



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917

<http://www.epa.gov/region8/stormwater>

STORMWATER ANNUAL REPORT FORM

This form is for regulated small MS4s (Municipal Separate Storm Sewer Systems) and may be used to meet the annual reporting requirements for regulated small MS4s as outlined in 40 CFR§122.34g(3). While it is not required for MS4 operators to use this form to meet federal regulations, MS4s are encouraged to use this format to allow for more efficient recordkeeping and to minimize paper consumption.

PLEASE NOTE: This form may not include all of the information required to be submitted in your annual report. Please review your MS4 permit to ensure all required information is reported. Include supplemental pages to this form, if needed.

Completed forms should be mailed to:

Amy Maybach
EPA Region 8 Stormwater Coordinator
Mail code: 8WP-CWW
1595 Wynkoop Street
Denver, CO 80202-1129
Email: Maybach.Amy@epa.gov

All sections of this form must be completed and Item I on Page 18 must be signed and certified. Please print or type.

A. Permittee Information

Permittee (Agency Name):

Mailing Address:

City, State and Zip Code:

Contact Phone Number:

Permit Certification Number:

Have any areas been added to the MS4 due to annexation or other legal means?

YES

B. Reporting Period: November 1, 2023 – December 31, 2023

C. Construction Program Contact:

The following information will be provided on the Environmental Protection Agency’s (EPA) web site to assist construction site operators in determining municipality-specific requirements for their projects:

Have you assigned an appropriate contact person/work unit to address questions regarding your municipality’s construction and post-construction requirements?

If Yes:

Contact name:	Matthew Rodgers
Position/work group title:	Chief, Environmental Element
Contact phone number:	720-847-7245
Contact E-mail address:	matthew.rodgers.7@spaceforce.mil

If a web site has been created with information on complying with your municipality’s construction and/or post-construction requirements, list the address:

D. Implementation of EPA’s Stormwater Management Program

The purpose of the annual report is to report on the status of your implementation of the permit requirements, including compliance with the standard of reducing the discharge of pollutants from your MS4 to the Maximum Extent Practicable (MEP). Address each of the following items for each of the six program areas:

1. Public education and outreach on stormwater impacts;
2. Public participation/involvement;
3. Illicit discharge detection and elimination;
4. Construction site stormwater runoff control;
5. Post-construction stormwater management in new development and redevelopment; and
6. Pollution prevention/good housekeeping for municipal operations

As the permittee, you must collect and maintain adequate information to demonstrate implementation of the six program areas as per your stormwater management program. Note that although the annual report only requires the submittal of certain information as outlined below, additional information may be requested by EPA to audit the implementation of your stormwater management program. For example, construction site inspection reports, outreach materials, and records of maintenance activities performed may be requested by EPA in addition to the annual report.

If another entity does not have its own permit but is instead covered under your permit, the annual report information under Section D of this form must also be provided for each such entity.

1. Public Education and Outreach on Stormwater Impacts

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to a Best Management Practice (BMP) or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for public education and outreach on stormwater impacts for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>PEO-1 Household Hazardous Waste and Stormwater Awareness</u> 1. Provide stormwater awareness at least twice per year during Newcomers Orientation	COMPLETED Environmental awareness materials and information were provided by 460 CES/CEIE Environmental Element eleven (11) times in 2023. The month of March was missed due to CES/CEIE personnel unable to access the building. PEO-1 is reported in the 1 January – 31 October 2023 annual report iteration.	No
2. Provide environmental protection awareness materials to new housing residents, including household hazardous waste.	COMPLETED Copies of the environmental protection awareness materials were provided by 460 CES/CEIE Environmental Element staff in January, February, April, May, June, July, August, September, October, November, and December 2023 during the Newcomers orientation. PEO-1 is reported in the 1 January – 31 October 2023	No

	annual report iteration.	
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Public Education and Outreach on Stormwater Impacts (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

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<u>PEO-2 Hazardous Waste or Stormwater Management Related Article</u> 1. Publish one hazardous waste or stormwater management article on the Buckley SFB website that discusses hazardous waste management and/or stormwater discharge impacts that may include options for disposing of household hazardous waste, pollution prevention, or other related information.	COMPLETED Request for the stormwater article to be published on the Buckley SFB webpage and Buckley SFB Facebook page was made on 29 November 2023. The article was published on the Buckley SFB website on 6 December 2023 but not on the Buckley SFB Facebook page. A copy of the informational article is presented on the following page.	No



GROUNDS MAINTENANCE ENVIRONMENTAL DO'S and DON'TS

Why Should I Help?

- Stormwater discharges containing nitrogen and phosphorus can negatively impact water quality.

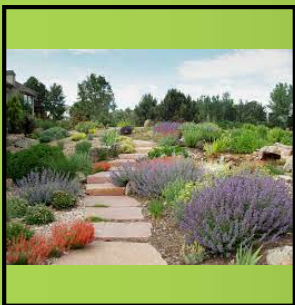
What to Do



- Sparingly apply fertilizers to lawns and landscapes



- Pick up and properly dispose of pet waste



- Install xeriscaping



What Not to Do



- Apply excess fertilizer to lawns and landscapes



- Wash leaves or lawn waste into storm drains



- Blow leaves or lawn waste into streets



- Report signs of pollution by contacting BSFB 460th CES Stormwater program at (720)-847-6308; 460ces.cevwater@us.af.mil or 460th CES Customer Service at 720-847-9913



Public Education and Outreach on Stormwater Impacts (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

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Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>PEO-3 Sediment and Erosion Awareness Training for Industrial Stormwater Personnel</u> 1. Provide training at least once per year and maintain attendance record.	COMPLETED Annual Industrial Stormwater Permit training session was held on 13 December 2023 with 11 personnel in attendance. The session included sediment and erosion awareness information. The slide presentation and roster can be found on the following pages.	No



Stormwater Compliance Training for Industrial Operations at Buckley SFB

13 December 2023
Matthew Cohen
Buckley Water Quality Program Manager

720-847-4655
matthew.cohen.4@spaceforce.mil

This training supports compliance with paragraph 2.2.1, 2.2.2 of the BSFB MS4 permit



Base Water Program POCs

Water Quality Program Manager
Matthew Cohen, 460 CES/CEIE
Matthew.cohen.4@spaceforce.mil
720-847-4655; DSN 8474655

Stormwater Program Coordinator
Greg Vierra
Gregory.vierra.2.ctr@spaceforce.mil
CES/CEIE
720-847-6308; DSN 8476308



Course Objectives

- Understand the Multi-Sector General Permit (MSGP) applicability to Buckley SFB
- Familiarize with stormwater basics
- Review MSGP requirements including our installation
- Industrial Storm Water Pollution Prevention Plan
 - Industrial Stormwater BMPs
 - Inspections
 - Corrective and Maintenance Action Items
- Discuss lessons learned
- Spill response actions
- Identify & assess BMPs



Target Audience

- Includes but are not limited to:
- Grounds maintenance personnel
- Facility managers
- Tenants
- Residents
- Project managers
- Contract managers, and
- Workers **engaging in industrial activities.**



Stormwater

- Any precipitation (e.g. rain water & snow melt) that runs off the land and into streams, rivers, and lakes
- Typically not treated before being discharged, so it can carry pollutants to receiving water bodies
- Discharges may be controlled, and treated to an extent, through structural Best Management Practices (BMPs) or Minimum Control Measures (MCMs) such as detention ponds, secondary containment, etc.



Effects of Stormwater Pollution

- Hazardous materials: industrial chemicals such as deicing fluids, petroleum, oil, grease, insecticides, pesticides, paint, solvents, used oil, etc.
 - Can poison aquatic life, land animals and people who eat diseased fish or ingest polluted water
 - Affect drinking water sources



Effects of Stormwater Pollution

- Sediment: exposed soils and destabilized areas
 - Sediment is the #1 source of surface water pollution in the world
 - Can fill waterways and waterbodies, increasing flooding potential.
 - Can make the water cloudy, preventing animals from seeing food
 - Can interfere with aquatic habitat by disrupting the smallest organisms with chain effects to large fish and wildlife
 - Soils at Buckley are very susceptible to erosion



Effects of Stormwater Pollution

- Excess nutrients: soaps and fertilizers
 - Can cause algae blooms and consequentially dead zones
- Bacteria and other pathogens create health hazards
 - Can affect drinking water sources
 - Can create health hazards such as gastroenteritis, dysentery etc.



Best Management Practices to Minimize Stormwater Pollution

- Potential pollutant sources
 - Fluid transfers: hydraulic fluid, engine oil, radiator fluid, etc.
 - Long-term vehicle parking
 - Leaking equipment and vehicles - ensure drip pans are installed!



Material Management

- Good Practices
 - Provide cover
 - Place on pallets/secondary containment
 - Place materials away from storm drains
 - Must be properly labeled



Store Hazardous Materials in Areas Where They Cannot Enter Stormwater

- Close containers when not in use
- Use containers in good condition
- Store in areas protected from precipitation
- Provide secondary containment
- Move away from storm drains



Vehicle/Equipment Maintenance: Washing

- Vehicle washing runoff is laden with pollutants
- Dirt, oils, and soap are discharged to the environment
- At Buckley SFB, vehicle washing is authorized only in approved wash facilities (1014/1006, B806, B340/341)
- Water is discharged to sanitary sewer - ask CEIE if you have questions regarding where a drain goes to (sanitary or stormwater)
- Typically water is recycled (50% or more)



Storm Sewer System

- Know the drainage of the stormwater runoff at your facility/work area including:
 - Above ground trench drains outdoors
 - Inlets and area drains
- Indoor floor drains - typically not part of the storm sewer system



Buckley SFB holds two EPA Stormwater Permits

- Buckley Multi-Sector General Permit (MSGP) governs industrial discharges for Sector S - Air Transportation
- Buckley Municipal Separate Storm Sewer System (MS4) covers discharges permitted in stormwater within the base boundary (including Hunt Housing)



Municipal Separate Storm Sewer System Permit

- Buckley SFB holds an EPA Municipal Separate Storm Sewer System (MS4) Permit
- Buckley SFB must prohibit all types of non -stormwater discharges within its boundary, except for allowable non-stormwater discharges described in Part 1.3.2
- Contact the BSFB Water PM about allowable non -stormwater discharges



MS4 Permit

- Buckley SFB MS4 permit does not authorize discharges associated with industrial activity
- New PFAS Monitoring Requirements for:
 - Outfalls 1A, 1B, 1C, 2, 3, 6D, 11
 - Industrial Pond & AASF Pond
- Biannual sampling starting in 2024



Buckley SFB's MSGP Permit requirements

- SBD2 to manage stormwater from industrial activities from other tenants
- Stormwater Pollution Prevention Plan (SWPPP) for Airfield Ops
- Initiate, implement and maintain control measures to minimize pollutant discharges
- Conduct inspections to ensure control measures are adequate, appropriate and properly maintained
- Identify Corrective Actions, address within deadlines and report
- Monitoring and reporting



iSWPPP Basics

- Specifies how installation personnel prevent discharges to storm water of potential pollution from industrial operations.
- Contains procedures intended to minimize the risk of industrial storm water pollution in drainage areas located within the installation's boundaries.
- The SWPPP includes:
 - Identification and evaluation of activities and potential stormwater pollution sources
 - Identification and implementation of storm water Best Management Practices (BMPs)
 - Pollution reduction measures and procedures
 - Monitoring and inspection procedures

Note: The installation Stormwater Pollution Prevention Team (SWPPT) is responsible for developing, implementing, and managing the SWPPP.



Industrial Operations Potentially Impacting Stormwater

- Aircraft, Ground Vehicle and Equipment - Maintenance, Cleaning and Storage Areas
- Material Storage Areas
- Fueling Systems and Areas
- Aircraft and Runway Deicing
- Equipment and Vehicle Washing



Maintenance BMPs True or False

1. **True or False:** Storm drains are useful for collecting and routing spills to a treatment plant.
2. **True or False:** Perform routine maintenance and chemical-related activities inside.
3. **True or False:** Place solid waste in authorized dumpsters and keep the lids open until dumpster is full.
4. **True or False:** Secondary containment area valves should be kept closed anytime equipment is being stored inside.
5. **True or False:** If a sheen is found in a secondary containment area, the sheen should be absorbed and/or pumped before any draining occurs.
6. **True or False:** Dispose of mop water in the stormwater sewer system.



Maintenance Action Item or Corrective Action Item

- Timelines are the same for both.
 - **Immediately** - reasonable steps to prevent or minimize the discharge of pollutants .
 - As soon as feasible **but no later than 14 days** for final repair/replacement.
 - If infeasible to repair/replace within **45 days**; notify EPA of time and rationale, document in SWPPP.
- Corrective Action Item - Further documentation and follow -up
- An email will be sent to the appropriate facility POC(s) explaining required repairs/replacement and timelines to ensure compliance with the 2021 MSGP.



What To Do If There is a Spill?

If you discover a leak or spill that has the potential to contaminate stormwater, you may attempt to stop it but only if it is safe for you to do so; it is safe IF

- You know what the contamination is and how to protect yourself, if necessary
- You have spill response materials and equipment nearby
- No other personnel are in danger

If contaminated water or some other pollutant is flowing to a storm drain,

**CALL Fire Department at 720 -847-9117
(One can dial 911 from a BAFB phone)**

Give the operator as much specific information as possible

**Also report to Environmental Element (CEIE) at
720-847-4655 (Matt Cohen)**

ALL SPILLS MUST BE REPORTED TO 460th CES/CEIE THE SAME DAY THE RELEASE OCCURS!



Thank You for Your Participation!

- Please ensure you have signed the attendance roster.

13 Dec 2023 Industrial Stormwater Training Yr 1 MS4 Permit MCM PEO-3

Name	Email	Phone	Organization	First time taking this training (Y/N)
Greg Vierre	gregory.vierre.2.ctr@space	847-6308	460 CES / CEIE	N
Teresa Steer	Teresa.D.Steer.Mfg@army.mil	720-250-1396	G9 Env	N
Dylan Quinn	dylan.quinn.5@usspaforce.com	847-6051	460 LRS	N
Shane Gault	Shane.Gault.1.ctr@spaceccr.com	847-6051	460 LRS	N
Marketh Douse	markdouse.md@gmail.com	720-982-0352	460 LRS	Y
Josh Cardwell	joshua.cardwell@spaceforce.mil	720-847-9373	460 LRS	N
James Perkins	james.perkins.23@spaceforce.mil	720-847-9506	460 LRS	Y
Daniel Aragon	daniel.aragon.4@spaceforce.mil	720-847-9374	460 LRS	Y
Kirk Marcum	Kirk.Marcum.1@spaceforce.mil	808-753-4834	21 LRS	N
Justyna Ferraro	justyna.s.ferraro@army.mil		COARNG	Y
Kim Bowman	Kimberly.bowman.5@spaceforce.mil	720-847-9042	COANG	N

Public Education and Outreach on Stormwater Impacts (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

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<p><u>PEO-4 Sediment and Erosion Awareness Training for Facility Managers</u></p> <p>1. Provide Group Facility Manager trainings at least annually and maintain attendance record.</p>	<p>COMPLETED</p> <p>The Group Facility Manager trainings are held monthly. These trainings occurred during 2023 on 25 January, 8 February, 8 March, 12 April, 17 May, 7 June, 26 July, 20 September, 8 November, and 6 December with individual Facility Manager trainings provided as needed.</p> <p>The session included the required sediment and erosion awareness information. The training was presented by multi-discipline 460 CES/CEO, /CEIE, and /CEN flight staff using a PowerPoint slide presentation. The environmental portion of the training, which is presented by 460 CES/CEIE staff is reported in the 1 January – 31 October 2023 annual report iteration.</p>	<p>No</p>

Public Education and Outreach on Stormwater Impacts (continued)

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<u>PEO-5 Post-Construction Stormwater Control Awareness Training</u> 1. Develop post-construction stormwater control awareness training materials. (Year 2)	COMPLETED Completed on 29 December 2023. Training materials consist of a handout that identifies appropriate and inappropriate stormwater BMP utilization at Buckley SFB. The handout can be seen on page 23.	No
2. Provide post-construction stormwater control awareness training materials to 460 CES/CEN and CEIE, as well as the 460 CONF. (Year 2-5)	COMPLETED Training materials were distributed via email to 51 primary points of contact for 460 CES/CEN, 460 CES/CEIE, 460 CES/CEC, 460 CES/CENP, 460 CES/CEO, 460 CES/CONS, COANG, COARNG, Navy, Marines, ADF-C and Buckley SFB Contractors on 29 December 2023.	No



GROUNDS MAINTENANCE ENVIRONMENTAL DO'S and DON'TS

Why Should I Help?

- Stormwater discharges containing nitrogen and phosphorus can negatively impact water quality.

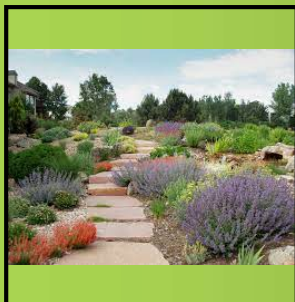
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- Sparingly apply fertilizers to lawns and landscapes



- Pick up and properly dispose of pet waste



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What Not to Do



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Public Education and Outreach on Stormwater Impacts (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

The Buckley SFB stormwater program host military, civilian, contractor, military dependents, and retired military personnel who work and utilize services on Buckley SFB. Buckley SFB supports 3,100 active-duty members from every service, 4,000 National Guard personnel and reservists, 2,400 civilians, 2,500 contractors, 36,000 retirees and approximately 40,000 veterans and dependents. The Buckley SFB stormwater program regularly interacts with tenant organizations including 140th Colorado Air National Guard, Navy, Marines, Colorado Army National Guard, Aerospace Data Facility of Colorado, and Amazon Web Services through regular business-related items, and cross functional team networks where information is readily shared and further disseminated in support of Buckley SFB NPDES permits.

During Permit Year 10 of the previous permit and the first two months of Permit Year 1, Buckley conducted: Forty (40) industrial stormwater shop-level inspections as part of its Multi-Sector General Permit (MSGP) routine industrial facility inspections with twelve (12) shop leads; sixty-six (66) construction site oversight inspections involving forty-four (44) different personnel; twelve (12) facility manager trainings averaging about five (5) personnel per training session; eleven (11) newcomer orientation sessions averaging about thirty (30) personnel per session; four (4) stormwater trainings with (102) total participants; two (2) public postings that estimate to have reached up to one hundred (100) people in total; one (1) meeting with about five (5) participants from City of Aurora departments; one (1) public participation event with six (6) participants; seven (7) SWPPP reviews for seven (7) points of contact. Between the six minimal control measures, the Buckley SFB stormwater program conservatively estimates to have reached 666 people during both Permit Year 10 and the first two months of Permit Year 1.

2. Public Involvement and Participation

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

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<u>PIP-1 Public Notice Requirements</u> 1. The 460 CES/CEIE Water Quality Program Manager (WQPM) and 460 SW/JA will review and document the public notice requirements, if any, associated with the public involvement and participation program.	COMPLETED Completed during Permit Year 10 of the previous MS4 permit. PIP-1 is reported in the 1 January – 31 October 2023 annual report iteration.	No
2. Public notices are provided and documented for required public involvement and participation activities.	NOT APPLICABLE No activity required	No

Public Participation/Involvement (continued)

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<p><i>PIP-2 SWMP Public Review</i></p> <p>1. Make MS4 annual reports available on the Buckley SFB website (www.buckley.spaceforce.mil) within 15 days of submitting the annual report to the EPA.</p>	<p>COMPLETE</p> <p>The Permit Year 9 Annual Report was requested to be posted on the Buckley SFB website on 3 April 2023. To locate the report on the Buckley SFB website, highlight the “Units” tab, and click on “Environmental” in the drop- down list (URL: https://www.buckley.spaceforce.mil/Units/Environmental/); a narrative in regard to the MS4 Permit is provided along with links to applicable environmental documentation including the complete MS4 Permit, the SWMP Plan, and the Annual Report.</p>	<p>No</p>

Public Participation/Involvement (continued)

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<p><u>PIP-3 Stormwater Action Line and Email Address</u></p> <ol style="list-style-type: none"> 1. Maintain the stormwater action line email address. Document action line emails received from the public and actions taken in public participation log. 	<p>COMPLETED</p> <p>The stormwater action line email address, 460 CES/CEV Water (460ces.cevwater@us.af.mil) is active and is being maintained. The email address (along with the 460 CES/CEIE WQP staff and 460 CES Customer Service direct telephone numbers) is published in a variety of sources including the Space Force Global Address List (GAL). No emails using the 460 CES/CEV Water address were submitted during 1 Jan 2023 - 31 Dec 2023. In 2024, the email address will be distributed for spill notification purposes, to supplement the existing call notification list. A spill log is maintained with the 460 CES Environmental Office files.</p>	<p>No</p>

Public Participation/Involvement (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for public participation and involvement on stormwater impacts for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p><i>PIP-4 Annual Meeting with City of Aurora</i></p> <p>1. The 460 CES/CEIE WQPM will conduct a meeting between appropriate Buckley SFB and City of Aurora stormwater/water quality managers at least once per year to discuss water quality and discharges to East Toll Gate Creek (ETGC).</p>	<p>COMPLETED</p> <p>Meeting occurred on 9 January 2023 during Permit Year 10 of the previous MS4 permit. The virtual meeting was held between 460 CES/CEIE Water Quality Program Manager, and eight (8) City of Aurora (CoA) personnel from various divisions. The meeting focused on establishing rapport and points of contact for future water quality correspondence between Buckley SFB and CoA.</p>	<p>No</p>

Public Participation/Involvement (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for public participation and involvement on stormwater impacts for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>PIP-5 Volunteer and Cleanup of MS4 Receiving Water Activities</u> 1. Buckley SFB will maintain a log of public participation activities related to water quality protection and cleanup of MS4 receiving waters.	COMPLETED Completed during Permit Year 10 of the previous MS4 permit. PIP-5 is reported in the 1 January – 31 October 2023 annual report iteration.	No

Public Participation/Involvement (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

All information used to implement the program has been provided under the Measurable Goals.

3. Illicit Discharge Detection and Elimination (IDE)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for illicit discharge detection and elimination for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p><u>IDE-1 Storm Sewer System Map</u></p> <p>1. Updated the complete storm sewer system map in the Buckley SFB Geographic Information Systems (GIS) (Year 3).</p>	<p>COMPLETED</p> <p>The update process is organized by installation areas, called tiles; there are 35 tiles that cover the entire installation.</p> <p>Each tile covers a specific portion or area of the installation, and a certain number of tiles are scheduled to be covered by the update process each calendar quarter, so progress toward the goal can be measured.</p> <p>The update process involves staff from engineering, operations, and environmental within 460 CES who systematically conducts field inspections and surveys to validate/correct existing system maps and to add missing features. The update is 96% complete with no anticipation of ever being 100% as there is always construction occurring on base and occasionally errors are found through the process described above. It is the opinion of Buckley SFB that the intent of this</p>	<p>No</p>

	<p>requirement has been met and an MFR dated 13 February 2017 has been issued by the 460 CES/CEIE WQPM documenting completion of this task. The MFR can be seen below.</p>	
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DEPARTMENT OF THE AIR FORCE
460TH SPACE WING (AFSPC)


13 February 2017

MEMORANDUM FOR RECORD

FROM: 460 CES/CEIE

SUBJECT: Documentation of Completion of the Buckley AFB Storm Sewer System GIS
Update per IDE-1 (Permit Year 3)

1. Mr. Matt Rodgers, the Buckley AFB Water Quality Program Manager (WQPM) met with 460 CES/CENM representatives Mr. Delbert Brown and Mr. Juanito Canon on 6 Feb 2017 to discuss the status of the IDE-1 task identified in the Stormwater Management Program Plan and within paragraph 2.4.8 of the Buckley AFB MS4 Permit. Mr. Brown and Mr. Canon explained that the vast majority (Approx. 96%) of stormwater infrastructure has been reviewed and updated within the Buckley AFB Geobase system as applicable over the past (3) years via efforts staffed by engineering, operations, and environmental personnel through field maintenance and compliance inspections along with various surveying tasks. Due to the ongoing nature of construction projects being conducted base-wide, there is essentially never a discrete moment when Geobase is 100% up-to-date and it is believed that the intent of this MS4 permit tasking has been met.
2. Please contact Matt Rodgers at matthew.rodgers.7@us.af.mil or at (720) 847-4655 with any questions or comments in regard to this tasking.


Matthew C. Rodgers, GS-12, DAF
Water Quality Program Manager, 460 CES/CEIE

Illicit Discharge Detection and Elimination (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for illicit discharge detection and elimination for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>IDE-2 Dry Weather Screening of Major Outfalls</u> 1. Conduct dry weather screening of Buckley SFB outfalls once per year. Document findings of dry weather screening and erosion evaluation. Document results of any follow up illicit discharge investigation or assessments.	COMPLETED Completed during Permit Year 10 of the previous MS4 permit. IDE-2 is reported in the 1 January – 31 October 2023 annual report iteration.	No

Illicit Discharge Detection and Elimination (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for illicit discharge detection and elimination for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>IDE-3 Illicit Discharge Detection and Elimination Program</u> 1. Maintain one printed copy of the EPA Illicit Discharge Detection and Elimination (IDDE) Manual in the Environmental Element's library.	COMPLETED A hardcopy of the US EPA IDDE Manual is in place on the 460 CES/CEIE Stormwater library shelves.	No
2. At a minimum, the Water Quality Program Manager (WQPM), Spill Program Manager, and Environmental Element Chief will conduct an annual review of the EPA IDDE Manual. This review will serve as training for illicit discharge investigation and response techniques.	COMPLETED The 460 CES/CEIE WQPM conducted a review by email on 4 December 2023 of the EPA IDDE Manual and information relevant to the illicit discharge elimination program with 460 CES/CEIE personnel and the 140 Wing Guard Colorado Air National Guard (COANG) which is documented in the Memorandum For Record on the following page.	No



DEPARTMENT OF THE AIR FORCE
UNITED STATES SPACE FORCE
SPACE BASE DELTA 2

14 February 2024

MEMORANDUM FOR RECORD

FROM: 460 CES/CEIE

SUBJECT: Documentation of Completion of Illicit Discharge Detection & Elimination (IDDE) Program Requirements per Section IDE-3 of the SWMP, Rev 1 for Permit Year 1

1. Buckley SFB (BSFB) maintains one printed copy of the EPA Illicit Discharge Detection and Elimination Manual (October 2004 version) in the Environmental Element's library, which is located in the 460 CES/CEIE commons area, Room 178 of Building 1005.
2. An annual review of the EPA Illicit Discharge Detection and Elimination Manual was conducted by email on 4 December 2023 with Greg Vierra, Matt Cohen, Matt Rodgers, Ethan Woodard, Tyler Walnoha, Jean Charles (460 CES/CEIE), Kimberly Bowman, and Chris VanFleet (140 WG COANG). Familiarity with the IDDE manual was attained and a review of key takeaways from the manual as they apply to BSFB was conducted.
3. Pertinent points in the review included:
 - a. Dry weather screening as a primary means to detect illicit discharges
 - b. A review of 2023 illicit discharges at Buckley: description and timeline of illicit discharges, the illicit discharge root causes, reporting timeline and process, corrective actions taken to eliminate illicit discharge and status of corrective actions.
 - c. A review of allowable non-stormwater discharges and verification was made that they are not a significant pollution contributor.
4. Please contact Matt Cohen at matthew.cohen.4@spaceforce.mil or at (720) 847-4655 with any questions regarding this tasking.

A handwritten signature in blue ink, reading "Matthew E. Cohen", is positioned above the typed name.

Matthew E. Cohen, GS-12, DAF
Water Quality Program Manager, 460 CES/CEIE

Illicit Discharge Detection and Elimination (continued)

<p>3. Document the time required to investigate, plan, and correct confirmed illicit discharges identified on Buckley SFB. For confirmed illicit discharges, Buckley SFB will develop a Corrective Action Plan (CAP) within 15 business days and implement the corrective action within 45 business days of discovery. If corrective action will require more than 45 business days, permission must be obtained from Region 8 USEPA.</p>	<p>COMPLETED Seven (7) confirmed illicit discharges occurred in Permit Year 10. IDE-3 is reported in the 1 January - 31 October annual report iteration. No illicit discharges occurred during 1 Nov 2023 - 31 Dec 2023.</p>	<p>No</p>
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Illicit Discharge Detection and Elimination (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for illicit discharge detection and elimination for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>IDE-4 Illegal Dumping and Non-Compliance Enforcement Procedures</u> 1. Document any illicit discharge and illegal dumping enforcement actions taken.	COMPLETED No enforcement actions (EAs) were required in Permit Year 10. No enforcement actions (EAs) were required during 1 Nov - 31 Dec 2023. IDE-4 is reported in the 1 January - 31 October annual report iteration.	No

Illicit Discharge Detection and Elimination (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for illicit discharge detection and elimination for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p><u>IDE-5 Allowable Non-Stormwater Discharges and Controls</u></p> <p>1. Conduct an annual review of allowable non-stormwater discharges listed in Paragraph 1.4.2 of the MS4 Permit. Identify if any category of allowable, non-stormwater discharge is a significant contributor of pollutants to the MS4. If a category of allowable, non-stormwater discharge is determined to be significant, the category is then considered an illicit discharge and controls must be enacted to minimize or eliminate the discharge.</p>	<p>COMPLETED</p> <p>A review of authorized, non-stormwater discharge sources listed in Part 1.4.2 of the Permit was conducted on 4 December 2023 during the IDE-3 IDDE Manual Review.</p> <p>Of the 23 sources listed, only 9 were identified as occurring on Buckley SFB during 1 Jan - 31 Dec 2023. Of those occurring during 1 Jan - 31 Dec 2023, none have been determined to be a significant contributor of pollutants to the storm drain system.</p>	<p>No</p>

Illicit Discharge Detection and Elimination (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

All information used to implement the program has been provided under the Measurable Goals.

4. Construction Site Stormwater Runoff Control (CON)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for construction site stormwater runoff control for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p><u>CON-1 Construction Project Oversight Program</u></p> <p>1. Develop a written construction oversight program and inspection plan for use by Buckley SFB stormwater managers. The construction oversight program will include a list of policies and procedures that can be used to enforce compliance with applicable stormwater discharge permits related to construction activities. The program will be continuously reviewed and updated annually as needed (Years 1–5, and into continuance).</p>	<p>COMPLETED</p> <p>The construction oversight program and inspection plan were developed/prepared in Permit Year 1. The Plan was finalized in Permit Year 2 (rev 0) on 30 April 2015. In Permit Year 3 it was updated on 20 September 2016 (rev 1). In Permit Year 4 the plan was updated on 3 May 2017 (rev 2). In Permit Year 5 the plan was updated on 10 May 2018 (rev 3). In Permit Year 6 the plan was updated on 23 December 2019 (rev 4). In Permit Year 7 the plan was updated on 10 December 2020 (rev 5). In Permit Year 8 the plan was updated on 27 December 2021 (rev 6). In Permit Year 9 the plan was updated on 22 December 2022 (rev 7). In Permit Year 1 (and Permit Year 10 of the previous permit) the plan was updated on 26 December 2023 (rev 8).</p> <p>Description of the regulatory mechanism used to require sediment and erosion controls is provided in the following section. Description of the procedures used to address noncompliance and enforcement mechanisms is provided in the following section.</p>	<p>No</p>

REGULATORY MECHANISM TO REQUIRE SEDIMENT AND EROSION CONTROLS

The regulatory mechanism used to require sediment and erosion controls on construction projects located on Buckley SFB is the 2022 Construction General Permit (CGP), under the National Pollutant Discharge Elimination System (NPDES), a federal permitting program, under the authority of the Clean Water Act (CWA). In the State of Colorado areas subject to construction activity by a Federal Operator (i.e., a federal facility) are not under the State’s authority but are permitted under the authority of the Region 8 US EPA NPDES stormwater permitting under general Permit No. COR10F000.

The construction project contract and standard specifications specify stormwater discharges from construction activities such as clearing, grading, excavating, and stockpiling that disturb one or more acres, or smaller sites that are part of a larger common plan of development, are regulated under the 2022 CGP, for which construction operators must obtain coverage (i.e., prepare a construction Stormwater Pollution Prevention Plan (SWPPP) and obtain an active status Notification of Intent (NOI)) prior to commencing ground disturbing activity.

PROCEDURES TO ADDRESS NONCOMPLIANCE AND ENFORCEMENT MECHANISMS

Government contractors must comply with FAR and contract requirements that include environmental protection. Acquisition regulations and contracts contain specific enforcement provisions for non-compliance by contractors. Enforcement provisions include cure notices, contract termination, stop work orders, liquidated damages, negative contractor performance ratings, and being precluded from future government contracts. Enforcement against a government contractor is a contracting officer responsibility with input and support from quality assurance evaluator and subject matter experts on Buckley SFB.

Construction Site Stormwater Runoff Control (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for construction site stormwater runoff control for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p><u>CON-2 Construction Project Oversight Inspections</u></p> <p>1. Conduct oversight compliance assistance inspections of permitted construction sites (> 1 acre or part of a larger common plan of development that will cumulatively disturb ≥ 1 acre) at least semi-annually and prior to construction permit termination to verify final stabilization has been met on all areas of the site. Buckley SFB has developed a spreadsheet-based prioritization model to guide additional construction oversight inspections based on project location, size, and nature of construction activity, site characteristics, and the compliance history of construction contractor.</p>	<p>COMPLETED</p> <p>Oversight construction compliance inspections are conducted on sites with >1-acre ground disturbance or are part of a larger common plan of development. A summary of construction site inspections conducted during 1 January - 31 December 2023 is reported in the 1 January – 31 October 2023 annual report iteration.</p>	<p>No</p>

Construction Site Stormwater Runoff Control (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for construction site stormwater runoff control for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>CON-3 Construction Site Stormwater Training</u> 1. Document the number of Buckley SFB construction site quality assurance personnel who have received construction stormwater compliance annual training.	COMPLETED Completed during Permit Year 10 of the previous MS4 permit. CON-3 is reported in the 1 January – 31 October 2023 annual report iteration.	No

Construction Site Stormwater Runoff Control (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for construction site stormwater runoff control for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>CON-4 Design Review and Construction Site BMP Information</u> 1. Maintain existing review process for design and construction projects planned for Buckley SFB.	COMPLETED Existing design review processes/practices are being followed. Project plans/specs/reports are emailed to make the documents available for review. A tracking spreadsheet is distributed weekly to the 460 CES review group containing suspense dates and completion of review status. The 460 CES/CEIE WQP review documents for compliance with stormwater permit requirements/regulations applicable to projects located on Buckley SFB such as 2022 CGP and Energy Independence and Security Act (EISA) Section 438. Comments are provided back to the issuing source for incorporation by the project design team. The 460 CES/CEIE WQP staff conducted 78 project design reviews for 14 projects that required stormwater comments in 2023.	No
2. Maintain existing process for identifying construction site BMPs and providing such information to project construction contractors (Year 2-5).	COMPLETED	No

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
3. Hold preconstruction meetings with the contractors and project management staff to ensure BMP related questions and requirements are addressed prior to BMP installation on 50% of new construction projects (Years 4- 5).	<p>COMPLETED</p> <p>460 CES/CEIE personnel met construction contractors and project management staff prior to groundbreaking to inspect stormwater BMP installation, and to clarify expectations of working on Buckley SFB. Environmental staff met onsite at 3 of the 5 (60%) new construction projects during 1 January – 31 December 2023. The project preconstruction meeting dates are as follows:</p> <ol style="list-style-type: none"> 1. 14-September-2023 (BSFB JCC project) 2. 2-November-2023 (Blue Marlin Pad 1 Sanitary Line Relocation project) 3. 8-November-2023 (BSFB Building 210 Renovations project) <p>The “Construct Sidewalk Along Arapahoe Basin Avenue Building 331” project preconstruction meeting was missed. Construction began on 2-October-2023. The “BSFB Mill and Overlay Base Wide” project preconstruction meeting was missed. Construction began on 1-November-2023.</p>	No

Construction Site Stormwater Runoff Control (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for construction site stormwater runoff control for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>CON-5 Site Plan and Construction SWPPP Review</u> 1. Maintain existing site plan and SWPPP review process. Document site plan and SWPPP reviews and record any comments provided to the construction entity pertaining to the contractor's SWPPP. Dates and copies of SWPPP review comments will be maintained by 460 CES/CEIE.	COMPLETED A total of 7 SWPPP reviews were conducted for 7 new projects requiring the Plan on Buckley SFB during 1 January – 31 December 2023. The file of SWPPP reviews and comments provided by 460 CES/CEIE WQP for applicable construction projects is maintained in 460 CES Environmental Office files. Buckley SFB also reviews SWPPP documentation of active construction sites as part of CON-2.	No

Construction Site Stormwater Runoff Control (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

All information used to implement the program has been provided under the Measurable Goals.

5. Post-Construction Stormwater Management in New Development and Redevelopment (PC)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for post-construction stormwater management in new development and redevelopment for the reporting period; including dates and numeric measures:

<p>Measurable Goal(s) Including dates and numeric measures, as previously submitted</p>	<p>Status: Including dates and numeric measures</p>	<p>Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.</p>
<p><u>PC-1 Post-Construction Stormwater Management Process</u></p> <p>1. Maintain existing review process for new development and re-development projects planned for Buckley SFB. Include evaluation of pre-development and post-development runoff conditions in design review process (Years 2–5).</p>	<p>COMPLETED</p> <p>During 1 January - 31 December 2023, there were three pre-development projects reviewed for water resource environmental impact analysis (as part of Air Force Form 813) that includes requirements to implement post-construction stormwater management controls. The Air Force Form 813 is an environmental impact analysis that is used as part of the NEPA vetting process on base.</p> <p>Comments are provided to the initiating group so that any necessary controls may be incorporated during the design process. Project evaluations during the design process are maintained by 460 CES/CEN. BMPs are used in all projects with soil disturbances, EISA 438 stormwater criteria are used in projects greater than 5,000 square feet, and a SWPPP is initiated for projects impacting one acre or larger. All projects are considered for predevelopment hydrology.</p>	<p>No</p>

**Post-Construction Stormwater Management in New Development and Redevelopment
(continued)**

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for post-construction stormwater management in new development and redevelopment for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>PC-2 Impracticality Determination Documentation for Post-Construction Stormwater Controls</u> 1. Document all impracticability determinations and provide supporting documentation to the Water Quality Program Manager (Years 2–5).	COMPLETED During 1 November - 31 December 2023, 460 CES/CEN confirmed there were no projects that documented reasons of impracticality for implementing Post-Construction Stormwater Controls.	No

Post-Construction Stormwater Management in New Development and Redevelopment (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for post-construction stormwater management in new development and redevelopment for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>PC-3 Inventory Visual Inspection, and Maintenance of Post-Construction Controls</u> 1. Conduct annual review of the post-construction stormwater controls inventory/map and make required updates (Years 2–5).	COMPLETED Completed during Permit Year 10 of the previous MS4 permit and during Permit Year 1 of the new MS4 permit issued by EPA with an effective date of 1 November 2023. PC-3 is reported in the 1 January – 31 October 2023 annual report iteration.	No
2. Inspections of any permanent post-construction stormwater control measures that are under warranty, typically one year following installation, will be annotated and the appropriate official responsible for warranty enforcement will be notified (Years 2–5).	COMPLETED Buckley SFB currently has a process in place for evaluating projects under warranty for corrections. All projects are assessed during the last month of the warranty period and remaining punch list items are documented and corrected by the contractor. All corrections are documented and maintained by 460 CES/CONF.	No

**Post-Construction Stormwater Management in New Development and Redevelopment
(continued)**

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for post-construction stormwater management in new development and redevelopment for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>PC-4 Visual Inspection of New Post-Construction Stormwater Controls</u> 1. Document inspections of all newly installed post-construction stormwater control measures prior to closing out contracts (Years 2–5).	COMPLETED Completed during Permit Year 10 of the previous MS4 permit and during Permit Year 1. PC-4 is reported in the 1 January – 31 October 2023 annual report iteration.	No

Post-Construction Stormwater Management in New Development and Redevelopment (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for post-construction stormwater management in new development and redevelopment for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p><u>PC-5 Natural Resource Management Plan Update</u></p> <p>1. Hydrologic performance standards and information related to design and maintenance of permanent post-construction stormwater controls are included in natural resource plans when these plans are updated (Year 5).</p>	<p>COMPLETED</p> <p>The Integrated Natural Resource Management Plan (INRMP) was reviewed, and comments were provided to 460th CES/CEIE on 1 November 2023. Hydrologic performance standards included in the INRMP are Section 438 of the Energy Independence and Security Act (EISA) requirements for all projects that construct facilities with a footprint greater than 5,000 gross square feet or expand the footprint of existing facilities by more than 5,000 gross square feet; projects are required to maintain predevelopment hydrology and prevent any net increase in storm water runoff, unless determined to be infeasible. Additionally, information related to design and maintenance of permanent post-construction stormwater controls in the INRMP include design and post-construction maintenance requirements of Low Impact Development Best Management Practices (LID BMPs).</p>	<p>No</p>

**Post-Construction Stormwater Management in New Development and Redevelopment
(continued)**

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

All information used to implement the program has been provided under the Measurable Goals.

6. Pollution Prevention/Good Housekeeping for Municipal Operations (P2)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for pollution prevention/good housekeeping for municipal operations for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>P2-1 Conduct Annual Stormwater Training for All Fleet Maintenance and Civil Engineer Shops</u> 1. Conduct annual training of fleet maintenance and civil engineer shops. Maintain attendance roster and training date.	COMPLETED Completed during Permit Year 10 of the previous MS4 permit on 29 June 2023. P2-1 is reported in the 1 January – 31 October 2023 annual report iteration.	No

Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for pollution prevention/good housekeeping for municipal operations for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>P2-2 Snow and Ice Control Training</u> 1. Conduct training once per year and maintain an attendance roster.	COMPLETED Completed during Permit Year 10 of the previous MS4 permit on 19 September 2023. P2-2 is reported in the 1 January – 31 October 2023 annual report iteration.	No

Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for pollution prevention/good housekeeping for municipal operations for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p><i>P2-3 Street Sweeping</i></p> <p>1. Accomplish an average of 20 hours of street sweeping per month.</p>	<p>COMPLETED</p> <p>The 460 CES/CEOHP shop reported an average of 19 hours of street sweeping per month during 1 January – 31 December 2023.</p> <p>140 CES/CE COANG completed 286 hours of street sweeping or an average of 23.8 hours of street sweeping per month during 1 January – 31 December 2023.</p>	<p>No</p>
<p>2. Perform an annual evaluation of the schedule and document the evaluation (Years 2- 5).</p>	<p>COMPLETED</p> <p>In accordance with Permit Part 2.7.8.2, evaluation of the street cleaning operation in Permit Year 1 determined that sweeping will continue to focus on more highly trafficked areas and locations where sediment and debris accumulate, rather than a set route of streets. Operations are evaluated daily through the Buckley SFB Preventive Maintenance program and visual inspections.</p>	<p>No</p>

Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for pollution prevention/good housekeeping for municipal operations for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>P2-4 Storm Drain Inlet Inspection and Maintenance Schedule</u> 1. Inspect an average of 5% of storm drain inlets and culverts per quarter. Document cleaning activities, waste disposal practices, and amount of debris collected during maintenance (Year 2-5).	PARTIALLY COMPLETED Partially completed during 1 January – 31 December 2023. P2-4 is reported in the 1 January – 31 October 2023 annual report iteration.	No

<p>2. Develop a maintenance schedule based on inspection results. Perform an annual evaluation of the schedule and document the evaluation (Year 2-5).</p>	<p>COMPLETED</p> <p>At the end of 2023, no inspections resulted in required maintenance being input into NEXGEN IT for repair. Stormwater features will continue to be inspected and as findings are documented, maintenance requests will be submitted and repaired in accordance with Buckley SFB work request priorities.</p>	<p>No</p>
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Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for pollution prevention/good housekeeping for municipal operations for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>P2-5 Vehicle Washing Limitation</u> 1. Maintain copy of current policy.	COMPLETED A copy of the current municipal vehicle washing policy that limits washing to approved vehicle wash racks is maintained in the 460 CES/CEIE Environmental Stormwater library.	No

Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for pollution prevention/good housekeeping for municipal operations for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<u>P2-6 Post-Construction Stormwater Control Measure Maintenance</u> 1. Document post-construction stormwater control maintenance requirements during annual post-construction stormwater control inspection.	COMPLETED The existing post-construction BMP annual inspection was conducted during 1 November – 31 December 2023 and submitted on 16 January 2024. The inspection report included documentation of BMP maintenance recommendations. The report is maintained in 460 CES Environmental Office files. 15 new detention basins, 9 new vegetated swales, and 3 sustainable designs recommended repairs were identified during the inspection.	No
2. Initiate a Work Order using the appropriate work request system/database for any post-construction stormwater control maintenance activity that requires additional equipment, manpower, or resources to accomplish.	COMPLETED No new Work Orders resulting from Permit Year 9 inspections were programmed and funded during 1 January – 31 December 2023. Issues noted during these 1 November – 31 December 2023 inspections are currently being processed as a work order to be resolved by base personnel, the grounds maintenance contract or as a project for an outside contractor.	No

Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for pollution prevention/good housekeeping for municipal operations for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p><u>P2-7 Consolidate Wash Rack Evaluation</u></p> <p>1. Document completion of the consolidated wash area evaluation including methodology and recommendations. If a consolidated wash area is recommended, a Form 1391 will be generated (Year 3).</p>	<p>PARTIALLY COMPLETED</p> <p>A Work Order was drafted and submitted to the Buckley SFB programming office during Permit Year 10 and is reflected in the 1 January – 31 October 2023 annual report iteration.</p>	<p>No</p>

Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

All information used to implement the program has been provided under the Measurable Goals.

E. Results of Information Collected and Analyzed.*

If you have collected and/or analyzed information during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants, submit a short summary of the information and any analysis completed.

Measurable Goal	Results of information collected and analyzed that must be reported for this item
N/A	N/A

*Data collected to audit the implementation status of a program element does not need to be reported in the annual report unless required by an established measurable goal or as a requirement or result of an inspection or enforcement action. For example, data such as street miles swept, visitors at an information booth, or visits to a web site do not need to be included in the annual report unless directly related to a measurable goal or committed to be reported and/or analyzed in a program description.

F. Summary of Inspections and Enforcement Actions.

Provide a summary of the number and nature of inspections and formal enforcement actions performed. Site-specific information may also be included, but is not required.

Program Area	Description of Enforcement Actions/ Inspections

G. Proposed Changes to the Stormwater Management Program.

Provide a narrative description of any changes or additions to the stormwater management program.

Buckley SFB received a new Municipal Separate Storm Sewer System (MS4) Permit on 20 September 2023. In response to the new permit which is active as of 1 November 2023 and expires on 31 October 2028, 460 CES/CEIE will adapt the Stormwater Management Program during Permit Year 1.

H. Notice of Program Element Operation by a Second Party.

Another government entity may be relied on to perform requirements of your MS4 permit. However, as the permittee, you remain liable for compliance with the terms of the permit if the requirements are not fulfilled. You must complete this annual report for the geographic areas covered under your permit, for all program areas, even if one or more program elements/areas is being performed by another entity. (However, if you are performing a program element for another permittee, you do not need to include that activity in this report.) If you are relying on another government entity to satisfy some of your permit obligations (and if the information has not been previously provided to the EPA in earlier reports or the application), the annual report must include a statement to that effect. If the BMP and/or measurable goal will be modified in addition to the change of operator to another government entity, the change must be included in Item G, above. Example statement: "As of September 15, 2003, Monroe County is performing the construction site plan reviews for the Nixon Air Force Base in accordance with the procedures in the Base's original application."

NA

I. Certification

"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."

Signature of Permittee (legally responsible person) **

Date Signed

MATTHEW C. RODGERS, GS-13, DAF

Chief, Environmental Element

Name (printed)

Title

**This report may be signed by a duly authorized representative of the permittee in conjunction with the signatory requirements for NPDES permitting provided at 40 CFR§122.22(b).