

TARHEEL ARMY MISSILE PLANT

Army Cleanup Program

Installation Action Plan Final

June 2024

TABLE OF CONTENTS

STATEMENT OF PURPOSE3

INSTALLATION OVERVIEW4

ACRONYMS5

PHASE TRANSLATION TABLE6

PROGRAM SUMMARY7

SITE-LEVEL INFORMATION.....8

37805.1013_TAMP-13_AST BLDG 2 POL WST 9

SITE SUMMARY 11

SITE CLOSEOUT SUMMARY 12

COMMUNITY INVOLVEMENT 13

FIVE-YEAR / PERIODIC REVIEW SUMMARY 14

STATEMENT OF PURPOSE

The Installation Action Plan (IAP) provides evidence that the Army is firmly committed to expeditious identification and cleanup of environmental contamination, and that the installation has a credible, organized program to carry out that commitment. The IAP provides an outline of the total multi-year environmental cleanup program for each site with ongoing or future planned restoration activity and includes the (1) environmental restoration requirements, (2) the rationale for the selected technical approach, and (3) foundation to develop corresponding financial needs for each cleanup site.

INSTALLATION OVERVIEW

Installation Name: TARHEEL ARMY MISSILE PLANT

Installation City: BURLINGTON

Installation County: ALAMANCE

Installation State: NC

Regulatory Participation - Federal: USEPA

Regulatory Participation - State: North Carolina Department of Environment and Natural Resources (NCDENR)

ACRONYMS

Acronym	Definition
CC	Compliance-related Cleanup
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CRL	Cleanup Restoration & Liabilities
CVOC	Chlorinated Volatile Organic Compounds
ENV	Environmental
FS	Feasibility Study
FYR	Five-Year Review
GSA	General Services Administration
HRS	Hazard Ranking Score
IAP	Installation Action Plan
IR	Installation Restoration
IRA	Interim Remedial Action
LTM	Long-Term Management
MR	Munitions Response
MRSPP	Munitions Response Site Prioritization Protocol
NCDEQ	North Carolina Department of Environment Quality
NPL	National Priorities List
PA	Preliminary Assessment
PR	Periodic Review
RAB	Restoration Advisory Board
RA(C)	Remedial Action (Construction)
RA(O)	Remedial Action (Operations)
RC	Response Complete
RD	Remedial Design
RI	Remedial Investigation
RIP	Remedy-In-Place
RRSE	Relative Risk Site Evaluation
SC	Site Closeout
SI	Site Inspection
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compound
TAMP	Tarheel Army Missile Plant
TAPP	Technical Assistance for Public Participation

PHASE TRANSLATION TABLE

CERCLA Phase	RCRA Phase	RCRA UST Phase
Preliminary Assessment (PA)	RCRA Facility Assessment (RFA)	Initial Site Characterization (ISC)
Site Inspection (SI)	Confirmation Sampling (CS)	Investigation (INV)
Remedial Investigation/ Feasibility Study (RI/FS)	RCRA Facility Investigation/Corrective Measures Study (RFI/CMS)	Corrective Action Plan (CAP)
Remedial Design (RD)	Design (DES)	Design (DES)
Interim Remedial Action (IRA)	Interim Measure (IM)	Interim Remedial Action (IRA)
Remedial Action (Construction) (RA(C))	Corrective Measures Implementation (Construction) (CMI(C))	Implementation (Construction) (IMP(C))
Remedial Action (Operations) (RA(O))	Corrective Measures Implementation (Operations) (CMI(O))	Implementation (Operations) (IMP(O))
Long-Term Management (LTM)	Long-Term Management (LTM)	Long-Term Management (LTM)

PROGRAM SUMMARY

Number of Open Sites with Response Complete/Total Open IR Sites: 0/1

Number of Open Sites with Response Complete/Total Open MR Sites: 0/0

Number of Open Sites with Response Complete/Total Open CC Sites: 0/0

SITE-LEVEL INFORMATION

37805.1013_TAMP-13_AST BLDG 2 POL WST

Env Site ID: TAMP-13

Cleanup Site: AST BLDG 2 POL WST

Alias: TAMP-13

Regulatory Driver: CERCLA

RIP Date: 8/25/2026

RC Date: 8/25/2026

RC Reason: Not assigned

SC Date: 8/26/2026

Program: ENV Restoration, Army

Subprogram: IR

NPL Status: No

Hazardous Ranking Score: 0

RRSE: High

MRSPP: N/A

Phase	Start	End
PA:	5/31/1980	4/30/1990
SI:	9/30/1991	9/15/2015
RI/FS:	8/26/2016	8/25/2026
RD:	--	--
IRA:	--	--
RA(C):	--	--
RA(O):	--	--
LTM:	--	--

Site Narrative: The Tarheel Army Missile Plant (TAMP) facility occupies approximately 32 acres within the city limits of Burlington, North Carolina. The facility consists of 22 buildings complete with utilities and parking lots. Between the years of 1942-1944 the property was acquired by the federal government and used by the Fairchild Aircraft Corporation for the construction of AT-21 aircraft. From 1944 to 1945, the property was used for its tank rebuilding program. The land was declared surplus and was transferred to the General Services Administration (GSA) in 1945. Between 1957-1962, GSA transferred TAMP to the Department of the Army. From 1962-1992, the Department of the Army assigned responsibility for TAMP to the Army Aviation and Missile Life Cycle Management Command Redstone Arsenal. The lease expired on March 31, 1992. During the lease period from 1951 to 1992, various electronic systems were manufactured by the contractor for the federal government. The GSA sold the facility in 2004 and it was used for storage of secondhand items. The property ownership was then transferred to another contractor who is demolishing the facility structures for salvage and property resale. The site TAMP-13 waste accumulation pad and aboveground storage tank contributed to the chlorinated volatile organic compounds (CVOC)/semi-volatile organic compounds (SVOC) contamination in soil/groundwater. In 2004, the North Carolina Department of Environment Quality (NCDEQ) issued a notice of violation for the groundwater/ soil contamination at TAMP. A soil vapor extraction/air sparging (SVE) system was installed to address the contamination. The Army transferred the property and agreed to perform remediation of the solvent plume(s). The property is no longer leased. The SVE system has been turned off and the wells were abandoned in 2013. The latest site document is the October 2013 Groundwater Sampling and Site Activities Update Report. The property is currently owned by a real estate developer who is demolishing the structures. During FY15 the Savannah Corps of Engineers performed a sampling event at the installation that included off-post surface water samples, sediment samples, and a renewed attempt to drill three off-post groundwater wells.

This sampling event confirmed the presence of CVOCs within the TAMP boundary and the appearance that contaminants are migrating offsite toward the west-northwest as noted in the Former Army Missile

Plant Chlorinated Solvent Plume Sampling Report September 2015. In response to these findings, it was recommended that a remedial investigation (RI)/feasibility study (FS) be completed. The US Army Environmental Command began an environmental restoration project on Aug. 26, 2016. The RI/FS that was conducted between August 2016-2021 did not fully delineate the plume. Soil vapor gases were sampled near residential homes to ensure that there was not a risk from vapor intrusion. The results did not show a risk to residential homes, but the state requested additional sampling to be included under the RI/FS follow on project. A new project was kicked off in September 2021 to finalize the RI with the work plan being approved by the state in January 2022.

An additional round of soil vapor gas sampling was taken around residential homes and didn't show a risk for vapor intrusion. NCDEQ approved the RI addendum in July 2023 completing the remedial investigation phase. The state approved the work plan for the site in December 2023. This work plan covers the feasibility study, proposed plan through record of decision. On Nov. 30, 2023 an Environmental Justice meeting was held for this site sponsored by the National Institute of Health. More than 100 attendees were present from multiple government agencies, non-profits, community groups, state, county, and local levels. The Army presented on the current status and planned schedule moving forward. The exit strategy is to complete the RI/FS and proposed plan/record of decision. Future actions will be determined at the end of the RI/FS phase.

SITE SUMMARY

SITE CLOSEOUT SUMMARY

CRL ID	Site Name	Site Closeout Date
37805.1001	TAMP-01_PHOTO LAB BLDG 2	4/30/1990
37805.1002	TAMP-02_PHOTO LAB BLDG 16	9/30/1999
37805.1003	TAMP-03_CHEMICAL LAB BLDG 11	4/30/1990
37805.1004	TAMP-04_CHEMICAL LAB BLDG 20	4/30/1990
37805.1005	TAMP-05_ELECTRONIC COMPONENT LAB	4/30/1990
37805.1006	TAMP-06_STRG OF FLAMMABLE LIQ BLDG 19	4/30/1990
37805.1007	TAMP-07_INDUST CHEM STG BLDG 22	9/30/1999
37805.1008	TAMP-08_COMPRESSED GAS STG BLDG 28	4/30/1990
37805.1009	TAMP-09_RAD SOURCES BLDG 4	4/30/1990
37805.1010	TAMP-10_RAD SOURCES BLDG 16	4/30/1990
37805.1011	TAMP-11_RAD SOURCES BLDG 13	4/30/1990
37805.1012	TAMP-12_SANITARY SEWER OUTFALLS	9/30/1995
37805.1014	TAMP-14_NEUTRALIZATION TNK BLDG 23	9/30/1995
37805.1015	TAMP-15_INDUSTRIAL WASTEWATER TRT SYS	9/30/1995
37805.1016	TAMP-16_STORMWATER OUTFALLS	4/30/1995
37805.1017	TAMP-17_DRUMS 55 GAL STD AT DUKE POWER C	9/30/1995
37805.1018	TAMP-18_DEEP WATER WELL	9/30/1995
37805.1019	TAMP-19_UST BLDG 19	9/30/1999
37805.1020	TAMP-20_UST-2, BLDG 19	9/30/1999
37805.1021	TAMP-21_UST-3, BLDG 19	9/30/1999
37805.1022	TAMP-22_UST-1, BLDG 12	4/30/1992
37805.1023	TAMP-23_UST-2, BLDG 12	4/30/1992
37805.1024	TAMP-24_UST 1 BLDG 20	9/30/1999
37805.1025	TAMP-25_UST-1, BLDG 5	4/30/1990
37805.1026	TAMP-26_UST-2, BLDG 5	4/30/1990
37805.1027	TAMP-27_UST-3, BLDG 5	6/30/1995
37805.1028	TAMP-28_UST 1 BLDG 16	9/30/1999

COMMUNITY INVOLVEMENT

Community Involvement Plan (Date Last Reviewed):	8/31/2015
Technical Review Committee Establishment Date:	N/A
Restoration Advisory Board (RAB) Establishment Date:	N/A
RAB Adjournment Date:	N/A
RAB Adjournment Reason:	N/A
Reasons for Not Establishing RAB:	Lack of outstanding cleanup issues or activities does not warrant establishment of a RAB
RAB Date of Solicitation from Community:	N/A
RAB Results of Solicitation:	N/A
Current Technical Assistance for Public Participation (TAPP):	N/A
TAPP Title:	N/A
Potential TAPP:	N/A
Administrative Record Location:	N/A
Information Repository Location:	N/A

FIVE-YEAR / PERIODIC REVIEW SUMMARY

Status	Review Type	Start Date	End Date	Plans Narrative	Actions Narrative	Results Narrative
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A