA - Final CC-RVAAP-72	0		07FEB14	Submit EE/CA - Final C
Action	Memora	ndun				
8013	0019	Develop Pre-Draft Action Memo CC-RVAAP-72	30	170CT13	15NOV13	3 Develop Pre-Draft Action Memo
8018	0019	Submit Pre-Draft Action Memo To Army CC-RVAAP-72	0		15NOV13	3 Submit Pre-Draft Action Mem
8023	0019	Army Review Pre-Draft Action Memo CC-RVAAP-72	30	26NOV13	25DEC13	3
8028	0019	Attend Comment Resolution Mtg Act Memo RVAAP-72	1	26DEC13	26DEC13	3 Attend Comment Resolution
8033	0019	Prep&Submit Draft AM To Army/Ohio EPA RVAAP-72	20	27DEC13	15JAN14	Prep&Submit Draft AM T
8038	0019	Army/Ohio EPA Review Draft AM CC-RVAAP-72	45	16JAN14	01MAR14	4 Army/Ohio EPA Revie
8043	0019	Attend Comment Resolution Mtg Draft AM RVAAP72	3	03MAR14	05MAR14	4 Attend Comment Reso
8048	0019	Prep & Submit Final AM To Army/EPA CC-RVAAP-72	20	06MAR14	25MAR14	4 Prep & Submit Final
8053	0019	Army /Ohio EPA Revw & Approve Fnl AM RVAAP-72	45	26MAR14	09MAY14	4 Army /Ohio EPA
8058	0019	Submit Final Act Memo CC-RVAAP-72	0		09MAY14	4 Submit Final A
Remea	1	n Work Plan				
8093	0019	Develop Pre-Draft RAWP CC-RVAAP-72	30	16JAN14	14FEB14	—]
8098	0019	Submit Pre-Draft RAWP To Army CC-RVAAP-72	0		14FEB14	I <mark>_</mark>
8103	0019	Army Review Pre-Draft RAWP CC-RVAAP-72	30	25FEB14	26MAR14	
8108	0019	Attend Comment Resolution RAWP CC-RVAAP-72	1	27MAR14		— 4 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /
8113	0019	Prep&Submit Draft RAWP To Army/Ohio EPA RVAAP72	20	28MAR14		
8118	0019	Army/Ohio EPA Review Draft RAWP CC-RVAAP-72	45	17APR14	31MAY14	
8123	0019	Attend Comment Resolution Mtg Draft CC-RVAAP-72	3	02JUN14	04JUN14	— I I I I I I I I I I I I I I I I I I I
8128	0019	Prep & Submit Final RAWP To Army/EPA CC-RVAAP-72	20	05JUN14	24JUN14	I I _ I _ I _ I _ I _ I _ I _
8133	0019	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP-72	45	25JUN14	08AUG14	
8138	0019	Submit Final RAWP CC-RVAAP-72	0		08AUG14	4 Submit I
	al Actior					
8193	0019	Mobilize To Site CC-RVAAP-72	1		11AUG14	
8198	0019	Removal Action CC-RVAAP-72	20	-	31AUG14	━┫ ╷┛╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷ ╷
8203	0019	Confirmation Sampling CC-RVAAP-72	20	01SEP14	20SEP14	I I _ I _ I _ I _ I _ I _ I _
8208	0019	Conduct Lab Analysis CC-RVAAP-72	30	21SEP14	200CT14	
8213	0019	Data Review Meeting CC-RVAAP-72	1	210CT14		
8218	0019	Demobilization CC-RVAAP-72	1	220CT14	220CT14	4 i i i i i i i i i i i i i i i i i i i
		plete Report		2200771.1	01310321.1	
8223	0019	Develop Pre-Draft RCR CC-RVAAP-72	30	2300114	21NOV14	
8228	0019	Submit Pre-Draft RCR To Army CC-RVAAP-72	0		21NOV14	
8233	0019	Army Review Pre-Draft RCR CC-RVAAP-72	30	U2DEC14	31DEC14	•

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	0019	Attend Comment Resolution RCR CC-RVAAP-72	Days	Start 02JAN15	02JAN15	-1 1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1	6 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
8243	0019	Prep&Submit Draft RCR To Army/Ohio EPA RVAAP72	20	02JAN15 03JAN15	22JAN15	-		
8243	0019	Army/Ohio EPA Review Draft RCR CC-RVAAP-72	45	23JAN15	08MAR15			
8253	0019	Attend Comment Resolution Mtg Draft RCR RVAAP-72	3	09MAR15		-		
	0019	Prep & Submit Final RCR To Army/EPA CC-RVAAP-72	20		31MAR15	-		
	0019	Army /Ohio EPA Revw & Apprve Fnl RCR RVAAP72	45	01APR15	15MAY15	-		
	0019	Submit Final RCR CC-RVAAP-72	0		15MAT15 15MAY15	-		
		al Removal Action	0		15101A115			
	0019	Achieve Non-Time Critical RA CC-RVAAP-72	0		15MAY15			
0275	0017				15000115	1 i		
Subtotal	0019		459	18JUL13	15MAY15			
CLIN 0	020 (C	Dpt) NTC RA CC-RVAAP-75		1				
		George Rd Sewage Treatment Plant)						
		aluation/Cost Analysis (EE/CA) Prep & Submit PreDraft EE/CA To Army CC-RVAAP-75	20	10ПП 12	16411012			
	0020		30	18JUL13	16AUG13 16AUG13	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prep & Submit PreDraft EE/CA To Ar
	0020	Submit Pre-Draft EE/CA To Army CC-RVAAP-75	-	27AUG13		4 1		Submit Pre-Draft EE/CA To Army C
8318		Army Review Pre-Draft EE/CA CC-RVAAP-75	30			- 1		Army Review Pre-Draft EE/CA CC
	0020	Attend Comment Resolution MTG EE/CA CC-RVAAP-75	20	26SEP13	26SEP13	-	1 1 <td>Attend Comment Resolution MTG</td>	Attend Comment Resolution MTG
8328	0020	Prep&Submit Draft EE/CA To Army/Ohio EPA RVAAP75	20	27SEP13 17OCT13	160CT13			Prep&Submit Draft EE/CA To Ar
8333	0020	Army/Ohio EPA Review Draft EE/CA CC-RVAAP-75	45	02DEC13	30NOV13 04DEC13	- 1		Army/Ohio EPA Review Draft
8338	0020	Attend Comment Resolution Mtg Drft EE/CA RVAAP75	20	02DEC13 05DEC13	24DEC13	4		Attend Comment Resolution N
	0020	Prep & Submit Final EE/CA To Army/EPA RVAAP-75	-			-		Prep & Submit Final EE/CA
	0020	Army /Ohio EPA Revw & Approve Fnl EE/CA RVAAP75	45	25DEC13	07FEB14 07FEB14	- 1		Army /Ohio EPA Revw
		Submit EE/CA - Final CC-RVAAP-75	0		0/FEB14			Submit EE/CA - Final (
	<i>Memorar</i> 0020	Develop Pre-Draft Action Memo CC-RVAAP-75	20	170CT13	15NOV13			
	0020		30	1/00115	15NOV13	- 1		Develop Pre-Draft Action Mem Submit Pre-Draft AM To Arm
8368	0020	Submit Pre-Draft AM To Army CC-RVAAP-75 Army Review Pre-Draft Action Memo CC-RVAAP-75	30	26NOV13		4		Army Review Pre-Draft Act
8308	0020	Attend Comment Resolution Mtg Act Memo RVAAP-75	1	26DEC13	23DEC13 26DEC13	- 1		Attend Comment Resolution
8373	0020	Prep&Submit Draft AM To Army/Ohio EPA RVAAP-75	20	27DEC13	15JAN14	-		Prep&Submit Draft AM T
	0020	Army/Ohio EPA Review Draft AM CC-RVAAP-75 Attend Comment Resolution Mtg Draft AM RVAAP75	45	03MAR14	01MAR14 05MAR14	4		Army/Ohio EPA Revie
	0020		3 20			-		
	0020	Prep & Submit Final AM To Army/EPA CC-RVAAP-75			25MAR14	- !		Prep & Submit Final
	0020	Army /Ohio EPA Revw & Approve Fnl AM RVAAP-75	45	20101AK14	09MAY14	- 1		Army /Ohio EPA
		Submit Final Action Memo CC-RVAAP-75	0		09MAY14	1		
	0020	n Work Plan Develop Pre-Draft RAWP CC-RVAAP-75	30	16JAN14	14FEB14	4		Develop Pre-Draft RAW
	0020	Submit Pre-Draft RAWP To Army CC-RVAAP-75	0	105AN14	14FEB14	-		Submit Pre-Draft RAV
	0020	Army Review Pre-Draft RAWP CC-RVAAP-75	30	25FEB14	26MAR14	4		Army Review Pre-Di
8423	0020	Attend Comment Resolution RAWP CC-RVAAP-75	1	231/EB14 27MAR14		-		Attend Comment Re
	0020	Prep&Submit Draft RAWP To Army/Ohio EPA RVAAP75	20	27MAR14 28MAR14		- 1		Prep&Submit Draf
	0020	Army/Ohio EPA Review Draft RAWP CC-RVAAP-75	45	17APR14		1 1		Army/Ohio EP
	0020	Attend Comment Resolution Mtg Draft CC-RVAAP-75	3	02JUN14	04JUN14	- 1		
8438	0020	Prep & Submit Final RAWP To Army/EPA CC-RVAAP-75	20	02JUN14 05JUN14	24JUN14	- 1		Attend Comme Prep & Subn
	0020	Army /Ohio EPA Revw & Apprve Fnl RAWP RVAAP-75	45	25JUN14	08AUG14			Army/Ol
	0020	Submit Final RAWP CC-RVAAP-75	0	23301114	08AUG14 08AUG14	-		
		1			00A0014			
	0020	Mobilize To Site CC-RVAAP-75	1	11411014	11AUG14	┩╎╽		Mobilize
	0020	Removal Action CC-RVAAP-75	20		31AUG14	┥╎┃		- I I I I I I I I I I I I I I I I I I
	0020			01SEP14				
		Confirmation Sampling CC-RVAAP-75	20		20SEP14	┥╎		Confin
	0020	Conduct Lab Analysis CC-RVAAP-75	30	21SEP14		┥╎		Co
8478	0020	Data Review Meeting CC-RVAAP-75		210CT14				
8483	0020	Demobilization CC-RVAAP-75	1	2200114	220CT14			

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Response Com	plete Report			"												
8488 0020	Develop Pre-Draft RCR CC-RVAAP-75	30	230CT14	21NOV14			$\begin{array}{cccccccccccccccccccccccccccccccccccc$						Deve	elop Pre-Draft RCR CC-R	VAAP-75	
8493 0020	Submit Pre-Draft RCR To Army CC-RVAAP-75	0		21NOV14									Sul	bmit Pre-Draft RCR To Ar	my CC-RVAAP-75	
8498 0020	Army Review Pre-Draft RCR CC-RVAAP-75	30	02DEC14	31DEC14									A	Army Review Pre-Draft RC	R CC-RVAAP-75	
8503 0020	Attend Comment Resolution RCR CC-RVAAP-75	1	02JAN15	02JAN15									<i> </i>	Attend Comment Resolutio	n RCR CC-RVAAP-75	
8508 0020	Prep&Submit Draft RCR To Army/Ohio EPA RVAAP75	20	03JAN15	22JAN15										Prep&Submit Draft RCR	To Army/Ohio EPA RVAAP75	
8513 0020	Army/Ohio EPA Review Draft RCR CC-RVAAP-75	45	23JAN15	08MAR15										Army/Ohio EPA Revi	ew Draft RCR CC-RVAAP-75	
8518 0020	Attend Comment Resolution Mtg Draft RCR RVAAP-75	3	09MAR15	11MAR15										Attend Comment Res	olution Mtg Draft RCR RVAAP	-75
8523 0020	Prep & Submit Final RCR To Army/EPA CC-RVAAP-75	20	12MAR15	31MAR15										Prep & Submit Fina	l RCR To Army/EPA CC-RVAA	AP-75
8528 0020	Army /Ohio EPA Revw & Apprve Fnl RCR RVAAP75	45	01APR15	15MAY15										Army /Ohio EP/	A Revw & Apprve Fnl RCR RVA	AAP75
8533 0020	Submit Final RCR CC-RVAAP-75	0		15MAY15										Submit Final I	RCR CC-RVAAP-75	
Non-Time-Critic	al Removal Action															
8538 0020	Achieve Non-Time Critical RA CC-RVAAP-75	0		15MAY15										Achieve Non-T	ime Critical RA CC-RVAAP-75	
														♦01AUG15		
Subtotal 0020		459	18JUL13	15MAY15							$\diamond \diamondsuit$					
CLIN 0021 A	II Remedies, Opt Capital & L-T Costs															
9020 0021	All Remedies, Optimize Cap. & Long Term Costs	1 1 4 5	15AUG11	29JUL15											lies, Optimize Cap. & Long Tern	n Costs
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Subtotal 0021		1,445	15AUG11	29JUL15												

APPENDIX B

MILESTONE PAYMENT SCHEDULE

CLIN	Sub-CLIN	Tasks	Payment Metric				
0001		Project Management Plan and Quality Assurance Surveillance Plan					
	0001.AA	Draft Project Management Plan	Resolution of Army Comments on Draft				
	0001.AB	Final Project Management Plan	Regulatory Approval				
	0001.AC	Draft Quality Assurance Surveillance Plan	Resolution of Army Comments on Draft				
0002		Historical Records Review CC-RVAAP-71 and CC-RVAAP-83					
		Barn No. 5 Petroleum Release and Former Buildings 1031 and 1039					
	0002.AA	Draft Historical Records Review	Resolution of Army Comments on Draft				
	0002.AB	Final Historical Records Review	Regulatory Approval				
			5 , 11				
0003		(OPTIONAL) Site Inspection CC-RVAAP-71					
		Barn No. 5 Petroleum Release					
	0003.AA	Draft Site Inspection Work Plan	Resolution of Army Comments on Draft				
	0003.AB	Final Site Inspection Work Plan	Regulatory Approval				
	0003.AC	Field Completion Report	Army Acceptance of Data Submittial				
	0003.AD	Draft Site Inspection Report	Resolution of Army Comments on Draft				
	0003.AE	Final Site Inspection Report	Regulatory Approval				
0004		(OPTIONAL) Site Inspection CC-RVAAP-83					
		Former Buildings 1031 and 1039					
	0004.AA	Draft Site Inspection Work Plan	Resolution of Army Comments on Draft				
	0004.AB	Final Site Inspection Work Plan	Regulatory Approval				
	0004.AC	Field Completion Report	Army Acceptance of Data Submittial				
	0004.AD	Draft Site Inspection Report	Resolution of Army Comments on Draft				
	0004.AE	Final Site Inspection Report	Regulatory Approval				
0003		Site Inspection CC-RVAAP-70, 72, 75, 77					
		CC-RVAAP-70 East Classification Yard, CC-RVAAP-72 Facility Wide Underground Storage Tanks,					
		CC-RVAAP-75 George Road Sewage Treatment Plant, and					
		CC-RVAAP-77 Building 1037 Laundry Waste Water Sump					
	0005.AA	Draft Site Inspection Work Plan	Resolution of Army Comments on Draft				
	0005.AB	Final Site Inspection Work Plan	Regulatory Approval				
	0005.AC	Field Completion Report	Army Acceptance of Data Submittial				
	0005.AD	Draft Site Inspection Report	Resolution of Army Comments on Draft				
	0005.AE	Final Site Inspection Report	Regulatory Approval				
0006		Remedial Investigation CC-RVAAP-79					
		DLA Ore Storage Site - Main Ore Storage Yard					
	0006.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft				
	0006.AB	Final Remedial Investigation Work Plan	Regulatory Approval				
	0006.AC	Field Completion Report	Army Acceptance of Data Submittial				
	0006.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft				
	0006.AE	Final Remedial Investigation Report	Regulatory Approval				

CLIN	Sub-CLIN	Tasks	Payment Metric					
007		Feasibility Study CC-RVAAP-76						
		Depot Area						
	0007.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft					
	0007.AB	Final Remedial Investigation Work Plan	Regulatory Approval					
	0007.AC	Field Completion Report	Army Acceptance of Data Submittial					
	0007.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft					
	0007.AE	Final Remedial Investigation Report	Regulatory Approval					
	0007.AF	Draft Feasibility Study Work Plan	Resolution of Army Comments on Draft					
	0007.AG	Final Feasibility Study Work Plan	Regulatory Approval					
	0007.AH	Field Completion Report	Army Acceptance of Data Submittial Resolution of Army Comments on Draft					
	0007.AI	Draft Feasibility Study						
	0007.AJ	Final Feasibility Study	Regulatory Approval					
800		Remedial Investigation CC-RVAAP-68, 69, 73, 74, 78, AND 79						
		CC-RVAAP-68 Electrical Substation East, West, and West No. 3						
		CC-RVAAP-69 Building 1048 Fire Station, CC-RVAAP-73 Facility Wide Coal Storage						
	İ	CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift, CC-RVAAP-78 Quarry Pond Surface Dump						
		CC-RVAAP-79 DLA Ore Storage Sites - Remaining Ore Sites						
	0008.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft					
	0000.7 44		Resolution of Army Comments on Draft					
		CC-RVAAP-68 Electrical Substation East, West, and West No. 3	Resolution of Army Comments on Draft					
		CC-RVAAP-69 Building 1048 Fire Station	Resolution of Army Comments on Draft					
		CC-RVAAP-73 Facility Wide Coal Storage	Resolution of Army Comments on Draft					
		CC-RVAAP-74 Building 1034 Motor Pool Hygraulic Lif	Resolution of Army Comments on Draft					
		CC-RVAAP-78 Quarry Pond Surface Dum s	Resolution of Army Comments on Draft					
	0008.AB	Frankenedra Phesica Star and Stars Remaining Ore Site	Regulatory Approval					
	0000.AD		Regulatory Approval					
		CC-RVAAP-68 Electrical Substation East. West, and West No. 3	Regulatory Approval					
		CC-RVAAP-69 Building 1048 Fire Station	Regulatory Approval					
		CC-RVAAP-73 Facility Wide Coal Storage	Regulatory Approval					
		CC-RVAAP-74 Building 1034 Motor Pool Hygraulic Lit	Regulatory Approval					
		CC-RVAAP-78 Quarry Pond Surface Dum s	Regulatory Approval					
	0008.AC	Fer Rom Brand Regord Storage Sites - Remaining Ore Site	Army Acceptance of Data Submittial					
	0008.AC		Army Acceptance of Data Submittial					
		CC-RVAAP-68 Electrical Substation East, West, and West No. 3	Army Acceptance of Data Submittial					
		CC-RVAAP-69 Building 1048 Fire Station	Army Acceptance of Data Submittial					
		CC-RVAAP-73 Facility Wide Coal Storage	Army Acceptance of Data Submittial					
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lif	Army Acceptance of Data Submittial					
		CC-RVAAP-78 Quarry Pond Surface Dum s	Army Acceptance of Data Submittial					
	0008.AD	DrarkReAredra Phospherege Sites - Remaining Ore Site	Resolution of Army Comments on Draft					
	0000.AD		Resolution of Army Comments on Draft					
		CC-RVAAP-68 Electrical Substation East, West, and West No. 3	Resolution of Army Comments on Draft					
		CC-RVAAP-69 Building 1048 Fire Station	Resolution of Army Comments on Draft					
		CC-RVAAP-73 Facility Wide Coal Storage	Resolution of Army Comments on Draft					
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lif	Resolution of Army Comments on Draft Resolution of Army Comments on Draft					
		CC-RVAAP-78 Quarry Pond Surface Dum s						
	0000 45	FrankeAedra Prostate Starke St	Resolution of Army Comments on Draft					
	0008.AE		Regulatory Approval					
		CC-RVAAP-68 Electrical Substation East, West, and West No. 3	Regulatory Approval					
		CC-RVAAP-69 Building 1048 Fire Station	Regulatory Approval					
		CC-RVAAP-09 Building 1046 File Station CC-RVAAP-73 Facility Wide Coal Storage	Regulatory Approval					
		CC-RVAAP-73 Facility Wide Coal Storage	Regulatory Approval					
			Regulatory Approval					
		CC-RVAAP-78 Quarry Pond Surface Dum s CC-RVAAP-79 DLA Ore Storage Sites - Remaining Ore Site	Regulatory Approval					

CLIN	Sub-CLIN	Tasks	Payment Metric
0009		(OPTIONAL) Remedial Investigation CC-RVAAP-70	
		East Classification Yard	
	0009.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	0009.AB	Final Remedial Investigation Work Plan	Regulatory Approval
	0009.AC	Field Completion Report	Army Acceptance of Data Submittial
	0009.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	0009.AE	Final Remedial Investigation Report	Regulatory Approval
0010		(OPTIONAL) Remedial Investigation CC-RVAAP-71	
		Barn No. 5 Petroluem Release	
	00010.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	00010.AB	Final Remedial Investigation Work Plan	Regulatory Approval
	00010.AC	Field Completion Report	Army Acceptance of Data Submittial
	00010.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	00010.AE	Final Remedial Investigation Report	Regulatory Approval
0011		(OPTIONAL) Remedial Investigation CC-RVAAP-72	
		Facility-Wide Underground Storage Tanks	
	00011.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	00011.AB	Final Remedial Investigation Work Plan	Regulatory Approval
	00011.AC	Field Completion Report	Army Acceptance of Data Submittial
	00011.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	00011.AE	Final Remedial Investigation Report	Regulatory Approval
0012		(OPTIONAL) Remedial Investigation CC-RVAAP-75	
		George Road Sewage Treatment Plant	
	00012.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	00012.AB	Final Remedial Investigation Work Plan	Regulatory Approval
	00012.AC	Field Completion Report	Army Acceptance of Data Submittial
	00012.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	00012.AE	Final Remedial Investigation Report	Regulatory Approval
0013		(OPTIONAL) Remedial Investigation CC-RVAAP-77	
		Building 1037 Laundry Waste Water Sump	
	00013.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft
	00013.AB	Final Remedial Investigation Work Plan	Regulatory Approval
	00013.AC	Field Completion Report	Army Acceptance of Data Submittial
	00013.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft
	00013.AE	Final Remedial Investigation Report	Regulatory Approval

CLIN	Sub-CLIN	Tasks	Payment Metric					
0014		(OPTIONAL) Remedial Investigation CC-RVAAP-80						
		Group 2 Propellant Can Tops						
	00014.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft					
	00014.AB	Final Remedial Investigation Work Plan	Regulatory Approval					
	00014.AC	Field Completion Report	Army Acceptance of Data Submittial					
	00014.AD	Draft Remedial Investigation Report	Resolution of Army Comments on Draft					
	00014.AE	Final Remedial Investigation Report	Regulatory Approval					
0015		(OPTIONAL) Remedial Investigation CC-RVAAP-83 Former Buildings 1031 and 1039						
	00015.AA	Draft Remedial Investigation Work Plan	Resolution of Army Comments on Draft					
	00015.AA	Final Remedial Investigation Work Plan	Regulatory Approval					
	00015.AB	Field Completion Report	Army Acceptance of Data Submittial					
	00015.AC	Draft Remedial Investigation Report	Resolution of Army Comments on Draft					
	00015.AD 00015.AE	Final Remedial Investigation Report						
	00015.AE		Regulatory Approval					
0016		Non-Time Critical Removal Action Inside Load Lines 1,2,3,4,12 for CC-RVAAP-73 AND 79						
		CC-RVAAP-73 Facility Wide Coal Storage Inside Load Lines 1,2,3,4						
		CC-RVAAP-79 DLA Ore Storage Sites Load Line 12						
	00016.AA	Draft Non-Time Critical Removal Action Work Plan	Resolution of Army Comments on Draft					
		4	Resolution of Army Comments on Draft					
		CC-RVAAP-73 Facility Wide Coal Storage Inside Loag Lines 1,2,3,	Resolution of Army Comments on Draft					
	00016.AB	FriarNortine Uniticatestingage Science Andre March 1991	Regulatory Approval					
		4	Regulatory Approval					
		CC-RVAAP-73 Facility Wide Coal Storage Inside Loag Lines 1,2,3,	Regulatory Approval					
	00016.AC	Feired Approx Storage Sites Load Line 1	Army Acceptance of Data Submittial					
		4	Army Acceptance of Data Submittial					
		CC-RVAAP-73 Facility Wide Coal Storage Inside Loag Lines 1,2,3,	Army Acceptance of Data Submittial					
	00016.AD	Bran Non Time United restance August Regelane 1	Resolution of Army Comments on Draft					
		4	Resolution of Army Comments on Draft					
		CC-RVAAP-73 Facility Wide Coal Storage Inside Loag Lines 1,2,3,	Resolution of Army Comments on Draft					
	00016.AE	FRANKATIA UANGARANGARANGARANGARANGARANGARANGARANGA	Regulatory Approval					
		4	Regulatory Approval					
	t	CC-RVAAP-73 Facility Wide Coal Storage Inside Loag Lines 1,2,3,	Regulatory Approval					
		CC-RVAAP-79 DLA Ore Storage Sites Load Line 1						
0017		Non-Time Critical Removal Action CC-RVAAP-79						
	ļ	DLA Ore Storage Sites - Main Ore Storage Yard						
	00017.AA	Draft Non-Time Critical Removal Action Work Plan	Resolution of Army Comments on Draft					
	00017.AB	Final Non-Time Critical Removal Action Work Plan	Regulatory Approval					
	00017.AC	Field Completion Report	Army Acceptance of Data Submittial					
	00017.AD	Draft Non-Time Critical Removal Action Report	Resolution of Army Comments on Draft					
	00017.AE	Final Non-Time Critical Removal Action Report	Regulatory Approval					

CLIN	Sub-CLIN	Tasks	Payment Metric
0018		Non-Time Critical Removal Action CC-RVAAP-73, 74, 78, 79	
		CC-RVAAP-73 Facility Wide Coal Storage - Remaining Sites	
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lift	
		CC-RVAAP-78 Quarry Pond Surface Dump	
		CC-RVAAP-79 DLA Storage Sites - Remaining Sites	
	00018.AA	Draft Non-Time Critical Removal Action Work Plan	Resolution of Army Comments on Draft
	000100.01	S	Resolution of Army Comments on Draft
		CC-RVAAP-73 Facility Wide Coal Storage - Remaining Site	Resolution of Army Comments on Draft
		CC-RVAAP-74 Building 1034 Motor Pool Hygraulic Lif	Resolution of Army Comments on Draft
		CC-RVAAP-78 Quarry Pond Surface Dum	Resolution of Army Comments on Draft
	00018.AB	Frian Nam Time With Storage Stepa Citizen with the s	Regulatory Approval
	00010.712	S	Regulatory Approval
		CC-RVAAP-73 Facility Wide Coal Storage - Remaining Site	Regulatory Approval
		CC-RVAAP-74 Building 1034 Motor Pool Hygraulic Lif	Regulatory Approval
		CC-RVAAP-78 Quarry Pond Surface Dum	Regulatory Approval
	00018.AC	Ferred Approx Provide Sites - Remaining Sites	Army Acceptance of Data Submittial
	00016.AC	S	Army Acceptance of Data Submittial
		CC-RVAAP-73 Facility Wide Coal Storage - Remaining Site	Army Acceptance of Data Submittial
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lif	
		CC-RVAAP-78 Quarry Pond Surface Dum	Army Acceptance of Data Submittial Army Acceptance of Data Submittial
	00040 40	Brank NoA-Trine Durhic Store Brank Bong Sites	
	00018.AD		Resolution of Army Comments on Draft
		s ICC-RVAAP-73 Facility Wide Coal Storage - Remaining Site	Resolution of Army Comments on Draft
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lif	Resolution of Army Comments on Draft
		CC-RVAAP-78 Quarry Pond Surface Dum	Resolution of Army Comments on Draft
			Resolution of Army Comments on Draft
	00018.AE	FrankNoralTine Denticences and the metabolis Sites	Regulatory Approval
		S CC BVAAD 72 Ecolity Wide Cool Storage Demoining Site	Regulatory Approval
		CC-RVAAP-73 Facility Wide Coal Storage - Remaining Site	Regulatory Approval
		CC-RVAAP-74 Building 1034 Motor Pool Hydraulic Lit	Regulatory Approval
		CC-RVAAP-78 Quarry Pond Surface Dum	Regulatory Approval
		CC-RVAAP-79 DLA Storage Sites - Remaining Sites	
019		(OPTIONAL) Non-Time Critical Removal Action CC-RVAAP-72	
		Facility Wide Underground Storage Tanks	
	00019.AA	Draft Non-Time Critical Removal Action Work Plan	Resolution of Army Comments on Draft
	00019.AB	Final Non-Time Critical Removal Action Work Plan	Regulatory Approval
	00019.AC	Field Completion Report	Army Acceptance of Data Submittial
	00019.AD	Draft Non-Time Critical Removal Action Report	Resolution of Army Comments on Draft
	00019.AE	Final Non-Time Critical Removal Action Report	Regulatory Approval
020		(OPTIONAL) Non-Time Critical Removal Action CC-RVAAP-75	
		George Road Sewerage Treatment Plant	
	00020.AA	Draft Non-Time Critical Removal Action Work Plan	Resolution of Army Comments on Draft
	00020.AB	Final Non-Time Critical Removal Action Work Plan	Regulatory Approval
	00020.AC	Field Completion Report	Army Acceptance of Data Submittial
	00020.AD	Draft Non-Time Critical Removal Action Report	Resolution of Army Comments on Draft
	00020.AE	Final Non-Time Critical Removal Action Report	Regulatory Approval
	50020.AL		
	00021.AA	For all remedies, optimize capital, and long-term costs	

APPENDIX C

COMMUNICATION PLAN

Environmental Investigation and Remediation Services - 14 Compliance Restoration Sites Ravenna Army Ammunition Plant															Date				17-N	ov-11					
			t Revision #												0										
	Al Easterday													Project #				5161.004							
U	S Army Corps of Engineers, Louisville																								
										С	OMN	MUN		τιοι	N PL	.AN									
#	Communications Item	USACE CORs - Chris Karem, Shelton Poole	USACE Contract Specialist - Stephanie Craig	USACE Project Manager - Glen Beckham	USACE Task Manager - Eric Cheng	USACE Task Manager - T. Scott Kelly	Senior PM - Al Easterday	Assistant PM - Nick Picardo	H&S/QC Manager - Mike McSherry, CIH, CSP	Chemist - Jackson Kiker, CHMM	Sr. Sci - John Jent, PE (Prudent)	Sr. Hydrogeologist - Michael Goydas, PG	Sr. Geologist - Bruce Baker, CPG, PG (AMEC)	Site Safety & Health Officer - Jeff Donovan	Risk Accessor - Deborah Barsotti, PhD (AMEC)	USAEC Site Lead - Mark Eldridge	BRAC Program Manager - William O'Donnell	RVAAP Facility Manager - Mark Patterson	NGB Cleanup Program Manager - Kim Harriz	OHARNG Environmental Specialist - Katie Tait	Ohio EPA Facility Coordinator - Eileen Mohr	Ohio EPA Site Coordinator - Kevin Palombo	AB	When	How
1	Project Schedule	R	I	R	R	R	Α	С	I	I	С	I	С	С	Ι	I	Ι	I	I	Ι	I	I	۲۲ -	Preliminary Draft, Draft, Final	Email, HC, & EC
2	Project Management Plan	R	Ι	R	R	R	Α	С	Ι	Ι	С	Ι	С	С	Ι	Ι	Ι	Ι	Ι	Ι	R	R	-	Preliminary Draft, Draft, Final	Email, HC, & EC
3	Quality Assurance Surviellance Plan	R	-	R	R	R	Α	С	С	С	С	С	С	С	Ι	Ι	I	I	Ι	Ι	Ι	Ι	-	Preliminary Draft, Draft, Final	Email, HC, & EC
4	Communications Plan	R	-	R	R	R	Α	С	I	Ι	I	Ι	Ι	Ι	Ι	Ι	I	I	Ι	Ι	Ι	Ι	-	Preliminary Draft, Draft, Final	Email, HC, & EC
5	Health and Safety Plan Addendum	R	-	R	R	R	Α	С	R	I	I	I	I	С	I	Ι	Ι	I	Ι	Ι	I	R	-	Preliminary Draft, Draft, Final	Email, HC, & EC
6	QAPP Addendum	R	-	R	R	R	Α	С	С	С	С	С	С	С	С	С	I	I	Ι	Ι	R	R	-	Preliminary Draft, Draft, Final	Email, HC, & EC
7	Work Plans/Reports/Studies	R	-	R	R	R	Α	С	С	С	С	С	С	С	С	Ι	Ι	I	Ι	Ι	R	R	-	Preliminary Draft, Draft, Final	Email, HC, & EC
8	Project Meeting Agendas	R	-	R	R	R	Α	С	I	I	С	I	С	Ι	I	Ι	I	I	Ι	Ι	I	I	I	1 week prior to mgt	Email
9	Project Meeting Notes	R	-	R	R	R	Α	С	I	I	R	I	I	Ι	I	R*	R*	R*	R*	R*	R*	R*	I	2 weeks after mgt	Email
10	Monthly Progress Reports	R	-	R	R	R	Α	С	I	I	I	I	I	Ι	I	I	I	I	Ι	I	I	Ι	-	as needed	Phone/Email
11	Teleconferences	R	-	R	R	R	Α	С	I	I	С	I	I	Ι	I	Ι	Ι	I	Ι	Ι	Ι	Ι	-	bi-weekly	Phone

- Legend:
- RReview/Approve DocumentAAccountable for PreparationCConsult on Preparation
- I Inform/Participate

* Note: Regulators, RVAAP and USAEC will receive project meeting notes where they are involved.

EC = Electronic copy

HC = Hard copy

APPENDIX D

COMMENT RESPONSE TABLE

(to be included in the Final version)