



JBLE—Eustis, Virginia

**VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
(VPDES)
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM
(MS4) PERMIT**

ANNUAL REPORT

for

**Virginia General Permit for Small Municipal Separate Storm
Sewer Systems VPDES Permit #VAR040035**

Reporting Period: 01 July 2023 – 30 June 2024

733d Civil Engineering Squadron
Environmental Element CEIE
1407 Washington Blvd
Fort Eustis, VA



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List of Acronyms and Abbreviations

733 CES/CEIE	733 Civil Engineer Squadron/Environmental Element
AAFES	Army and Air Force Exchange Service
AEM	Advanced Environmental Management
BMP	Best Management Practice
CGP	Construction General Permit
EMAC	Environmental Management Awareness and Competency
EMP	Environmental Management Procedure
EMS	Environmental Management System
ESC	Erosion and Sediment Control
FOG	Fats, Oil and Grease
FSE	Food Service Establishment
GIS	Geographic Information System
HRPDC	Hampton Roads Planning District Committee
IDDE	Illicit Discharge Detection and Elimination
ISO	International Organization of Standardization
JBLE–Eustis	Joint Base Langley Eustis – Eustis
MCM	Minimum Control Measure
MFH	Military Family Housing
MS4	Municipal Separate Storm Sewer System
NMP	Nutrient Management Plan
O&M	Operation and Maintenance
POC	Pollutants of Concern
PY	Permit Year
RLD	Responsible Land Disturber
SC	Special Condition
SS	Sanitary Sewer
SSO	Sanitary Sewer Overflow
SWM	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
TA	Training Area
TEACH	The Environmental Awareness Course Hub
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
VAC	Virginia Administrative Code
VDEQ	Virginia Department of Environmental Quality
VESCL	Virginia Erosion and Sediment Control Law
VESCP	Virginia Erosion and Sediment Control Program
WOAC	Warrant Officers Advanced Course

Municipal Separate Storm Sewer System Registration Statement

As required by Part IV.K.2. of General Permit No. VAR040035, all reports required by state permits and other information requested by the board shall be signed by a principal executive office or ranking elected official as described in Part IV.K.1.c., or a duly authorized representative.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Type or Print the following information:

Name: Miguel L. Capellan Area Code and Telephone No.: (757) 878-3642

Official Title: Director, 733 Civil Engineering Squadron

Signature: _____ Date Signed: _____

Permit Number: VAR040035 MS4 Name: JBLE–Eustis

Introduction

Joint Base Langley-Eustis Eustis (JBLE–Eustis), Virginia, holds a General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4), General Permit No. VAR040035, issued by the Commonwealth of Virginia Department of Environmental Quality (VDEQ) on 01 November 2023. In accordance with provisions outlined in this MS4 permit, JBLE–Eustis staff has continued to implement their comprehensive Stormwater Management Program designed to prevent or reduce the discharge of sediment and other pollutants into the installation's stormwater conveyance system. General Permit No. VAR040035 Part I.D requires JBLE–Eustis to evaluate the MS4 program on an annual basis to assess program compliance, the appropriateness of the identified Best Management Practices (BMP), and progress towards achieving the identified measurable goals.

This report describes the progress and status of the JBLE–Eustis MS4 Program during Permit Year (PY) 1 from 01 July 2023 to 30 June 2024.

Storm System Information

Permit Holder:

Commanding Officer, 633 Air Base Wing
JBLE–Eustis
Fort Eustis, Virginia

Facility Information

JBLE–Eustis
Fort Eustis, Virginia
MS4 General Permit No. VAR040035

Mailing Address

Director, 733 Civil Engineering Squadron
1407 Washington Blvd.
Fort Eustis, VA 23604

Population Served

The total population attached to the installation is approximately 22,090, comprised of approximately 7,160 military personnel and 11,428 dependents, as well as approximately 3,500 civilian non-residents who commute to the installation daily.

MS4 Service Area

JBLE–Eustis is located adjacent to the City of Newport News, Virginia which is part of the Hampton Roads metropolitan area. The installation is located on Mulberry Island, a small peninsula bordered by the James River to the west, Warwick River to the east, and Skiffes Creek toward the north. Smaller waterbodies on or bordering the installation include Jail Creek, Morrison's Creek, Island Creek, Bailey Creek, and Eustis Lake. The installation occupies approximately 8,000 acres and houses a variety of military organizations and support activities. Most of the development is located at the northern end of the installation, while the southern portion of the peninsula remains largely undeveloped. A golf course and an airfield are located near the center of the installation.

The installation does not rely on another government entity to satisfy MS4 permit obligations. In addition, no program approvals are required as specified in Part I.C.5. of the MS4 permit.

Local Plans and Policies

JBLE–Eustis has developed and implements local plans and policies in order to comply with the MS4 permit. These programs and guidance documents are listed below.

- JBLE–Eustis Environmental Policy Statement (7 February 2022)
- JBLE–Eustis Environmental Management Procedures (EMP) (updated annually)
- JBLE–Eustis Illicit Discharge Detection and Elimination Procedures (2024)
- JBLE–Eustis Structural BMP Inventory, Annual Inspection and Management Plan (2024)
- JBLE–Eustis MS4 Program Plan (latest full revision conducted in 2024, but the plan is updated annually)
- Phase III Chesapeake Bay Total Maximum Daily Load (TMDL) Action Plan (draft-2024)
- Bacteria TMDL Action Plan
- High-Priority Non-Industrial Stormwater Pollution Prevention Plans (SWPPP)
 - Pines Golf Course Maintenance Facility SWPPP (2024)
 - AAFES Gas Station SWPPP (2024)
- JBLE–Eustis Pines Golf Course Maintenance Facility Nutrient Management Plan (NMP) (2021)

Commonwealth Programs

In addition to the local programs that the installation is implementing, there are commonwealth programs established by Virginia Department of Environmental Quality (VDEQ), which are also being implemented. These programs are listed below.

- **Erosion and Sedimentation Program** – The Virginia Erosion and Sediment Control Law (VESCL) delegates the authority to administer a Virginia Erosion and Sediment Control Program (VESCP) to local municipalities. This is an optional requirement and JBLE–Eustis has not developed VESCP standards and specifications, so all land disturbing activities 10,000 square feet or greater are inspected as defined in § 62.1-44.15:51 of the Code of Virginia. The installation utilizes EMP 4.4.6.2.2, Stormwater Management, to outline roles and responsibilities, as well as procedures related to erosion and sediment control (ESC) in compliance with the VESCP.
- **Post Construction Stormwater Management** – The Virginia Stormwater Management Act (VSMA) delegates the authority to administer a Virginia Stormwater Management Program (VSMP) to local municipalities. This is an optional requirement and JBLE–Eustis has not developed VSMP standards and specifications, so instead implement a post-construction stormwater runoff control program through compliance with Title 9, Agency 25, Chapter 870 of the Virginia Administrative Code (VAC) (9VAC25-870) 25-870 and implementation of a maintenance and inspection program consistent with MS4 Permit Part I.E.5.b.
- **Stormwater Permitting Program** – The VDEQ Water Division implements the Stormwater Permitting Program to develop, plan, and implement commonwealth-wide stormwater control policies, strategies, and rules designed to protect the commonwealth surface waters from the impacts of stormwater pollutants and runoff.

MS4 Program Plan

The installation maintains an MS4 Program plan in accordance with Permit# VAR040035 which is updated regularly and available on the 733d CES/CEIE website for public use. In PY1 the plan had modifications to meet the new permit requirements and language, and some editing for clarification and general ease of use. There were also new good housekeeping standard operating procedures added to the program this permit year, as well as an updated installation training plan.

Minimum Control Measures

MCM 1: Public Education and Outreach

JBLE–Eustis implements a public education and outreach program to educate the installation community on the impacts of stormwater discharges, and how to reduce stormwater pollution, placing priority on reducing impacts to impaired waters, and other local water pollution concerns. CEIE staff aims to increase the public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications; and also implements a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.

JBLE–Eustis utilizes a combination of relevant messages and outreach materials to educate target audiences for each of the three high priority water quality issues, as well as other stormwater topics of interest. These high-priority stormwater issues did not change in this permit year due to the fact that constant education is necessary to all personnel on the installation due to the high rates of turn-over of soldiers and airmen as they and their families are moving in and out of housing due to changes in duty stations.

The installation CEIE used a minimum of two of the strategies listed in Permit Part I.E.1.d, Table 1 - Strategies for Public Education and Outreach as detailed in Table 1 of this report. Additional details are included in the JBLE–Eustis MS4 Program Plan.

Based on an assessment of the program achievements for MCM 1 outlined in Table 1 below and the summary of actions used to address the High Priority Issues detailed in Table 1 of this report, the installation Public Education and Outreach Program effectively achieves permit compliance. However, based on an analysis of some of the sanitary sewer overflows that are observed in MCM3, CEIE staff has realized the need to implement other strategies to educate MFH residents that fats, oils, and grease in the drain is not acceptable. The CEIE office personnel has been working with Hampton Roads Sanitation District (HRSD) to provide reminders to residents via promotional items and advertising on social media and through direct emails from the housing office. CEIE staff is investigating the logistics of providing additional written pamphlets and promo items in welcome packets for new residents as they move in to MFH.

Table 1. Public Education and Outreach

MCM 1: Public Education and Outreach		
Permit Reference	Required Action(s)	PY1 Measurable Goal(s)
Part I.E.1.g(1)	A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program.	<ol style="list-style-type: none"> 1. Curb illegal fats, oils, and grease (FOG) disposal at food service establishments (FSE), including food trucks, and military family housing (MFH) to the stormwater drainage system. 2. Curb illegal dumping within MFH and the dormitories. 3. Responsible pet ownership/picking up pet waste.
Part I.E.1.g(2)	A summary of the public education and outreach activities conducted for PY1, including the strategies used to communicate the identified high-priority issues	<ol style="list-style-type: none"> 1. A summary of activities is shown in Table 2 below. 2. Traditional written materials: Handouts during public events. 3. Alternative materials: Pet waste bags/holders, “Scrape Your Plate” clip/magnet, FOG drain catch, coloring books 4. Signage: FOG Management in FSEs. 5. Social Media Campaigns (See Attachment 1 for more information) 6. Personnel training opportunities
Part I.E.1g(3)	A description of any changes in the high-priority stormwater issues, and a rationale for any changes.	The high priority water quality issues for JBLE–Eustis did not change for PY1. CEIE staff felt that these were still important concerns.
Part I.E.1g (4)	A description of public education and outreach activities conducted that included education regarding climate change.	<div style="background-color: black; height: 15px; width: 100%;"></div> <div style="background-color: black; height: 15px; width: 100%;"></div> <div style="background-color: black; height: 15px; width: 100%;"></div>

Table 2: JBLE–Eustis High Priority Water Quality Issues

JBLE – Eustis High Priority Water Quality Issues	
<p>High Priority Issue 1: Curb illegal fats, oils, and grease (FOG) disposal at food service establishments (FSE), including food trucks, and military family housing (MFH) to the stormwater drainage system.</p> <p><i>Target Audience:</i> JBLE– Eustis FSE workers, food truck vendors, and installation residents.</p> <p><i>Goal:</i> Provide information regarding proper washing procedures to target audience.</p>	<ol style="list-style-type: none"> 1. FSEs must have two workers trained in FOG management using the training provided by Hampton Roads Planning District Committee (HRPDC) at www.hrfog.com. (Part I E.1.d Table 1 – Training Materials) 2. Food truck workers may take either the HRPDC FOG training or must have ServSafe training before entering into a contract with AAFES. 3. Signage is posted in kitchens regarding FOG BMPs and grease management. (Part I E.1.d Table 1 – Signage) 4. Recommendations for FOG management have been provided to entities performing food preparation related activities (Part I E.1.d Table 1 - Signage). 5. JBLE–Eustis’ Environmental Facebook page published a post informing the public on storm drain awareness and another post to properly dispose of FOG waste and not to pour it directly into kitchen sinks. 6. JBLE–Eustis provided various outreach materials (e.g., coloring books, magnets/clips, pamphlets, drain strainers) to FSE personnel during outreach events conducted in PY1. (Part I.E.1.d, Table 1 – Alternative Materials)
<p>High Priority Issue 2: Curb illegal dumping within MFH and the dormitories.</p> <p><i>Target Audience:</i> JBLE– Eustis MFH residents and dormitory residents.</p> <p><i>Goal:</i> Provide information regarding proper disposal procedures to target audience.</p>	<ol style="list-style-type: none"> 1. Stormwater pollution prevention training was provided to installation personnel (active duty, civilian, and contractor). Training activities include Environmental Management Awareness and Competency (EMAC) and Advanced Environmental Management (AEM). 2. The EMAC course is provided in an online format through The Environmental Awareness Course Hub (TEACH) website (https://usaf.learningbuilder.com) and is required for all installation personnel within 30 days of arrival and annually thereafter. 3. Both the initial training and the annual the AEM refresher training is provided virtually via TEACH. 733 CES/EE also provided environmental awareness training, including stormwater pollution prevention training, for the US Army Transportation School, Advanced Marine Warrant Officers Advanced Course (WOAC).
<p>High Priority Issue 3: Responsible Pet Ownership/Picking up Pet Waste</p> <p><i>Target Audience:</i> JBLE–Eustis resident primarily at Family Housing, and at the outdoor recreation area.</p> <p><i>Goal:</i> Provide information regarding responsible pet ownership and picking up after dogs.</p>	<ol style="list-style-type: none"> 1. 733 CES/CEIE developed educational materials related to responsible pet ownership and picking up after dogs and distributed them at events/locations residents visited (e.g., Earth Week/Day, dog parks, MFH offices, Halloween events). Handouts provide a means for residents to contact the Stormwater Program Manager with any questions or concerns. Additional education materials include pet waste bags/ bag holders which are provided at many areas on the installation for pet owners to utilize. Education and outreach information is also conveyed through the installation’s website (https://www.jble.af.mil/Units/Army/EustisEnviromental). 2. Residents must also submit an application, register pets, pay a registration fee, and sign a receipt acknowledging rules of the community dog park, which require owners to clean-up after their pets. Signs are posted inside the dog park regarding pet waste management, and a large trash can is provided for pet waste disposal.

MCM 2: Public Involvement/Participation

The installation provides a website which has contact information and is a place for the public to learn how to report potential illicit discharges, improper disposal, or spills to the MS4, complaints regarding land disturbing activities, or other potential stormwater pollution questions or concerns, as well as learn about opportunities and items of interest. On the website, CEIE staff encourages the public to provide input on JBLE–Eustis’ MS4 Program Plan, TMDL action plans, NEPA reviews, and goals and status reports of the environmental restoration program. CEIE staff answers all inquiries within 3 business days when possible and maintains all written comments or requests as public record. Staff also utilizes the webpage and social media as well as flyers and posters to inform the public about events they can be involved with and volunteering opportunities.

During the Permit period the Natural Resources (NR) office of the CEIE has had three (3) civilian volunteers for various projects:

- A volunteer assisted for a total of 24 hours over 3 months conducting vegetation and bird surveys in the mixed open habitat restoration areas that were planted for pollutant reductions for the Chesapeake Bay TMDL goals.
- A second volunteer has been a long-standing volunteer and is assisting CEIE/NR nearly every Tuesday. In total, he has spent approximately 106 hours during the permit period on natural resources activities related to native vegetation restoration and similar tasks. He has created no-mow signs for the TMDL restoration areas, inventoried and photographed pollinator and native grass habitats, conducted early succession bird surveys and submitted insect photos for identification. These surveys provide the means to index the success of habitat visually, as well as an ecological response to the restoration. He assisted in planting approximately 86 seedlings in various habitats, to include at least 36 oak trees in the mixed-open conversion that is being converted to forest in the coming two years. Has performed mechanical invasive vegetation control, marked invasive removal locations, and hand transplanted well over 100 native forbs grown at our office to be planted behind invasive species removal across the installation.
- A third volunteer has installed six (6) monofilament fishing line collection tubes and informational signage at installation fishing locations. This should significantly reduce fishing related litter going into the James and Warwick Rivers and Eustis and Brown’s Lake. Volunteer time is about 6 hours

JBLE–Eustis has taken steps to implement the program BMPs as specified in Part I.E.2 of the MS4 permit. Based on an assessment of the program achievements for MCM 2 outlined in Table 3 below, the installation’s Public Involvement/Participation Program effectively achieves permit compliance.

Table 3: MCM 2: Public Involvement / Participation

MCM 2: Public Involvement / Participation		
Permit Reference	Required Action(s)	PY5 Measurable Goal(s)
Part I.E.2.i(1)-(2)	A summary of any public input on the MS4 Program received (including stormwater complaints) and how the permittee responded.	JBLE–Eustis posted documents related to the MS4 Program on the JBLE–Eustis Environmental website (https://www.jble.af.mil/Units/Army/Eustis-Enviromental/) for public review and comment. There were no comments received on the MS4 Program in PY1. Contact information for 733 CES/CEIE staff (CEIE) is also posted to the website if there are further comments or questions from the public.
Part I.E.2.i(3)	Maintain a website with the MS4 Program and stormwater pollution prevention.	The 733 CES/CEIE maintains a website (https://www.jble.af.mil/Units/Army/Eustis-Enviromental/) that: <ol style="list-style-type: none"> 1. Provides information to the public, including the MS4 Permit, Program Plan, and Annual Reports. 2. Includes a mechanism for the public to report potential illicit discharges, improper disposal, or spills to the MS4, complaints regarding land disturbing activities, or other potential stormwater pollution concerns. 3. Includes methods for how the public can provide input on the permittee's MS4 program plan.
Part I.E.2.i(5)	A description of the public involvement activities implemented by the permittee, including any efforts to reach out to and engage all economic and ethnic groups.	See Table 4 for details. JBLE–Eustis encourages all civilians, soldiers, and military families to participate in public involvement opportunities
Part I.E.2.i(6)	A description of public education and outreach activities related to climate change education.	<div style="background-color: black; height: 1.2em; width: 100%;"></div> <div style="background-color: black; height: 1.2em; width: 100%;"></div> <div style="background-color: black; height: 1.2em; width: 100%;"></div>
Part I.E.2(7)	A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality.	See Table 4 for details.
Part I.E.2.i(8)	The name of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities.	JBLE–Eustis did not collaborate with other MS4 permittees during PY1.

Table 4: JBLE–Eustis Public Involvement Opportunities PY1

Date	Event	Audience/ Participants	# Attending (Metric)	Materials/Goodies Distributed	Location	Metric	Other	Involvement Type	Improves Water Quality?
20-Sep	International Coastal Cleanup	Active-duty personnel, Civilians	20	N/A	Harrison Rd & Eustis Lake	At least 20 volunteers can participate in a clean-up event	220 lbs. of trash collected	Restoration	Yes – prevents stormwater from carrying trash and debris into the river
27-Oct	Trunk or Treat	Military families, Civilians	500	Reusable bottles, reusable lunch boxes, reusable straws, reusable storage bags, pet waste holders, brochures	128th Aviation Brigade School House	Have meaningful communications with >100 civilians, soldiers, and families about pollution prevention	Messages: Scoop the Poop, pollution prevention, FOG	Educational	Yes – meaningful conversations about pollution prevention can alter polluting behaviors
22-Apr	Tree Planting	Active-duty military, Civilians	13	N/A	Matthew Jones House	Have meaningful communications with >100 civilians, soldiers, and families about pollution prevention	Plantings reduce erosion [REDACTED]	Restoration	Yes – Provides community ownership for environmental restoration and stewardship
23-Apr	Nature Walk-n-Talk	Military families, Civilians	4	N/A	Nature Trail	Have meaningful communications with >100 civilians, soldiers, and families about pollution prevention	N/A	Educational	Yes – meaningful conversations about pollution prevention can alter polluting behaviors
24-Apr	Clean the Bay Day	Active Duty, Personnel, Civilians	21	Reusable storage bags (Please provide anything other materials distributed)	Shoreline along Harrison Road	At least 20 volunteers can participate in a clean-up event	420 lbs. of trash collected	Restoration	Yes – prevents stormwater from carrying trash and debris into the river
25-Apr	Wildlife Boat Tours	Active Duty, Personnel, Civilians	26	Reusable storage bags	3rd Port – Skiffes Creek	Have meaningful communications with >100 civilians, soldiers, and families about pollution prevention	N/A	Educational	Yes – meaningful conversations about pollution prevention can alter polluting behaviors
26-Apr	Earth Day Social	Military families, Civilians	110	Pet waste holders, FOG drain catch, coloring books, FOG chip clips	Military Family Housing	Have meaningful communications with >100 civilians, soldiers, and families about pollution prevention	Informational displays and, crafts, seed packets	Educational	Yes – meaningful conversations about pollution prevention can alter polluting behaviors
4-Jun	Free giveaway	Active-duty personnel and military families	100	HRSD pot scrapers	Military Family Housing	Have meaningful communications with >100 civilians, soldiers, and families about pollution prevention	In response to FOG awareness		Yes – meaningful conversations about pollution prevention can alter polluting behaviors
10-Jun	Fifth Grade School Presentations	Fifth Graders and Teachers	95	Stickers, magnets, activity books	McIntosh Elementary School	Have meaningful communications with >100 civilians, soldiers, and families about pollution prevention	Plantings reduce erosion [REDACTED]	Educational	Yes – meaningful conversations about pollution prevention can alter polluting behaviors

MCM 3: Illicit Discharge Detection and Elimination

The installation implements and enforces a program to detect and eliminate illicit discharges into the MS4. The *JBLE–Eustis Illicit Discharge Detection and Elimination Procedures* contains the most up-to-date requirements and is posted on the website. JBLE–Eustis has taken steps to implement the IDDE program BMPs as specified in Part I.E.3 of the MS4 permit. Based on an assessment of the program achievements for MCM 3 outlined in Table 5 below, the installation IDDE/Spill Program effectively achieves permit compliance.

Permit Part I.E.3.a(1) requires that JBLE–Eustis maintain a stormwater drainage system map that shows the location of all MS4 outfalls as well as the name and location of all waters receiving discharges from the MS4 outfalls and the associated hydrologic unit code. JBLE–Eustis’ stormwater conveyance system consists of sheet flow areas, swales, ditches, and pipes. The installation has mapped the stormwater system as well as the structural BMPs and outfalls into a geodatabase using Geographic Information System (GIS)

Table 5: MCM 3: Illicit Discharge Detection and Elimination

MCM 3: Illicit Discharge Detection and Elimination		
Permit Reference	Required Action(s)	PY1 Measurable Goal(s)
Part I.E.3.e(1)	Confirmation statement that the MS4 map and outfall information table have been updated to reflect any changes	733 CES/CEIE staff continuously updates the JBLE–Eustis stormwater drainage system map and the outfall information table.
Part I.E.3.e(2)	The total number of outfalls screened during the reporting period as part of the dry weather screening program.	<ol style="list-style-type: none"> 1. Fifty (50) of the 83 non-industrial outfalls were inspected during PY1. (Note: The inspections were completed in accordance with the 2022 Illicit Discharge Detection and Elimination Procedures, prior to a 2024 update to the procedures. Details regarding the inspection findings are included on the outfall inspection forms and in the Dry Weather Outfall Monitoring Report. 2. Copies of the outfall inspection records are maintained by 733 CES/CEIE and will be made available upon request. 3. The JBLE–Eustis Illicit Discharge Detection and Elimination Procedures were updated to reflect changes to the MS4 service area and non-industrial outfalls. The 2024 Illicit Discharge Detection and Elimination Procedures have been posted to the JBLE–Eustis Environmental website.
Part I.E.3.e(3)	A list of illicit discharges to the MS4 including spills reaching the MS4.	<ol style="list-style-type: none"> 1. Refer to Table 6 for details regarding the illicit discharges to JBLE–Eustis during PY1. 2. JBLE–Eustis personnel utilized the 2024 Illicit Discharge Detection and Elimination Procedures to investigate potential illicit discharges. 3. Reports of all spills or unauthorized releases incidents, whether it enters the MS4 or not, are recorded in the spill database by the 733 CES/CEIE Spill Program Manager in accordance with JBLE–Eustis EMP 4.4.7, Spill Prevention and Response. Detailed descriptions of each of the illicit discharge investigations and/or spills are included in Attachment 2.

Table 6: Illicit Discharges on JBLE–Eustis PY1 (See details in Attachment 2) including MS4 Areas:

Date of Spill	Source	Location	Discovery Method	Resolution Method	Follow-up Activities	Date of Closure
6-Jul-2023	Less than 0.25 gallon of diesel fuel from exhaust ports of pile driving equipment.	3 rd Port Marina (industrial area)	Pile driver misfire	Contractors cleaned up the diesel fuel with spill pads and HAZMAT socks.	The clean-up material was disposed of as hazardous waste in a sealed 55-gallon drum.	03-Aug-2023
04-Oct-2023	~ 4 oz of hydraulic fluid	3 rd Port Marina (industrial area)	Discharge due to human error	Contractors immediately cleaned up the spill using absorbent pads.	The clean-up material was disposed of as hazardous waste in a sealed 55-gallon drum.	18-Oct-2023
31-Oct-2023	Diesel fuel transfer from vessel to day tank.	3 rd Port Marina (industrial area)	Fuel level indicator failure	Soldiers used absorbents found in spill kit material to clean up spill	The clean-up material was disposed of as hazardous waste in a sealed 55-gallon drum.	07-Nov-2023
09-Nov-2023	Approximately one (1) cup of hydraulic fluid from a hydraulic line on the vessel.	Landing ramp N of Landship TA office (Ind. Area).	Discharge due to faulty procedure	The crew applied absorbents and used a boom to recover the spilled material.	The clean-up material was disposed of as hazardous waste in a sealed 55-gallon drum.	17-Nov-2023
22-Dec-2023	Residual oil within a scrap metal bin. Bin overtopped by heavy rainfall.	Eustis Logistic Readiness Center (B 1411)	Discharge due to natural causes and faulty procedure	The contaminated stormwater discharged to an outfall. The unit cleaned up the bin, the surrounding area, and at the end of the outfall pipe.	A storm drain filter was installed in nearby storm inlet. The clean-up material was disposed of as hazardous waste in a sealed 55-gallon drum.	28-Dec-2023
28-Dec-2023	Approximately one (1) gallon of diesel during a transfer from the vessel to a vent pipe. Pipe overflowed due to overfilling.	3 rd Port Marina (industrial area)	Discharge due to human error	The majority of the spill leaked onto the deck of the vessel, with some spilling into the creek. The crew used absorbent pads and a boom to recover the spilled material.	The clean-up material was disposed of as hazardous waste in a sealed 55-gallon drum.	04-Jan-2024
25-Feb-2024	Sanitary sewer overflow (SSO) from sanitary sewer (SS) manholes in an unquantified volume untreated wastewater.	between the street and the lift station at B 188	Resident reported incident, ASUS investigation found sewer blockage	ASUS shutdown the lift station and dispatched a vacuum truck to remove the blockage and applied lime to neutralize the contaminated water.	Staff discussing ways to educate housing residents about trashing fats.	26-Feb-2024
28-Mar-2024	Unknown type and unknown capacity of fuel during unloading operations.	Landing ramp north of Landship TA office (Ind Area).	Discharge due to human error	Booms were deployed in the water, HAZMAT socks and pads were applied to the surrounding ground surface, and absorbent mats were deployed at the truck unloading area.	The clean-up material was disposed of as hazardous waste in a sealed 55-gallon drum.	28-Mar-2024
10-June 24	20 gallons of raw sewage due to sanitary sewer overflow; about 1 gal made it to storm inlet	Near pump station on Wilson Ave	Resident reported incident, ASUS investigation found sewer blockage	Cleaned up by American State Utility Service (ASUS)	ASUS planned to jet the line, vacuum the free water and apply lye for mitigation. CEIE addressed concern with MFH.	21 June 24

MCM 4: Construction Site Stormwater Runoff Control

The installation complies with the Virginia Stormwater Management Program through compliance with the Construction Site Runoff Controls. These controls are designed to assist with the development, implementation, and enforcement of an Erosion and Sediment Control (ESC) Program to reduce the pollutants related to land-disturbing activities including clearing, grading, or excavation that results in a land disturbance equal to or greater than 10,000 acres. The installation has taken steps to implement the program BMPs as specified in Part I.E.4 of the MS4 permit. Based on an assessment of the program achievements for MCM 4 outlined in Table 7 below, the installation’s approach effectively achieves permit compliance.

Table 7: MCM 4: Construction Site Stormwater Runoff Control

MCM 4: Construction Site Stormwater Runoff Control		
Permit Reference	Required Action(s)	Measurable Goal(s)
Part I.E.4.d(1)	Total number of inspections conducted.	The total number of internal Construction General Permit (CGP) inspections conducted in PY1 is 47.
Part I.E.4.d(2)	The total number and type of enforcement actions implemented and the type of enforcement actions.	The PY1 internal CGP inspections did not result in any enforcement actions.
Part I.E.4.e(3)(a-b)	A confirmation statement that land disturbing activities that occurred during the reporting period were conducted in accordance with current department annual standards and specifics for ESC.	All land disturbing projects that occurred during the reporting period have been conducted in accordance with the current standards and specifications for ESC. No land disturbing activities were conducted without VDEQ approved standards and specifications.

MCM 5: Post-Construction Stormwater Management in New Development and Development on Prior Developed Lands

The installation implements and enforces a program to address stormwater runoff related to new development and redevelopment projects throughout the service area, including a combination of structural and non-structural BMPs. In addition, JBLE–Eustis is required to ensure that the structural BMPs are functional through long term operation and maintenance (O&M) practices. The installation has taken steps to implement the program BMPs as specified in Part I.E.5 of the MS4 permit. Based on an assessment of the program achievements for MCM 5 outlined in Table 8 below, the installation’s approach effectively achieves permit compliance.

Table 8: MCM 5: Post-Construction Stormwater Management in New Development and Development on Prior Developed Lands

MCM 5: Post-Construction Stormwater Management in New Development and Development on Prior Developed Lands		
Permit Reference	Required Action(s)	PY1 Measurable Goal(s)
Part I.E.5.e(2)	Total number of inspections conducted on stormwater management facilities owned or operated by JBLE–Eustis.	Qualified personnel inventoried and completed annual inspections of 121 BMPs for PY1.
Part I.E.5.e(3)	A description of the significant maintenance, repair, or retrofit activities performed on the stormwater management facilities.	Below is a list of significant BMP maintenance completed across the installation. <ul style="list-style-type: none"> • Removing undesirable vegetation (e.g., trees, phragmites, cattails) • Unclogging inlet and outlet devices/pipes • Re-establishing grass cover • Stabilizing existing erosion • Correcting displaced rip rap
Part I.E.5.e(5)	Provide a confirmation statement of BMP implementation using the VDEQ BMP Warehouse.	New BMPs implemented ,as applicable, were electronically reported using the VDEQ BMP Warehouse in with accordance with Part III.B.1-2 in PY1. Any new BMPs implemented after the submittal date of 01 October 2023 will be electronically reported no later than 01 October 2024.
Part I.E.5.e(6)	Provide a confirmation statement of reporting BMP inspections using the VDEQ BMP Warehouse.	New BMPs inspected as applicable were electronically reported using the VDEQ BMP Warehouse in with accordance with Part III.B.5. Any new BMPs inspections after the submittal date of 01 October 2023 will be electronically reported no later than 01 October 2024.

MCM 6: Pollution Prevention / Good Housekeeping for Municipal Operations

The installation implements a program to address pollution prevention and good housekeeping procedures, including a training program for installation personnel and the JBLE–Eustis community. JBLE–Eustis has taken steps to implement the program BMPs as specified in Part I.E.6 of the MS4 permit. Based on an assessment of the program achievements for MCM 6 outlined in Table 9 below, the installation’s approach effectively achieves permit compliance.

Stormwater pollution prevention training was provided to installation personnel (i.e., active duty, civilian, and contractor). Training activities include EMAC and AEM training.

1. The EMAC course is provided in an online format through the TEACH website (<https://usaf.learningbuilder.com>) and is required for all installation personnel within 30 days of arrival and annually thereafter.
2. The initial AEM training and annual refresher AEM training is provided online via TEACH.

The Environmental Element provided environmental awareness training, including stormwater pollution prevention training, for the US Army Transportation School, Advanced Marine WOAC. Training was made available via the TEACH website during PY1.

Newcomer’s orientation was given to enlisted and newly assigned officers and contained sections pertaining to Environmental Management System (EMS), stormwater, and associated required trainings.

Additional relevant environmental courses were available to personnel on TEACH. These courses cover the following environmental topics: water; wastewater; spill response; and petroleum, oils and lubricant management.

Table 9: MCM 6: Pollution Prevention / Good Housekeeping for Municipal Operations

MCM 6: Pollution Prevention / Good Housekeeping for Municipal Operations		
Permit Reference	Required Action(s)	PY1 Measurable Goal(s)
Part I.E.6.y(1)	A summary of any operational procedures developed or modified: Implementation of EMS and Implementation of Environmental Management Procedures (EMP).	<ul style="list-style-type: none"> JBLE–Eustis utilizes an EMS that conforms to International Organization of Standardization (ISO) 14001:2004, to manage environmental program requirements. All installation environmental and management requirements are codified in JBLE–Eustis EMPs. EMPs have been developed and are used to implement the Environmental Program. These EMPs are reviewed and updated on an annual basis. EMPs that are related to the Stormwater Management Program include: <ul style="list-style-type: none"> EMP 4.4.2 Environmental Awareness & Competency Training EMP 4.4.6.2 Wastewater-Stormwater Management EMP 4.4.6.5 Pollution Prevention EMP 4.4.6.6 Installation Hazardous Materials Program – IHMP EMP 4.4.6.7 Solid Waste and Recycling Management EMP 4.4.6.12 Integrated Pest Management EMP 4.4.6.14 Storage Tank Management – AST and UST EMP 4.4.6.16 Contracting JBLE–Eustis Environmental Special Conditions EMP 4.4.7 Spill Prevention and Response EMP 4.5.2 Activity Inspections EMPs are posted on the JBLE–Eustis Environmental website (https://www.jble.af.mil/About-Us/Units/Army/Eustis-Enviromental/EMPs/).
Part I.E.6.y(2)	A confirmation statement that all high-priority SWPPPs were reviewed to determine if SWPPP coverage is needed.	All high-priority facilities were reviewed during PY1 to determine if SWPPP coverage was needed.
Part I.E.6.y(3)-(5)	A list of new SWPPPs developed or modified in accordance with Part I.E.6.i, 6.l, or the rationale of any high-priority facilities delisted in accordance with Part I.E.6.i or 6.m during the reporting period.	<ul style="list-style-type: none"> No new high-priority MS4 facility SWPPPs were developed during PY1. High-priority non-industrial facilities included in the SWPPP: Pines Golf Course Maintenance Facility and AAFES Gas Station/Car Wash. They are routinely, no less than annually, to reflect minor changes in procedure and potential pollutant exposures, as needed. They were last reviewed in May 2024. No high-priority SWPPPs were delisted during PY1.
Part I.E.6.y(6)	A summary of the status of each NMP as of 30 June	<ul style="list-style-type: none"> Pines Golf Course Maintenance Facility – Valid through 01 August 2026
Part I.E.6.y(7)	A list of the training events conducted in accordance with Part I.E.6.d, including the following information: (a) The date of the training event; (b) The number of employees who attended the training event; and (c) The objective of the training event.	Refer to Table 10 for details related to training events conducted during PY1.

Table 10: 2023 - 2024 Stormwater Pollution Prevention Training Events

Event Name	Envir Staff POC	Date(s) of Event	Number of Participants	Environmental Area Covered
Newcomers Brief	Rob Gucwa	11-Jul-23	13	EMS, Training, SW,PP
Newcomers Brief	Chris McDaid	10-Aug-23	16	EMS, Training, SW,PP
Newcomers Brief	James Hayes	23-Aug-23	24	EMS, Training, SW,PP
Newcomers Brief	Suzanne Dyba	12-Sep-23	38	EMS, Training, SW,PP
Newcomers Brief	Jay Carr	26-Sep-23	43	EMS, Training, SW,PP
7th Brigade Readiness Safety Symposium	Jazmin Argarin	11-Oct-23	120	Pollution Prevention and Spills
Newcomers Brief	Rob Gucwa	17-Oct-23	36	EMS, Training, SW,PP
Newcomers Brief	Rob Gucwa	17-Oct-23	36	EMS, Training, SW,PP
359th ICTC in 10th Battalion	James Hayes	2-Nov-23	70	Good Housekeeping, Pollution Prevention, IDDE
Newcomers Brief	Christensen	7-Nov-23	36	EMS, Training, SW,PP
Newcomers Brief	Jay Carr	12-Dec-23	26	EMS, Training, SW,PP
Newcomers Brief	Jay Carr	9-Jan-24	32	EMS, Training, SW,PP
Newcomers Brief	Chris McDaid	27-Feb-24	41	EMS, Training, SW,PP
Newcomers Brief	James Hayes	12-Mar-24	27	EMS, Training, SW,PP
Newcomers Brief	Suzanne Dyba	26-Mar-24	37	EMS, Training, SW,PP
Newcomers Brief	James Hayes	9-Apr-24	33	EMS, Training, SW,PP
Newcomers Brief	Rob Gucwa	23-Apr-24	28	EMS, Training, SW,PP
Newcomers Brief	Adam Priestley	7-May-24	31	EMS, Training, SW,PP
Newcomers Brief	Courtney Birkett	21-May-24	16	EMS, Training, SW,PP
Newcomers Brief	Jay Carr	3-Jun-24	21	EMS, Training, SW,PP
Newcomers Brief	Suzanne Dyba	25-Jun-24	46	EMS, Training, SW,PP
EMAC	Virtual	7/1/23-6/30/24	1560	Good Housekeeping, Pollution Prevention, IDDE
IDDE Specific Training	Virtual	7/1/23-6/30/24	219	Pollution Prevention/IDDE
Good Housekeeping Training	Virtual	7/1/23-6/30/24	212	Good Housekeeping, Pollution Prevention, IDDE
AEM Initial/Refresher	Virtual	7/1/23-6/30/24	147	EMS, Training, SW,PP
Hazardous Materials	Virtual	7/1/23-6/30/24	116	Hazmat, Hazwaste, Env Training Requirements

Special Conditions

SC1: TMDL Special Conditions Compliance for the Chesapeake Bay TMDL

Part II.A of the MS4 permit requires the installation to prepare a Chesapeake Bay TMDL Action Plan that demonstrates plans to meet the required reductions of the pollutants of concern. JBLE–Eustis’ Draft Phase III Chesapeake Bay TMDL Action Plan was developed during PY1 in preparation for the submittal deadline of 01 November 2024 per Part II.A.12.b.

The Action Plan presents the JBLE–Eustis estimated load contribution, required load reductions and pollutant reduction credits. The plan also reported progress made toward meeting the 100% cumulative pollutant reduction requirement for the first, second, and third MS4 permit cycles.

The Chesapeake Bay TMDL Action Plan Implementation Status Memo summarizes the actions taken during PY1 and is provided under separate cover as required in Part I.D.6 of the permit.

SC2: TMDL Special Conditions Compliance other than the Chesapeake Bay TMDL

Part II.B.2 of the MS4 permit, requires the installation to maintain a TMDL Action Plan for pollutants allocated to the MS4 in an approved TMDL.

As part of maintaining its MS4 Program Plan, JBLE–Eustis has updated the Bacteria TMDL Action Plan to address bacteria impairment in those water bodies. The installation’s MS4 Program Plan has incorporated the TMDL Action Plan that identify the BMPs and other interim milestone activities. The 2017 TMDLs, which became final on 09 February 2018, include updated information on the listing status of assessment units according to the 2014 305(b)/303(d) Water Quality Assessment Integration Report and assign a waste load allocation (WLA) for bacteria to JBLE–Eustis. The WLA is a portion of the TMDL and represents the allowable load a permittee may discharge to the waterbody and still meet water quality standards.

The Bacteria TMDL Action Plan Implementation Status Memo summarizes the actions taken during PY1 and is included as Attachment 3. Implementation will continue in the next permit year under the permit.

Attachment 1:
JBLE–Eustis PY1 Outreach

23-24 Social Media Outreach Supporting the JBLE-Eustis MS4 Permit

Date	Topic	Message Developer	Impressions	Reach	Engagement
6/17/2024	Fifth graders from George J. McIntosh Elementary School had an exciting day learning about environmental stewardship with experts from #TeamJBLE!	JBLE-Eustis	N/A	23	5
6/13/2024	Where Does it all Go?	Ask HRGreen	35	32	2
6/7/2024	Wetlands do a lot for us	Chesapeake Bay Program	N/A	12	2
6/4/2024	Earth Day Tree planting	JBLE-Eustis	N/A	18	9
6/4/2024	Article "What not to Flush"	Virginia Plot/ask HRGreen	N/A	14	3
4/19/2024	Earth Day Opprtunities	Ask HRGreen	N/A	27	5
4/16/2024	Bag it, Trash it! Scoop the Poop	JBLE-Eustis	43	33	5
4/11/2024	Household Chemical collections and Computer Recycling - VPPSA	JBLE-Eustis	59	47	9
3/26/2024	Four Favorite Places on the Virginia Bird and Wildlife Trail	Elizabeth River Project	N/A	N/A	N/A
3/25/2024	Schedule of Earth Week Events	JBLE-Eustis	55	42	7
3/22/2024	8 ways YOU can help protect our waterways	HRSD	N/A	N/A	N/A
3/14/2024	Pollinator and wildflower Event	Newport News Parks Division	N/A	N/A	N/A
3/8/2024	Article about mulch dye in the river	Elizabeth River project	N/A	N/A	N/A
3/5/2024	Pollution Removal from Urban Trees	Newport News Green Foundation	N/A	N/A	N/A
3/7/2024	Flooding Safety	NOAA	45	38	3
2/5/2024	JBLE-Eustis Plastic Bag Recycling Competition	JBLE-Eustis	62	50	13
1/20/2024	Annual JBLE-Eustis and Native American Consultation	JBLE-Eustis	N/A	N/A	N/A
12/18/2023	Rain Barrels	Chesapeake Bay Program	N/A	N/A	N/A
12/7/2023	Beware the Grease Grinch!	Ask HRGreen	60	50	7
12/7/2023	Appreciating Winter Wildlife in the Chesapeake Bay Watershed	JBLE-Eustis	29	22	3
12/1/2023	Join the Christmas Bird count	Audubon Society	31	26	4
10/20/2023	Don't put food in the kitchen drains	Ask HRGreen	N/A	N/A	N/A
10/10/2023	Virignia's polystyrene ban	JBLE-Eustis	29	20	4
10/3/2023	Storm Drains Flow to Waterways	Ask HRGreen	N/A	N/A	N/A
9/12/2023	Newport News nonprofit building an edible forest	WHRO	43	31	6
9/6/2023	International Coastal Cleanup at JBLE-Eustis	JBLE-Eustis	148	125	5

Attachment 2:
Illicit Discharge Investigation/Spill Details

Installation Details						Points of Contact			
Installation:	JB Langley-Eustis	Service/Command:	ACC	State:	VA	Type	Name	Email	Phone
Sub Location:	Eustis	Branch:	East Branch	EPA Region:	3	Author	ARGARIN, JAZMIN M CIV USAF ACC 733 MSG/CEIE	jazmin.argarin@us.af.mil	
		ISS:	JBLE			Additional	HAYES, JAMES B CIV USAF ACC 733 MSG/CEIE		
						Additional	CARVETH, JONATHAN T CIV USAF ACC 733 MSG/CEIE		

Spill Details	
Fiscal Year:	2023
Classification:	Reviewable
Closed Date:	08/03/2023 7:33:57
Reported to HAF?:	Yes
Report to HAF Determination Date:	07/28/2023
Read/Received Date:	07/28/2023
Estimated Clean-up Date:	07/26/2023
Updated in EASIER:	08/03/2023
Entered in EASIER:	07/27/2023
Spill/Release Date:	07/26/2023 13:30
Was the release cleaned up within 24 hours?:	Yes
Did process owner have sufficient clean-up capabilities?:	Yes
Class:	N/A
Overall Root Cause:	(U) Unknown
Specific Root Cause:	(U1) Unknown
Equipment/Facility Involved:	Geoquip D46 Hammer/3rd Port
Equipment Type:	Other (Add Description Below)
Aircraft Type	N/A
FES Incident Number	N/A
Cause of Release	Accidental Discharge due to Equipment Failure

Description:

On July 27 at 14:50 the Fort Eustis Environmental Element was notified of a spill that occurred at our 3rd Port Marina. Around 13:50 the contractor (Cianbro) working on the 3rd port upgrades, was turning off a piece of pile driving equipment (Geoquip D46 Diesel Hammer), during this shutdown process the equipment misfired causing <0.25 gallon of diesel fuel to be released via the exhaust ports; the diesel fuel was released into Skiffes Creek. The fuel release with within the construction framework, the contractor was quickly able to clean up the spill with no additional assistance utilizing spill pads and socks. The National Response Center was notified at 16:50 and the incident report # 1374283. No enforcement action is expected to take place.


Location Map

Reset Map

Latitude: 37.1676215413362

Longitude: -76.6070064855739

MapSatellite



Google

Installation Details					
Installation:	JB Langley-Eustis	Service/Command:	ACC	State:	VA
Sub Location:	Eustis	Branch:	East Branch	EPA Region:	3
		ISS:	JBLE		

Spill Details	
Fiscal Year:	2024
Classification:	Reviewable
Closed Date:	10/18/2023 13:22:04
Reported to HAF?:	Yes
Report to HAF Determination Date:	10/06/2023
Read/Received Date:	10/05/2023
Estimated Clean-up Date:	10/04/2023
Updated in EASIER:	10/18/2023
Entered in EASIER:	10/05/2023
Spill/Release Date:	10/04/2023 15:30
Was the release cleaned up within 24 hours?:	Yes
Did process owner have sufficient clean-up capabilities?:	Yes
Class:	CLASS I: Area < 2 lineal ft in any plane dimension.
Overall Root Cause:	(E) Personnel - Execution
Specific Root Cause:	(E3) Personnel understood requirement, but forgot to act / Inattention to detail
Equipment/Facility Involved:	LSV1
Equipment Type:	Other (Add Description Below)
Aircraft Type	N/A
FES Incident Number	1268
Cause of Release	Accidental Discharge due to Human Error
Description:	

On 4 Oct 23, maintenance personnel were working on the hydraulic system of a davit onboard a ship docked at the 3rd Port area on JBLE-Eustis. The maintenance workers did not depressurize the system prior to disconnecting a hydraulic line causing a hydraulic fluid mist to be released into the air and subsequently Skiffe’s Creek. Most of the fluid was contained on the dock, approximately a half of cup of hydraulic fluid was released into Skiffe’s Creek. The fluid was immediately cleaned up using absorbent pads. Appropriate regulatory notifications were executed, and no enforcement actions are expected.

A safety stand down was implemented at the site to make contractors aware or safety requirements and remind them of procedures in place. NRC Report notified, NRC #1380949

Points of Contact			
Type	Name	Email	Phone
Author	<u>CARR, JAMES A CIV USAF ACC 733 MSG/CEIEC</u>	james.carr.30@us.af.mil	

Location Map

Reset Map

Latitude:

37.1666804470411

Longitude:

-76.6092960914548



Installation Details					
Installation:	JB Langley-Eustis	Service/Command:	ACC	State:	VA
Sub Location:	Eustis	Branch:	East Branch	EPA Region:	3
		ISS:	JBLE		

Spill Details	
Fiscal Year:	2024
Classification:	Reviewable
Closed Date:	11/07/2023 8:02:47
Reported to HAF?:	Yes
Report to HAF Determination Date:	11/06/2023
Read/Received Date:	11/01/2023
Estimated Clean-up Date:	11/01/2023
Updated in EASIER:	11/07/2023
Entered in EASIER:	11/01/2023
Spill/Release Date:	10/31/2023 9:30
Was the release cleaned up within 24 hours?:	Yes
Did process owner have sufficient clean-up capabilities?:	Yes
Class:	CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.
Overall Root Cause:	(I) Infrastructure
Specific Root Cause:	(I2) Defective or failed equipment
Equipment/Facility Involved:	3rd Port
Equipment Type:	Vessel Fuel tank
Aircraft Type	N/A
FES Incident Number	N/A
Cause of Release	Accidental Discharge due to Equipment Failure
Description:	Soldiers assigned to LSV-1 were conducting an internal transfer from the vessels main fuel tank to a day tank when the fuel level indicator failed casuing the tank to overfill and discharge through the vent pipe onto the deck, and eventually into Skiffes Creek.

Points of Contact			
Type	Name	Email	Phone
Author	JAMES, PAUL A CIV USAF ACC 733 MSG/CEIEC	paul.james.4@us.af.mil	

Location Map

Reset Map

Latitude: 37.1667113174884

Longitude: -76.6095843292929

MapSatellite

Google

Installation Details					
Installation:	JB Langley-Eustis	Service/Command:	ACC	State:	VA
Sub Location:	Eustis	Branch:	East Branch	EPA Region:	3
		ISS:	JBLE		

Spill Details	
Fiscal Year:	2024
Classification:	Reviewable
Closed Date:	11/17/2023 13:26:43
Reported to HAF?:	Yes
Report to HAF Determination Date:	11/13/2023
Read/Received Date:	11/13/2023
Estimated Clean-up Date:	11/09/2023
Updated in EASIER:	11/17/2023
Entered in EASIER:	11/09/2023
Spill/Release Date:	11/09/2023 14:20
Was the release cleaned up within 24 hours?:	Yes
Did process owner have sufficient clean-up capabilities?:	Yes
Class:	CLASS I: Area < 2 lineal ft in any plane dimension.
Overall Root Cause:	(I) Infrastructure
Specific Root Cause:	(I3) Improper equipment installation
Equipment/Facility Involved:	LCM-8525
Equipment Type:	Other (Add Description Below)
Aircraft Type	Other (Add Description Below)
FES Incident Number	N/A
Cause of Release	Accidental Discharge due to Faulty Procedure

Description:

Hydraulic line to landing ramp winch was not properly torqued and released approximately 1 cup of hydraulic fluid into crease of landing ramp and into Skiffe's Creek. The crew responded by applying absorbents and placing an absorbent boom around the bow of the vessel. The boom will remain in place until at least monday 13 Nov 23. The NRC was notified and assigned the incident report # 1383890

Points of Contact			
Type	Name	Email	Phone
Author	HAYES, JAMES B CIV USAF ACC 733 MSG/CEIE	james.hayes.40@us.af.mil	
Additional	ARGARIN, JAZMIN M CIV USAF ACC 733 MSG/CEIE		
Additional	CARVETH, JONATHAN T CIV USAF ACC 733 MSG/CEIE		
Additional	CALDER, DONALD W JR CIV USAF ACC 733 MSG/733 CES/CEIE		

Location Map

Reset Map

Latitude: 37.1721971745546

Longitude: -76.6028356647514

MapSatellite



Installation Details					Points of Contact				
Installation:	JB Langley-Eustis	Service/Command:	ACC	State:	VA	Type	Name	Email	Phone
Sub Location:	Eustis	Branch:	East Branch	EPA Region:	3	Author	HAYES, JAMES B CIV USAF ACC 733 MSG/CEIE	james.hayes.40@us.af.mil	
		ISS:	JBLE			Additional	CALDER, DONALD W JR CIV USAF ACC 733 MSG/733		
						Additional	CARR, JAMES A CIV USAF ACC 733 MSG/CEIEC		
						Additional	CARVETH, JONATHAN T CIV USAF ACC 733 MSG/CEIE		

Spill Details				
Fiscal Year:	2024			
Classification:	Reviewable			
Closed Date:	12/28/2023 6:11:32			
Reported to HAF?:	Yes			
Report to HAF Determination Date:	12/27/2023			
Read/Received Date:	12/27/2023			
Estimated Clean-up Date:	12/22/2023			
Updated in EASIER:	12/28/2023			
Entered in EASIER:	12/27/2023			
Spill/Release Date:	12/22/2023 10:00			
Was the release cleaned up within 24 hours?:	Yes			
Did process owner have sufficient clean-up capabilities?:	Yes			
Class:	CLASS II: Area < 10 lineal ft in any plane dimension, or < 50 sq ft and not a continuous nature.			
Overall Root Cause:	(F) External Factors			
Specific Root Cause:	(F2) Weather or ambient condition			
Equipment/Facility Involved:	Scrap metal bin on NW side of B1411			
Equipment Type:	Other (Add Description Below)			
Aircraft Type	N/A			
FES Incident Number	N/A			
Cause of Release	Accidental Discharge due to Faulty Procedure			

Description:

Accumulation of rainwater occurred in scrap metal bin due to heavy rain overwhelmed the capacity of the sloped bottom of the bin and carried a small amount of residual oil from the bottom of the bin into a stormwater inlet and downstream to an outfall. All of the oil was captured in a low spot at the end of the outfall pipe. The unit cleaned up the bin and area around it and all oil that accumulated in the low spot at the end of the outfall was recovered with absorbents. Assigned NRC report #1387349.


Location Map

Reset Map

Latitude: 37.1505760907826

Longitude: -76.5917190703664

MapSatellite



GoogleThe Pines Golf Course at Fort Eustis

Keyboard shortcutsMap DataTermsReport a map error

Installation Details					
Installation:	JB Langley-Eustis	Service/Command:	ACC	State:	VA
Sub Location:	Eustis	Branch:	East Branch	EPA Region:	3
		ISS:	JBLE		

Spill Details	
Fiscal Year:	2024
Classification:	Reviewable
Closed Date:	01/04/2024 6:09:11
Reported to HAF?:	Yes
Report to HAF Determination Date:	12/28/2023
Read/Received Date:	12/28/2023
Estimated Clean-up Date:	12/28/2023
Updated in EASIER:	01/04/2024
Entered in EASIER:	12/28/2023
Spill/Release Date:	12/28/2023 10:15
Was the release cleaned up within 24 hours?:	Yes
Did process owner have sufficient clean-up capabilities?:	Yes
Class:	CLASS II: Area < 10 lineal ft in any plane dimension, or < 50 sq ft and not a continuous nature.

Overall Root Cause:	(E) Personnel - Execution
Specific Root Cause:	(E3) Personnel understood requirement, but forgot to act / Inattention to detail

Equipment/Facility Involved:	LSV-31
Equipment Type:	Other (Add Description Below)
Aircraft Type	N/A
FES Incident Number	23-177
Cause of Release	Accidental Discharge due to Human Error

Description:

During transfer of diesel on a LSV-vessel a vent pipe overflowed due to overfilling. Approximately one gallon of Diesel fuel leaked onto the deck with some spilling into the water. Absorbant pads and a boom were immediaetly deployed to recover the spilled material. NRC was notified.

Points of Contact			
Type	Name	Email	Phone
Author	CARR, JAMES A CIV USAF ACC 733 MSG/CEIEC	james.carr.30@us.af.mil	
Additional	CARVETH, JONATHAN T CIV USAF ACC 733 MSG/CEIE		
Additional	CALDER, DONALD W JR CIV USAF ACC 733 MSG/733 CES/CEIE		
Additional	HAYES, JAMES B CIV USAF ACC 733 MSG/CEIE		

Location Map

Reset Map

Latitude: 37.1664028331285Longitude: -76.6083551669039

MapSatellite

Keyboard shortcuts | Map Data | Terms | Report a map error

Installation Details					
Installation:	JB Langley-Eustis	Service/Command:	ACC	State:	VA
Sub Location:	Eustis	Branch:	East Branch	EPA Region:	3
		ISS:	JBLE		

Spill Details	
Fiscal Year:	2024
Classification:	Reviewable
Closed Date:	02/26/2024 14:55:47
Reported to HAF?:	Yes
Report to HAF Determination Date:	02/26/2024
Read/Received Date:	02/26/2024
Estimated Clean-up Date:	02/25/2024
Updated in EASIER:	02/26/2024
Entered in EASIER:	02/26/2024
Spill/Release Date:	02/25/2024 22:00
Was the release cleaned up within 24 hours?:	Yes
Did process owner have sufficient clean-up capabilities?:	Yes
Class:	CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.
Overall Root Cause:	(I) Infrastructure
Specific Root Cause:	(I2) Defective or failed equipment
Equipment/Facility Involved:	Building 132
Equipment Type:	Lift Station
Aircraft Type	N/A
FES Incident Number	NA
Cause of Release	Accidental Discharge due to Equipment Failure
Description:	NRC reporting number: 139-23-74

The Wastewater Lift Station (a pump that moves wastewater "uphill") located on 23rd Street (Bldg. 188) located behind living quarters Bldg. 139 moves water from the lower-lying areas on and around Stillwell Avenue. This Lift Station pumps the wastewater to a high point somewhere in the proximity of Madison and from that point is gravity fed to the HRSD pump station at Hank's Yard for removal off the installation.

A Fort Eustis resident (unknown) called Balfour-Beatty about "water coming up from a manhole" who in turn called ASUS. ASUS investigation discovered a blockage in the wastewater pipe in the proximity of living quarters Bldg. 368 Gross Street that was causing the piping leading back to the Lift Station to back-up, thereby causing the wastewater to flow up from the manholes between the area of Gross Street and the Lift Station on 23rd Street. Further investigation by ASUS and FE F&ES discovered that an undetermined amount of the backed-up wastewater had made it into a storm drain located on 23rd Street behind living quarters Bldg. 131. There was an undetermined amount of standing wastewater around several of the effected manholes and street gutters that indicated areas where the wastewater had backed-up.

ASUS shutdown the lift station and dispatched their vacuum truck to remove the blockage and started putting down lime to neutralize the contaminated water. Fort Eustis Environmental was dispatched as well, and Ms. Mackenzie Philips arrived on scene. She advised she was going to notify the NRC (National Reporting Center) since some (undetermined but assumed very small amount) of the wastewater made it into the storm drain. The scene was turned over to Ms. Philips and Mr. McDade for clean up and inspection; Fire Department units returned to service.

Points of Contact			
Type	Name	Email	Phone
Author	PHILLIPS, MACKENZIE A CIV USAF ACC 733 MSG/CEIE	mackenzie.phillips.2@us.af.mil	


Location Map

Reset Map

Latitude: 37.1620484130496

Longitude: -76.5692621102206

MapSatellite



Installation Details					Points of Contact				
Installation:	JB Langley-Eustis	Service/Command:	ACC	State:	VA	Type	Name	Email	Phone
Sub Location:	Eustis	Branch:	East Branch	EPA Region:	3	Author	GUCWA, ROBERT J CIV USAF ACC 733 MSG/CEIEC	robert.gucwa.1@us.af.mil	
		ISS:	JBLE			Location Map			

Spill Details	
Fiscal Year:	2024
Classification:	Reviewable
Closed Date:	03/28/2024 15:45:33
Reported to HAF?:	Yes
Report to HAF Determination Date:	03/28/2024
Read/Received Date:	03/28/2024
Estimated Clean-up Date:	03/28/2024
Updated in EASIER:	03/28/2024
Entered in EASIER:	03/28/2024
Spill/Release Date:	03/28/2024 11:05
Was the release cleaned up within 24 hours?:	Yes
Did process owner have sufficient clean-up capabilities?:	Yes
Class:	CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.
Overall Root Cause:	(I) Infrastructure
Specific Root Cause:	(I2) Defective or failed equipment
Equipment/Facility Involved:	Commercial Tractor trailer
Equipment Type:	Vehicle Fuel Tank
Aircraft Type	N/A
FES Incident Number	Not available at this time.
Cause of Release	Accidental Discharge due to Human Error
Description:	

Unit conducting military operations by unloading causeway docks from commercial semi-trailers. Harbor Master noticed unknown fuel around loading area and in the water.

FES located area where fuel spill occurred. There is no way to estimate how much fuel was on the ground and from where it leaked due to the heavy rain. Engine 14 crew checked the Kalmar rough terrain cargo handler for any active leaks. No leaks were identified. The Harbor Master believes one of the commercial tractor trailers could have leaked fuel when it delivered the portable causeway sections to 3rd Port.

Booms were deployed in the water to contain and absorb the suspected fuel. Hazmat spill socks and pads were deployed on the ground surface to absorb any visible material and large absorbent mats were deployed at the truck unloading area to prevent any future spills/leaks for the remainder of the operation.

Location Map

Reset Map

Latitude:

37.1712766172291

Longitude:

-76.6026008218405

Map

Satellite

Google

Keyboard shortcuts | Map Data | Terms | Report a map error

Installation Details

Installation:JB Langley-Eustis

Sub Location:Eustis

Service/Command:ACC

Branch:East Branch

ISS:JBLE

State:VA

EPA Region:3

Spill Details

Fiscal Year:2024

Classification:Reviewable

Closed Date:06/21/2024 9:29:56

Reported to HAF?:Yes

Report to HAF Determination Date:06/17/2024

Read/Received Date:06/17/2024

Estimated Clean-up Date:06/10/2024

Updated in EASIER:06/21/2024

Entered in EASIER:06/17/2024

Spill/Release Date:06/10/2024

Was the release cleaned up within 24 hours?:Yes

Did process owner have sufficient clean-up capabilities?:Yes

Class:CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.

Overall Root Cause:(T) Training & Awareness

Specific Root Cause:(T3) Personnel trained but did not fully understand requirement

Equipment/Facility Involved:Sewage Treatment

Equipment Type:Lift Station

Aircraft TypeN/A

FES Incident Number24-0764

Cause of ReleaseAccidental Discharge due to Human Error

Description:

A grease blockage formed ~10 ft upstream of the pump station. The blockage caused a discharge of sewage from the collar of the 1st manhole upstream of the pump station, which filtered out the solids. An estimated 20 gallons was spilled with less than one gallon reaching a stormwater outfall. The water portion accumulated on the bike path along Wilson Ave. and down through the woods to a stream that empties into the Warwick River. ASUS was able to clear the blockage @ 1630. ASUS further planned to jet the whole affected line, vacuum up the free water and apply lye for cleanup/mitigation

Points of Contact

Type	Name	Email	Phone
Author	CARR, JAMES A CIV USAF ACC 733 MSG/CEIEC	james.carr.30@us.af.mil	
Additional	CARVETH, JONATHAN T CIV USAF ACC 733 MSG/CEIE		
Additional	HAYES, JAMES B CIV USAF ACC 733 MSG/CEIE		
Additional	CALDER, DONALD W JR CIV USAF ACC 733 MSG/733 CES/CEIE		

Location Map

Reset Map

Latitude:37.1459671165031

Longitude:-76.579543689644

MapSatellite

Google

Keyboard shortcuts | Map data ©2024 Google Imagery ©2024 Airbus, Maxar Technologies | Terms | Report a map error

Attachment 3:
Warwick River and Skiffe's Creek Bacteria TMDL Action Plan Implementation
Progress Report

JBLE–Eustis
Compliance Summary Statement TMDL Special Conditions
Warwick River and Skiffe's Creek Bacteria TMDL Action Plan Implementation
Progress for JBLE–Eustis
Permit Report Year 1: 1 July 2023 – 30 June 2024

JBLE–Eustis has taken several actions to reduce bacteria and address various sources on the installation. Completed or ongoing actions taken by JBLE–Eustis include the following:

- The installation manages wetlands surrounding airfields that would attract wildlife and present bird/animal aircraft strike hazard (BASH) safety concerns. Management of wetlands can reduce habitat for waterfowl and other wildlife that have the potential to contribute bacteria to the Warwick River. Active bird and animal population management including BASH.
- Livestock and pet sources are controlled through BMPs at the horse stables, stable bedding and horse manure are collected by patrons and stored in a roll-off bin located on site, then disposed of by a contractor off-site.
- Pet waste stations are available in residential areas and at the community dog park.
- Pet waste bag dispensers are made available to residents throughout the year and distributed at environmental awareness events where residents are briefed on the impact of pet waste on stormwater and water quality. The pet waste bags and bag holders distributed at events are available for residents free of charge at the Military Family Housing (MFH) office.
- Illicit discharges and sewer line leaks into the MS4 are being monitored by the spill response program through MCM3.

Sanitary sewer work by Old Dominion Utility Services (ODUS)

American States Utility Services, Inc. (ASUS) through its regulated subsidiary, Old Dominion Utility Services (ODUS), owns, operates, and maintains the water and wastewater systems at the Fort Eustis installation of Joint Base Langley-Eustis (JBLE). Wastewater is discharged under Industrial Wastewater Discharge Permit No. 0505 to a Hampton Roads Sanitation District (HRSD) owned lift station located on the Installation and is then pumped to the HRSD system for treatment. In 2014, HRSD notified all federal facilities connected to their collection system that an Administrative Order would be issued to address inflow and infiltration (I/I) sources, and in 2015, an Inflow and Infiltration (I/I) Order was issued to Fort Eustis.

Since that time, Fort Eustis, in partnership with the system owner ODUS, has completed the requirements of Milestones 1-8. Milestone 8 was approved by HRSD in October 2020, and an updated Order was issued with requirements set for completing Milestone 9. Under Milestone 9, Currently, there are nine (9) completed projects, three (3) groups of active projects, and two (2) groups of planned projects. ODUS is working with the Air Force Civil Engineering Command (AFCEC) and the Installation to compile the individual segments of the collection system that were identified for repair or replacement under Milestone 8, into complete projects that can be funded by Fort Eustis, and either bid out to subcontractors or completed by ODUS' crew. Project development is first focused on areas that were identified for significant Inflow and Infiltration or Priority 1, and also complete any P2 or P3 work in those areas to

minimize disruption to those who live and work on the Installation.

Storm Sewer Disconnects: These projects included construction activities specified in the rehabilitation plan that target I&I reduction in the system through disconnection of storm sewer cross connects. Construction at a number of these locations has been completed, including Buildings 465, 824, 1607, 1608, Jackson Avenue, and Gross Street. These projects were funded by the Installation in September 2022 and were completed in 2023.

Inactive Sewer Removal: These projects included construction activities specified in the rehabilitation plan that target I&I reduction in the system through removal of inactive sanitary sewer that was identified as contributing to I&I within the system. This includes removal of sanitary sewer, and properly disconnecting and capping it at the downstream manhole, adjacent to the amphitheater/Building 455, Schultz Place, Lee Boulevard, Monroe Avenue, Patton Avenue, and 11th Street. These projects were funded by the Installation in September 2022 and were completed in 2023.

The installation is currently programming the removal of the remaining septic fields by extending the sanitary sewer infrastructure to the southern areas of the installation. The project will eliminate the operational heavy septic system by connecting these areas to the existing collection system, reducing long-term preventive maintenance, potential environmental issues, and ultimate failure associated with a drain field system.