STORM WATER MANAGEMENT PROGRAM
FORT GORDON

General NPDES Permit No. GAG480000 for Small Municipal Separate Storm Sewer Systems (MS4) at Military Facilities

Prepared For:
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11 July 2024
Rev. September 2025

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ABBREVIATIONS AND ACRONYMS

SWMP	Storm Water Management Program
MS4	Municipal Separate Storm Sewer System
IDDE	Illicit Discharge Detection and Elimination
BMP	Best Management Practice
MCM	Minimum Control Measure
DPW	Directorate of Public Works
GA-EPD	Georgia Environmental Protection Division
GIS	Geographic Information System
NPDES	National Pollutant Discharge and Elimination System
ES&PC	Erosion Sedimentation and Pollution Control
LDA	Land Disturbing Activity
GSWCC	Georgia Soil and Water Conservation Commission
O&M	Operation and Maintenance
GI	Green Infrastructure
LID	Low Impact Development
EPA	Environmental Protection Agency
Base Ops	Base Operations

STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Storm Water Management Program (SWMP)

General NPDES Permit No. GAG480000 for

Small Municipal Separate Storm Sewer Systems (MS4) at Military Facilities

1. General Information

A. Name of small MS4: US Army Garrison Fort Gordon

B. Ownership Status:

i. Check the military branch having ownership of the MS4:

1. _____ Air Force
2. ___X___Army
3. _____Marine
4. _____Navy
5. _____Georgia National Guard

ii. If the operator of the MS4 is different from the owner, provide the name of the operator: N/A

C. County where MS4 is located: Richmond

D. Name of responsible official: Colonel Anthony Kazor

Title: Garrison Commander

Mailing Address: 307 Chamberlain Avenue

City, State, Zip Code: Fort Gordon, GA 30905

Telephone Number: 706-791-6300

E. Designated storm water management program contact:

Name: Paul Mainor, Jr.

Title: Director, DPW Environmental Division

Mailing Address: 527 15th Street (Building 14500)

City, State, Zip Code: Fort Gordon, GA 30905

Telephone Number: (706) 791-3225

Email Address: paul.mainor.civ@army.mil

2. Sharing Responsibility

A. Has another entity agreed to implement a control measure on your behalf?

Yes No _x_ (If no, skip to Part 3)

Control Measure or BMP:

1. Name of entity

2. Control measure or component of control measure to be implemented by entity on your behalf

B. Attach an additional page if necessary to list additional shared responsibilities. It is mandatory that you submit a copy of a written agreement between your MS4 and the other entity demonstrating written acceptance of responsibility.

3. Minimum Control Measures (MCM) and Appendices

- MCM#1 Public Education and Outreach
- MCM#2 Public Involvement/Participation
- MCM#3 Illicit Discharge Detection and Elimination (IDDE)
- MCM#4 Construction Site Storm Water Runoff Control
- MCM#5 Post-Construction Storm Water Management in New Development and Redevelopment
- MCM#6 Pollution Prevention/Good Housekeeping
- Appendix A Public Education and Outreach Materials and Tracking Forms
- Appendix B Public Participation Pet Waste Tracking, Stormwater Hotline, Investigation and Tracking Forms
- Appendix C IDDE – Legal Authority, Policy, Outfall Inventory and Map, Educational Material and Tracking, and DWS Inspection Form
- Appendix D Stormwater Construction Site Permitting Policy, Inspection Form, Documents and GSWCC Certifications
- Appendix E Post-Construction Permitting Policy, Post-Construction and GI/LID Structure Maps and Inventories, Inspection and Maintenance Forms and Documents

- Appendix F Fort Gordon's Operation and Maintenance Manual
- Appendix G Pollution Prevention/Good Housekeeping – MS4 Map and Inventory, and Municipal Facility Inventory
- Appendix H Pollution Prevention/Good Housekeeping – MS4 Inspection, Maintenance Forms, and Street Sweeping, Waste Disposal, Existing Flood Management Project Tracking Forms
- Appendix I Impaired Waters Monitoring and Implementation Plan

4. Certification Statement

I certify under penalty or 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 gathered and evaluated the information submitted. Based upon 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.

Printed Name: Paul Mainor, Jr. Date: 04 Feb 2026

Signature: MAINOR.PAUL.JR.1065318136 Digitally signed by MAINOR.PAUL.JR.1065318136 Date: 2026.02.04 12:12:15 -05'00' Title: Director, Public Works

Storm Water Management Program

Minimum Control Measure #1 - Public Education and Outreach on Storm Water Impacts

40 CFR Part 122.34(b)(1) Requirement: The permittee must implement a public education program to distribute educational materials to the community and/or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff.

See Table 4.2.1(a) of the Permit

A. Best Management Practice (BMP) #1

1. Target audience:
- Military Personnel, Installation residents and employees

2. BMP Title:
- Public Education Program – Participation in A Community Event

3. Description of BMP:
- Fort Gordon DPW Environmental staff will educate the installation's community (military personnel, residents, students, employees and the public) on impacts of storm water discharges on water bodies during outreach events. Outreach events include but are not limited to Earth Week and Safety Stand-down Day. During the public outreach events DPW Environmental staff will hand out storm water newsletters, storm water fact sheets, IDDE brochures, storm water pollutant reduction brochures, storm water coloring books and other environmentally friendly/recycled materials such as pens, pencils and rulers.

4. Measurable goal(s):
- The DPW Environmental office will support at least two (2) outreach events each year (annually) during the 5-year permit term. Fifty (50) storm water newsletters, fact sheets and/or brochures will be distributed to outreach attendees at each event. The total number of educational newsletters, fact sheets and/or brochures will be tracked for each outreach event.

5. Documentation to be submitted with each annual report:
- Copies of the educational materials and brochures distributed during each reporting period will be submitted with the annual report. A spreadsheet documenting the outreach name and the number of materials distributed at each event will be submitted in the annual report. A copy of the tracking spreadsheet and sample educational materials can be found in **Appendix A** of this stormwater management plan.

6. Schedule:

- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 – December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

7. Person (position) responsible for overall management and implementation of the BMP:

- DPW Environmental personnel

8. **Rationale for choosing BMP and setting measurable goal(s):**

- Outreach events at Fort Gordon will inform and educate the installation community, as well as the general public, about stormwater-related issues, stormwater quality, and conservation practices. These events promote public awareness and highlight the significance of their impact on the installation's waterways.

B. BMP #2

1. Target audience:
- Military Personnel, Installation residents and employees

2. BMP Title:
- Public Education Program – Newsletter

3. Description of BMP:
- Fort Gordon DPW Environmental staff will educate the installation's community (military personnel, residents, students, employees and the public) on impacts of storm water discharges on water bodies via the publication of a newsletter, "Green Matters". Copies of the newsletters will be published to the "Fort Gordon Environmental Division" Facebook page, placed in common areas of the installation where information is posted and/or distributed; and will be distributed during DPW sponsored events to military personnel, residents and employees. The newsletter will cover several environmental topics to include articles on storm water impacts, water quality, water conservation, and storm water pollutant reduction. Publication of the newsletter will enable Fort Gordon to educate and increase the community's overall knowledge of storm water related issues.

4. Measurable goal(s):
- DPW Environmental personnel will produce two Green Matters newsletters for installation-wide distribution. Two newsletters will be produced, published and distributed each year.

5. Documentation to be submitted with each annual report:
- A copy of each Green Matters newsletter produced during the reporting period will be provided in the annual report. Examples of the Green Matters newsletter can be found in **Appendix A** of this stormwater management plan.

6. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 to December 2028
- Frequency of actions (if applicable): Semiannually
- Month/Year of each action (if applicable): Jan-Jun, Jul–Dec 2024, 2025, 2026, 2027, and 2028

7. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental personnel

8. Rationale for choosing BMP and setting measurable goal(s):

– Publication and distribution of the Green Matters newsletter will inform and educate Fort Gordon visitors, military personnel, and the civilian and tenant workforce about ongoing environmental issues, stormwater-related concerns, pollution prevention, and how to safeguard Fort Gordon's receiving streams.

C. BMP #3

1. Target audience:
– Military Personnel, Installation residents and employees

2. BMP Title:
– Public Education Program – Social Media program

3. Description of BMP:
– Fort Gordon DPW Environmental staff will educate the installation's community (military personnel, residents, students, employees and the public) on the impacts of storm water discharges on water bodies via the publication of the "Fort Gordon Environmental Division" social media Facebook page. The "Fort Gordon Environmental Division" social media Facebook page will be used to publish notifications regarding upcoming storm water training and environmental events, copies of the Green Matters newsletters and posts related to environmental training and topics to include articles on storm water impacts, water quality, water conservation and storm water pollutant reduction. Publication of the "Fort Gordon Environmental Division" social media Facebook page will enable Fort Gordon to educate the community by publicizing the installation's storm water management program.

4. **Measurable goal(s):**
– As needed during the 5-year permit term, DPW Environmental will post environmental training updates, community events, the Green Matters newsletter and environmental topics/current events to the "Fort Gordon Environmental Division" social media page.

5. Documentation to be submitted with each annual report:
– Photo documentation/screenshots of DPW Environmental posts to the "Fort Gordon Environmental Division" social media Facebook page along with a spreadsheet documenting the number of Facebook page posts, visits, reactions, shares and page likes, etc. during each reporting period will be submitted with the annual report. A copy of the tracking spreadsheet can be found in **Appendix A** of this stormwater management plan.

6. Schedule:
– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 to December 2028
– Frequency of actions (if applicable): Ongoing
– Month/Year of each action (if applicable): Jan–Dec 2024, 2025, 2026, 2027 and 2028

7. Person (position) responsible for overall management and implementation of the BMP:
– DPW Environmental personnel

8. Rationale for choosing BMP and setting measurable goal(s):

– Public awareness of stormwater impacts and water quality practices, promoted through social media, will help reduce the discharge of pollutants in stormwater runoff.

Minimum Control Measure #2 - Public Involvement/Participation

40 CFR Part 122.34(b)(2) Requirement: The permittee must, at a minimum, comply with state and local public notice requirements when implementing a public involvement/ participation program.

See Table 4.2.2 (a) of the Permit

A. BMP #1

1. Target audience/stakeholder group:
– Military Personnel, Installation residents and employees

2. BMP Title:
– Public Involvement/Participation – Pet Waste Collection

3. Description of BMP:
– Fort Gordon will track the amount of pet waste collected at the installation dog park. Pet waste is disposed of in designated containers located at the dog park. Pet waste is weighed and disposed of by MWR personnel.

4. Measurable goal(s):
– The amount of pet waste collected and disposed quarterly will be reported to DPW Environmental. Pet waste will be measured by weight in pounds.

5. Documentation to be submitted with each annual report:
– A spreadsheet documenting the amount of pet waste disposed during each reporting period will be submitted with the annual report. Tracking information can be found in **Appendix B** of this Stormwater Management Plan.

6. Schedule:
– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 to December 2028
– Frequency of actions (if applicable): Monthly
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

7. Person (position) responsible for overall management and implementation of the BMP:
– DPW Environmental personnel

8. Rationale for choosing BMP and setting measurable goal(s):
– Engaging the public on Best Management Practices (BMPs), such as proper pet waste disposal, helps garner support for the stormwater management program and limits waste entering the storm sewer system (MS4) and local water bodies.

B. BMP #2

1. Target audience/stakeholder group:
- Military Personnel, Installation residents and employees

2. BMP Title:
- Public Involvement/Participation Program - Storm Water Support Phone Line

3. Description of BMP:
- DPW Environmental will designate a storm water support hotline within the environmental office. Installation residents, employees and military personnel can register storm water complaints and/or concerns. Publishing a support phone number will allow interested parties an opportunity to ask questions, obtain information, and report potential polluters. The DPW Environmental storm water support hotline number will be provided on all pertinent storm water documents, on the Green Matters newsletter and will be posted in public areas.

4. Measurable goal(s):
- Document and track the number and status of storm water complaints received during each reporting year. Each storm water complaint will be investigated within twenty-four (24) hours of receipt.

5. Documentation to be submitted with each annual report:
- A copy of the completed complaint tracking log and complaint investigation forms documenting storm water related calls, emails, walk-ins received and investigated during each reporting year will be submitted with the annual report. A copy of the complaint tracking log sheet and complaint investigation form can be found in **Appendix B** of this stormwater management plan.

6. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 – December 2028
- Frequency of actions (if applicable): Ongoing
- Month/Year of each action (if applicable): Jan-Dec/2024, 2025, 2026, 2027, and 2028

7. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental personnel

8. Rationale for choosing BMP and setting measurable goal(s):
- The public can use a dedicated stormwater reporting line to ask questions, report illegal dumping, and notify us of issues observed within the MS4.

Minimum Control Measure #3 - Illicit Discharge Detection and Elimination (IDDE)

40 CFR Part 122.34(b)(3) Requirement: The permittee must develop, implement and enforce a program to detect and eliminate illicit discharges into your small MS4. You must:

A) Develop, if not already completed, a storm sewer system map, showing the location of all outfalls and the names and location of all waters of the State that receive discharges from those outfalls

B) Effectively prohibit, through ordinance, or other regulatory mechanism, non- storm water discharges into your storm sewer system and implement appropriate enforcement procedures and actions

C) Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, to your system

D) Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste

See Table 4.2.3 (a) of the Permit

A. BMP #1

1. BMP Title:

– Legal Authority

2. Description of BMP:

– Army Regulation (AR) 200-1 Section 4-2 Water Resources is the regulatory mechanism mandating Army installations control and/or eliminate sources of pollutants to protect water resources. AR 200-1 is the mechanism Fort Gordon will utilize to implement and enforce a program to control and/or eliminate non-storm water discharges into the MS4 and its receiving waters. Fort Gordon's Illicit Discharge Detection and Elimination (IDDE) Policy and Dry Weather Screening (DWS) Procedures establishes policies and procedures for illicit discharge detection, MS4 outfall map updates, and addresses non-storm water discharges into the MS4.

2. Measurable goal(s):

– The AR 200-1 regulatory mechanism and the Fort Gordon IDDE Policy and DWS Procedures will be evaluated during each reporting year.

4. Documentation to be submitted with each annual report:

– If the AR 200-1 regulatory mechanism and/or the Fort Gordon IDDE Policy and DWS Procedures are revised during the reporting period, a copy of the regulatory mechanism and/or IDDE Policy and DWS Procedures as applicable will be submitted with the annual report. A copy of AR 200-1 and the Fort Gordon IDDE Policy and DWS Procedures can be found in **Appendix C** of this stormwater management plan.

5. Schedule:

– Interim milestone dates (if applicable):	N/A
– Implementation date (if applicable):	January 2024 – December 2028
– Frequency of actions (if applicable):	Annually
– Month/Year of each action (if applicable):	Jan-Dec/2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– AR 200-1 establishes guidelines to ensure Army activities comply with environmental laws and policies, while also ensuring all personnel are aware of their responsibility to protect and restore environmental quality.

B. BMP #2

1. BMP Title:

– Outfall Map and Inventory

2. Description of BMP:

– The installation will maintain an updated map and inventory which shows the location of all outfalls from the MS4, along with the names and locations of all waters of the State that receive discharges from those outfalls. The existing map is maintained in Fort Gordon's Geographic Information System (GIS) Storm Sewer System Mapping and Database.

3. Measurable goal(s):

– MS4 outfall map and inventory will be updated continuously as new structures are constructed, discovered during routine inspections or discovered during complaint investigations.

4. Documentation to be submitted with each annual report:

– An updated MS4 outfall map and outfall inventory showing the total number of outfalls including any outfalls added and/or removed during each reporting period, will be submitted in the annual report. A copy of the outfall map and inventory can be found in **Appendix C** of this stormwater management plan.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 to December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel and GIS analyst

7. Rationale for choosing BMP and setting measurable goal(s):

– A complete and updated outfall map and inventory allow DPW Environmental personnel to locate and conduct a comprehensive evaluation the MS4 system.

C. BMP #3

1. BMP Title:

– Illicit Discharge Detection and Elimination Plan

2. Description of BMP:

– Dry Weather Screening (DWS) for non-storm water discharges to the MS4 will be performed and documented in the Dry Weather Screening Inspection Reports. As outlined in the Fort Gordon IDDE Policy and DWS Procedures, the inspection of MS4 outfalls include detecting potential illicit discharges, conducting illicit discharge investigations, eliminating illicit discharges, implementing enforcement actions and following sample collection protocol when illicit discharges are detected.

3. Measurable goal(s):

– Conduct DWS inspections on a minimum of 5% of the MS4 outfalls annually; and inspect 100% of the MS4 outfalls within the 5-year permit term.

4. **Documentation to be submitted with each annual report:**

– Copies of completed DWS outfall inspection report, the number, and the percentage of structure inspections completed, results of illicit discharge detection activities performed, and enforcement actions taken (if necessary) during each reporting period will be provided in the annual report. A copy of the DWS inspection form can be found in **Appendix C** of this stormwater management plan.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 to December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026,2027, and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– Conducting DWS inspections of MS4 outfalls, as outlined in the IDDE Policy and DWS Procedures, will help Fort Gordon identify and eliminate illicit discharges.

D. BMP #4

1. BMP Title:
- IDDE Education

2. Description of BMP:
- DPW Environmental will educate the installation's community by distributing illicit discharge fact sheets, brochures and marking storm drains. Sanitary sewer overflows can be reduced and/or prevented by educating installation food service personnel, military personnel and residents regarding the proper disposal of used motor oil, kitchen fats, oils and greases (FOGs).

3. Measurable goal(s):
- Hand out twenty-five (25) illicit discharge fact sheets/brochures and/or FOG brochures each year to personnel working and or residing on the installation.
- Track the number and location of sanitary sewer overflows occurring on the installation each year.
- Mark 10 storm drains each year.

4. Documentation to be submitted with each annual report:
- A copy of the illicit discharge and/or FOG fact sheets/brochures and the total number of fact sheets/brochures distributed on Fort Gordon during each reporting period will be provided in the annual report. A copy of the educational materials and tracking spreadsheet can be found in **Appendix C** of this stormwater management plan.
- The total number and location of sanitary sewer overflows documented during each reporting period will be provided in the annual report.

5. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 to December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027, and 2028

6. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):
- Educating installation food service personnel, military personnel, and residents about illegal dumping and Fats, Oils, and Grease (FOGs) will help reduce sanitary sewer overflows and discharges to nearby receiving waters.

E. BMP #5

1. BMP Title:

– Complaint Response

2. Description of BMP:

– A storm water support phone number has been designated within the DPW Environmental office. The storm water support number has been published for use by installation military personnel, residents and employees. By publishing a storm water support phone number, interested parties may ask questions, obtain information, report potential polluters, and lodge complaints of illicit discharges. Complaint response procedures will be followed if an official storm water illicit discharge complaint is received. These complaint response procedures include but are not limited to:

- Illicit discharge complaints are received via telephone on the storm water support number at (706) 791-4286.
- The telephone is in the DPW Environmental office at Building 14600, 515 15th Street; and is manned by DPW Environmental personnel Monday through Friday during normal business hours 8:00 am to 5:00 pm, except for non-working Federal holidays.
- Information regarding the nature of the call, location, time, and date are recorded on a log sheet.
- Illicit discharge complaints will be investigated by DPW Environmental personnel within twenty-four (24) hours of receipt.
- Detailed reports of field investigations along with photos and findings are documented and retained for record by DPW Environmental.
- A copy of the complaint investigation report and findings will be provided to the appropriate point of contact (POC) for review and corrective action implementation if the investigation confirms the presence of an illicit discharge.
- The status of illicit discharge complaints will be manually tracked until follow-up complaint investigations reveal that illicit discharges have been eliminated. Once the illicit discharges have been eliminated, the complaint will be closed.

3. Measurable goal(s):

– Document and track the number of illicit discharge complaints and the status of each received during each reporting year.
– Investigate the illicit discharge complaint within twenty-four (24) hours of receipt.

4. Documentation to be submitted with each annual report:

- The number of stormwater and/or illicit discharge complaints received during each reporting period, along with their status, will be tracked and provided in the annual report. A copy of the Complaint Tracking form, the Complaint ID Tracking form and Complaint Investigation form can be found in **Appendix B**.
- Copies of the completed illicit discharge complaint investigation report forms and the results of any source elimination activities conducted during each reporting period will be submitted in the annual report.

5. Schedule:

- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 to December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

- DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):

- A storm water line will allow for the public to report illicit discharges in the MS4, as well as ask questions about any storm water-related topics.

Minimum Control Measure #4 - Construction Site Storm Water Runoff Control

40 CFR Part 122.34(b)(4) Requirement: The permittee must develop, implement, and enforce a program to reduce pollutants in any storm water runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Storm water discharges from construction activity disturbing less than one acre must be included in the permittee's program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. The program must include:

A. An ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance

B. Requirements for construction site operators to implement appropriate erosion and sediment control best management practices

C. Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality

D. Procedures for site plan review which incorporate consideration of potential water quality impacts

E. Procedures for receipt and consideration of information submitted by the public

F. Procedures for site inspection and enforcement of control measures

See Table 4.2.4 (a) of the Permit

A. BMP #1

1. BMP Title:

– Legal Authority – Construction Site Stormwater Runoff Control

2. Description of BMP:

– The Clean Water Act (CWA), the Georgia Water Quality Act, the Georgia Erosion and Sedimentation Act, and Army Regulation (AR) 200-1 Section 4-2 Water Resources are the regulatory mechanisms that require pollutants in storm water runoff entering the MS4 from construction activities be reduced. Fort Gordon has developed a Construction Site Permitting policy to incorporate these requirements, ensuring construction activities comply with the applicable Erosion and Sediment (E&S) Control requirements. The Construction Site Permitting policy addresses construction site operators E&S best management practice control implementation and controlling construction site waste (including discarded building materials, concrete truck washout, chemicals, litter and sanitary waste). The Construction Site Permitting policy also established procedures for site plan reviews, obtaining regulatory permits, receipt of public complaints, construction site inspection and enforcement.

3. Measurable goal(s):

– DPW Environmental personnel will evaluate the Construction Site Permitting policy annually for effectiveness, and compliance with all Federal, State, and local laws and regulations.

4. Documentation to be submitted with each annual report:

– If the existing Construction Site Permitting policy is revised during the reporting period, then a finalized copy will be provided with the annual report. A copy of the Construction Site Permitting policy can be found in **Appendix D** of this stormwater management plan.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 to December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027, and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– A regulatory mechanism and policy will ensure the installation complies with Federal, State, and local regulations by establishing procedures for construction site plan review and permitting.

B. BMP #2

1. BMP Title:
- Site Plan Review Procedures – Construction Site Stormwater Runoff Control

2. Description of BMP:
- In accordance with the construction site permitting policy, DPW Environmental staff will review all Erosion Sedimentation and Pollution Control (ES&PC) plans for NPDES/LDA compliance before submitting the plans to the local issuing authority (LIA) for permitting. DPW Environmental staff will utilize the GA-EPD ES&PC Plan Review Checklist to accomplish the review. If deficiencies are noted the comments will be sent to the designated point of contact (POC) and the plans will be updated and re-submitted to DPW Environmental. Sites which are under one acre and do not require NPDES permitting will also be reviewed by DPW Environmental staff.

3. Measurable goal(s):
- Review all ES&PC plans

4. Documentation to be submitted with each annual report:
- A list of the ES&PC Plans reviewed for the year will be submitted with the annual report.

5. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 to December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027, and 2028

6. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental GSWCC Level II Plan Reviewer certified personnel

7. Rationale for choosing BMP and setting measurable goal(s):
- The Director of DPW is the Fort Gordon delegated responsible official/primary permittee for NPDES Construction Storm Water Permits (NOIs); therefore, DPW Environmental will review and approve all ES&PC plans for submittal to the LIA and NOIs to GA EPD.

C. BMP #3

1. BMP Title:

– Inspection Program – Construction Site Stormwater Runoff Control

2. Description of BMP:

– Construction site operators are required by the NPDES and LDA permit to conduct daily, weekly, and monthly inspections of the construction site. Fort Gordon DPW Environmental personnel will also conduct inspections of the active construction sites. DPW Environmental personnel will inspect the construction sites for compliance with the NPDES and LDA permits, to ensure construction site wastes are properly controlled and that structural and non-structural BMPs at the site are properly designed, installed and maintained. If deficiencies are noted during routine inspections, follow-up inspections will be performed by DPW Environmental personnel. DPW Environmental personnel will inspect sites without NPDES and/or LDA permits as needed.

3. Measurable goal(s):

– Conduct at least one inspection of each active construction site during the reporting period.

4. Documentation to be submitted with each annual report:

– A list of active construction sites, the number of associated inspections performed during the reporting year along with completed inspection forms will be submitted in each annual report. An example of the inspection form used by DPW Environmental personnel and the inspection form packet DPW Environmental distributes to the contractors can be found in **Appendix D**.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 to December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027, and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– Routine inspections ensure the ES&PC Plan BMPs are being implemented, functioning as designed and the site is in compliance with regulatory permits.

D. BMP #4

1. BMP Title:

– Enforcement Procedures – Construction Site Stormwater Runoff Control

2. Description of BMP:

– DPW Environmental personnel will issue a written Letter of Deficiency and/or Letter of Violation (along with a copy of the completed inspection form and photo documentation of the deficiencies/violations) to construction sites found to be in non-compliance. The Letter of Deficiency and/or Violation will be issued to the government point of contact (POC) assigned to the construction site to be disseminated to the construction site contractor. The enforcement letter will document the deficiencies, the required corrective actions and provide a timeline for corrective action implementation. DPW Environmental personnel will conduct a follow up inspection to assess the implementation of corrective actions and compliance status. If the site remains out of compliance after the allotted time DPW Environmental personnel will issue notification to the construction site POC recommending a Stop Work Order be placed on the site. The Stop Work Order will remain in effect until the site has been brought back into compliance.

3. Measurable goal(s):

– Enforcement will be taken on 100% of sites discovered to be in non-compliance and fail to correct the problem during each reporting period.

4. Documentation to be submitted with each annual report:

– Documentation of enforcement actions taken during each reporting period will be submitted in the annual report. A spreadsheet documenting the construction site/project name, type/level of enforcement, and status of the enforcement action.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 – December 2028
– Frequency of actions (if applicable): Ongoing
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– Enforcement actions are necessary for non-compliant construction sites to inform personnel of the site's status and the corrective actions required to achieve compliance.

E. BMP #5

1. BMP Title:

– Complaint Response – Construction Site Stormwater Runoff Control

2. Description of BMP:

– A storm water support phone number has been designated within the DPW Environmental office. The storm water support number has been published for use by installation military personnel, residents and employees. By publishing a storm water support phone number, interested parties may ask questions, obtain information, lodge complaints and report E&S violations observed at active construction sites. Complaint response procedures will be followed if an official construction site complaint is received. These complaint response procedures include but are not limited to:

- Construction site E&S complaints are received via telephone on the storm water support number at (706) 791-4286.
- The telephone is in the DPW Environmental office at Building 14600, 515 15th Street; and is manned by DPW Environmental personnel Monday through Friday during normal business hours 8:00 am to 5:00 pm, except for non-working Federal holidays.
- Information regarding the nature of the call, location, time, and date are recorded on a log sheet.
- Construction site E&S complaints will be investigated by DPW Environmental personnel within twenty-four (24) hours of receipt.
- Detailed reports of field investigations along with photos and findings are documented and retained for record by DPW Environmental.
- A copy of the complaint investigation report and findings will be provided to the appropriate point of contact (POC) for review and corrective action implementation if the investigation confirms an E&S violation.
- The status of construction site E&S complaints will be manually tracked until follow-up complaint investigations reveal that the violations have been corrected. Once the violations have been corrected, the complaint will be closed.

3. Measurable goal(s):

– Document and track the number of construction site complaints received during each reporting year; investigate the construction site complaint within twenty-four (24) hours of receipt; and track the status of the complaint investigation conducted during each reporting year.

4. Documentation to be submitted with each annual report:

– The number of construction site complaints received, complaint investigation reports completed, the status of the complaint investigations, and results of any enforcement activities implemented by DPW Environmental during each reporting period will be tracked and provided in the annual report. A copy of the Complaint Tracking form, the Complaint ID Tracking form and Complaint Investigation form can be found in **Appendix B**.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 to December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– A storm water support/hotline will allow Fort Gordon's military personnel, visitors, civilian and tenant workforces to report construction site complaints and/or unpermitted discharges into the MS4 from active construction sites.

F. BMP #6

1. BMP Title:
- Certification – Construction Site Stormwater Runoff Control

2. Description of BMP:
- In accordance with the NPDES and Land Disturbing Activity (LDA) permits, each site actively engaged in land disturbing activity must have at a minimum, one Georgia Soil and Water Conservation Commission (GSWCC) Level IA certified individual on site at all times while land disturbing activities are taking place. DPW Environmental personnel conducting construction site inspections (which are regulatory in nature) and ES&PC Plan reviews are required to have GSWCC Level IB inspector and/or Level II plan reviewer certifications.

3. Measurable goal(s):
- All GSWCC Level IA certifications must be presented prior to commencement of land disturbing activity.
- DPW Environmental personnel will maintain the necessary certification(s) for site inspections and plan reviews.

4. Documentation to be submitted with each annual report:
- A list of GSWCC Level IA certified personnel for each construction site along with a copy of DPW Environmental personnel's GSWCC certification(s) for each reporting period will be provided in the annual report. A copy of DPW Environmental personnel's GSWCC certifications can be found in **Appendix D** of this stormwater management plan.

5. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 to December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):
- GSWCC certification is required by state and local ordinances for individuals involved in land disturbing activities.

Minimum Control Measure #5 - Post-Construction Storm Water Management in New Development and Redevelopment

40 CFR Part 122.34(b)(5) Requirement: The permittee must develop, implement, and enforce a program to address storm water runoff into the MS4 from new development and redevelopment projects, including projects less than one acre if they are part of a larger common plan of development or sale. You must:

A) Develop and implement strategies which include a combination of structural and/or non-structural BMPs appropriate for your community
B) Use an ordinance or other regulatory mechanism to address post-construction runoff from new development or redevelopment projects
C) Ensure adequate long-term operation and maintenance of BMPs

See Table 4.2.5 (a) of the Permit

A. BMP #1

1. BMP Title

– Legal Authority – Post-Construction Stormwater Management

2. Description of BMP:

– The Clean Water Act, the Georgia Water Quality Act, and Army Regulation 200- 1 (Section 4-2) are the legal mechanisms which require Fort Gordon to ensure controls are in place that will prevent or minimize water quality impacts from new development and redevelopment projects. The water quality performance standards will be applied for new development that creates or adds 5,000 square feet or greater of new impervious surface area, or that involves land disturbing activity of one acre of land or greater; and to redevelopment that creates, adds or replaces 5,000 square feet or greater of new impervious surface area, or that involves land disturbing activity or one acre or more, including projects less than 1 acre if they are part of a larger common plan of development or sale. Fort Gordon has developed a water quality post-construction permitting policy to ensure new development and redevelopment projects comply with the regulatory mechanisms and to provide adequate long-term operation and maintenance of BMPs. The post-construction permitting policy requires projects to implement the design standards of the latest Georgia Storm Water Management Manual (GSMM), Section 438 of the Federal Energy Independence and Security Act and the MS4 post-construction permit standards into the project designs.

3. Measurable goal(s):

– The installation will evaluate the water quality post-construction permitting policy document annually to ensure compliance with all regulatory mechanisms.

4. Documentation to be submitted with each annual report:

– If the Post-Construction Permitting policy is revised during the reporting period, then a copy will be provided with the annual report. A copy of the post-construction permitting policy can be found in **Appendix E**.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 – December 2028
– Frequency of actions (if applicable): Ongoing
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental Personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– A regulatory mechanism and policy ensure the installation is complying with Federal, State, and local regulations and develops processes and procedures for site plan reviews for post-construction design standards implementation on new and redevelopment projects.

B. BMP #2

1. BMP Title

– Inventory – Post-Construction Stormwater Management

2. Description of BMP:

– Fort Gordon will maintain an updated inventory of post-construction storm water management structures (detention/retention ponds, underground detention vaults and wet weather basins). The existing inventory is maintained in Fort Gordon's Geographic Information System (GIS) Storm Sewer System Mapping and Database.

3. Measurable goal(s):

– The post-construction storm water management structure inventory will be updated annually as new structures are completed or existing structures are identified.

4. Documentation to be submitted with each annual report:

– The post-construction storm water management structure inventory to include those structures added and/or removed during each reporting period will be provided in the annual report. A copy of the post-construction stormwater management structure map and inventory can be found in **Appendix E** of this stormwater management plan.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 – December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel and GIS Analyst

7. Rationale for choosing BMP and setting measurable goal(s):

– Maintaining an accurate and up-to-date inventory of post-construction stormwater management features is crucial for ensuring structure inspections and routine maintenance.

C. BMP #3

1. BMP Title:
- Inspection Program – Post-Construction Stormwater Management

2. Description of BMP:
- The storm water O&M manual contains a comprehensive inspection program and requirements for the post-construction storm water management structures (detention/retention ponds, underground detention vaults and wet weather basins).

3. Measurable goal(s):
- Conduct inspections on a minimum of 5% of the post-construction storm water management structures annually; and inspect 100% of the post-construction storm water management structures within the 5-year permit term.

4. Documentation to be submitted with each annual report:
- A copy of the completed post-construction stormwater management inspection reports, the number, and the percentage of structure inspections completed during each reporting period will be provided with the annual report. A copy of the post-construction stormwater management inspection forms can be found in **Appendix E** and a copy of the O&M Manual can be found in **Appendix F** of this stormwater management plan.

5. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 – December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goals(s):
- An active inspection program is crucial for the proper operation and maintenance of the post-construction stormwater management structures.

D. BMP #4

1. BMP Title:
– Maintenance Program – Post-Construction Stormwater Management

2. Description of BMP:
– The storm water O&M manual contains a comprehensive maintenance program and requirements for the post-construction storm water management structures (detention/retention ponds, underground detention vaults and wet weather basins).

3. Measurable goal(s):
– Maintenance will be conducted on structures as needed, when identified by inspection or notification by report.

4. Documentation to be submitted with each annual report:
– A spreadsheet of post-construction structures requiring maintenance, the work order number, status of the repair actions, and the completed maintenance reports documenting the repairs needed; and the date and nature of maintenance performed during each reporting period will be provided in the annual report. A copy of the maintenance form can be found in **Appendix E** and a copy of the O&M Manual can be found in **Appendix F** of this stormwater management plan.

5. Schedule:
– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 – December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:
– DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):
– Proper maintenance of the post-construction structures will allow continuous and efficient operation of the structures, stormwater collection system; and yield water quality and environmental benefits, protect public safety, and meet legal standards.

E. BMP #5

1. BMP Title:

– Inventory – Green Infrastructure (GI)/Low Impact Development (LID) Structures

2. Description of BMP:

– GI/LID structures are required in accordance with the Energy Independence and Security Act and the Fort Gordon /Gillem Enclave Water Quality Post-Construction Permitting Requirements. Projects will be evaluated for these structures during the Storm Water Construction ES&PC Plan review process. Fort Gordon will maintain an updated inventory of GI/LID control features (bioswales, pervious pavement, rain gardens, cisterns, vegetated filter strips, downspout disconnects, green roofs, etc.). The existing inventory is maintained in Fort Gordon's Geographic Information System (GIS) Storm Sewer System Mapping and Database.

3. Measurable goal(s):

– The addition of any new GI/LID features to the storm water system will be tracked through the plan review process. The GI/LID inventory will be updated annually, as needed.

4. Documentation to be submitted with each annual report:

– An updated inventory of GI/LID structures, including the structures added and/or removed during each reporting period will be provided in the annual report. A copy of the GI/LID structure map and inventory can be found in **Appendix E** of this stormwater management plan.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 – December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– Ensuring all projects are evaluated for GI/LID practices and maintaining a current GI/LID structures will improve water quality, velocity, and flow throughout the MS4.

F. BMP #6

1. BMP Title:
- Inspection Program - GI/LID Structure

2. Description of BMP:
- Fort Gordon's O&M Manual outlines the inspection requirements for storm water quality related GI/LID control features (bioswales, pervious pavement, rain gardens, cisterns, vegetated filter strips, downspout disconnects, green roofs, etc.).

3. Measurable goal(s):
- Conduct inspections on a minimum of 5% of the GI/LID structures annually; and inspect 100% of the GI/LID structures within the 5-year permit term.

4. Documentation to be submitted with each annual report:
- A copy of the completed GI/LID structure inspection reports, the number, and the percentage of structure inspections completed during each reporting period will be provided with the annual report. A copy of the GI/LID structure inspection forms can be found in **Appendix E**; and the O&M Manual can be found in **Appendix F** of this stormwater management plan.

5. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 – December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):
- As active inspection program is vital for the proper operation and maintenance of GI/LID structures.

G. BMP #7

1. BMP Title:
- GI/LID Structure Maintenance Program

2. Description of BMP:
- Fort Gordon's O&M Manual contains a comprehensive maintenance program which delineates the maintenance requirements for storm water quality related GI/LID control features (bioswales, pervious pavement, rain gardens, cisterns, vegetated filter strips, downspout disconnects, green roofs, etc.).

3. Measurable goal(s):
- Maintenance and repairs will be conducted on GI/LID structures as needed.

4. Documentation to be submitted with each annual report:
- A spreadsheet of GI/LID structures requiring maintenance, the work order number, status of the repair actions, the completed maintenance reports documenting the repairs needed; and the date and nature of maintenance completed during each reporting period will be provided in the annual report. A copy of the maintenance form can be found in **Appendix E** and a copy of the O&M Manual can be found in **Appendix F** of this stormwater management plan.

5. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 – December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. **Person (position) responsible for overall management and implementation of the BMP:**
- DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):
- Proper maintenance of the GI/LID structures will allow continuous and efficient operation of the structures, stormwater collection system; and yield water quality and environmental benefits, protect public safety, and meet legal standards.

Minimum Control Measure #6 - Pollution Prevention/Good Housekeeping for Municipal Operations

40 CFR Part 122.34(b)(6) Requirement: The permittee must develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. Using training materials available from the US Environmental Protection Agency (EPA) and other organizations as guidance, the permittee must, as a part of this program, include employee training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance.

See Table 4.2.6 (a) of the Permit

A. BMP #1

1. BMP Title:
- MS4 Structure Inventory and Map

2. Description of BMP:
- Fort Gordon will maintain an updated inventories and maps of MS4 structures (catch basins, ditches, and storm drain lines). The existing inventory and map are maintained in Fort Gordon's Geographic Information System (GIS) Storm Sewer System Mapping and Database.

3. Measurable goal(s):
- The MS4 structure inventories and maps will be updated continuously as new structures are constructed, discovered during routine inspections or discovered during complaint investigations.

4. Documentation to be submitted with each annual report:
- The updated MS4 structure inventories and maps, the number of structures added and/or removed during each reporting period, and the total number of structures will be provided in each annual report. A copy of the updated MS4 structure inventories and maps can be found in **Appendix G** of this stormwater management plan.

5. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 – December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental Team Member and Base GIS Analyst.

7. Rationale for choosing BMP and setting measurable goal(s):
- A complete and updated MS4 structure inventory and map allows for the necessary personnel to locate and evaluate all parts of the stormwater collection system.

B. BMP #2

1. BMP Title:
- MS4 Inspection Program

2. Description of BMP:
- Fort Gordon's O&M Manual outlines the inspection requirements for the MS4 structures (catch basins, ditches and storm drain lines).

3. Measurable goal(s):
- Conduct inspections on a minimum of 5% of the MS4 structures annually; and inspect 100% of the MS4 structures within the 5-year permit term.

4. Documentation to be submitted with each annual report:
- A copy of the completed MS4 structure inspection reports, the number, and the percentage of structure inspections completed during each reporting period will be provided with the annual report. A copy of the MS4 structure inspection forms can be found in **Appendix H**; and the O&M Manual can be found in **Appendix F** of this stormwater management plan.

5. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 – December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):
- An active inspection program is vital for the proper operation and maintenance of MS4 structures.

C. BMP #3

1. BMP Title:

– MS4 Maintenance Program

2. Description of BMP:

– Fort Gordon's O&M Manual contains a comprehensive maintenance program which delineates the maintenance requirements for the MS4 control structures (catch basins, ditches and storm drain lines).

3. Measurable goal(s):

– Conduct maintenance on the MS4 control structures as needed.

4. Documentation to be submitted with each annual report:

– A spreadsheet of MS4 structures requiring maintenance, the work order number, status of the repair actions, the completed maintenance reports documenting the repairs needed; and the date and nature of maintenance completed during each reporting period will be provided in the annual report. A copy of the maintenance form can be found in **Appendix H** and a copy of the O&M Manual can be found in **Appendix F** of this stormwater management plan.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 – December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental staff

7. Rationale for choosing BMP and setting measurable goal(s):

– Proper maintenance of the MS4 control structures will continuous and efficient operation of the structures, stormwater collection system; and yield water quality and environmental benefits, protect public safety, and meet legal standards.

D. BMP #4

1. BMP Title:

– Street and Parking Lot Cleaning

2. Description of BMP:

– Debris and/or trash removal throughout Fort Gordon's streets and parking lots in the urbanized area will be removed by use of a street sweeper, manual trash/litter removal, or other methods. The street and parking lot cleaning activities are prioritized by heaviest traffic to lowest traffic usage. Special events are given extra priority. The refuse collected during street and parking lot cleaning activities are disposed of in on-site dumpsters for transfer and disposal at an off-base GA EPD approved landfill. Woody debris collected during the street and parking lot cleaning activities are mulched prior to disposal.

3. Measurable goal(s):

– At a minimum, 1 mile of streets will be swept per year during the reporting period.

4. Documentation to be submitted with each annual report:

– A copy of the street and parking lot cleaning tracking form documenting the beginning and ending odometer readings, the total miles of streets swept, and the amount of debris collected during each reporting period will be provided with the annual report. If cleaning activities are conducted manually, in lieu of odometer readings, a map documenting the location, the start and end points, and total miles will be provided with the street sweeping tracking form. A copy of the street sweeping tracking form can be found in **Appendix H** of this stormwater management plan.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 – December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel and Base Operations (BASOPS) personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– The street and parking lot cleaning program serves to remove sediment and debris from impervious surfaces throughout Fort Gordon before entering the MS4. This helps preserve operation of MS4 structures and prevents excessive amounts of debris from being discharged into receiving waters.

E. BMP #5

1. BMP Title:

– Employee Training

2. Description of BMP:

– Environmental Officer (EO) Training is performed annually by the DPW Environmental Program Managers. The target audience for this training includes base operations contractors, military, civilian and tenant personnel. The training covers various environmental topics, such as stormwater (industrial and municipal) requirements and policies, construction stormwater permitting, spill prevention control and countermeasures (SPCC), solid and hazardous waste handling and disposal. DPW Environmental also offers program specific training courses such as stormwater and SPCC.

3. Measurable goal(s):

– Fort Gordon will hold at least one training class annually that is related to storm water and SPCC for BASOPS, military, civilian and tenant personnel receiving initial and/or refresher training.

4. Documentation to be submitted with each annual report:

– Training course attendance rosters documenting the course name and number of attendees during each reporting period will be provided in the annual report

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 – December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– Educating and training military, civilian, tenant and contract workforces on proper handling, storage, and disposal of materials related to industrial, municipal, and construction activities will help reduce pollutant discharges into the MS4.

F. BMP #6

1. BMP Title:

– Waste Disposal

2. Description of BMP:

– Fort Gordon's O&M manual contains a comprehensive MS4 maintenance program which delineates the maintenance requirements for the MS4 control structures to include the removal and disposal of excess vegetation, trash and sediment from the MS4 storm water control structures.

3. Measurable goal(s):

– Track the amount of vegetation, sediment and/or other waste collected and disposed from the maintenance/cleaning of stormwater control structures each reporting year.

4. Documentation to be submitted with each annual report:

– A spreadsheet documenting the total amount of debris removed from MS4 maintenance/cleaning activities as documented on each maintenance form during each reporting period will be submitted with the annual report. A copy of the waste disposal log/tracking form can be found in **Appendix H** of this stormwater management plan.

5. Schedule

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 – December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel and Base Ops Contract personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– Removal of waste before entering the MS4 helps preserve operation of MS4 structures and prevents excessive amounts of debris from being discharged into receiving waters.

G. BMP #7

1. BMP Title:
- New Flood Management Projects

2. Description of BMP:
- Proposed flood management projects (detention/retention ponds) will be assessed by certified DPW Environmental personnel for water quality impacts during the Construction Storm Water ES&PC plan review process. The projects will be reviewed to ensure the Georgia Storm Water Management Manual (GSMM) water quality design standards are met.

3. Measurable goal(s):
- Ensure 100% of proposed project plans/designs reviewed comply to the maximum extent practicable for post-construction GSMM water quality design standards.

4. Documentation to be submitted with each annual report:
- The number of plans reviewed where flood management projects were assessed for water quality impacts during the reporting period will be provided in each annual report.

5. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 – December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):
- Verifying flood management projects/structures meet design standards will help manage, control stormwater runoff, reduce the potential of flooding and mitigate erosion in downstream receiving waters.

H. BMP #8

1. BMP Title:

– Existing Flood Management Projects

2. Description of BMP:

– Fort Gordon DPW Environmental will ensure assessments are conducted of existing flood management projects (detention/retention ponds) on the installation. The assessments will be conducted to determine the effectiveness of the existing structures in the design criteria of EISA Section 438 and the GSMM. Older structures which pre-date EISA Section 438 (2007), and structures identified at the time of inspection which are poorly designed and/or failing will be identified and have a higher evaluation priority. Based on the results of the assessment, DPW Environmental will determine if the existing structures are meeting the design criteria. If it is determined that an existing structure does not meet the design criteria, corrective actions (retrofitting) will be recommended. DPW Environmental will consider the following retrofitting practices so that the existing flood management projects meet the EISA Section 438 and GSMM design criteria and improve water quality impacts – micro pools, forebays, sand filters, site reforestation/revegetation, and/or conversion to bio-retention areas. Implementation of retrofitting will be on a case-by-case basis, will be dependent on the designer and availability of funding. Fort Gordon will develop an existing flood management project retrofit evaluation worksheet to be used by a Georgia professionally licensed engineer and/or certified Level II design professional to document structure evaluations.

3. Measurable goal(s):

– Evaluate at least 1 structure annually.

4. Documentation to be submitted with each annual report:

– A copy of the completed existing flood management project retrofit evaluation worksheet, supporting documentation and/or information, and a spreadsheet identifying the structures to be evaluated and the status/date of structure evaluated during each reporting period will be submitted in the annual report. A copy of the existing flood management structure evaluation form can be found in **Appendix H** of this stormwater management plan.

5. Schedule:

– Interim milestone dates (if applicable): N/A
– Implementation date (if applicable): January 2024 – December 2028
– Frequency of actions (if applicable): Annually
– Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:

– DPW Environmental personnel

7. Rationale for choosing BMP and setting measurable goal(s):

– Assessing existing flood management projects (detention/retention ponds) will identify any projects that are not providing for adequate runoff reduction/treatment

I. BMP #9

1. BMP Title:
- Municipal-Type Facilities

2. Description of BMP:
- DPW Environmental personnel will conduct regular inspections of the municipal operations which have been identified as having a potential to cause pollution. If BMP deficiencies are identified during the municipal-type facility routine inspection, DPW Environmental will issue a copy of the inspection form to the respective tenant documenting the deficiencies and the corrective actions/measures to be implemented. DPW Environmental will evaluate and update the municipal-type facilities inventory as needed.

3. Measurable goal(s):
- Conduct inspections on a minimum of 5% of the Municipal-type facilities annually; and inspect 100% of the Municipal-type facilities within the 5-year permit term.

4. Documentation to be submitted with each annual report:
- A copy of the updated inventory, and copies of the inspection reports documenting the inspections conducted during each reporting period will be provided with the annual report. A copy of the municipal-type facilities inventory can be found in **Appendix G** and the municipal-type facility inspection form and can be found in **Appendix H** of this stormwater management plan.

5. Schedule:
- Interim milestone dates (if applicable): N/A
- Implementation date (if applicable): January 2024 – December 2028
- Frequency of actions (if applicable): Annually
- Month/Year of each action (if applicable): Jan – Dec 2024, 2025, 2026, 2027 and 2028

6. Person (position) responsible for overall management and implementation of the BMP:
- DPW Environmental personnel

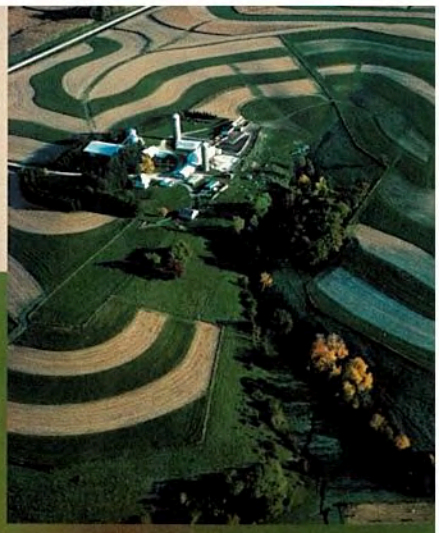
7. Rationale for choosing BMP and setting measurable goal(s):
- Inspections will ensure that municipal-type facilities are properly handling and storing materials and/or equipment to prevent accidental spills into the MS4.

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APPENDIX A

Public Education and Outreach Materials and Tracking Forms

Backyard Conservation

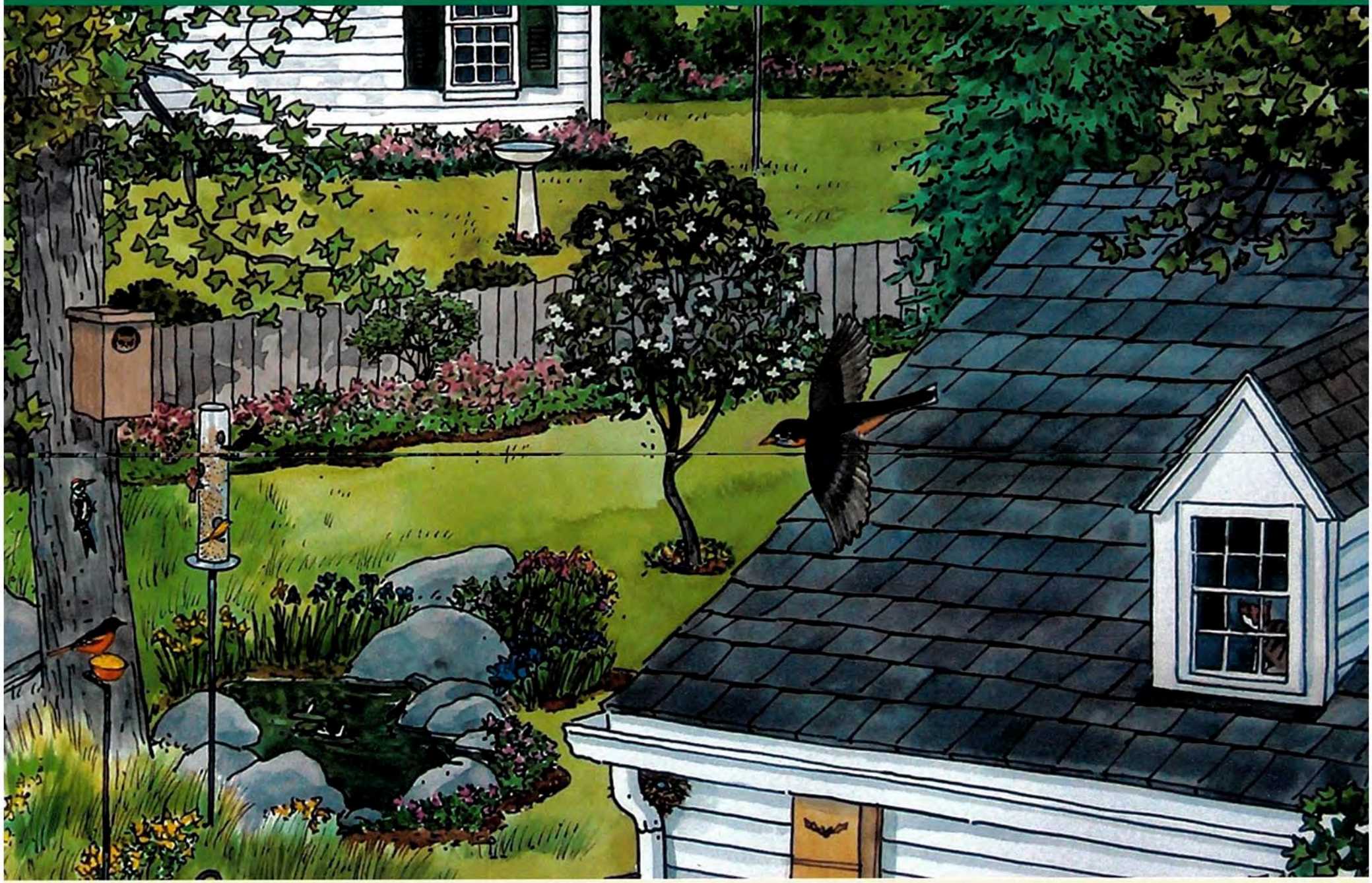


Bringing Conservation From the Countryside to Your Backyard

BACKYARD CONSERVATION
It'll grow on you.

A cooperative project of
USDA Natural Resources Conservation Service
National Association of Conservation Districts
Wildlife Habitat Council
National Audubon Society

An Invitation to a Healthy Yard



This publication is printed cooperatively by Audubon and the Natural Resources Conservation Service, an agency of the U.S. Department of Agriculture.

USDA is an equal opportunity provider and employer.

USDA NRCS
United States Department of Agriculture
Natural Resources Conservation Service

Audubon

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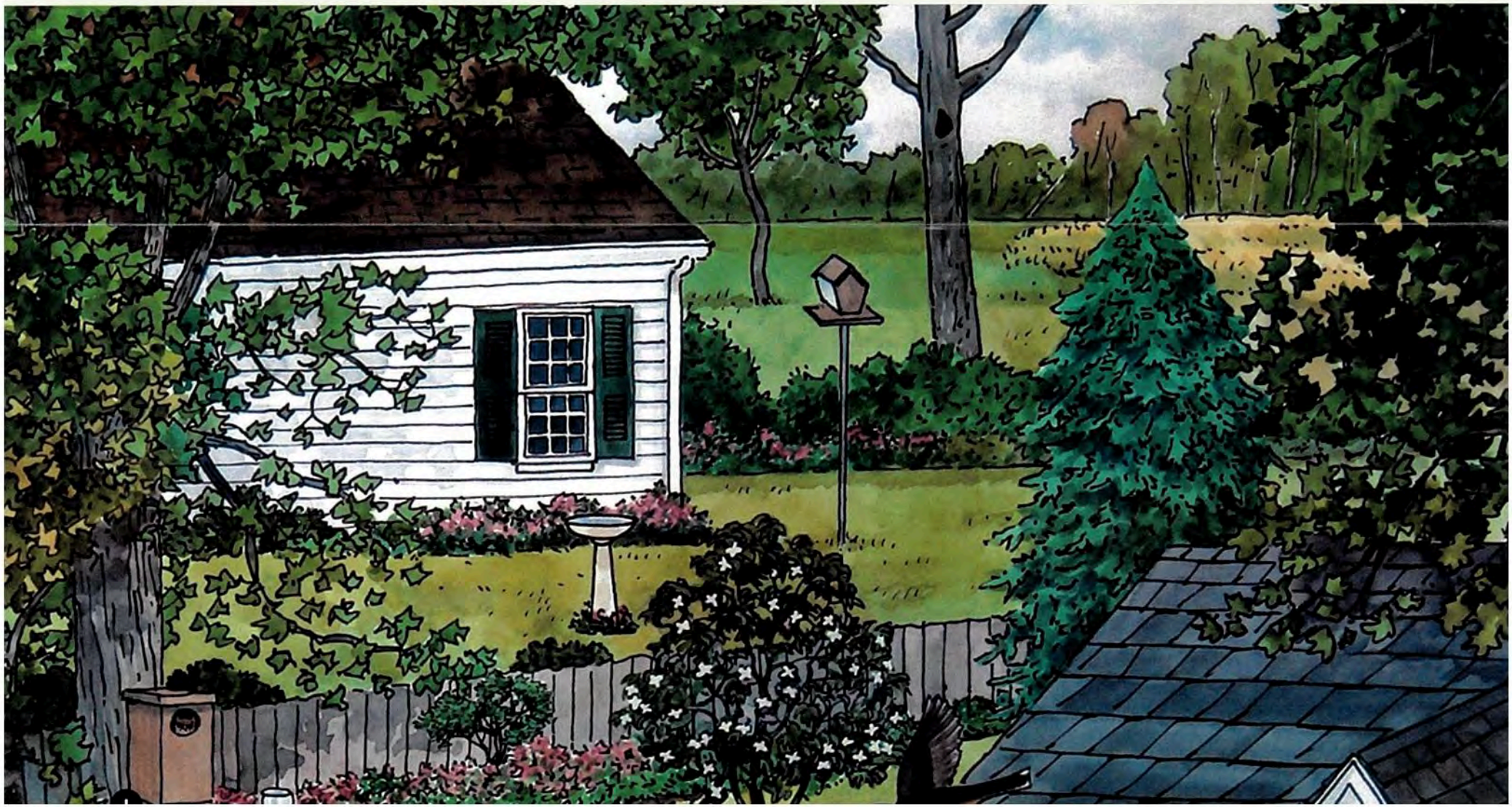
Invite Birds, Bats, and Butterflies to **YOUR YARD**

1. Tree cavities can be difficult for nesting birds to find in many developed areas. **BIRDHOUSES** offer a good alternative. Chickadees, titmice, wrens, and even screech-owls are some of the birds that might take up residence in appropriately sized nest boxes.

2. Carefully placed **BIRD FEEDERS** provide opportunities to watch birds at close range. Different feeders are designed for different seeds, so choose appropriate seeds and feeders for the birds in your area.

3. **NATIVE PLANTS,** including trees, shrubs, and groundcover, create multiple layers of attractive habitat for birds and beneficial insects. Plant shrubs in a way that best mimics natural habitat, and use them around the foundation of your home and the borders of your yard.

4. A source of **WATER,** such as a well-maintained birdbath or small pond, will attract birds and beneficial insects such as butterflies. Shallow edges allow birds to bathe and drink without getting too wet.



CREATING A HEALTHY YARD

Yards are personal havens for recreation, rest, and relaxation. By adopting a few basic principles, your yard can become a sanctuary for wildlife as well. As you create habitat that supports birds, butterflies, and other wildlife, you also ensure that your yard remains healthy for you and your family. And by learning about the plants and animals native to your area, you renew your connection with the natural world.

Why "Birdscape"?

Birdscaping—providing food, water, protective cover, and nesting sites for birds—offers a lifetime of learning, excitement, and entertainment while helping local bird populations. Over 650 bird species nest in North America, and a birdscaped yard can connect you with dozens of local resident birds and many additional migratory species that will stop by as they travel across the hemisphere. Many backyard birds are summer visitors that spend their winters in Central America and South America, while others are winter visitors that spend their summers in northern boreal forests. Birdscaping can help to ensure the survival of the many individuals that winter, nest, or migrate through your area each year.

While bird feeders and a source of water will easily attract the more common bird species to your yard, the best way to attract and help most birds is to plant native trees, shrubs, and wildflowers. These plants provide the nesting, roosting, and foraging opportunities that your local birds need, and can help to replace natural habitats destroyed, degraded, and fragmented by development. Consult with your local NRCS office to identify native plants suited to the local soil conditions. For more information on how to attract and help the birds in your area, visit www.audubonathome.org/forthebirds.

Bats

Bats are an often overlooked part of our local environment. In the United States, 47 bat species inconspicuously patrol the night skies. Many can consume 30–50 percent of their body weight in insects each night. Since some species can devour up to 600 mosquitoes or other insects each hour, bats are an important part of a natural insect control system. Other bats eat fruit and nectar and play an important role in pollinating native plants and dispersing seeds. Contrary to popular opinion, bats are not aggressive and they do not play a significant role in transmitting rabies to humans. To invite these sophisticated creatures to your yard, you can install a bat house at a height of at least 10 feet on a structure that faces the morning sun. For bat house designs and more information, visit www.audubonathome.org/bats.

Butterflies

Butterflies can be persuaded to visit a yard of any size. Over 700 butterfly species inhabit the United States, and local species will visit your yard if you invite them by planting appropriate flowering plants as food for the adults, and additional vegetation as host plants for their eggs and the caterpillars. Some butterfly species are declining in number due to pesticide use, habitat loss, or unusual climate conditions; providing the appropriate plants for these species may help them to recover. For more information about which species reside in or migrate through your community, and to learn which plants to provide for them, visit www.audubonathome.org/butterflies.

The Other "B"

Most of the bees that pollinate native plants do not live together in hives. Many of these native solitary bees are declining, but you may be able to help them by building a bee box. Simply drill small holes into an untreated block of wood, or tie a bundle of dried stems together and place them outdoors. Solitary bees will lay their eggs in the holes, which then serve as a nursery. For more information on how to help these beneficial insects, visit www.audubonathome.org/solitarybees.

Be a Good Neighbor

Share your wildlife habitat with your human neighbors as well. Show them your native plants and your efforts to help birds and other wildlife. Tell them about your stand against pesticides and your commitment to making your property as welcoming to wildlife as possible. Then invite them to take actions of their own. Begin a neighborhood nature club or wildlife association, and challenge people to dedicate part of their yard to wildlife. Link your habitat with that of adjoining neighbors to create a larger area of viable, pesticide-free and cat-free habitat. Note the changes you begin to see. Are there more birds and what kind? How about pollinators? What new animals tend to linger in your yard or community? Keep a record of what you see, and celebrate each exciting wildlife encounter with your friends and neighbors. For more information on working together to help birds and other wildlife in your community, visit www.audubonathome.org/neighborhood.

Healthy Yard Pledge

Create and maintain a healthy environment for you, your family, and local wildlife by pledging to:

- ✔ Reduce pesticide use
- ✔ Conserve water
- ✔ Protect water quality
- ✔ Remove invasive exotic plants
- ✔ Plant native species
- ✔ Support wildlife on your property

Visit www.audubonathome.org/pledge to make the pledge online.

The **Audubon At Home** website contains information and downloadable resources to help you plan and develop your property in a wildlife-friendly way. You'll find regional resources and information about the birds, other wildlife, and native plants in your area. Visit www.audubonathome.org.

NRCS's Backyard Conservation website also shows ways to help the environment and to make your yard more attractive and enjoyable. Visit www.nrcs.usda.gov/feature/backyard.

CY 2025	Public Outreach Events					
	Event - DD/MM/YYYY			Event - DD/MM/YYYY		
	Start Event	After Event	Distributed	Start Event	After Event	Distributed
Pencil/color Pencils						
Plant seed packs						
Green Matters Newsletter						
Bracelets						
FOGs						
Stress Relief Toy						
Rain gaugue						
re-usable utensils						
Hot/cold packs						
Kid Bags*						
Adult Bag**						
Temporary Tattoos						
Penguin Stickers						
Yo-Yo						
Drawstring Bags						
Other Bags						
Puzzle						

Items Distributed CY 2025	
Event - DD/MM/YYYY	0
Event - DD/MM/YYYY	0
Total Items:	**0**

Waste Water Treatment Plant (WWTP), can clog and cause sewers to backup and overflow. Sewer spills of untreated wastewater into streams can have severe environmental impacts.

Sewer lines will probably stop at a lift station. FOG can cause issues at the lift station too. FOG can clog pumps and build up as grease balls that will prevent the floats used to turn on and off pumps. This can lead to wastewater overflows, which can cost the city thousands to tens of thousands of dollars for maintenance and repairs, and can have severe environmental impacts.

At the wastewater plant FOG wreak havoc. Waste Water Treatment Plants utilize biological treatments (bacteria aka bugs) to breakdown the waste. when the FOG increases so do the bad bugs. This imbalance increases the chance of improper treatment, permit exceedances and environmental impacts.

This is a picture of a WWTP overrun with FOG



Upcoming Training and Events:

Hazardous Waste/ Hazardous Materials

September 2 | 0800 - 1000

SPCC

September 2| 1015-1115

Stormwater

September 2 | 1115-1215

Environmental Officer (EO)

October 22 | 0800-1600

Hazardous Waste/ Hazardous Materials

December 2 | 0800 - 1000

SPCC

December 2| 1015-1115

Stormwater

December 2 | 1115-1215

*In person training will be held at 515 15th Street, Building 14600, Room 130

Stormwater Complaint and Information Hotline:

DPW Environmental Division

515 15th Street, Building 14600

Fort Gordon, GA 30905

Fort Gordon: 706-791-4286

Gillem Enclave: 404-469-3222

@ftgordonenvironmental

Green Matters

Fort Gordon and Gillem Enclave

Green Matters is designed to keep you informed on environmental matters and training at Fort Gordon and Gillem Enclave. Send comments or questions to DPW's Environmental Division via the number listed and follow us on Facebook.

Tips to take care of your garden during heat waves

Timing is everything! Watering in the early morning is ideal. This provides water when they are going to need it most, during photosynthesis.

Watering in the evening is not recommended but if it is unavoidable, aim for between 4pm and 7pm. This will allow time for the plants to dry before nightfall and discourage bacteria and fungi and certain pests that like moist conditions like slugs and earwigs.

Water level is key! Check the moisture of the soil before watering. To do this, stick your finger in the soil at least to your middle knuckle, your finger should come out with some soil on it, but not muddy. You want to water deeply, at least an inch per watering. To measure, you can use a rain gauge, or a clean tuna can in your yard or garden, and time how long it takes to reach one inch.

Soil becomes hydrophobic when it dries out completely. Water lightly, allow it to sit for 15-30 minutes and then water deeply.

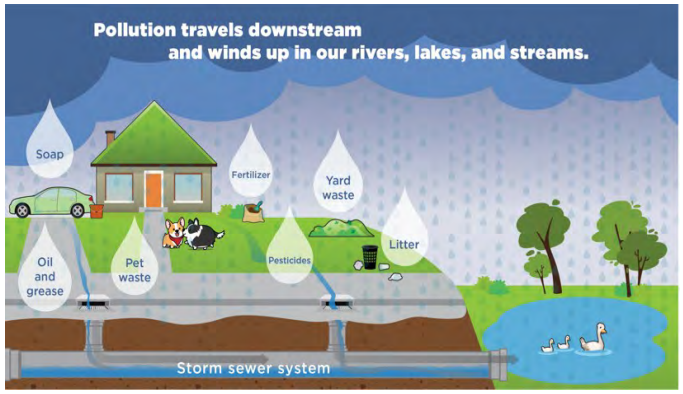
Mulch is your best friend! Mulch retains moisture, by protecting the soil from sun and wind. "Living mulch" is any ground cover plant that keeps the soil below shaded and cooler.

Too much of anything is never a good thing! If you are watering appropriately and still have crispy leaves, try offering a little shade. This can be accomplished by covering a frame with fabric such, or moving a pot into an area that is protected from the afternoon sun.

Stormwater

Have you ever watched water run down a gutter or pool on the side of the road during a storm? What happens to all the water? Most stormwater—the water from rain and snow melt—runs over the land and down a storm drain. The water flows through a network of underground pipes and open channels directly to our streams, rivers, and lakes.

When water flows off our property after a storm, what's on our lawns, driveways, roads, buildings, and parking lots flow with it. The water that doesn't soak into the ground picks up oil, litter, fertilizer, and other unhealthy items along its way as it flows to our rivers, lakes, and streams. Water pollution can start on your property in ways you cannot see, that can affect your health and the whole community downstream. Watching what we put on our property and in our storm drains makes our rivers, lakes, and streams cleaner, healthier, and more enjoyable. That's why keeping stormwater clean is vital to the health of our waterways, community, and even our economy. By investing in solutions to manage stormwater, we help make our community a safer, greener, healthier, and more enjoyable place to live.



Here are just a couple of practices that can help protect your water:

- Use a commercial car wash or wash your car on a lawn or other unpaved surface to minimize the amount of dirty, soapy water flowing into storm drains and eventually into your local waterbody.
- Check your car, boat, motorcycle, lawnmower, or other equipment for leaks and spills. Clean up spilled fluids with an absorbent material like kitty litter or sand, do not rinse the spill into nearby storm drain. Recycle used oil at participating service stations. Do not dump these chemicals down the storm drain or dispose of them in your trash.

Information and graphic provided by the United States Environmental Protection Agency.

Fats, Oil and Grease

A little time in the kitchen can save you hundreds in the wallet.

Fats, Oil and Grease, should **never** be poured down a sink or other drain. These substances solidify and accumulate in the pipes where they cause slow drainage and blockages, and can even lead to your drains and toilets backing up into your home.

Instead of pouring cooking oil or grease down your drain, pour it into an old jar or can. The jar can be stored in the fridge for a longer duration or on the counter if you anticipate filling it more quickly.



Sewer pipes carrying water from your home to a

GREEN MATTERS

FORT GORDON AND GILLEM ENCLAVE

Upcoming Training and Events:

Hazardous Waste/ Hazardous Materials
September 2 | 0800 - 1000
SPCC
September 2| 1015-1115
Stormwater
September 2 | 1115-1215
Environmental Officer (EO)
October 22 | 0800-1600

Hazardous Waste/ Hazardous Materials
December 2 | 0800 - 1000
SPCC
December 2| 1015-1115
Stormwater
December 2 | 1115-1215

*In person training will be held at 515 15th Street, Building 14600, Room 130

Training Coordinator:

Amy Dukes
(706) 791-6074
amy.e.dukes.civ@army.mil

Contact the training coordinator for information regarding trainings and scheduling

Tips to take care of your garden during heat waves

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Mulch is your best friend! Mulch retains moisture, by protecting the soil from sun and wind. “Living mulch” is any ground cover plant that keeps the soil below shaded and cooler.

Too much of anything is never a good thing! If you are watering appropriately and still have crispy leaves, try offering a little shade. This can be accomplished by covering a frame with fabric such, or moving a pot into an area that is protected from the afternoon sun.



Stormwater

Stormwater—that does not percolate into the soil to become groundwater— runs over the land and down a storm drain. The water flows through a network of underground pipes and open channels directly to our streams, rivers, and lakes. This is your MS4 or Municipal Separate Storm Sewer System.

When water flows off our property after a storm, what's on our lawns, driveways, roads, buildings, and parking lots flow with it. The water that doesn't soak into the ground picks up oil, litter, fertilizer, and other unhealthy items along its way as it flows to our rivers, lakes, and streams. Water pollution can start on your property in ways you cannot see, that can affect your health and the whole community downstream. Watching what we put on our property and in our storm drains makes our rivers, lakes, and streams cleaner, healthier, and more enjoyable. That’s why keeping stormwater clean is vital to the health of our waterways, community, and even our economy. By investing in solutions to manage stormwater, we help make our community a safer, greener, healthier, and more enjoyable place to live.

Here are just a couple of practices that can help protect your water:

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Information and graphic provided by the United States Environmental Protection Agency.

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Fats, Oil and Grease, should **never** be poured down a sink or other drain. These substances solidify and accumulate in the pipes where they cause slow drainage and blockages, and can even lead to your drains and toilets backing up into your home.

Fats	Oils	Grease
Solid at room temp	**Liquid at room temp**	**Liquid during cooking, but solidifies when cooled**
Butter, shortening, margarine, meat trimmings, uncooked poultry skin	Vegetable oil Canola oil Olive oil Salad dressings Cooking oil	Gravy, mayonnaise melted meat fat (bacon, sausage, ground beef)

Instead of pouring cooking oil or grease down your drain, pour it into an old jar or can. The jar can be stored in the fridge for a longer duration or on the counter if you anticipate filling it more quickly. If you use paper towels or have newspaper at your home, you can use it to soak up extra grease from pans other dishes and dispose of it right away.



FOG remains a problem at the municipal level. Sewer pipes carrying water from your home to a Waste Water Treatment Plant (WWTP), can clog and cause sewers to backup and overflow. Sewer lines commonly cross through wood lands and over streams so a spill might not be noticed for a while, and spills of untreated wastewater into streams can have severe environmental impacts and cost the municipality tens of thousands of dollars in fines.

Sewer lines will probably stop at a lift station. A lift station essentially lifts the water to a higher elevation so gravity can move the waste water to its next destination and/or use a pump to increase pressure and force the waste water through the pipes. FOG can cause issues at the lift station too. FOG can clog pumps and build up as grease balls that will prevent the floats used to turn on and off pumps. This can lead to wastewater overflows, which can cost the city thousands to tens of thousands of dollars for maintenance and repairs, and can have severe environmental impacts.

At the wastewater plant FOG wreak havoc. Waste Water Treatment Plants utilize biological treatments (bacteria aka bugs) to breakdown the waste. All different types of bugs live in the waste all the time, but when the FOG increases so do the bad bugs. This imbalance increases the chance of improper treatment, permit exceedances and environmental impacts. A healthy waste water plant smells like rich soil, a plant out of balance stinks!



Stormwater Complaint and Information Hotline:

DPW Environmental Division
515 15th Street, Building 14600
Fort Gordon, GA 30905

Fort Gordon: 706-791-4286

Gillem Enclave: 404-469-3222

@ftgordonenvironmental

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Green Matters Newsletter

CY YYYY	1st Quarter MM/DD/YYYY		2nd Quarter MM/DD/YYYY		3rd Quarter MM/DD/YYYY		4th Quarter MM/DD/YYYY		
	Placed	Distributed	Placed	Distributed	Placed	Distributed	Placed	Distributed	Newsletters Distributed
Points West									
Darling Hall									
Dining Hall 25704									
Dining Hall 25717									
Dining Hall 29704									
PX									
DPW									
Family Housing									
Library									
Vistor Center									

Total Distributed: 0

CY 2025	FORT Gordon ENVIRONMENTAL DIVISION FACEBOOK	
	Visits	Likes
JAN		
FEB		
MAR		
APR		
MAY		
JUN		
JUL		
AUG		
SEP		
OCT		
NOV		
DEC		
TOTAL	0	0

APPENDIX B

Public Participation Pet Waste, Stormwater Hotline and Tracking Forms

FORT **GORDON** DOG PARK PET WASTE COLLECTION DATA YYYY	
Dates Cleaned	**Amount Collected (lbs)**
Q1	
Q2	
Q3	
Q4	
Total Waste Disposed (in lbs)	0

Fort Gordon Stormwater Support Line and Complaint Tracking Log

Year	YYYY	YYYY	YYYY	YYYY	YYYY
Total # of calls received					
Erosion related					
Flooding related					
Illicit Discharge related					
Construction related					
Other					
Dumping related					
Total # of calls responded to					
Erosion related					
Flooding related					
Illicit Discharge related					
Construction related					
Other					
Dumping related					
Total # of non-support line complaints received (emails/walk-ins/in-person contact to DPW ED personnel)					
Erosion related					
Flooding related					
Illicit Discharge related					
Construction related					
Other					
Dumping related					
Total # of non-support line complaints responded to (emails/walk-ins/in-person contact to DPW ED personnel)					
Erosion related					
Flooding related					
Illicit Discharge related					
Construction related					
Other					
Dumping related					
Complaint Status					
# of Ongoing complaints					
# of Closed complaints					

FORT GORDON STORMWATER COMPLAINT ID TRACKING LOG YYYY							
Complaint ID #	**Date Received**	**Date Investigated**	**Location**	**Status of Complaint**	**Enforcement Taken**	**Nature of Complaint**	**Method of Submittal**

FORT GORDON / GILLEM ENCLAVE STORMWATER COMPLAINT INVESTIGATION FORM

Complaint ID #:		Call Date:		Call Time:
Type of Complaint: ☐ Illicit Discharge	☐ Construction	☐ Dumping	☐ Erosion	☐ Flooding
Caller Contact Information (*optional*):				
Incident Location (*complete one or more below*)				
Latitude and Longitude:				
Street Address or Outfall #:				
Closest Street Address:				
Nearby Landmark:				
Location Description: Inlet				
☐ Along Stream	☐ Outfall	☐ Near Storm Drain		
Narrative description of location:				
Complaint Investigation Details (*complete one or more below*)				
Investigation Date:	Investigation Time:	Investigator:		
☐ Oil/Solvents/Chemicals	☐ Wash water suds	☐ Dumping	☐ Other	
Odor	☐ None	☐ Rancid/Sour	☐ Sewage	☐ Petroleum/Gas
	☐ Rotten eggs	☐ Other	☐ Erosion	☐ Flooding
Appearance	☐ Normal	☐ Oil Sheen	☐ Cloudy	☐ Suds
	☐ Other: Describe in "Narrative" section			
Floatables	☐ None	☐ Sewage	☐ Erosion	☐ Flooding
	☐ Other: Describe in "Narrative" section			
Narrative description of the problem indicators:				
Other Details: Illicit Discharge [Suspected Violator (name, personal or vehicle description, license plate #, etc.)]				
Status of Complaint: ☐ Investigation Ongoing	☐ Closed	☐ Under Enforcement		

Revised Dec 2021

APPENDIX C

IDDE Legal Authority, Policy, Outfall Inventory and Map, Educational Material and Tracking, and DWS Inspection Form

Army Regulation 200–1

Environmental Quality

Environmental Protection and Enhancement

Headquarters
Department of the Army
Washington, DC
13 December 2007

UNCLASSIFIED

SUMMARY of CHANGE

AR 200–1
Environmental Protection and Enhancement

This administrative revision, dated 13 December 2007--

o Updates the policy regarding Army Program Guidance Memorandum (para 15-1).

o Corrects typographical errors throughout the publication.

Headquarters
Department of the Army
Washington, DC
13 December 2007

*Army Regulation 200–1

Effective 27 December 2007

Environmental Quality

Environmental Protection and Enhancement

By Order of the Secretary of the Army:

GEORGE W. CASEY, JR.
General, United States Army
Chief of Staff

Official:

JOYCE E. MORROW
Administrative Assistant to the Secretary of the Army

History. This publication is an administrative revision. The portions affected by this administrative revision are listed in the summary of change.

Summary. This regulation covers environmental protection and enhancement and provides the framework for the Army Environmental Management System.

Applicability. This regulation addresses environmental responsibilities of all Army organizations and agencies. Specifically, this regulation applies to—
(a) Active Army, Army National Guard/Army National Guard of the United States, and United States Army Reserve.
(b) Tenants, contractors, and lessees performing functions on real property under jurisdiction of the Department of the Army (for example, Army and Air Force Exchange Service (AAFES), Defense Commissary Agency (DECA)).
(c) Activities and operations under the purview of the Army even when performed off of installations.
(d) Formerly used defense sites (FUDS) and other excess properties managed by the Army. As used throughout this regulation, the term Army National Guard includes the Army National Guard of the United States.

Installations and facilities in foreign countries will comply with requirements of this regulation that specifically prescribe overseas requirements.

Contracts to operate Government-owned facilities will reference this regulation and will designate by specific citation the applicable provisions.

This regulation does not apply to civil works (CW) functions under the jurisdiction of the U.S. Army Corps of Engineers (USACE).

The terms "Army environmental programs" and "Army Environmental Program" must be read in context. All Army organizations, regardless of their organizational level or chain of command, have environmental responsibilities as part of their functions; these environmental responsibilities must be incorporated into the planning, programming, budgeting, and execution of their respective missions. The Assistant Chief of Staff for Installation Management, working through the Director of Environmental Programs (see Responsibilities, para 1–13x), has specific and more narrowly defined responsibilities that are planned, programmed, budgeted, and executed via assigned accounts. These accounts resource specifically prescribed and focused environmental efforts. Each organization must program and fund its environmental activities from the appropriate account of the proponent's operating budget, not necessarily an environmental account. Being mindful of the context in which requirements are articulated will help define the scope of the "program" being addressed and will preclude inappropriate resourcing decisions or expectations.

Proponent and exception authority. The proponent of this regulation is the Assistant Chief of Staff for Installation Management. The proponent has the authority to approve exceptions or waivers to this regulation that are consistent with law and regulations. The proponent may delegate this approval authority, in writing, to a division chief within the proponent agency or its direct reporting unit or field operating agency, in the grade of colonel or the civilian equivalent. Activities may request a waiver to this regulation by providing justification that includes a full analysis of the expected benefits and must include formal review by the activity's senior legal officer. All waiver requests will be endorsed by the commander or senior leader of the requesting activity and forwarded through their higher headquarters to the policy proponent. Refer to AR 25–30 for specific guidance.

Army management control process. This regulation contains management control provisions and identifies key management controls that must be evaluated.

Supplementation. Supplementation of this regulation and establishment of command or local forms are prohibited without prior approval from Assistant Chief of Staff for Installation Management, 600 Army Pentagon, Washington, DC 20310–0600.

Suggested improvements. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) through the chain of command to HQDA, DAIM–ED, 600 Army Pentagon, Washington, DC 20310–0600.

Distribution. This publication is available in electronic media only and is intended for command levels C, D, and E for the Active Army, the Army National Guard/Army National Guard of the United States and the United States Army Reserve.

*This regulation supersedes AR 200–1, dated 28 August 2007.

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Chapter 1
Introduction

Section I
General

1–1. Purpose

a. This regulation implements Federal, State, and local environmental laws and DOD policies for preserving, protecting, conserving, and restoring the quality of the environment. This regulation should be used in conjunction with 32 Code of Federal Regulations (CFR) Part 651 (32 CFR 651), which provides Army policy on National Environmental Policy Act (NEPA, 42 USC 4321–4347) requirements, and supplemental program guidance, which the proponent of this regulation may issue as needed to assure that programs remain current. Environmental stewardship includes, but is not limited to—

(1) Environmental components of installation sustainability.

(2) Environmental support to the Army training and testing mission.

(3) Environmental support during deployments and contingency operations on and off the installation, and operations at Army facilities that are not officially designated as installations.

(4) Compliance-related Cleanup (CC) Program.

(5) Army Defense Environmental Restoration Program (DERP).

(6) Formerly used defense sites (FUDS).

(7) Defense and State Memoranda of Agreement/Cooperative Agreement (DSMOA/CA) Program.

(8) Pollution prevention.

(9) Compliance with environmental legal mandates.

(10) Natural resources.

(11) Cultural resources.

(12) Environmental protection aspects of pest management.

(13) Environmental training for military and civilian personnel.

(14) Base realignment and closure (BRAC) environmental program.

(15) NEPA requirements.

(16) Operational noise.

(17) Environmental quality technology (EQT).

(18) Environmental Legislative/Regulatory Analysis and Monitoring Program (EL/RAMP).

(19) Environmental reporting and information management.

(20) Environmental considerations in real estate and materiel acquisition programs.

b. This regulation defines the framework for the Army Environmental Management System (EMS). All appropriate facilities were to have implemented a mission focused EMS by the end of calendar year (CY) 05, and must attain International Organization for Standardization standard 14001 (ISO 14001) conformance by the end of FY09. The Army EMS Commanders Guide, Army EMS Implementer's Guide, and Army EMS Aspects and Impact Methodology for Army Training Ranges provide detailed implementation guidance.

c. The chapters of this regulation reflect inclusion of the five interconnected EMS areas of policy, planning, implementation and operation, checking and corrective action, and management review.

(1) *Policy.* The Army Environmental Policy Statement reflects the Army's commitment to environmental protection and enhancement, pollution prevention, and continual improvement (chap 2).

(2) *Planning and implementation.* The Army will identify how its operations impact the environment. It will set objectives and targets for reducing impacts. It will identify and track applicable legal and other requirements, and will support operational effectiveness and improve program management (chap 3).

(3) *Program management and operation.* The Army will assign roles and responsibilities for environmental management (section II of this chap), provide required environmental training, establish procedures for communication within and outside the organization, document environmental procedures, and provide for emergency preparedness and response (chap 15).

(4) *Checking and corrective action.* The Army will monitor and measure its progress in achieving stated goals, objectives, and targets, and will identify and implement corrective actions (chap 16).

(5) *Management review.* The Army will periodically review program performance and management system implementation and ensure continual improvement (chap 17).

1–2. References

Required and related publications and prescribed and referenced forms are listed in appendix A.

1–3. Explanation of Abbreviations and Terms

Abbreviations and special terms used in this regulation are explained in the glossary.

Section II
Responsibilities

1–4. The Secretary of the Army

The Secretary of the Army (SA) serves as trustee for the natural and cultural resources managed by the Army. The SA is responsible for protecting and sustaining the quality of the air, land, and water resources entrusted to the Army. The SA signs the Army Environmental Policy Statement and certifies that the Army Environmental Program Objective Memorandum (POM) for the Army Environmental Restoration Program (ERP) meets all legal requirements and agreements.

1–5. The Assistant Secretary of the Army (Installations and Environment)

The Assistant Secretary of the Army (Installations and Environment) (ASA(I&E)) has primary responsibility for the Army's military environmental programs (that is, other than civil works (CW) functions of the U.S. Army Corps of Engineers (USACE)). Those responsibilities are carried out through the Deputy Assistant Secretary of the Army (Environment, Safety, and Occupational Health) (DASA(ESOH)) who will—

a. Provide overall policy, advocacy, program direction, and oversight across installations, logistics, acquisition, and operations. This includes, but is not necessarily limited to, military operations and activities (including training, deployments, and contingency operations) on and off the installation and operations at Army facilities that are not officially designated as installations or sites.

b. Establish long-term strategy and annual AEP goals, objectives, and metrics.

c. Serve as the Army's top management representative for the Army EMS.

d. Provide policy and oversight for EMS responsibilities per ISO 14001 and this regulation.

e. Serve as the Army's senior policy level official for historic preservation in accordance with Executive Order (EO) 13287, Preserve America, and as the Federal Preservation Officer for oversight and coordination of Army activities under the National Historic Preservation Act (NHPA), including approving and signing Army National Register of Historic Places (NRHP) nominations for Federally-owned and -controlled historic properties.

f. Serve as the primary point of contact with the Office of the Secretary of Defense (OSD), Congress, other Federal and State agencies, and other components for environmental matters.

g. On behalf of the SA, carry out DOD executive agent (EA) responsibilities for the following OSD programs: Environmental Information Technology Management (EITM), FUDS, DSMOA, Low-Level Radioactive Waste (LLRW), Defense Occupational Health Program (DOHP), National Defense Center for Environmental Excellence (NDCEE), DOD regional environmental coordinators (RECs), DOD Forestry Reserve Account, and environmental-related annexes to Master Data Exchange Agreements.

h. Provide policy, advocacy, program direction, and oversight for Formerly Used Defense Sites (FUDS), Base Realignment and Closure (BRAC), and the Army's Defense Environmental Restoration Program.

i. Approve selection of Army representative(s) for inter-service and interagency environmental committees.

j. Provide oversight and coordination of strategic outreach and communication.

k. Provide policy, advocacy, program direction, and oversight of the Army EQT Program.

l. Serve as a permanent co-chair of the Environmental Technology Technical Committee (ETTC); consolidate and prioritize Army environmental technology needs and ensure the cost-effective allocation of available resources, consistent with the Army Program Guidance Memorandum (APGM).

m. Provide policy, advocacy, program direction, and oversight of environmental support to the Army acquisition process.

(1) In conjunction with the Assistant Secretary of the Army (Acquisition, Logistics, and Technology) (ASA (ALT)), annually review Army environmental quality research, development, test, and evaluation (RDT&E) efforts.

(2) Provide representation on the Overarching Integration Product Teams (OIPT) supporting Army Systems Acquisition Review Councils (ASARC) to ensure Army material in all acquisition categories meet requisite environmental criteria prior to milestone reviews.

(3) Provide recommendations to the Milestone Decision Authority regarding program environmental quality requirements.

n. Review all Army weapons system acquisition programs for potential or real impacts to environmental quality and/or Army installations.

o. Review Army weapons system acquisition program environmental quality costs by participating on the Army Cost Review Boards (CRB) and providing representation on weapons system cost working group Integrated Product Teams (IPTs).

p. Develop and approve funding policies for environmental programs in coordination with the Assistant Secretary of the Army (Financial Management & Comptroller) (ASA (FM&C)), and with the ASA (ALT) for RDT&E efforts.

q. Approve Army environmental input to Program Objective Memorandum (POM) direction, priorities, and guidance.

r. Approve AEP POM and budget submissions, resource allocations, unfinanced requirements (UFRs), and budget adjustments recommended by the ACSIM in coordination with the DCS, G–8 and the ASA (FM&C).

s. Ensure that the Army's trust responsibility and government-to-government relationship with Federally-recognized Indian Tribes are fulfilled.

t. Approve NHPA compliance agreements, as required.

u. Approve and integrate the Army Environmental Policy Institute (AEPI) and U.S. Army Environmental Command (USAEC) annual work plans.

v. Provide supervision and program direction for the AEPI, to include POM, budget, and UFR approvals.

w. Consult with the ACSIM on selection of the Director of Environmental Programs (DEP).

x. Serve as the intermediate rater for the DEP and Commander, USAEC, and provide input into their performance objectives.

y. Act as co-chair with the ACSIM for the HQDA Environmental Quality Control Committee (EQCC).

z. Provide direction and delegate specific actions to the Army DOD RECs.

aa. Manage the operation of the regional environmental offices (REOs).

ab. Serve a permanent co-chair of the DOD Operational and Environmental Executive Steering Committee on Munitions (OEESCM).

ac. Report annually to the SA/CSA on AEP execution.

ad. Serve as point of contact for external audits of the AEP.

ae. Provide Congressional testimony and reports to Congress.

af. Provide programmatic environmental scoping and planning to include National Environmental Policy Act (NEPA) and Strategic Environmental Assessment (SEA).

ag. Oversee AEP support to natural and built environments, to include ranges.

ah. Ensure the AEP addresses overseas installations and activities.

ai. Integrate energy, pollution prevention, and EMS.

aj. Integrate ESOH programs and activities with force protection and national security.

ak. Execute the EL/RAMP.

1–6. The Assistant Secretary of the Army (Financial Management and Comptroller)

The Assistant Secretary of the Army (Financial Management and Comptroller) (ASA (FM&C)) will—

a. Issue planning, programming, budgeting, and execution (PPBE) system policy, Funding Authorization Document (FAD) footnotes for the Conservation Reimbursable Forestry and Agricultural/Grazing Outlease Programs, guidance for environmental programs, and Fish and Wildlife Conservation Fund (21X5095) apportionments, in coordination with the ASA (I&E).

b. Develop an independent cost estimate (ICE) that includes an environmental quality life cycle cost estimate (EQLCCE) for each weapons system. Reconciles differences in the EQLCCE, and the program office estimate (POE) in developing the Army cost position (ACP).

c. Collect and report environmental liabilities for the Army's Financial Statement.

1–7. The Assistant Secretary of the Army (Acquisition, Logistics, and Technology)

The Assistant Secretary of the Army (Acquisition, Logistics, and Technology) (ASA (ALT)) will—

a. Provide policy, guidance, oversight, and technical assistance to acquisition program managers and program executive offices as required to ensure integration of environmental quality considerations in all aspects of acquisition programs.

b. Plan, program, budget, and execute the Army's Environmental Quality Technology Program (for EQT Budget Activity 1, 2, and 3 Program initiatives) in coordination with the ASA (I&E) to maximize the ability of the Army to achieve its environmental strategy.

c. Develop policy to ensure procurement of materiel designed to minimize environmental impacts throughout its life cycle, while ensuring operational effectiveness.

d. Develop policy in coordination with the ASA (I&E) on acquisition of hazardous material.

e. Develop and oversee initiatives to reduce the volume and toxicity of hazardous materials and ozone depleting substances (ODS) used in Army materiel.

f. Review annually Army environmental quality technology program RDT&E efforts in conjunction with the ASA (I&E).

g. Designate the Director, Research and Laboratory Management, OASA(ALT), a permanent co-chair of the Environmental Technology Technical Committee (ETTC), who in conjunction with the ACSIM, consolidates and

prioritizes Army environmental technology needs and ensures the cost-effective allocation of available resources, consistent with the APGM.

h. Integrate environmental considerations/awareness into acquisition programs and training in accordance with DODD 5000.1.

i. Ensure that environmental quality life cycle costs are clearly identified in the Program Office Estimate.

j. Serve as the proponent for the Army Green Procurement Program (GPP) to facilitate compliance with Affirmative Procurement requirements (for recovered materials and biobased items) and encourage the acquisition and use of environmentally preferable products and services.

k. Ensure all requests for proposal (RFP), contracts, and contract modifications include a requirement that bidders providing goods and services to installations certify (in the Representations and Certifications component of their proposal) that operations of their team (including subcontractors) will be consistent with the installation's and the Army's EMS.

l. Incorporate environmental and EMS requirements into appropriate acquisition regulations, policies, and procedures, and appoint a single point of contact for coordinating this action with the ACSIM/DEP.

m. Provide direct support to the Army Acquisition Community, Program Executive Officers, and Program/Product/Project Managers regarding environmental and affirmative procurement initiatives, issues and concerns by—

(1) Providing recommendations to the Army Acquisition Executive (AAE) or other decision authority about environmental issues associated with materiel and ASA (ALT) mission functions.

(2) Designating a single point of contact for coordinating environmental issues related to materiel development, logistics, and technology for Headquarters, Department of the Army (HQDA) component organizations in coordination with the Office of the ASA (I&E).

(3) Ensuring execution of environmental policy by acquisition managers.

1–8. The Chief of Public Affairs

The Chief of Public Affairs (CPA) will—

a. Provide policy, guidance, and oversight for public affairs support to the Army's environmental programs.

b. Provide advice and recommendations on handling the public affairs aspects of Section 552, Title 5, United States Code (5 USC 552) requests related to the environmental program.

1–9. The Deputy Chief of Staff, G–3/5/7

The Deputy Chief of Staff, G–3/5/7 (DCS, G–3/5/7) is responsible for developing and coordinating policy, programs, and initiatives to achieve directed levels of training readiness for the Army and serves as the overall integrator of Army Transformation. The DCS, G–3/5/7 will—

a. Serve as the focal point for spectrum activities encompassing force development, combat development, training development, resource management, and prioritization.

b. Establish priorities and requirements for Army ranges and training lands.

c. Exercise overall supervision, direction, and management oversight for the Sustainable Range Program (SRP). Specific responsibility for the SRP resides with the Chief, Training Support Systems Division (DAMO–TRS), who will—

(1) Serve as the HQDA functional proponent for the SRP and its core programs.

(2) Formulate policies and issue administrative programmatic guidance and instructions for implementing and sustaining the core programs within Army Commands (ACOMs), Army Service Component Commands (ASCCs), and Direct Reporting Units (DRUs), the Army National Guard (ARNG), and Headquarters, Installation Management Command (HQ IMCOM).

(3) Formulate policies for planning, programming, operating, and managing ranges and training lands that specify how the Army will—

(a) Resource range operations and modernization through the Range and Training Land Program, and land management and maintenance through the Integrated Training Area Management (ITAM) Program.

(b) Integrate range requirements into the overall Army infrastructure investment strategy in conjunction with the Office of the Assistant Chief of Staff for Installation Management (OACSIM).

(c) Centrally fund unexploded ordnance (UXO) clearance for range modernization projects.

(d) Centrally fund the preparation of NEPA documentation for range modernization projects and major training land acquisitions.

(e) Coordinate and synchronize range and training land policy to preclude conflicts between range operations and military training, natural and cultural resources management, environmental management, facilities management, and master planning activities.

(4) Serve as the co-chair of the Army Range Sustainment Integration Council (ARSIC).

1–10. The Deputy Chief of Staff, G–4

The Deputy Chief of Staff, G-4 (DCS, G-4) will—

a. Identify, program, and secure funds to address the environmental aspects of the functions for which the DCS, G–4 is responsible.

b. Incorporate environmental considerations and requirements into all aspects of the DCS, G–4 mission, to include materiel management, integrated logistics support, supply, transportation, maintenance management, and logistics training.

c. Serve as the staff proponent for policy development pertaining to hazardous materials minimization and management, to include inventory management per AR 710–2.

d. Ensure that timely hazardous material (HM) handling, packaging, and transportation training is provided to Army personnel within the continental United States (CONUS) and overseas as required.

e. Serve as the proponent for implementation of the Military Munitions Rule.

f. Execute quarantine responsibilities for transport and logistics.

1–11. The Deputy Chief of Staff, G–8

The Deputy Chief of Staff, G-8 (DCS, G-8) will—

a. Provide Army cross-PEG (Program Evaluation Group) funding process guidance to assure cost effective compliance with environmental legal mandates while optimizing benefits to the Army missions and operations.

b. Assure priority is given to resource allocation that cost effectively resolves environmental aspects that impact missions and operations needed to equip, sustain and train our combat forces.

c. Review plans and requirements of Senior Mission Commanders, Army Command/Army Service Component Command/Direct Reporting (ACOM/ASCC/DRU) commanders, acquisition program managers and garrison commanders that address compliance with legal environmental mandates and resolve environmental aspects impacting missions and operations.

d. Review plans and requirements for the Army Environmental Program in coordination with the Assistant Chief of Staff for Installation Management (ACSIM).

e. Conduct annual review of resources allocated to sustaining Army environmental compliance to overhead investments in the most cost effective manner.

1–12. Commander, U.S. Army Corps of Engineers

The Commander, U.S. Army Corps of Engineers (USACE) will—

a. Administer the Clean Water Act (CWA) Section 404 permit program pertaining to the discharge of dredged/fill material into waters/wetlands of the United States.

b. Provide additional environmental support to the Army and other DOD elements as requested.

c. Provide environmental support to other Federal, State, and local agencies when tasked.

d. Provide Army DERP execution support on a reimbursable basis to installations through Districts and the Centers of Expertise for hazardous, toxic, and radioactive waste (HTRW) and for munitions and explosives of concern (MEC).

e. Administer the DSMOA/CA Program for the Assistant Deputy Undersecretary of Defense (Environment, Safety, and Occupational Health) (ADUSD (ESOH)).

f. Serve as executing agency for the FUDS program, consistent with the FUDS Charter. Establish FUDS requirements and policy guidance for program management, planning, reporting, execution, data access, quality control, and performance measurement.

g. Provide technical support by implementing sustainable design and development (SDD) practices, including incorporating SDD/sustainable project rating tool (SPiRiT) and environmental criteria into the Army's project design and construction process. (NOTE: Beginning in FY08, SPiRiT will be replaced by Leadership in Energy and Environmental Design (LEED); all new construction must meet the LEED Silver standard.)

h. Incorporate environmental requirements into appropriate USACE activities, and appoint a single point of contact for coordinating this action with the ACSIM/DEP.

i. Approve and integrate the USACE Engineer Research and Development Center (ERDC) EQT program and provide overall policy direction for the ERDC.

1–13. The Assistant Chief of Staff for Installation Management

The Assistant Chief of Staff for Installation Management (ACSIM) will—

a. Serve as the HQDA proponent for the AEP.

b. Establish priorities, guidance, and procedures for installation operations, real property management, and environmental stewardship for all activities and functions within Army garrisons.

c. Promote environmental stewardship and sustainability in support of the ASA (I&E).

d. Incorporate environmental requirements into appropriate regulations, guidance documents, and procedures to support environmental stewardship.

e. Co-chair the HQDA annual Review and Analysis with the ASA (I&E).

f. Issue appropriate programming and funding guidance to ACOMs, ASCCs, DRUs, NGB–ARNG, HQ IMCOM, and special installations to support development of the environmental programs component of the Program Objective Memorandum (POM).

g. Develop and direct the planning, programming, and budget execution of the environmental components of the Installations Program Evaluation Group (II PEG) programs needed to sustain readiness and comply with appropriate Federal, State, and local laws, Executive Orders, DOD Directives overseas Final Governing Standards, international treaties and Status of Forces Agreements (SOFAs) in accordance with General Order #3 and APGM. This specifically includes base operations support (BOS) service activities addressed by the following Management Decision Packages (MDEPs):

(1) VENC (Environmental Compliance).

(2) VENN (Environmental Conservation).

(3) VEMR (Environmental Support to Ranges and Munitions).

(4) VEPP (Pollution Prevention).

(5) VEQT (Environmental Technology).

(6) ENVR (Environmental Restoration).

h. Direct execution of the environmental components of the Installations Program Evaluation Group (II PEG) programs.

i. Serve as proponent of the Army Compatible Use Buffer (ACUB) program.

j. Perform the EA duties for the DOD Forestry Reserve Account in coordination with the DASA (ESOH).

k. Provide representation for environmental and installation concerns on the Army Requirements Oversight Council (AROC).

l. Provide guidance on incorporating BRAC oversight and responsibilities on environmental and Military Munitions Response Program (MMRP) through the ACSIM BRAC Division (DAIM–BD).

m. As the Army's combat developer (CBTDEV) for installations, generate, validate, and prioritize environmental quality RDT&E requirements.

n. Serve as a member of the Environmental Technology Technical Council (ETTC).

o. Serve as proponent for Army SDD facility policies that are incorporated into the process of planning, designing, constructing, operating, maintaining, renovating, and disposing installation facilities.

p. Serve as the technical advisor to ASA (I&E) for all environmental matters impacting installation sustainment and materiel operation and support.

q. Promote and integrate installation sustainability across all functional areas (for example, logistics, environment, training, engineering).

r. Maintain an organization within the OACSIM that will—

(1) Provide to the ASA (I&E), and others as directed, an Environmental Quality Impact Analysis (EQIA) for major weapons systems acquisition program decision reviews.

(2) Provide technical support to the ASA(FM&C) for environmental quality life cycle cost estimates as part of the Army Cost Review process as required.

(3) Upon request, assist program managers in integrating environmental quality considerations into all aspects of the acquisition program.

s. Issue implementing guidance to eliminate ODS use on Army installations.

t. Issue implementing guidance with respect to endangered species critical habitat designation.

u. Provide annual authorities for the forestry, agricultural/grazing, and hunting and fishing fee reimbursable programs.

v. Serve as initial denial authority and acts on FOIA requests for records pertaining to environmental activities, other than litigation.

w. Manage the Environmental Restoration, Army (ER, A) account.

x. Manage environmental program responsibilities for base operations support (BOS) through the Office of the Director of Environmental Programs (ODEP). The ODEP will—

(1) Serve as the HQDA functional proponent for the Army Environmental Program (AEP).

(2) Provide HQDA oversight of the AEP that reflects overall Army compliance, stewardship, sustainability, and readiness priorities.

(3) Formulate and issue Army guidance and instructions for implementing and sustaining the AEP.

(4) Coordinate AEP requirements with all appropriate organizations to preclude conflicts, and to synchronize activities, among operations and training, real property management, and master planning.

(5) Identify, plan, program, budget, support, and defend military resource requirements for the AEP.

(6) Exercise primary Army staff (ARSTAF) responsibility to oversee, manage, and coordinate Army military

environmental programs as described in paragraphs 1–1a(1)-1–1a(20), including resource utilization and progress toward goals and objectives for II PEG funded programs.

(7) Serve as the proponent for the Army Environmental Awards Program.

(8) Establish the Configuration Control Management Board (CCMB) to advise the DEP on Army Environmental Reporting matters.

(9) Develop guidance for implementation, utilization, and coordination of geospatial information and services within the environmental program.

(10) Exercise primary ARSTAF responsibility to collect, coordinate, and integrate user requirements for the Army EQT Program through the Army Environmental Requirements and Technology Assessment (AERTA) process.

(11) Participate in the EQT Teams to ensure the Army's EQT user needs are effectively addressed.

(12) Provide guidance and recommendations on all issues directed to the ACSIM concerning policies and PPBE for the CC Program, Army DERP (including Installation Restoration Program (IRP) and MMRP), BRAC cleanup, and FUDS.

(13) Provide general oversight, resource requirements verification, and guidance for the execution of the FUDS Program to ensure program execution consistent with the FUDS Charter.

(14) Provide oversight of the Environmental Performance Assessment System (EPAS).

(15) Serve as the Executive Secretary to the DOD Operational and Environmental Executive Steering Committee for Munitions (OEESCM) and the HQDA EQCC.

(16) Serve as the chairman of the DOD Hazardous Waste Management Subcommittee.

(17) Serve as co-chair of the ARSIC.

(18) Execute EMS responsibilities per ISO 14001 and this regulation.

(19) Monitor the execution of the AEP to conform to EMS.

(20) Establish implementing guidance for Army environmental reporting systems.

(21) Provide upward reporting on progress in meeting AEP goals and objectives to HQDA leadership, OSD, and Congress.

(22) Develop appropriate Army-wide standards and metrics for the AEP.

(23) Designate two ACSIM representatives as voting members on the Armed Forces Pest Management Board (AFPMB). Designate Army senior consultant (ASC) and DOD certification officials for Army civilian personnel per DOD policies and procedures.

(24) Maintain an efficient and well-trained workforce.

(25) Coordinate AEP strategic outreach.

(26) Centrally manage the Conservation Reimbursable Forestry, Agricultural/Grazing Outlease, and Fish and Wildlife Conservation Programs; set installation specific Automatic Reimbursable Authority for forestry and agricultural/grazing at installations.

1–14. Commander, Installation Management Command

The Commander, Installation Management Command (IMCOM) will—

a. Execute sustainable base operations support for all installations under its purview in compliance with applicable laws and regulations (to include Final Governing Standards (FGS), and international agreements overseas) to support the Army training and testing mission.

b. Integrate program guidance, goals, and issue across installation functional areas (for example, logistics, environment, training, engineering, and planning).

c. Oversee management of installation environmental programs.

d. Provide program management reviews for the ACSIM and DASA (ESOH).

e. Monitor and track environmental performance of Regional Offices and the US Army Reserve.

f. Assist installations in the execution of the Army CC program.

g. Develop an annual program management plan (PMP), consistent with the Army Cleanup Strategy and Strategic Plan, for the CC Program.

h. Coordinate IMCOM issues that affect mission among senior mission commanders (SMCs), ACOMs, ASCCs, DRUs, and garrisons.

i. Coordinate the execution of the EPAS Program for the active Army through USAEC.

j. Participate in environmental awards activities as appropriate.

k. Review, analyze, perform quality assurance/quality control (QA/QC), and approve environmental requirements and data reported by installations.

l. Maintain an efficient and well-trained workforce.

m. Coordinate with the DCS, G–3/5/7, ACOMs, ASCCs, DRUs, and Directorate of Plans, Training, Mobilization, and Security (DPTMS) to ensure ITAM Program requirements are implemented in accordance with DAMO–TRS resource allocations and guidance.

n. Report progress in meeting AEP goals and objectives to HQDA leadership.

o. Provide guidance and assistance to garrisons and monitor the execution of IMCOM's portion of the AEP in accordance with EMS.

p. Assist IMCOM installations in negotiations with regulatory agencies to preclude adverse mission impacts or the inadvertent establishment of Army policy that may conflict with regulatory requirements.

q. Provide AEP technical implementation support through the Commander, USAEC, who will—

(1) Provide environmental technical products and services in support of Army training, operations, acquisition, and sound stewardship.

(2) Manage assigned elements of the Army Cleanup Program in accordance with ACSIM direction and guidance. Develop and execute an annual program management plan (PMP), consistent with the Army Cleanup Strategy and Strategic Plan, for the Army DERP.

(3) Provide technical support for pest management.

(4) Program for and coordinate execution of EPAS for the active Army.

(5) Provide program management for the Army DERP at active installations.

(6) Execute policy and guidance for Army environmental reporting systems.

(7) Provide technical support to the Chief, Training Support Systems Division, Office of the DCS, G–3/5/7 in support of the SRP core programs.

(8) Provide technical support and day-to-day operational oversight for Conservation Reimbursable Forestry, Agricultural/Grazing Outlease and Fee Collection Programs.

(9) Provide technical support to DASA (ESOH) in support of the ASARC and CRB.

(10) Provide technical support to the Army's EQT Program as it relates to installation issues.

(11) Provide outreach support to the AEP.

(12) Provide public affairs support to the AEP.

(13) Maintain an efficient and well-trained workforce.

(14) Provide Hazardous Material Management Program (HMMP) operational oversight to the DCS, G–4 for environmental hazardous material management.

(15) Perform data collection and analyses of HMMP environmental information to measure program success.

1–15. The Chief, Army Reserve

The Chief, Army Reserve (CAR) will—

a. Ensure environmentally sustainable operations.

b. Serve as the primary ARSTAF adviser for all Army Reserve mission-related environmental issues.

c. Ensure that Army environmental policy is implemented within the Army Reserve.

d. Ensure that environmental stewardship is incorporated into all aspects of the Army Reserve mission.

e. Coordinate with IMCOM on matters of mutual interest or concern.

1–16. National Guard Bureau - Director, Army National Guard

The National Guard Bureau – Director, Army National Guard (NGB-DARNG) will—

a. Execute environmentally sustainable base operations support in compliance with applicable laws and regulations to support the Army training and testing mission.

b. Ensure the NGB–DARNG acquires, manages and distributes resources; develops and administers policies and programs.

c. Serve as the "Channel of Communication" between the Army and the National Guard of the States, Territories and the District of Columbia.

d. Serve as the primary ARSTAF advisor for all ARNG environmental issues, and sign or appoint a designated representative to sign all ARNG Federal compliance agreements, consent orders, and environmental assessments, findings of no significant impact, and other pertinent Federal environmental documentation.

e. Coordinate with HQDA, State ARNGs, and other organizations to fulfill the NGB–ARNG's ARSTAF role as an Army component, the NGB–ARNGs role as the installation management organization for the State ARNGs, and the NGB–ARNG's role in performing ACOM, ASCC, or DRU functions.

f. Specific day-to-day responsibility for the environmental management program resides with the NGB–ARNG Chief of Environmental Programs (CEP). To carry out this responsibility, the NGB–ARNG CEP will—

(1) Ensure environmentally sustainable operations and planning.

(2) Ensure that Army environmental policy is implemented within the ARNG.

(3) Ensure that environmental stewardship is incorporated into all aspects of the ARNG mission.

(4) Integrate program guidance, goals, and issues across installation functional areas (for example, logistics, environment, training, engineering) and planning areas.

(5) Submit environmental base support requirements to the OACSIM. Budget and execute environmental resources consistent with program needs.

(6) Develop an annual program management plan (PMP), consistent with the Army Cleanup Strategy and Strategic Plan, for the Army CC Program; and provide program management reviews for the ACSIM and DASA (ESOH).

(7) Provide supplemental implementing guidance and instructions consistent with HQDA guidance for environmental reporting to the states.

(8) Report progress in meeting AEP goals and objectives to HQDA leadership.

(9) Provide State ARNGs guidance and assistance, and monitor the execution of the NGB–ARNG's portion of the AEP in accordance with EMS.

(10) Schedule and conduct all aspects of EPAS audits.

(11) Review, analyze, perform QA/QC, and approve environmental reporting data submitted by NGB–ARNG installations.

(12) Assist NGB–ARNG installations in negotiations with regulatory agencies to prevent adverse mission impacts due to Federal natural and cultural resources requirements.

(13) Support environmental awards activities.

(14) Maintain an efficient and well-trained workforce.

(15) At Federally-owned or leased NGB–ARNG installations, facilities, activities and properties—

(a) Provide oversight and facilitate coordination in the remediation process.

(b) Assist in the management and execution of ER, A-funded NGB–ARNG remediation sites.

(16) At Non-Federally-owned, Federally-supported NGB–ARNG installations, facilities, activities, and properties, provide guidance, planning, oversight, execution, monitoring, and reporting for NGB–ARNG cleanup sites.

1–17. The Judge Advocate General

The Judge Advocate General (TJAG) will provide legal advice to the Army on all environmental law matters, except those arising out of civil works (CW) and FUDS activities. The Chief, Environmental Law Division (ELD), will exercise those authorities on behalf of TJAG, and will specifically—

a. Serve as legal advisor to the ACSIM and DEP with regard to all environmental matters.

b. Advise the Army Secretariat in coordination with the General Counsel.

c. Provide technical channel supervision, coordination, and advice to all Army lawyers involved in Army environmental matters.

d. Monitor and provide advice regarding environmental legislation and regulatory developments that affect the Army.

e. Review and render legal opinions on all draft environmental orders, consent agreements, and settlements with Federal, State, or local regulatory officials (except those arising from FUDS) before signature.

f. Provide assistance to ACOMs, ASCCs, DRUs, IMCOM, NGB–ARNG, and installations in drafting or negotiating interagency agreements or orders on consent with Federal, State, and local regulators.

g. Be responsible for representing the Army in Federal and State litigation and for communicating the Army's position in litigation and settlement with the Department of Justice subject to the general oversight of the General Counsel.

h. Serve as agency counsel for the Army in appropriate administrative cases, hearings, and enforcement actions (ENFs).

i. Serve as initial denial authority and act on FOIA requests for records pertaining to environmental activities when the records relate to litigation in which the United States has an interest.

1–18. The Surgeon General

The Surgeon General (TSG) will—

a. Approve human health risk assessments and review environmental hazards and ecological risk assessments.

b. Provide policy on the human health aspects of Army installation activities and operations, to include those aspects associated with environmental contamination.

c. Integrate environmental awareness and technical information into the training programs sponsored by the Army Medical Department (AMEDD).

d. Serve as the Lead Agent for the DOD and as the Army representative in negotiating services with the Agency for Toxic Substances and Disease Registry (ATSDR).

e. Develop toxicological profiles concerning chemicals and hazardous substances commonly found on military installations. Develop and propose human health and safety environmental standards for chemical agents and explosive compounds, and other unregulated compounds when such standards do not exist.

f. Identify pollution-related health and ecological effects topics requiring research and development; and initiate needed research in areas where AMEDD has responsibility and provides toxicological and exposure data when required to support human health risk assessments.

g. Advise on human health aspects of environmental issues, including the "known and imminent substantial endangerment" (KISE) determination for environmental response actions overseas.

h. Provide technical assistance relating to health and, as requested, on environmental aspects of programs and initiatives.

i. Coordinate on the human and ecological health risk assessment portions of active installations, BRAC, and FUDS decision documents (DDs).

j. Promulgate policy for the disposition of dental, veterinary, medical, and pharmaceutical waste.

k. Provide two representatives as voting members on the AFPMB and designate personnel to serve as DOD pest management certification officials for Army uniformed personnel per DOD policies and procedures.

l. Coordinate with OACSIM for surveillance, prevention, and control of medically important pests and disease vectors and occupational health exposures from pest management operations.

m. Provide health and environmental risk communication support to all Army assets, to include training, consultation, conflict management, and facilitation.

n. Develop policy on occupational and public health issues related to Army environmental actions.

o. Through the U.S. Army Medical Command (MEDCOM) and the U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) will—

(1) Plan, organize, budget, and execute medical support to the Army environmental program.

(2) Serve as the decision authority for determinations of public health threat arising from Army environmental activities.

(3) Provide a broad range of expertise and services in environmental health, occupational health, and preventive medicine to evaluate the health aspects of the Army's environmental program.

(4) Provide environmental health support in all environmental media to Army and other DOD elements, as requested.

(5) Assist in the maintenance of the Military Item Disposal Instructions (MIDI) for the DOD.

(6) Provide preventive medicine leadership and services to anticipate, identify, assess and counter environmental and occupational health threats.

(7) Provide environmental health and occupational health expertise, products and services in support of training, operations, acquisition, research and development to assess the health risks associated with Army environmental programs and activities.

(8) Support USAEC with coordination and execution of the EPAS Program.

1–19. Army Command, Army Service Component Command, and Direct Reporting Unit commanders

The ACOM, ASCC, and DRU commanders, including those outside the continental United States (OCONUS), as used in this regulation, include the Director, NGB–ARNG when performing an ACOM, ASCC, or DRU role relative to State ARNGs, the State Adjutants General when performing an ACOM, ASCC, or DRU role relative to State ARNGs, and major subordinate commands (MSC). The ACOM, ASCC, and DRU commanders will—

a. Consistent with HQDA policy, provide oversight, policy, guidance, and resources to subordinate commands and activities to execute mission-related aspects of the Army's environmental program, to include: training and deployments; industrial operations; research, technology, and testing activities; operations other than war; and other operations and activities not falling under the direct control of supporting Garrison/Installation commanders.

b. Ensure that subordinate units comply with the policies and standards of the installations on which they are tenants.

c. Ensure that all subordinate units comply with all applicable laws, regulations, internal directives and goals, EOs, and overseas FGS.

d. Fully integrate environmental considerations into ACOM, ASCC, and DRU mission requirements.

e. Participate in and fully support all installation internal and external assessments and audits, and implement corrective actions.

f. Support environmental awards activities.

g. Ensure that assigned environmental staff is efficient and well-trained.

h. ACOM, ASCC, and DRU commanders that exercise command and control of installations will execute the same responsibilities listed under paragraph 1–13, Commander, IMCOM, with the following exceptions:

(1) Environmental requirements must be submitted through the ACOM, ASCC, DRU, and NGB–ARNG chain of command unless otherwise specified in the ISSA.

(2) ACOM, ASCC, and DRU commanders must monitor and track environmental performance at subordinate installations.

i. Additionally, the Commander, U.S. Army North (USARNORTH) will—

(1) Provide, upon request, personnel/resources support to the National Response Team (NRT) or Regional Response Team (RRT) responding to an environmental emergency. The requester will reimburse the cost of the support.

(2) Serve as the lead for all phases of mobilization, deployment/redeployment operations, and environmental support activities related to national emergencies.

1–20. The Commanding General, U.S. Army Forces Command

The Commanding General (CG), and U.S. Army Forces Command (FORSCOM) will—

a. Incorporate environmental planning requirements in mobilization guidance as appropriate.

b. Coordinate with IMCOM and DCS, G–3/5/7 on environmental support for mission activities, to include training exercises, range operations, and mission MILCON projects.

c. Provide explosive ordnance disposal (EOD) units for emergency response activities.

1–21. The Commanding General, U.S. Army Materiel Command

The Commanding General, U.S. Army Materiel Command (CG, AMC) will—

a. Provide technical assistance to acquisition program managers and program executive offices as required to ensure integration of environmental quality considerations in all aspects of acquisition programs and weapons system's life cycle, such as acquisition, maintenance, disposal, and demilitarization.

b. Conduct environmental research, development, testing, and evaluation and technical investigations in support of its missions and activities.

c. Support ASA (ALT) efforts to develop an integrated Army Environmental Quality Science and Technology program, and manage the portion of that program that supports acquisition, logistics, and industrial base user needs.

d. Coordinate acquisition, logistics, and industrial base user needs with the USACE and the ACSIM in areas impacting installation EQT.

e. Execute low-level radioactive waste (LLRW) management, including disposal.

f. Ensure that contracts include provisions for operations at government-owned, contractor-operated (GOCO) facilities to meet and remain compliant with environmental legal mandates and protect the Army from liability and/or fines assessed due to contractor operations.

g. Review and revise military specifications, standards, and drawings, when appropriate, to eliminate and/or reduce the use of extremely hazardous substances and toxic chemicals. Coordinate this effort with other program offices as required.

h. Conduct ACOM responsibilities for installations under its purview (see para 1–19).

1–22. The Commanding General, U.S. Army Training and Doctrine Command

The Commanding General, U.S. Army Training and Doctrine Command (CG, TRADOC) will—

a. Ensure the development and implementation of environmental training and doctrine programs and products that support military training and readiness operations are consistent with regulatory requirements and Army environmental policies.

b. Ensure that the U.S. Army Engineer School solicits and prepares environmental training packages as required for Soldiers and makes them available on-line through Army Knowledge Online (AKO) and/or other appropriate websites.

c. Ensure requirements documents incorporate environmental resources sustainment and lessons learned into all appropriate Army and Joint doctrinal publications and references.

d. Ensure all training procedures, training manuals, training doctrine, and requirements documents include sound environmental practices and procedures.

e. Coordinate with the OACSIM regarding establishment of staffing or training standards for all modified tables of organization and equipment (MTOE) and tables of distribution and allowances (TDA) unit designated environmental officers. Ensure environmental officer responsibilities are consistent with regulatory requirements and Army environmental policies.

f. Ensure organizations/units are designed with equipment and personnel to meet established environmental requirements.

1–23. Senior mission commanders

Senior mission commanders (SMC) will—

a. Comply with installation policies, applicable Federal, State, and local environmental laws, regulations, EOs, and overseas FGS and signed agreements.

b. Participate in the installation's planning, sustainability efforts, and EMS.

c. Designate a representative to the Environmental Quality Control Committee (EQCC).

d. Ensure personnel receive appropriate environmental training.

e. Coordinate testing and fielding of technology with the garrison commander (GC).

f. Participate in and fully support all installation internal and external assessments and audits, and implement corrective actions.

g. Fund environmental requirements not covered in the standard installation services or the ISSA (this does not apply to military units).

h. Appoint trained environmental officer(s) to ensure operational compliance and coordination with installation environmental staff.

i. Immediately report spills or releases of petroleum, hazardous substances, or hazardous waste (HW) to the GC.

j. Participate in the development of integrated natural and cultural resources management plans to ensure they are compatible with and support the mission.

k. In conjunction with the GC, ensure environmental requirements that impact ranges and training land are incorporated into the installation range complex master plan.

l. Where appropriate, coordinate with JALS–EL early on all environmental agreements, including but not limited to, fine and penalty settlement agreements, prior to signing them.

1–24. Garrison commanders

Garrison commanders (GC) as used in this regulation include commanders of USAR Regional Readiness Support Commands (RRSCs), State Adjutants General relative to the concept of the State as an installation, OCONUS U.S. Army Garrisons, and GCs as appropriate as determined by the IMCOM, Headquarters NGB–ARNG, and State Adjutants General. The GC will—

a. Ensure that Base Support activities support military training and readiness operations, enhance mission accomplishment, and are conducted in a manner conducive to environmental stewardship (see para 1–1a).

b. Comply with applicable Federal, State, and local environmental laws, regulations, internal directives and goals, EOs, and overseas FGS.

c. Investigate regulatory enforcement actions, complaints, and spills/releases, and correct systemic problems. Document investigation, negotiation, and resolution of enforcement actions and submit through the respective chain of command to ODEP, and through technical legal channels to JALS–EL.

d. Ensure environmental requirements that impact ranges and training land are identified and incorporated into the installation range complex master plan. Ensure the affected SMC is made aware of these impacts.

e. Ensure installation activities incorporate applicable environmental requirements into all procurement actions.

f. Apply for, sign, arrange funding, and maintain all applicable Federal, State and local environmental permits. Incorporate potential mission surge conditions when applying for environmental permits.

g. Maintain appropriate environmental records as required by law.

h. Record enforcement actions within 48 hours via the Army Environmental Reporting Online (AERO).

i. Coordinate with JALS–EL early on all environmental agreements, including but not limited to, fine and penalty settlement agreements, prior to signing them. GCs may not delegate approval or signature authority.

j. Ensure that compliance agreements and consent orders that are attributable to a tenant's mission and/or operations are coordinated through applicable legal and command channels to determine the appropriate funding activity.

k. Assess the long-term resource impacts of all environmental agreements. Coordinate resource implications for agreements through command channels to IMCOM, NGB–ARNG, ACOMs, ASCCs, or DRUs as appropriate prior to approval.

l. Ensure that non-DOD HM (that is, HM owned and/or used by non-DOD entities) is not stored, treated, or disposed of on the installation unless approved by the ASA (I&E), his or her designee, or higher authority.

m. Ensure that the installation strategic planning office (or equivalent) incorporates sustainability principles into strategic and other installation management plans; coordinate installation strategic plans with the SMC prior to finalization.

n. Implement an installation-wide Hazardous Materials Management Program (HMMP).

o. Promote recycling/reuse programs and Green Procurement policies.

p. Organize and chair the installation EQCC.

q. Organize and chair the installation Technical Review Committee/Restoration Advisory Board (TRC/RAB), as required.

r. Implement and maintain a mission-focused EMS in accordance with the ISO 14001 standard. Third party registration to the standard is not required, and environmental funds will not be used for this purpose. However, GCs may pursue third party registration when it provides clear and documented mission benefits.

s. Champion the installation EMS and designate an EMS representative in the appropriate organizational planning cell; ensure all planning incorporates the requirements of the EMS.

t. Participate fully in EPAS, conduct annual internal environmental compliance assessments, and coordinate assessments with all tenants.

u. Prepare and execute the installation corrective action plan (ICAP); coordinate and monitor completion of installation-wide corrective actions.

v. Ensure all environmental program plans are completed and implemented per guidance in chapter 3.

w. Designate personnel who are responsible and accountable for executing major program requirements as prescribed in chapters 4 through 14.

x. Deposit all proceeds from Conservation Reimbursable Programs as outlined in Section 2665, Title 10, United States Code (10 USC 2665); Section 2667, Title 10, United States Code (10 USC 2667); and Sections 670a and 670b, Title 16, United States Code (16 USC 670a and 670b, Sikes Act).

y. Serve as the Federal Agency Official with responsibility for installation compliance with the Native American Graves Protection and Repatriation Act (NAGPRA).

z. Establish government-to-government relations with Federally recognized Indian Tribes and Native Alaskans.

aa. Maintain a public affairs program that encourages public involvement.

ab. Ensure that the installation master plan incorporates environmental considerations.

ac. Identify environmental requirements, forward through command channels, and maintain auditable records.

ad. Execute the environmental budget to meet critical requirements.

ae. Maintain an efficient and well-trained environmental staff.

af. Ensure that Army law enforcement personnel are trained in conservation law enforcement where appropriate.

ag. Ensure that sufficient numbers of professionally trained natural resource management personnel and natural resources law enforcement personnel are available and assigned the responsibility to perform tasks necessary to comply with Section 670e, Title 16, United States Code (16 USC 670e).

ah. Approve record of decision (ROD)/decision documents (DDs) for environmental response actions within delegated approval authority.

ai. Approve integrated natural resource management plans (INRMPs).

aj. Hold tenant units accountable for complying with the policies and standards of the installation.

ak. Approve annual reports of availability (ROA) for timber sales after review by higher headquarters and USAEC.

al. Designate an installation wildland fire program manager and approve the integrated wildland fire management plan.

1–25. Medical Department Activity/Medical Center/Health Service Support Area commanders

The Medical Department Activity/Medical Center/Health Service Support Area (MEDDAC/MEDCEN/HSSA) commanders will—

a. Comply with applicable Federal, State, and local environmental laws, regulations, EOs, and overseas FGS.

b. Manage and dispose of non-*Resource Conservation and Recovery Act* (RCRA) Subtitle C medical, dental, veterinary, pharmaceutical and regulated medical wastes in accordance with AR 40–5 and applicable regulations.

c. Verify disposal requirements via the MIDI system updated and maintained by USACHPPM.

d. Ensure that regulated medical waste manifests are only signed by those individuals who have been appropriately trained and are authorized in writing by the activity commander or supervisor.

e. Appoint a trained environmental officer to ensure operational compliance and coordination with installation environmental staff, to include the coordination of medical waste management plans.

f. Advise on health aspects of the installation environmental program, and provide technical consultation and support services.

g. Identify environmental requirements, forward through command channels, and maintain auditable records.

1–26. Tenants

A tenant is an authorized activity located on an installation that is not part of the garrison organization. This includes, but is not limited to, military units, the Army and Air Force Exchange Service (AAFES), and the Defense Commissary Agency (DeCA). Tenants will—

a. Comply with installation policies, applicable Federal, State, and local environmental laws, regulations, EOs, and overseas FGS.

b. Establish an ISSA with the GC that addresses environmental oversight, to include funding responsibilities and facility access (this does not apply to military units).

c. Participate in the installation's planning, sustainability, and EMS (note, however, that installations should evaluate their liabilities concerning non-governmental tenants to determine whether any of them can be exempted from the installation EMS).

d. Designate a representative to the EQCC.

e. Ensure personnel receive required environmental training.

f. Participate in all installation internal and external assessments and audits, to include programming for corrective actions.

g. Fund environmental requirements not covered in the standard installation services or the ISSA (this does not apply to military units).

h. Identify and submit environmental requirements to the supporting ACOM, ASCC, DRU/higher headquarters (this does not apply to military units).

i. Identify and coordinate non mission-specific environmental requirements with the GC.

j. Pay environmental fines and penalties resulting from their mission activities.

k. Immediately report spills or releases of hazardous substances to the on-scene coordinator (OSC). Pay or reimburse costs associated with cleanup and spill response if not covered in the standard installations services or the ISSA.

l. Report all instances of non-compliance and notification of enforcement actions to the GC immediately.

m. Ensure that non-DOD hazardous material is not stored, treated, or disposed of on the installation unless approved by the OASA (I&E), his or her designee, or higher authority.

1–27. Commanders of Government-Owned, Contractor-Operated facilities

The Commanders of Government-Owned, Contractor-Operated (GOCO) facilities will—

a. In coordination with the contracting officer, ensure that contracts include provisions for operations at GOCO facilities to meet and remain compliant with environmental legal mandates to protect the Army from liability and/or fines assessed due to contractor operations.

b. Comply with installation policies, applicable Federal, State, and local environmental laws, regulations, and EOs.

c. Ensure that contractors assume responsibility for management and disposal of contractor-generated solid and HW.

d. Ensure that non-DOD hazardous material is not stored, treated, or disposed of on the installation unless approved by the OASA (I&E), his or her designee, or higher authority.

e. Deposit all proceeds from Conservation Reimbursable Programs as outlined in 10 USC 2665, 10 USC 2667, and 16 USC 670b.

f. Execute EMS responsibilities in accordance with contract provisions.

g. Assess the long-term resource impacts of all environmental agreements in coordination with the acquisition community. Coordinate resource implications for agreements through command channels as appropriate prior to approval.

h. Ensure that all contractor personnel receive appropriate levels of training on environmental awareness, hazardous material/waste management, and the installation EMS.

1–28. Unit commanders

The unit commanders will—

a. Instill an environmental ethic in soldiers and civilians under their command.

b. Ensure personnel receive required environmental training.

c. Comply with installation policies, applicable Federal, State, and local environmental laws, regulations, EOs, and overseas FGS.

d. Report noncompliance and spills through appropriate channels to the GC.

e. Incorporate environmental responsibilities and environmental risk management into unit SOPs and operation orders (OPORDs) as appropriate; integrate environmental considerations into the planning and execution processes in accordance with FM 3–100.4.

f. Appoint and train environmental officers at appropriate organizational levels to ensure compliance actions take place (see FM 3–34.500 for environmental officer responsibilities).

g. Support the installation-wide EMS.

Chapter 2
Environmental Policy

2–1. Commitment to Environmental Stewardship

a. The Army is committed to environmental stewardship in all actions as an integral part of its mission and to ensure sustainability.

b. This regulation supports the *Army Strategy for the Environment*, 1 October 2004, which presents the Army's environmental vision as sustainable operations, installations, systems, and communities enabling the Army mission. Under the strategy, the Army's environmental mission is to sustain the environment to enable the Army mission and secure the future. In doing so, all Army organizations and activities will—

(1) Foster an ethic within the Army that takes us beyond environmental compliance to sustainability.

(2) Strengthen Army operational capability by reducing our environmental footprint through more sustainable practices.

(3) Meet current and future training, testing and other mission requirements by sustaining land, air, and water resources.

(4) Minimize impacts and total ownership costs of Army systems, materiel, facilities, and operations by integrating the principles and practices of sustainability.

(5) Enhance the well being of our soldiers, civilians, families, neighbors, and communities through leadership in sustainability.

(6) Use innovative technology and the principles of sustainability to meet user needs and anticipate future Army challenges.

2–2. Army Environmental Policy Statement

a. All Army organizations and activities will comply with applicable Federal, State, and local environmental laws, regulations, executive orders (EOs), or overseas Final Governing Standards (FGS) (see para 15–8 for additional specific overseas requirements); develop and implement pollution prevention and control strategies; and establish environmental priorities in consideration of the benefits to the sustainment of missions and operations.

b. All Army organizations and activities will strive to achieve continual improvement in overall environmental performance and supporting management systems.

c. All Army organizations will ensure that this policy is implemented, maintained, and communicated to all military and civilian employees and supporting contractors. In addition, this policy will be made readily available to the public upon request.

d. All contracts and contract modifications will specify that contractors are liable for any enforcement actions, fines, and/or penalties resulting from their failure to comply with applicable environmental requirements.

2–3. Legal Requirements

All references to legal requirements in this regulation are intended to refer to laws, regulations, and executive orders that, in the opinion of legal counsel, are applicable to the Army. While most environmental laws apply to the Army, some include exemptions (or provisions for requesting exemptions) for military activities under certain conditions. It is essential that Army counsel, including but not limited to the Office of the Judge Advocate General, Army Environmental Law Division, JALS–EL), be consulted on the applicability of all laws, regulations, initiatives, and executive orders. Similarly, all permits, agreements, notices of violations, enforcement actions, especially reports of potential liability under paragraph 16–4, require early and close coordination with Army legal counsel that is responsible for direct support to the command or activity. As necessary, legal counsel at the installation level will coordinate issues and positions within the appropriate Army legal chain. Precedent-setting opinions, all enforcement actions, and agreements must be coordinated with JALS–EL. The requirement to consult with legal counsel supporting a command or activity is considered an essential part of effectively using this regulation. Additionally, this regulation prescribes program requirements in terms of "will" and "must", which mean that the actions are mandatory. All Army organizations will incorporate environmental considerations and requirements into all aspects of the organization’s mission.

Chapter 3
Planning and Implementation

3–1. Installation strategic planning

a. Environmental considerations must be incorporated into installation plans, including installation strategic plans. Installation strategic planning incorporates the concepts and philosophy of sustainability, the ultimate objective in strategic planning, and must be applied to and supported by all functional areas within the command.

b. Installation strategic planning is the long-term planning process that establishes the baseline and direction for all other plans and planning processes, including real property master plans (RPMPs), human resource plans, information technology (IT) and knowledge management plans, environmental management plans, functional business plans, etc. Guidance for these plans is provided by Headquarters, Installation Management Command (HQ, IMCOM), National Guard Bureau - Army National Guard (NGB–ARNG), and for special installations, owning Army Commands (ACOMs), Army Service Component Commands (ASCCs) and Direct Reporting Units (DRUs). This includes synthesizing and aligning pertinent information from The Army Plan, Army strategic planning guidance, Army programming and budgeting guidance, policies, and other sources of strategic guidance with the organizational mission, vision, values, principles, strategy maps, balanced scorecards, and so forth. The garrison commander (GC) applies this guidance to his or her own operations through the installation strategic planning process.

3–2. Activities, products, and services

a. The Army mans, equips, trains, sustains, mobilizes, deploys, and demobilizes the force as needed to support the combatant commanders.

b. Achieving the foregoing requires the Army to undertake a number of activities and to provide various products and services that include, but are not limited to (listed by mission/functional area):

(1) Weapons System Acquisition - including the major systems acquisition phases of concept and technology development, system development and demonstration, production and deployment, operations and support, and demilitarization and disposal.

(2) Logistics Support - including the acquisition, storage, distribution, and recovery of all classes of supply; maintenance of materials and equipment; transportation of personnel and materiel; and provision of support services such as food, commissaries, laundries, and property disposal.

(3) Training - including providing and conducting individual, functional, and organizational (both tactical and non-tactical) training.

(4) Infrastructure Development and Maintenance - including the total system of facilities; buildings; structures; horizontal transportation facilities (roads, railroads, bridges, dams, and airfields); utility, transport, and communication systems; ranges and other training areas; ports; airfields, and associated lands and equipment; and facilities (that is, real property) operation and maintenance, to include utilities, minor construction, and general engineering support.

(5) Industrial Operations - including the manufacture of commodities, equipment, and weapons systems.

(6) Base Operations Support - including all of the activities required to accomplish the missions and functions of assigned and tenant units and activities at the installation level.

(7) Health and Medical Support - including providing general health care and medical and dental support to personnel, as well as the operation and maintenance of Army hospitals, medical centers (MEDCENs), dental and veterinary clinics, medical treatment facilities, and supporting laboratories.

(8) Transportation Equipment - including tactical and non-tactical vehicles, fixed and rotary wing aircraft, rail systems, watercraft, and supporting maintenance operations.

(9) Mobilization and Deployment - including the assembly and organization of material and personnel resources in response to war or other emergencies including low intensity conflict and military operations other than war, and the physical movement of those resources to the theater of operations.

(10) Research, Development, Test, and Evaluation (RDT&E) - including the demonstration/validation and technology transfer of materiel, equipment, and weapons systems at Army proving grounds, laboratories, and related facilities.

3–3. Important environmental aspects

a. Environmental aspects are elements of products, activities, or services that interact with the environment. Important environmental aspects are those that result in mission or environmental impacts, and may include, but are not limited to:

(1) Air emissions (fugitive or from stacks), including but not limited to, Clean Air Act criteria pollutants (carbon dioxide, nitrous oxides, sulfur oxides, ozone, particulates, and lead), combustion gases, volatile organic compounds (VOCs), and hazardous air pollutants (HAPs).

(2) Generation of noise, vibration, odor, dust, heat, mold, light, radiation, and other nuisance activities.

(3) Discharges and disposals (point and non-point), spills, or other releases to soil or ground and/or surface waters, including sewage, sediment, or solid, hazardous, and other wastes.

(4) Natural resource alteration (that is, consumption or conservation), including water, timber, minerals, soil, and so forth. This includes the acquisition of goods and services that affect the consumption of natural resources.

(5) Ecological resource alteration, including wetland and endangered species protection or destruction.

(6) Cultural resource alteration, including historic properties; archeological sites; sacred sites; and properties of traditional cultural or religious importance to American Indians, Alaska Natives, and Native Hawaiians.

(7) Energy consumption or conservation, including electricity, fossil, alternative fuels, and renewable energy, such as solar energy.

b. All appropriate facilities (see glossary) will establish and maintain procedures to identify the environmental aspects of their operations, activities, products, or services that they can control and over which they can be expected to have an influence, to determine which have or can have impacts on the mission and/or the environment. This will include maintaining scientifically defensible information and inventories of facilities, resources, and environmental aspects, including geospatial information where the spatial location and extent of these affects their impact to mission and/or the environment. Installations must evaluate their liabilities concerning non-governmental tenants to determine whether any of them can be exempt from the installation EMS.

c. The aspects related to those important impacts will be considered in setting environmental objectives at all appropriate organizational levels. Additionally, appropriate facilities will consider processes for external communications on their important environmental aspects and document their decision regarding external communications.

d. Acquisition program managers should ensure that weapons systems are designed so that they can be tested, operated, maintained, repaired, and disposed of in accordance with applicable environmental, safety, and occupational health statutes, regulations, policies, and environmental treaties and agreements. (see PD: DODD 5000.1)

3–4. Environmental objectives and targets

a. An environmental objective is an overall environmental goal, arising from the environmental policy, which an organization sets for itself to achieve, and which is quantified where practicable (for example, reduce hazardous waste (HW) disposal by a certain amount). An environmental target is a detailed performance requirement, quantified where practicable, applicable to the organization or parts thereof, that arises from the environmental objectives and that needs

to be set and met to achieve those objectives (for example, reduce HW disposal by a certain amount by a certain point in time). Environmental objectives and targets will be developed in consideration of impacts on Army operations.

b. Installations/activities will establish and maintain environmental objectives and targets for all operations and activities having the potential for important mission and/or environmental impact. Objectives and targets will be established at each relevant function and level within the organization, will be documented, and will meet DOD Measures of Merit (MOMs), Army-level program goals, objectives, and targets; long-term strategic goals; legal and other requirements; important environmental aspects; technological options; financial and operational requirements; and the views of interested parties, as appropriate.

c. Headquarters, Department of the Army (HQDA) will disseminate detailed Army-level program goals, objectives, and targets through periodic publication and update of appropriate plans, directives, and guidance documents.

3–5. Operational controls

a. Installations/activities will identify those operations and activities that are associated with important environmental aspects (see para 3–3a) and manage them consistent with established policies, objectives, and targets.

b. Installations/activities will establish and maintain documented standing operating procedures (SOPs) to avoid unacceptable environmental impacts from these operations and activities.

c. Contracting officers should ensure that contract provisions are consistent with SOPs.

3–6. Emergency preparedness and response

a. Installations/activities will establish and maintain procedures to identify the potential for and to respond to accidents and emergency situations, and for preventing and mitigating the environmental impacts that may be associated with them. These procedures will be tested periodically.

b. Installations/facilities will review and revise, where necessary, emergency preparedness and response procedures. In particular, critical reviews and revisions should be conducted after any occurrence of accidents or emergency situations.

3–7. Management programs

a. Appropriate facilities will establish and maintain management programs (see chaps 4 -14) for achieving objectives and targets, and will track and measure progress toward achieving them.

b. As a minimum, management programs will designate responsibility for achieving objectives and targets at each relevant function and organizational level, and specify the means and timeframe by which they are to be achieved.

c. Appropriate facilities will track their targets and objectives to measure continual improvement.

Chapter 4
Environmental Asset Management

Environmental assets entrusted to the Army's care include, but are not limited to, air, water, land, and natural and cultural resources. Specific DOD and Army policies, legal and other requirements, major program goals, and program requirements associated with environmental resources are presented in this section. The Office of the Assistant Chief of Staff for Installation Management (OACSIM) and the Office of the Director of Environmental Programs (ODEP) are responsible for environmental program policy implementation and Headquarters, Department of the Army (HQDA) level program oversight. The Installation Management Command (IMCOM) and National Guard Bureau - Army National Guard (NGB–ARNG) are responsible for executing environmental program requirements prescribed herein in accordance with this regulation and applicable federal, state, and local requirements. Technical support for addressing the various requirements prescribed in this section is the responsibility of the appropriate program offices within the U.S. Army Environmental Command (USAEC), U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM), Assistant Secretary of the Army for Acquisition, Logistics, and Technology (ASA (ALT)) Environmental Support Office (ESO), and the Military Programs Directorate of the U.S. Army Corps of Engineers (USACE).

4–1. Air resources

a. Policy.

(1) Comply with applicable Federal, State and local air quality regulations, permit requirements, and overseas Final Governing Standards (FGS).

(2) Identify and implement cost-effective pollution prevention measures that will reduce toxic or criteria air emissions.

(3) Eliminate dependency on ozone depleting substances (ODS).

b. Legal and other requirements. Section 7401, Title 42, United States Code (42 USC 7401, et seq., Clean Air Act (CAA), as amended); Section 6901, Title 42, United States Code (42 USC 6901, et seq., the Resource Conservation

and Recovery Act of 1976 (RCRA), as amended); the Energy Policy Act of 2005; applicable State and local requirements; or country-specific FGS requirements.

c. Major program goal. Achieve and maintain air quality standards to protect human health and the environment, while minimizing mission impacts.

d. Program requirements.

(1) Assess the need for and obtain necessary CAA Title V Operating Permits and all other applicable permits. (LD: 40 CFR 71.1)

(2) Update existing or obtain new permits as needed when planning to modify, construct, install, or remove from service an emissions source that is, or should be, regulated under a Title V or other permit. (LD: 40 CFR 71.6)

(3) Perform air emissions inventories as required by statute, regulation, permit, or country-specific FGS. (LD: 40 CFR 51; 40 CFR 70.6; 40 CFR 71.6; FGS)

(4) Determine the need to comply with New Source Performance Standards, New Source Review for Non-attainment, or for Prevention of Significant Deterioration (PSD). In addition, determine the need to perform a Conformity Determination. (LD: 40 CFR 51.307)

(5) Cooperate with Federal, State, and local authorities to achieve the goals of implementation plans. (LD: 40 CFR 51)

(6) Perform technology, permitting, and preconstruction assessments as required before beginning construction or reconstruction of air emissions sources. (LD: 40 CFR 51.160 and related State regulations)

(7) Establish a Risk Management Program and develop and maintain a risk management plan (RMP) when required under Section 112(r) of the CAA. (LD: 40 CFR 68.150–195)

(8) Implement and maintain plans to eliminate dependency on commercial acquisition of Class I ODS. (LD: 40 CFR 82)

(9) Reduce all ODS use to zero as cost-effective substitutes that meet applicable standards become available. (LD: 40 CFR 82)

(10) Recovered Class I ODS cannot be bartered, sold, or traded. Return recovered ODS that are excess to installation needs to the DOD ODS Reserve. (LD: 40 CFR 82)

(11) Coordinate natural resources activities having potential air quality impacts (for example, prescribed burning) with appropriate State and local officials.

(12) Comply with applicable Standards of Performance for New Stationary Sources and corresponding monitoring requirements. (LD: 40 CFR 60)

(13) Comply with all air toxics regulations, to include, but not limited to, applicable National Emission Standards for Hazardous Air Pollutants (NESHAP) maximum achievable control technology (MACT) requirements for regulated sources of hazardous air pollutants (HAPs). (LD: 40 CFR 63)

(14) Overseas installations will comply with permits obtained on their behalf in accordance with the FGS.

4–2. Water resources

a. General policy.

(1) Comply with applicable Federal, State, and local laws and regulations regarding water resources management and permitting. Overseas, the Army will comply with country-specific FGS requirements.

(2) Obtain and comply with all required Federal, State, and local Clean Water Act (CWA), Coastal Zone Management Act (CZMA), and Safe Drinking Water Act (SDWA) permits (includes wastewater and storm water permits, operational permits for drinking water systems, groundwater discharge permits, wetland 404/401 permits, septic system permits, underground injection control, and so forth).

(3) Overseas installations will comply with permits obtained on their behalf in accordance with the FGS.

(4) Identify and implement pollution prevention initiatives.

(5) Participate with regional authorities in the development and implementation of water resource initiatives and plans.

(6) Mitigation wetlands are wetlands that replace the functions performed by drained, filled, or degraded wetlands on installation project sites. They should, whenever possible, be sited within the same watershed as the affected installation wetlands and outside installation boundaries so installations can retain maximum land-use flexibility.

b. Recreational waters. Management of recreational waters at military installations will be in accordance with AR 40–5, TB MED 575, and TM 5–662.

c. Water resource protection and management.

(1) All Army organizations and activities will comply with legally applicable Federal, State, and local regulations, executive orders (EOs), and FGS to conserve, protect and restore surface water resources (including wetlands, estuaries, streams, lakes and so forth), and groundwater (wells and aquifers).

(2) Executive Order 11988 and EO 11990 address the actions Federal agencies take to identify and protect flood plains and wetlands, respectively.

(3) The CZMA requires that activities within the coastal zone of any state must be consistent with the state's coastal zone management plan.

d. Watershed management.

(1) *Policy.* Installations use a watershed management approach when evaluating projects and programs to satisfy environmental regulations, facility projects, and master planning that may impact the quality of water resources. Using a watershed approach means that installations should develop a framework or plan for coordinating, integrating and managing their mission activities that impact the quality of water resources located on (and those that migrate off) their installation. This approach also requires a strong commitment to involving stakeholders, both internal and external, in the management of these water resources. To implement applicable total maximum daily load (TMDL) regulations, all Army facilities will:

(a) Initiate and maintain contact with Federal and State water regulators concerning the process of setting TMDLs and allocations for water bodies located on or passing through Army installations.

(b) Integrate all aspects of CWA requirements, programs and available information (for example, the National Pollutant Discharge Elimination System (NPDES) program, 404 wetlands program, wellhead protection, storm water plans/projects, storm water construction permits, spill prevention, control, and countermeasures (SPCC) plans/projects, State CWA 319 requirements (State plans & strategies for reducing non-point source runoff)) with TMDL development and future planning. Ensure all of these programs are consistent with, and work together to attain compliance under, TMDL allocations once they are set by states.

(c) Ensure that activities required to meet other environmental legal requirements, like RCRA, that impact water quality in an impaired water or are impacted by an impaired water (for example, Chapter 35, Title 16, United States Code (16 USC Chapter 35)) are informed of CWA requirements. These non-CWA activities should be integrated into the management plan.

(d) Ensure other programs that are or may have their activities affected by identification of impaired waters and new TMDL allocations are informed of the impacts and requirements (for example, facilities construction, master planning, National Environmental Policy Act (NEPA) requirements).

(e) Ensure that watershed assessments and management plans are integrated with the installation master plan, integrated natural resources management plan (INRMP), and other plans as appropriate.

(f) Establish and integrate environmental education and participation programs required by CWA/SDWA/the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)/ESA and so forth for all Army personnel and their families based on watershed concepts and requirements to restore impaired waters and maintain designated uses of local water bodies.

(g) Ensure that mission and non-mission activities and construction designs utilize best management practices (BMPs) to minimize TMDL impacts.

(2) *Legal and other requirements.* The principal applicable laws governing water resource protection and management are the CWA, SDWA, and related Federal, State, and local implementing regulations; and for overseas installations, the country-specific FGS requirements.

(3) *Major program goal.* Implement the "Unified Federal Policy for a Watershed Approach to Federal Land and Resource Management". (PD: Unified Federal Policy for a Watershed Approach to Federal Land and Resource Management, 65 FR 62565–62572, 18 October 2000).

(4) *Program requirements.*

(a) Assess installation watershed impacts as appropriate, considering upstream and downstream water quality data or other background levels, proximity to potentially designated impaired waters, and any effects on mission activities. (PD: Unified Federal Policy for a Watershed Approach to Federal Land and Resource Management, 65 FR 62565–62572, 18 October 2000)

(b) Carry out Army activities consistent with EPA/State approved plans/strategies to restore impaired or threatened water bodies to their designated use. (LD: 40 CFR 130.12)

(c) Control soil erosion in accordance with applicable and appropriate Federal, State, or local requirements. (LD: 40 CFR 122.26)

(d) Comply with all applicable and appropriate State Source Water Assessment and Protection Program requirements as they relate to ground water (for example, wellhead protection plans) (LD: SDWAA 1996, PL 104–182, Sections 1428 and 1453); (LD: 40 CFR 144–148); and (LD: 40 CFR 149).

e. Wastewater and stormwater.

(1) *Policy.*

(a) Comply with facilities policy concerning use of wastewater collection/treatment systems that are owned and operated by public or private entities when economically feasible and when security is not compromised.

(b) Comply with all requirements, substantive and procedural, for control and abatement of water pollution, as outlined in the CWA that require Army compliance.

(c) Control or eliminate sources of pollutants and contaminants to protect water bodies and groundwater.

(d) Employ abatement measures for non-point source runoff from construction, facility operations, and land management activities.

(e) Encourage reuse or recycling of wastewater, sewage sludge, wash rack sediment, greases or oils, and other wastes whenever economically feasible and environmentally beneficial.

(2) *Legal and other requirements.* Applicable laws are Chapter 26, Title 33, United States Code (33 USC Chapter 26, as amended; Section 108 of Section 6961, Title 42, United States Code (42 USC 6961); Section 1401, et seq., Title 33, United States Code (33 USC 1401); Section 2701, Title 33, United States Code (33 USC 2701); and State and local laws; and for overseas installations, the country-specific FGS requirements.

(3) *Major program goals.* The Army's wastewater and stormwater management goals are to reduce the pollutant loadings in point source and non-point source discharges and to ensure efficient water reuse.

(4) *Program requirements.*

(a) Obtain and comply with NPDES and/or State discharge permits, to include all required plans. (LD: 40 CFR 122)

(b) Ensure that discharges from industrial activities to Federally-owned Treatment Works (FOTWs) and Publicly-owned Treatment Works (POTWs) comply with the substantive pretreatment requirements applicable to POTWs under the CWA. (LD: 40 CFR 403)

(c) Develop pretreatment programs as required to ensure FOTWs meet NPDES permit requirements and to improve opportunities for reuse of wastewater effluent and sewage sludge. (LD: 40 CFR 403)

(d) Develop and implement a stormwater management plan for a regulated Municipal Separate Stormwater Sewer System (MS4) as required in accordance with the installation's general permit. (LD: 40 CFR 122.26)

(e) Develop and implement a Stormwater Pollution Prevention Plan(s) (SWPPP) as required, in accordance with the installation's industrial, construction, or Municipal Separate Storm Sewer (MS4) storm water permit(s). (LD: 40 CFR 122.26)

(f) Develop and implement a spill prevention, control, and countermeasures plan (SPCCP), as required. (LD: CWA Section 311(j), 40 CFR 112.3)

(g) Perform shipboard or shore-side oil/water separation before the discharge of ballast water from watercraft. Effluent limitations from watercraft are prescribed by the U.S. Coast Guard (USCG) (LD: 33 CFR 151–158) EPA; (LD: 40 CFR 110); individual states; and TB 55–1900–206–14.

(h) Coordinate proposed military activities involving the discharge of fill material into waters of the United States, including wetlands, with, and if necessary, secure a permit from the local U.S. Army Corps of Engineers (USACE) district and appropriate State agency. (LD: 33 CFR 323; 40 CFR 230)

(i) Ensure that operators of wastewater (including industrial) treatment plants and wastewater collection systems have necessary training and certification. (LD: 42 USC 300g-8)

(j) Use analytical laboratories that are certified per applicable Federal, State, local or host nation (HN) requirements, as appropriate. (LD: 40 CFR 136; 40 CFR 141.28)

(k) Follow State approved plans and local permit requirements for non-point source water pollution control where applicable. (LD: 40 CFR 123)

f. Drinking water.

(1) *Policy.*

(a) Provide drinking water to fixed facilities in accordance with the requirements of the SDWA and applicable State and local regulations. Overseas, all Army organizations and activities will comply with country-specific FGS.

(b) Comply with Army facilities policy to transfer ownership and operation of water supply treatment systems to public and private entities when economically feasible and when security is not compromised.

(2) *Legal and other requirements.* Applicable laws are the SDWA, as amended; PL 109–58 (Energy Policy Act of 2005); and State and local laws; and for overseas installations, the country-specific FGS requirements.

(3) *Major program goals.* The Army's drinking water resource management goals are to consistently provide safe, aesthetically pleasing drinking water at adequate pressures and quantities to protect the health and quality of life of people living and working on our installations, and to better manage the cost of drinking water programs.

(4) *Program requirements.*

(a) Obtain and comply with all necessary water appropriation and use permits, National Pollutant Discharge Elimination System (NPDES) permits for wastewater discharges from drinking water treatment plants, or other permits that are required for operation of drinking water treatment systems at both fixed and field facilities. (LD: 40 CFR 122; 40 CFR 141–143)

(b) Comply with the provisions of the SDWA as implemented by State and local regulations which include, but are not limited to the following: (LD: 42 USC 300g-8; 40 CFR 136; 40 CFR 141.28)

1. Primary and Secondary drinking water standards.

2. Training and operator certification requirements.

3. Lead contamination control act requirements.

4. Public notification and consumer confidence reporting requirements.

5. Water system vulnerability assessment and emergency response plan requirements.

6. Certified laboratory requirements.

(c) Provide copies of annual Consumer Confidence Reports (CCRs) to the Installation Management Command (IMCOM) and State Adjutants General (where appropriate) by the end of each fiscal year.

(d) Perform a lifecycle cost analysis whenever the upgrade or construction of a new water supply facility is considered. Guidelines for military installations to perform the cost analysis are contained in AR 420–49, section 4–1.

(e) Monitor and upgrade Army water supply, treatment, distribution, and storage systems as needed to comply with environmental requirements. Routine operation, maintenance, and repair of Army water systems will be in accordance with AR 40–5; AR 420–49; AR 700–136; TB MED 576; TB MED 577; UFC 3–230–02; TM 5–810–5; TM 5–813–1 through TM 5–813–9; and USACHPPM TG 179.

(f) After consultation with supporting legal counsel, comply with applicable additional State and local drinking water regulations not covered under the SDWA.

4–3. Land resources

Land resources are the ranges, cantonment areas, and associated natural resources (to include soils and the biota they support).

a. Policy.

(1) Comply with applicable Federal, State, and local regulations regarding land resources management and permitting where applicable. Overseas, all Army organizations and activities will comply with applicable country-specific FGS.

(2) Provide for the conservation and rehabilitation of natural resources on Army lands.

(3) Integrate training and testing range operations and support activities within the installation environmental management system (EMS).

(4) Ensure that all management plans address range operations and activities as appropriate.

(5) Quantify environmental encroachment vulnerabilities and assess the feasibility of using external buffer zones to enhance testing and training capabilities. Where warranted, work with private landowners and eligible entities through the Army Compatible Use Buffer (ACUB) process.

(6) The management and conservation of natural and cultural resources under Army control, including planning, implementation, and enforcement functions, are inherently governmental functions that will not be contracted. Components that have contractor-operated installations or facilities will ensure that contract instruments clearly address contractor and government functions as they relate to natural and cultural resources.

b. Legal and other requirements. Principal statutes, regulations, and guidance applicable to the Army Natural Resources Management Program include:

(1) 16 USC 670a and 670b.

(2) 16 USC 35.

(3) 50 CFR 401–453, implementing regulations of the U.S. Fish and Wildlife Service (USFWS) and National Oceanic and Atmospheric Administration (NOAA) - Fisheries.

(4) Sections 1801–1882, et seq., Title 16, United States Code (16 USC 1801–1882).

(5) 10 USC 2665.

(6) 10 USC 2667(d).

(7) Section 2671, Title 10, United States Code (10 USC 2671).

(8) Section 2684a, Title 10, United States Code (10 USC 2684a).

(9) Section 2694a, Title 10, United States Code (10 USC 2694a).

(10) Sections 1361–1407, Title 16, United States Code (16 USC 1361–1407).

(11) Sections 4701–4751, et seq., Title 16, United States Code (16 USC 4701–4751).

(12) Sections 661–667d, United States Code (16 USC 661–667d).

(13) Section 701, Title 16, United States Code (16 USC 701).

(14) Sections 703–712, Title 16, United States Code (16 USC 703–712).

(15) Sections 3371–3378, Title 16, United States Code (16 USC 3371–3378).

(16) Part 13, Title 50, Code of Federal Regulations (50 CFR 13).

(17) Part 21, Title 50, Code of Federal Regulations (50 CFR 21).

(18) Part 190, Title 32, Code of Federal Regulations (32 CFR 190).

(19) Parts 10–16, Title 50, Code of Federal Regulations (50 CFR 10–16).

(20) EO 13186.

(21) EO 13112.

(22) EO 13423.

(23) EO 11990.

(24) PL 108–136, sections 312, 319.

(25) DODD 4715.1E.

(26) DODI 4715.3.

(27) DODI 4715.5.

(28) Memorandum, Deputy Under Secretary of Defense for Installations and Environment (DUSD (I&E)), 10 October 2002, subject: Implementation of Sikes Act Improvement Act: Updated Guidance.

(29) Applicable FGS and any legally binding international agreements.

c. Major program goals. The Army's land resources management goals are to:

(1) Integrate natural resources stewardship and compliance responsibilities with operational requirements to help achieve sustainable ranges, training areas, and other land assets.

(2) Develop, initiate, and maintain programs for the conservation, utilization, and rehabilitation of natural resources on Army lands.

d. Program requirements.

(1) *Integrated natural resources management.*

(a) Develop and implement an integrated natural resources management plan (INRMP) in accordance with 16 USC 670a in cooperation with the USFWS and the State fish and wildlife agency unless significant natural resources are absent. OCONUS installations will develop and implement an INRMP in consonance with FGS requirements. Significant natural resources are present if one or more of the following criteria apply: (LD: 16 USC 670a).

1. Federally listed, proposed, or candidate species are onsite, or critical habitat has been designated or proposed on the installation, and on-installation conservation measures are necessary to conserve the federally listed species.

2. Conservation reimbursable forestry or agricultural outleasing activities consist of 100 acres or more.

3. Hunting and/or fishing takes place for which special State permits are issued by the installation in accordance with 16 USC 670a(b)(3).

4. The installation conducts intensive, on-the-ground military missions that require conservation measures to minimize impacts (for example, soil erosion control, prescribed fire) and sustain natural resources. Installations designated by the DCS, G–3/5/7 for management under the ITAM program meet this criterion.

5. Unique biological resources, wetlands, species at risk, or ecological issues require a level of planned management that can only be addressed by an INRMP.

6. In some cases, it may be difficult to determine whether an installation has significant natural resources. In these cases the ACSIM is delegated the authority to determine whether significant natural resources are present, and, therefore, whether an INRMP is required.

(b) Implement the INRMP by:

1. Actively requesting, receiving, and using funds for priority projects and activities.

2. Ensuring that sufficient numbers of professionally trained natural resources management personnel are available to perform the tasks required by the INRMP.

3. Coordinating annually with all cooperating offices.

4. Documenting specific INRMP action accomplishments undertaken each year.

(c) Prepare INRMPs that include components addressing specific natural resources (for example, endangered species, forests, flora, fauna, soil, wetlands) and their interdependency.

(d) Review the INRMP with regard to operation and effect by the parties thereto on a regular basis, but not less often than every 5 years. Update the INRMP as appropriate in concert with installation needs to obtain mutual agreement in coordination with the USFWS, State fish and game agency(ies), and other internal and external stakeholders. A 5-year update is not required if circumstances have not changed. (LD: 16 USC 670a).

(e) Use the INRMP, range complex master plan, and ITAM 5-year plan as the garrison commander's (GC) tools for planning and integrating land resources compliance and management activities with the military mission.

(f) Provide access to training and testing ranges through sustainment of installation land resources and in compliance with natural resources laws, regulations, EOs, and Army policies.

(g) To the extent appropriate and applicable, provide for no net loss in the capability of the installation lands to support the military mission. Identify and address threats to mission land use and give high priority to management objectives that protect mission capabilities of installation lands. (LD: 16 USC 670a).

(h) Designate and ensure that the installation has ready access to a qualified military, Department of the Army (DA) civilian, or State Army National Guard (ARNG) staff member (or ARNG contractor) to serve as installation natural resources coordinator.

(i) Assure NEPA requirements are satisfied when preparing the INRMP. (LD: 50 CFR 402.06; 42 USC 4331).

(j) Conduct appropriate internal and external coordination prior to GC approval of INRMPs and revisions (for example, with Director of Plans, Training, Mobilization, and Security (DPTMS); Staff Judge Advocate; Morale, Welfare, and Recreation; Provost Marshall, and so forth). INRMPs will meet the following conditions (note that 2–5 do not apply to overseas installations):

1. Concurrence from the installation's next higher headquarters, and coordination with affected Army Commands (ACOMs), Army Service Component Commands (ASCCs), Direct Reporting Units (DRUs), NGB–ARNG, and tenants.

2. Agreement from the Regional Directors of the USFWS concerning aspects within the scope of their authority. (LD: 16 USC 670a(a)(2)).

3. Coordination with NOAA–Fisheries in those instances where INRMPs include TES or critical habitat within the scope of their authority.

4. Concurrence from land management agencies exercising jurisdiction over installation property.

5. Agreement from the Director of the State fish and wildlife agency concerning aspects within the scope of their authority. (LD: 16 USC 670a(a)(2)).

6. Opportunity for public comment provided (minimum of 30 days). (LD: Section 2905, PL 105–85).

(k) Coordinate the draft INRMP with the Office of the Director of Environmental Programs (ODEP) when requested.

(l) Integrate the INRMP with the installation master plan, range plans, training plans, integrated cultural resources management plans (ICRMPs), integrated pest management plans (IPMPs), cleanup installation action plans (IAPs), and other appropriate plans to ensure consistency.

(m) For installations that have training or testing missions, ensure the DPTMS (or Range Control staff or equivalent) provides a description of optimum mission landscape requirements (current and future (next 5 years)) to include recommendations for improving the capability, availability and accessibility of land.

(n) Establish specific goals and measurable objectives for all components of the INRMP. (LD: 16 USC 670a(b)) Establish metrics and measure progress towards achieving the objectives.

(o) Prioritize projects and required resources necessary to achieve the objectives of the INRMP and its components.

(p) Make unclassified portions of INRMPs available to the public through electronic format (for example, world wide web, compact disk, and so forth.). All INRMPs will undergo DPTMS security review prior to being made available. This requirement does not apply to overseas installations.

(q) Accurately report INRMP data using the metrics in the Army Environmental Data Base - Environmental Quality (AEDB–EQ) Report and the Reimbursable Programs Tracking System (RPTS).

(r) Conduct Planning Level Surveys (PLSs) and data analysis as the foundation for effective planning and decision-making. PLSs, with the exception of flora, will be maintained electronically as geospatial data, and will be submitted to the GIS Repository as they are updated. Existing Army scopes of work will be used when available. PLSs should be kept current according to an installation's specific needs, but at a minimum, will be reviewed and updated if necessary prior to the INRMP's revision. PLSs include as a minimum:

1. Topography. A map with elevation, elevation contours, and associated data consistent with U.S. Geological Survey (USGS) standards and topographic map products.

2. Wetlands. A description and map of the distribution and extent of wetlands consistent with the statement of work as defined in the Army/USFWS Memorandum of Agreement (MOA).

3. Surface waters. A survey that describes and maps the distribution and extent of surface waters, and is consistent with USGS standards.

4. Soils. A survey that classifies, categorizes, describes, and maps soils by map unit, and meets current National Cooperative Soil Survey standards and procedures.

5. Flora. An installation-wide vascular plant survey that produces a list of plant species with verified nomenclature, classification and annotation compatible with the Natural Resources Conservation Service's (NRCS) Plant List of Accepted Nomenclature, Taxonomy, and Symbols (PLANTS).

6. Vegetation communities. A survey, including field data, which describes and maps the distribution and extent of dominant and co-dominant plant communities (alliances).

7. Threatened and endangered (T&E) species. A survey that maps and shows the occurrence, habitat distribution, and habitat management areas of Federally endangered, threatened, proposed, candidate, and species at risk occurring on the installation.

8. Fauna. A survey, including field data, that describes and maps the distribution and extent of animals.

(s) Ensure that turbidity and sediment levels do not irreparably degrade aquatic biota and habitat from an ecosystem perspective, or significantly impact shallow ground water aquifers.

(t) Evaluate the feasibility and potential impacts of operating motorized off-road vehicles (ORVs) and non-motorized vehicles (for example, mountain bikes) on the military mission and natural and cultural resource management. If determined feasible, develop procedures for operating motorized ORVs and non-motorized vehicles that will protect resource values; preserve public health, safety, and welfare; and minimize use conflicts. (LD: EO 11644).

(u) Obtain ACSIM approval prior to setting aside areas for an exclusive use that might constrain future land use decisions. Obtain supporting ACOM, ASCC, DRU, or NGB–ARNG concurrence before submitting request to ACSIM.

(2) *Leases, easements, and other special land uses.*

(a) Address leases, easements, and other special land uses within the INRMP.

(b) Ensure all conditions of leases and easements are consistent with the military mission and natural resources conservation and protection.

(c) Follow the policies set forth in AR 405–80 regarding rights-of-way or easements.

(3) *Soil resources.*

(a) Use the INRMP for the planned management of soil resources across the entire installation. The Soil Erosion and Sediment Control Component (SESCC) to the INRMP will address the following soils policy.

(b) Keep soil erosion from water within tolerance limits as defined in soil surveys prepared by the U.S. Department of Agriculture (USDA), NRCS or as required by FGS or host nation authorities.

(c) Keep soil sediment, as a pollutant, in wetlands and waterways within compliance limits.

(d) Minimize the impact of land uses on soil erosion and sedimentation when and where possible, to include:

1. Locating physically intensive land disturbing activities on the least erodible soils.

2. Using climatic/seasonal changes in soil erosion as a factor in scheduling intensive mission operations and real property management activities.

3. Identifying and rehabilitating land disturbed by operations and real property management activities.

(4) *Flora and fauna.*

(a) Promote biodiversity and ecosystem sustainability on Army lands and waters consistent with the mission and INRMP objectives.

(b) Manage flora and fauna consistent with accepted scientific principles and in accordance with applicable laws and regulations, and, where lands and waters are suitable, for conservation of indigenous flora and fauna.

(c) Manage habitat to conserve and enhance existing flora and fauna consistent with the Army goal to conserve, protect, and sustain biological diversity while supporting the accomplishment of the military mission.

(d) Introduce or reintroduce any species only upon approval of the USFWS, the State, higher headquarters, and HQDA and include in the installation INRMP. In those instances where the training mission may be impacted, coordinate with the supporting ACOM, ASCC, DRU, or NGB–ARNG and secure joint approval from the OACSIM and the Office of the DCS, G–3/5/7, DAMO–TRS. (LD: EO 11987)

(e) Consult with NOAA–Fisheries on actions authorized, funded, or undertaken that may adversely impact fisheries or marine mammals. (LD: 16 USC 1801).

(5) *Threatened and endangered (T&E) species.*

(a) Prepare and implement an Endangered Species Management Component (ESMC) to the INRMP consistent with current policy and guidance.

(b) Carry out mission requirements in compliance with 16 USC 35.

(c) Integrate endangered species management and installation planning functions to ensure compliance with 16 USC 35. (LD: 50 CFR 402)

(d) In accordance with ACSIM guidance, take appropriate actions to preclude critical habitat designation.

(e) Assess all activities (to include Military Construction (MILCON)) at the earliest opportunity to determine whether they may affect listed species or critical habitat.

(f) Coordinate T&E actions or issues with ACOM, ASCC, and DRU commanders and other tenants that may be affected by them.

(g) Conduct biological assessments for activities that may have an effect on listed species or critical habitat where they are present or may be present in the action area. (LD: 50 CFR 402).

(h) Informally consult with the USFWS or NOAA–Fisheries, document the results in writing, and if necessary, conduct a biological assessment or biological evaluation (see glossary) to assess whether an action may affect a listed species or critical habitat. If the action is likely to adversely affect the listed species or its habitat, formal consultation is required. (LD: 50 CFR 402).

(i) Coordinate with affected installation organizations and the higher headquarters prior to initiating formal consultation. HQDA may identify proposed formal consultations that require higher level review. Installations will provide the proposal and supporting documentation as requested. ODEP, in coordination with JALS–EL, will review proposals and provide comments.

(j) Formally consult with the USFWS or NOAA–Fisheries when it is determined an action "may affect" a listed species or critical habitat. If the action is not likely to adversely affect the listed species or its habitat, and the USFWS or NOAA–Fisheries concur in writing, formal consultation is not required. (LD: 50 CFR 402).

(k) Confer with the USFWS or NOAA–Fisheries on any action that is likely to jeopardize the continued existence of any proposed species or result in the destruction or adverse modification of proposed critical habitat. (LD: 50 CFR 402.10).

(l) Review all ongoing and proposed actions immediately upon listing of a threatened or endangered species or designation of critical habitat to determine if formal consultation is necessary (even if a conference has previously occurred). (LD: 50 CFR 402).

(m) Complete a Biological Evaluation before initiating formal conference on actions affecting a proposed species or proposed critical habitat. (LD: 50 CFR 402.10).

(n) Develop and implement strategies to promote, in cooperation with other landowners, the use of conservation banking and/or ACUB initiatives to minimize impacts of an action on T&E species and/or critical habitat.

(o) Within 24 hours report 16 USC Chapter 35 (ESA) violations, by telephone or electronic means, through the chain of command to HQDA (ODEP and JALS–EL). Submit a followup written report within 7 days.

(p) Coordinate with higher headquarters and HQDA (ODEP and JALS–EL) in taking final action to correct any endangered species management problems contributing to the 16 USC 35 (ESA) violation(s).

(q) Ensure that T&E awareness is included in unit training for personnel who may come in contact with listed species and/or their habitats or critical habitat. Coordinate training with the installation engineer, environmental directorate, and ITAM sustainable range component.

(r) Obtain HQDA approval before supporting USFWS's or NOAA–Fisheries' introduction and/or reintroduction of Federal and State listed, proposed, and candidate species on Army lands.

(s) Protect the water rights necessary for the survival and recovery of listed, proposed, or candidate aquatic or riparian species. Coordinate all water rights issues with appropriate legal counsel.

(t) Participate in the listing/delisting process, recovery plan development, and critical habitat designation where the species in question may impact installation military missions.

(u) Cooperate with State and local authorities in the management of ACSIM-designated Army species at risk and habitats with the goal of avoiding listings that could adversely affect military readiness.

(v) Participate in regional/habitat-wide efforts to conserve candidate and ACSIM-designated Army species at risk and habitats when it has the potential to benefit the Army.

(w) Include State-listed species in the installation INRMP.

(6) *Species at risk.*

(a) In accordance with ACSIM guidance, manage species at risk and habitats to prevent listing that could affect military readiness.

(b) Program and plan for environmental conservation critical funding for designated Army species at risk and coordinate Real Property Services funding opportunities for other species at risk.

(c) Incorporate species at risk management in the INRMP.

(d) Implement management plans for species at risk to include, but not limited to, survey, monitoring, habitat enhancement, and protection.

(7) *Forest management.* Practice responsible stewardship of forested lands to support the mission.

(8) *Conservation reimbursable agricultural/grazing outleasing and forestry programs.*

(a) Conduct programs that are compatible with mission operations and that support conservation compliance, sustainability, and natural resources stewardship.

(b) Routinely examine Army land to determine what areas, if any, are available for outleasing and/or forest management. (PD: AR 405–80 and AR 405–90)

(c) Coordinate with DPTMS to establish needed doctrinal terrain and ground cover requirements.

(d) Maintain Conservation Reimbursable Programs where these provide a direct benefit to the mission and environmental goals.

(e) Deposit all revenues from agriculture and grazing outleases, forest product sales, or sale of equipment procured with Conservation Reimbursable funds into the Army Forestry Account or the Army Agricultural/Grazing Account per DFAS–IN Manual 37–100-**.

(f) Sell no forest products nor outlease land for agricultural or grazing purposes unless the effects of the sale or lease are compatible with the INRMP. (LD: 16 USC 670a)

(g) Ensure that equipment procured with Conservation Automatic Reimbursable Authority is not transferred to tables of distributions and allowances (TDAs) outside of the programs or Federal Government ownership. Salvage value for equipment procured with Conservation Automatic Reimbursable Authority (Forestry or Agricultural/Grazing Outlease) will be deposited into the Army timber or agricultural/grazing outlease proceeds accounts.

(h) Ensure that outleases do not grant offsets that exceed the total amount of outlease value. At a minimum, revenues must cover the costs of administering the installation lease. (LD: 10 USC 2667).

(i) Continue Conservation Reimbursable Programs on excess or base realignment and closure (BRAC) lands until title is no longer held by the Army. Clear-cuts on excess or BRAC lands are prohibited unless approved by ODEP.

(j) Use revenues generated from the reimbursable programs to maintain, improve, or rehabilitate previously degraded ecosystems on the installation.

1. Use revenues from agricultural/grazing outleases only for reimbursement of administrative costs of outleasing and other expenses incurred in support of multiple-land use management of natural resources.

2. Use revenues from forest product sales only for management of forests and natural resources that support forest stewardship on land affected by conservation reimbursable forestry programs.

3. Do not use automatic reimbursable authority to augment general operating expenses of the installation as overhead.

(k) Prepare determinations of availability (agricultural/grazing) and reports of availability (ROA) (forestry) as required by AR 405–80 and 405–90.

(l) Enter annual requirements into the Reimbursable Program Tracking System (RPTS).

(m) Assure that agricultural and forest products are not given away, abandoned, carelessly destroyed, used to offset contract costs or traded for services, supplies, or products or otherwise improperly removed.

(n) Assess lands to assure they are safe for nonmilitary purposes before outleasing. Document the environmental condition in a finding of suitability to lease (FOSL), Environmental Condition of Property (ECP) Report. (LD: 42 USC 4321).

(o) When disposing of forest products from Army land by any means other than a commercial sale, the fair market dollar value will be used. This amount will be deposited in the Army Forestry Account by the proponent. Forest products may be used to directly assist the military mission without payment.

(p) Account for all forest products and complete all commercial harvests before starting any construction that may impact forest resources.

(q) Ensure all Army solicitations and contracts for timber sales affected by Sections 620–620j, Title 16, United States Code (16 USC 620–620j) contain a provision restricting the export of unprocessed timber procured on Army land.

(9) *Hunting, Fishing, and Trapping.*

(a) Support the Provost Marshal in enforcement of State and Federal laws pertaining to hunting, fishing, and trapping.

(b) Coordinate with morale, welfare, and recreation (MWR) for the management and collection of fees for hunting, fishing and trapping. Do not expend environmental appropriated funds for non-appropriated fund (NAF) administration of hunting, fishing, and trapping activities.

(c) Deposit collected fees from the sale of Special State Licenses into the Army Fish and Wildlife Conservation Fund (21X5095). GCs are authorized to provide no-cost Special State Licenses for junior enlisted soldiers (pay grade E4 and below) and to institute a sliding fee schedule for enlisted soldiers based on ability to pay.

(d) Provide for controlled recreational access where feasible at Army installations containing land and water areas suitable for recreational use. (LD: 16 USC 670a).

(e) Provide access to uniformed personnel, family members, and the public to hunting, fishing, and trapping, consistent with security requirements and safety concerns. Membership in an organization, including rod and gun clubs, has no bearing on receiving access. Exceptions to the above include specific access rights protected by treaties with or retained by American Indian and Alaska Native Tribes (see also para 6–4).

(f) Provide access to disabled veterans, military dependents with disabilities, and other persons with disabilities when public access is available and when topographic, vegetative, and water resources allow access for such persons without substantial modification to the natural environment. Coordinate actions and solutions with appropriate organizations within the Army, OSD, and the Access Board as appropriate.

(g) Hunting, fishing, and trapping plans will be included in the INRMP for installations that have such programs.

(10) *Noxious weeds and invasive species management.* The Director of Public Works is the proponent for noxious weeds and invasive species management.

(a) Prepare and implement an invasive species management component (ISMC) of the INRMP consistent with specific Federal or State initiatives. (LD: EO 13112).

(b) Where applicable, synchronize invasive species management practices with objectives of the installation ITAM program.

(c) Conduct mission activities in a manner that precludes the introduction or spread of invasive species. (LD: EO 13112).

(d) Do not use invasive species in installation landscaping or land rehabilitation and management projects. (LD: EO 13112).

(e) Use the most effective and environmentally sound approach for controlling invasive species, to include the use (or reduction in use) of pesticides. (PD: DODI 4150.7).

(f) Assure that installation INRMP and pest management plan are in concert regarding noxious weeds management. (PD: DODI 4150.7).

(11) *Migratory birds.*

(a) Consistent with HQDA endorsement, implement conservation measures identified in the memorandum of understanding (MOU) between DOD and the USFWS pursuant to EO 13186.

(b) Obtain appropriate authorization (that is, take permit) from the USFWS before intentionally and directly taking any migratory bird species. Record any birds purposefully and intentionally taken under the authorization and provide an annual report to the USFWS. (LD: 16 USC 703–712).

(c) Establish procedures to avoid the unintentional take of migratory birds, including nests and eggs. (LD: 16 USC 703–712).

(12) *Wildland fire management.*

(a) Reduce wildfire potential using appropriate management practices such as prescribed burning, firebreak maintenance/construction, etc.

(b) Installations with unimproved grounds that present a wildfire hazard and/or installations that utilize prescribed

burns as a land management tool will develop and implement an integrated wildland fire management plan (IWFMP) that is compliant and integral with the INRMP, the installations' existing fire and emergency services program plan(s), and the ICRMP.

(c) Assure that all civilian, contractor, and emergency services personnel involved in wildland fire management possess the level of training and physical fitness needed for their expected level of involvement.

(d) Ensure that only qualified personnel conduct prescribed burns.

Chapter 5
Pest Management

5–1. Policy

a. Protect real property and the health of soldiers, civilians, and family members from pests through use of integrated pest management (IPM) strategies.

b. Reduce the use of chemical pesticides.

c. Reduce environmental risks from pesticides through proper storage, handling, application, and disposal of pesticides.

5–2. Legal and other requirements

Listed below are statutes, laws, regulations applicable to the Army Pest Management Program.

a. Section 136, Title 7, United States Code (7 USC 136).

b. DODI 4150.7.

c. DOD 4150.7–M.

d. DOD 4150.7–P.

e. DODI 4715.5.

f. AR 40–5

g. AR 420–10.

h. AR 385–10.

i. AR 210–50.

j. For overseas installations, the country-specific FGS requirements.

5–3. Major program goals

a. Monitor and control pests that pose a threat to the health and safety of the installation population.

b. Maintain current pest management plans at all installations.

c. Minimize the use of pesticides through appropriate surveillance methods and programs.

d. Ensure that all pesticide applicators are appropriately trained and certified.

e. Develop and enforce measures to properly store and safeguard pesticides and pesticide application equipment for installation pesticide security.

f. Ensure all pesticide waste is properly disposed.

5–4. Program requirements

a. Prepare an integrated pest management plan (IPMP) that defines pest management requirements, responsibilities, and resources needed to correct pest problems at each installation. Coordinate the IPMP with all affected parties. (PD: DODI 4150.7)

b. Conduct IPM programs in accordance with plans approved by garrison commander (GC), National Guard Bureau - Army National Guard (NGB–ARNG), Installation Management Command (IMCOM)-Korea, or IMCOM–Europe, as appropriate.

c. Establish procedures to store, secure, handle, apply, dispose, and manage pesticides that are consistent with Army safety and security requirements (PD: DODI 4150.7)

d. Conduct periodic program reviews at the installation using pest management professionals to ensure regulatory compliance and correct any deficiencies (PD: DODI 4150.7)

e. Ensure Army military and civilian personnel who apply or supervise application of pesticides on Army facilities or installations or during military contingencies, will be trained and certified in accordance with DOD certification standards. Non-DOD personnel (including State employees and contractors) who apply or supervise application of pesticides on Army facilities or installations will be trained and certified by the State where the Army facility or installation is located. Quality assurance evaluators that develop or review pest management contract specifications, or assess performance of those contracts will be trained in accordance with DOD policy and guidance. (PD: DODI 4150.7)

f. Maintain and archive records and reports on all pesticide applications and operations made to all facilities and grounds to include those performed under contract by tenant and supported activities, by lessees per formal agreements, those installations and facilities in the base realignment and closure (BRAC) cleanup program, and for closing overseas installations. (PD: DODI 4150.7)

g. Ensure installation self-help programs are cost-effective and promote IPM approaches for control of minor nuisance pests through use of authorized pest management materiel, equipment, awareness training, and record keeping requirements. (PD: DODI 4150.7)

h. Ensure requirements for aerial pesticide applications over Army lands to control pests of medical, economic, or other emergencies or urgencies of military significance are addressed in an aerial spray statement of need (ASSON) and submitted to the U.S. Army Environmental Command (USAEC), NGB–ARNG, IMCOM–Korea, or IMCOM–Europe as appropriate. (PD: DODI 4150.7)

i. Ensure pest management commercial solicitations incorporate Army requirements for the application and safe handling of pesticides and are forwarded to USAEC, NGB–ARNG, IMCOM–Korea or IMCOM–Europe as appropriate for technical review prior to solicitation. (PD: DODI 4150.7; DOD 4150.7–M; DOD 4150.7–P)

j. Appoint an installation pest management coordinator (IPMC). (PD: DODI 4150.7)

Chapter 6
Cultural Resources

6–1. Policy

Ensure that installations make informed decisions regarding the cultural resources under their control in compliance with public laws, in support of the military mission, and consistent with sound principles of cultural resources management.

6–2. Legal and other requirements

Statutes, laws, regulations, and other guidance applicable to the Army Cultural Resources Management Program include:

a. Section 470, Title 16, United States Code (16 USC 470).

b. Section 1996, Title 42, United States Code (42 USC 1996) and Executive Order (EO) 13007.

c. Section 3001, Title 25, United States Code (25 USC 3001).

d. Section 470aa-470mm, Title 16, United States Code (16 USC 470); Sections 431–433, Title 16, United States Code (16 USC 431–433); and Section 469, Title 16, United States Code (16 USC 469).

e. Part 79, Title 36, Code of Federal Regulations (36 CFR 79).

f. Part 800, Title 36, Code of Federal Regulations (36 CFR 800).

g. Part 229, Title 32, Code of Federal Regulations (32 CFR 229).

h. Part 10, Title 43, Code of Federal Regulations (43 CFR 10).

i. DOD American Indian and Alaska Native Policy Memorandum, 20 October 1998.

j. Presidential Memorandum for Heads of Executive Departments and Agencies, Government-to-Government Relations with Native American Tribal Governments, 29 April 1994.

k. EO 13175.

l. EO 13287.

m. For overseas installations, the country-specific FGS requirements.

6–3. Major program goal

Develop and implement procedures to protect against encumbrances to mission by ensuring that Army installations effectively manage cultural resources.

6–4. Program requirements

a. General program management.

(1) Develop integrated cultural resources management plans (ICRMPs) for use as a planning tool.

(2) Develop NHPA programmatic agreements (PAs) and memorandums of agreement (MOAs), Army alternate procedures (AAP) historic property component (HPC) plans, NAGPRA Comprehensive Agreements (CAs) and Plans of Action (POA), Cooperative Agreements, and other compliance documents as needed.

(3) Appoint a government (that is, Federal or State Army National Guard (ARNG)) employee as the installation cultural resources manager (CRM).

(4) Establish a government-to-government relationship with Federally recognized Indian Tribes, as needed. Initial formal government-to-government consultation with Federally recognized Indian Tribes will occur only between the

garrison commander (GC) or the Adjutant General (TAG) of an ARNG and the heads of tribal governments. Follow-on activities may be accomplished by staff.

(5) Establish a process that effects early coordination between the CRM and all staff elements, tenants, proponents of projects and actions, and other affected stakeholders to allow for proper identification, planning, and programming for cultural resource requirements.

b. National Historic Preservation Act compliance.

(1) Ensure that the GC functions as the agency official with responsibility for installation compliance with the National Historic Preservation Act (NHPA).

(2) Establish a historic preservation program, to include the identification, evaluation, and treatment of historic properties in consultation with the Advisory Council on Historic Preservation (ACHP), State Historic Preservation Officer (SHPO), local governments, Federally recognized Indian Tribes, Native Hawaiian organizations, and the public as appropriate. Document historic properties that will be substantially altered or destroyed as a result of Army actions. (LD: Section 110, NHPA; 36 CFR 800)

(3) Identify, evaluate, take into account, and treat the effects of all undertakings on historic properties. If an Army undertaking may affect properties of traditional religious or cultural significance to a Federally-recognized Indian Tribe, initiate consultation on a government-to-government basis. (LD: Section 106, NHPA; 36 CFR 800)

(4) Prepare and implement, as required, an NHPA Section 106 MOA, PA, or HPC, to address NHPA compliance for undertakings. Coordinate all NHPA compliance documents (for example, MOAs, PAs, HPCs) through the chain of command to obtain HQDA technical and legal review prior to execution. (LD: 36 CFR 800)

(5) Ensure that efforts to identify, evaluate, and treat historic properties consider the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation, and are conducted under the supervision of personnel who meet applicable professional qualifications for undertaking such work. (LD: 36 CFR 61; Section 112, NHPA)

(6) Maintain an up-to-date listing of all historic properties, and where applicable, maintain historic status in conjunction with real property inventory and reporting guidelines. (LD: EO 13287)

(7) Withhold from public disclosure information about the location, character, or ownership of a historic property when the GC determines that disclosure may cause risk of harm to the historic property or may impede the use of a traditional religious site by practitioners. (LD: Section 304, NHPA)

(8) Consider alternatives for historic properties, including adaptive reuse, that are not needed for current or projected installation mission requirements. (LD: Section 111, NHPA)

(9) Nominate to the National Register of Historic Places (NRHP) only those properties that the Army plans to transfer out of Federal management through privatization efforts. Nominate other properties only when justified by exceptional circumstances. Avoid adversely affecting properties that are 50-years old or older that have not been evaluated for eligibility against NHPA criteria. Treat (assume) that all historic sites are eligible (that is, off-limits) until the SHPO concurs with the federal finding of non-eligible.

(10) Where disagreement occurs with the SHPO regarding the eligibility of a historic property for the NRHP, where applicable obtain a "Determination of Eligibility" from the Keeper of the National Register, National Park Service (NPS). (LD 36 CFR 800, 36 CFR 63)

(11) Undertake such planning and actions as may be necessary to minimize harm to any National Historic Landmark that may be directly and adversely affected as a result of Army actions. (LD: 36 CFR 800)

c. AIRFA, Executive Order 13007 and Executive Order 13175 compliance.

(1) Consult with Federally recognized Indian Tribes to provide access to sacred sites on Army installations. Consistent with appropriate health, safety mission constraints provide access to allow the practice of traditional religions, rights and ceremonies. The GC will maintain the appropriate confidentiality of sacred site locations. The GC may impose reasonable restrictions and conditions on access to sacred sites on Army installations for the protection of health and safety, or for reasons of national security. (LD: EO 13007)

(2) Avoid adversely affecting the physical integrity of sacred sites. Ensure reasonable notice is provided to Federally–recognized Indian Tribes when proposed actions may adversely affect or restrict access to the ceremonial use of, or the physical integrity of, sacred sites. (LD: EO 13007)

(3) Consult with tribal governments before taking actions that affect Federally recognized Indian Tribes. Assess the impact of Army plans, projects, programs, and activities on tribal trust resources and assure that tribal government rights and concerns are considered during the development of such plans, projects, programs and activities. (LD: EO 13175)

d. Native American Graves Protection and Repatriation Act compliance.

(1) Designate the GC as the Federal agency official with responsibility for installation compliance with Native American Graves Protection and Repatriation Act (NAGPRA). (LD: 43 CFR 10)

(2) Prepare CAs and POAs in coordination with Federally recognized Indian Tribes and Native Hawaiian organizations. Coordinate all NAGPRA CAs through the chain of command to obtain HQDA technical and legal review prior to execution. (LD: 43 CFR 10)

(3) Absent a CA, take reasonable steps to determine whether a planned activity (including MILCON) may result in the intentional excavation or inadvertent discovery of cultural items from Federally-owned or controlled Army lands. When cultural items may be encountered, the GC will implement consultation procedures and planning requirements of Section 3 and Section 5 of NAGPRA prior to issuing approval to proceed with the activity. (LD: 43 CFR 10.3 and 43 CFR 10.5)

(4) Establish initial communication with Federally recognized Indian Tribes via written correspondence between the GC and heads of tribal governments. Formally document all resulting agreements. (LD: 43 CFR 10)

(5) Inventory, summarize, and repatriate cultural items that are in existing collections under Army possession or control. Where there is a dispute as to the affiliation of cultural items, safeguard the cultural items until the dispute is resolved. (LD: 43 CFR 5, 6, 7, and 10)

e. ARPA and AHPA Compliance.

(1) Ensure the GC serves as the Federal land manager with responsibility for installation compliance with ARPA. (LD: 32 CFR 229)

(2) Ensure the GC serves as the Federal agency official with management authority over archeological collections and associated records. (LD: 36 CFR 79)

(3) Establish and include installation policy for management of, and for limitation of collection and removal of, paleontological resources in ICRMPs. Address known paleontological resources in any NEPA documentation prepared for actions that may impact or cause irreparable loss or destruction of such resources.

(4) Prohibit searching for or collection of historic properties (including archaeological resources) on Army installations except when authorized by the GC and pursuant to a permit issued under ARPA.

(5) Minimize the amount of archeological material remains permanently curated by reserving such treatment for diagnostic artifacts and other significant and environmentally sensitive material that will add important information to site interpretation.

(6) Curation of archeological materials from Army lands will occur only in 36 CFR 79-compliant repositories. Maximize use of off-installation facilities that are better able to provide for adequate long-term curatorial services.

(7) Do not disclose to the public information concerning the nature and location of any archaeological resource for which the excavation or removal requires a permit or other permission under ARPA or under any other provision of Federal law. (LD: Section 9a, ARPA 1979)

Chapter 7
Pollution Prevention

7–1. Policy

a. Pollution prevention is the Army's preferred approach, where timely and cost-effective, to achieve and maintain compliance with environmental laws and regulations.

b. Prevent pollution from all sources to the extent practicable by:

(1) Reducing pollutants at the source.

(2) Modifying manufacturing, packaging, and shipping processes, maintenance or other industrial practices.

(3) Modifying product designs.

(4) Developing and modifying acquisition systems.

(5) Recycling/reuse (to include implementing water and energy conservation measures), especially in closed-loop processes.

(6) Preventing disposal and transfer of pollution between media.

(7) Meeting affirmative procurement requirements and promoting the acquisition and use of environmentally preferable products and services.

(8) Promoting use of nontoxic substances.

c. Use pollution prevention to complement, and where practicable, replace traditional pollution control approaches.

d. Incorporate pollution prevention planning throughout the mission, operation, or product life cycle.

7–2. Legal and other requirements

a. 42 USC 6901, *(RCRA).*

b. PL 109–58.

c. Sections 6901–6992k, Title 42, United States Code (42 USC 6901–6992k)).

d. Sections 13101–13102, Title 42, United States Code (42 USC 13101–13102).

e. EO 13423.

f. DODI 4715.4.

g. AR 70–1.

7–3. Major program goals

a. Reduce use of products or processes that degrade the environment.

b. Invest in pollution prevention in all mission and support areas, as applicable.

c. Minimize the use of toxic and hazardous materials and processes in all life cycle phases of acquisition programs, logistics support, modification of existing weapons systems, and installation management.

d. Implement pollution prevention initiatives to reduce life cycle costs of military missions and improve demilitarization and disposal of systems.

e. Disseminate pollution prevention opportunities and lessons learned across the Army.

f. Incorporate a Hazardous Materials Management Program (HMMP) into logistics business practices to reduce hazardous material inventory and hazardous waste (HW) disposal.

7–4. Program requirements

a. Periodically review operations and conduct pollution prevention opportunity assessments. Maintain an updated installation pollution prevention plan. Implement cost-effective pollution prevention opportunities identified by the assessments.

b. Develop and implement a Green Procurement Program with emphasis on the mandatory purchasing preference programs (Affirmative Procurement for all designated Environmental Protection Agency (EPA) and DOD guidelines). (LD: EO 13423; 40 CFR 247)

c. Address environmental concerns throughout the acquisition life cycle. (PD: AR 70–1)

d. Emergency Planning and Community Right-to-Know Act (EPCRA).

(1) Army activities within the United States will comply with EPCRA. Army activities will prepare and maintain an inventory of hazardous substances present at the activity. (LD: EO 13423)

(2) Activities will submit EPCRA reports to Local Emergency Planning Committees (LEPC), State Emergency Response Commissions (SERC), local fire departments with jurisdiction over the activity, and EPA if they exceed reporting threshold quantities. Tier I and Tier II reports are due by 1 March in each calendar year. An activity may be a LEPC when appointed by a SERC. (LD: EO 13423)

(3) Activities will submit draft electronic Toxic Release Inventory (TRI) Form R reports to the U.S. Army Environmental Command (USAEC) via chain of command by 1 May of each calendar year. After review and comment from USAEC, activities will provide final report to the EPA by 1 July, with copy to USAEC. (LD: EO 13423)

Chapter 8
Munitions Use on Ranges

8–1. Policy

This chapter applies to operational ranges, which are defined as ranges that are under the jurisdiction, custody, or control of the Secretary of Defense and that are used for range activities; or, although not currently being used for range activities, that are still considered by the Secretary to be a range and have not been put to a new use that is incompatible with range activities. In managing operational ranges, all Army organizations and activities will—

a. Consider demilitarization, constituent migration, and range cleanup and clearance in the weapons systems total lifecycle cost.

b. Manage the Army munitions inventory to achieve and maintain compliance with the Military Munitions Rule (or applicable Final Governing Standards (FGS) overseas).

c. Whenever practicable, recycle obsolete, excess, or unserviceable munitions and munitions residue.

d. Incorporate environmental considerations into sustainable range designs to support mission requirements.

e. Coordinate with the Headquarters, Department of the Army, Deputy Chief of Staff, G–3/5/7 before closing an operational range.

8–2. Legal and other requirements

a. Section 9601, Title 42, United States Code (42 USC 9601); Section 300f, Title 42, United States Code (42 USC 300f); Section 26, Title 33, United States Code (33 USC 26); Section 7401, Title 42, United States Code (42USC 7401); FGS requirements; and other regulations that apply to soil, water, and air.

b. Sections 200 to 206, Part 266, Title 40, Code of Federal Regulations (40 CFR 266.200 to 40 CFR 266.206) or applicable State versions.

c. DODD 4715.11 and DODD 4715.12.

d. DODI 4140.62.

8–3. Major program goals

Identify and address environmental issues that impact the use of Army ranges.

8–4. Program requirements

a. Munitions management.

(1) Train munitions managers and handlers on the Munitions Rule and related State requirements (or applicable FGS requirements overseas). (PD: Munitions Action Plan)

(2) Audit for compliance with the Munitions Rule and related State requirements (or applicable FGS requirements overseas). (PD: Munitions Action Plan)

b. Environmental support to range operations.

(1) Prepare an annual Toxic Release Inventory (TRI) Form R for operational ranges as required and submit with the installation's TRI report to the U.S. Army Environmental Command (USAEC) via chain of command by 1 May of each calendar year (this does not apply overseas). After review and comment from USAEC, facilities will provide final report to the Environmental Protection Agency (EPA) by 1 July, with copy to USAEC (see para 7–4d).

(2) Respond to a release or substantial threat of release of munitions constituents (MC), munitions and explosives of concern (MEC), or unexploded ordnance (UXO) from an operational range to off-range areas, when such release poses or may pose an imminent and substantial threat to human health or the environment.

(3) Where practicable, maintain records of the historical uses of operational ranges; and retain environmental cleanup investigations, hydro-geologic, geologic, and soil surveys, and other environmental documents that support sustainable range planning.

(4) Maintain and sustain ranges in an environmentally compliant manner, and undertake emergency response action when appropriate.

c. Response to munitions and explosives of concern.

(1) Investigate and address, as appropriate, the explosives safety, human health, or environmental risks presented by MEC. (This can be as simple as a notification to the community with an education program about the hazards posed by military munitions and how to avoid them, or as complicated as a long-term response action involving sophisticated technology, specialized expertise, and significant resources.)

(2) Maintain permanent records of the coordinates of all areas known or suspected to contain MEC.

(3) Maintain permanent records of all MEC clearance operations, explosive ordnance disposal (EOD) incidents, and open burn/open detonation operations conducted on the range.

d. Chemical warfare agent wastes. Storage and disposal of chemical warfare agent waste and related agent-contaminated material may be subject to the requirements of RCRA or applicable State regulations (this does not apply overseas). Generators of chemical warfare agent waste and agent-contaminated material are responsible for ensuring proper storage and for paying disposal costs (this does not apply to Defense Environmental Restoration Program (DERP)-eligible sites).

Chapter 9
Materials Management

9–1. Hazardous materials

a. Policy.

(1) Follow approved standardized hazardous material management business practices as specified by the Deputy Chief of Staff, G–4 (DCS, G–4) and the Office of the Assistant Chief of Staff for Installation Management (OACSIM) to implement the Hazardous Material Management Program (HMMP).

(2) Review and approve hazardous material (HM) usage and track usage to using processes and work centers.

(3) Reduce the acquisition and use of hazardous materials and the generation of solid or hazardous wastes (HW) through centralized inventory control, best management practices (BMPs), pollution prevention actions, improved procurement practices, material re-use, recycling, and enhanced shelf-life management. HMs should be procured through the standard Army supply system. Use of government IMPAC credit cards to purchase HM is generally prohibited, and may only be allowed on a case-by-case basis by Garrison Commanders or their designated representative.

(4) Manage and dispose of pesticides, residues, and their containers in an environmentally safe manner.

(5) Do not allow the transport, storage, or disposal of non-DOD hazardous materials on Army installations unless approved by the Office of the Assistant Secretary of the Army for Installations and Environment (OASA (I&E)), his or her designee, or higher authority.

b. Legal and other requirements. Section 11011, Title 42, United States Code (42 USC 11011); Section 302–313, Title 33, United States Code (33 USC 26); and Executive Order (EO) 13423.

c. Major program goals. The goals of the HMMP are to reduce risk to public health and the environment by

employing management controls and pollution prevention initiatives to comply with regulations and executive orders and to support sustainability.

d. Program requirements.

(1) Follow Army logistics policy for identifying, storing, and transporting hazardous materials as specified by the DCS, G–4. Related policy guidance can be found in safety, medical, acquisition and logistics regulations. Installation supplements involving any hazardous material management should be coordinated with the installation environmental coordinator, safety coordinator, and installation medical officer.

(2) Record, review, and analyze HM and HW operational data as a source of information to measure HMMP effectiveness.

9–2. Toxic substances

a. General. As used in this regulation, toxic substances include asbestos, polychlorinated biphenyls (PCBs), and lead-based paints (LBP). Generators will pay disposal costs for toxic substances (except that the installation will pay disposal costs for toxic substances that are also classified as a RCRA–C hazardous waste).

b. Asbestos management.

(1) *Policy.* The Army proponent for asbestos hazard management is the Assistant Chief of Staff for Installation Management (ACSIM), Directorate of Facilities and Housing. Army facility policy and guidance on asbestos management is provided in AR 420–70, chapter 3. The Army's medical policy related to asbestos is found in AR 40–5.

(2) *Legal and other requirements.* Applicable legal and other requirements for asbestos management include Section 2651, Title 15, United States Code (15 USC 2651); Section 1801, Title 49, United States Code (49 USC 1801); Section 2601, Title 15, United States Code (15 USC 2601); 42 USC 7401, as amended; Section 1001, Part 1910, Title 29, Code of Federal Regulations (29 CFR 1910.1001); Section 1101, Part 1926, Title 29, Code of Federal Regulations (29 CFR 1926.1101); for overseas installations, the country-specific FGS requirements.

(3) *Major program goals.* Prevent human exposure to asbestos hazards on Army-owned property and maintain compliance with all pertinent regulations. This also applies to accommodations made available to the Army for its exclusive use overseas.

(4) *Program requirements.*

(a) Comply with Sections 140–156, Part 61, Title 40, Code of Federal Regulations (40 CFR 61.140–156) requirements regarding fees and notification. (LD: 40 CFR Part 61.140–156; 40 CFR 70)

(b) Ensure that all workers in facilities where asbestos exposure may occur are trained under Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA) regulations and asbestos safe work practices requirements. (LD: 40 CFR 763)

(c) Ensure that all workers that perform OSHA asbestos work are trained, equipped, and supervised according to EPA abatement and respiratory protection requirements. (LD: 29 CFR 1926.1101; 40 CFR 763)

(d) Use only laboratories accredited under the National Voluntary Laboratory Accreditation Program or host nation (HN) accredited laboratories for overseas installations for the quantitative measurement of bulk and air asbestos samples. (LD: 40 CFR 763.87)

(e) Remove/abate asbestos-containing material only when it:

1. Can no longer be managed in place.

2. Will be disturbed during maintenance, repair, or construction projects.

3. Is friable or will become friable during demolition of a facility.

4. Is economically justified to be removed during building deconstruction.

5. Has been identified to be a hazard and the Army is transferring ownership of the facility to a non-federal entity.

c. Polychlorinated biphenyl management.

(1) *Policy.* Army policy is for generators of polychlorinated biphenyl (PCBs) to manage them in place unless operational, economic, or regulatory considerations justify removal. Economic analyses include potential environmental damage.

(2) *Legal and other requirements.* Requirements for PCB management are found in 15 USC 2601, and applicable State and local requirements; and for overseas installations, the country-specific FGS requirements.

(3) *Major program goals.* Prevent human exposure to PCB hazards on Army-owned property and maintain compliance with pertinent regulations.

(4) *Program requirements.*

(a) Ensure that the inventory, management, reporting, storage, disposal, and cleanup of PCBs comply with Federal, State, and local regulations. (LD: 40 CFR 761)

(b) Require generators, commercial storers, transporters, and disposers of PCBs to have an EPA identification number. (LD: 40 CFR 761.20, 761.60(b), 761.202 through 761.205)

(c) Train personnel who handle or may potentially be exposed to PCBs to perform PCB-related responsibilities in a safe and environmentally sound manner. (LD: 29 CFR 1910.1200; 29 CFR 1910.120(q))

(d) Prohibit the new use or introduction of PCBs at Army facilities.

d. Lead-based paint management.

(1) *Policy.* The Army proponent for lead-based paint (LBP) management is the ACSIM, Directorate of Facilities and Housing. Army facility policy and guidance on LBP management is provided in AR 420–70, chapter 3.

(2) *Legal and other requirements.* Requirements for LBP management are found in 15 USC 2601; Section 1025, Part 1910, Title 29, Code of Federal Regulations (29 CFR 1910.1025); Section 62, Part 1926, Title 29, Code of Federal Regulations (29 CFR 1926.62); Part 745, Title 40, Code of Federal Regulations (40 CFR 745); AR 420–70, chapter 3; and applicable State and local requirements; for overseas installations, the country-specific FGS requirements.

(3) *Major program goals.* Prevent human exposure to LBP hazards on Army-owned property and maintain compliance with pertinent regulations.

(4) *Program requirements.*

(a) Ensure that all workers that perform lead abatement work in child occupied facilities and target housing are trained, equipped, and supervised according to EPA lead-based paint abatement requirements and OSHA requirements for lead in construction. (LD: 40 CFR 745 and 29 CFR 1926.62, respectively). Construction work impacting lead-based paint that is not considered abatement of lead-based paint in target housing or child occupied facilities need only comply with OSHA requirements. (LD: 29 CFR 1926.62)

(b) Per facility and housing BMPs, manage LBP and lead-contaminated soil in place unless operational, economic, and/or regulatory requirements dictate its removal.

(c) Disclose known LBP hazards in Army housing. (LD: 40 CFR 745)

(d) Ensure that disposal of LBP complies with Federal, State, and local regulations.

Chapter 10
Waste Management

10–1. Hazardous waste

a. Policy.

(1) Hazardous waste disposal costs are those costs associated with the collection, treatment, storage, transportation and disposal of hazardous wastes. This includes all Defense Reutilization and Marketing Service (or other contract agent) costs directly related to the packaging and offsite shipment of the wastes. It does not include the disposal of special wastes defined as non-hazardous unless otherwise defined as hazardous by State and local regulations, or country-specific Final Governing Standards (FGS); asbestos; chemical and biological agent waste; radioactive waste; and regulated medical wastes (RMW).

(a) Garrisons must directly charge or seek reimbursement from non-Army tenants and activities funded through an operating fund (Defense Business Operating Fund and Army Working Capital Fund), a procurement fund (Procurement of Ammunition, Army), a research and development fund (Research, Development, Test, and Evaluation and Army Test and Evaluation Command activities), and other DOD funded activities (primarily Defense Logistics Agency, Medical Command, and Defense Commissary Agency). Though appropriated funds can be used for a non-appropriated fund activity (Category C), it is subject to the availability of funds of HQ, IMCOM. Special installations will pay for hazardous waste disposal. Excess or expired hazardous materials must be handled in accordance with AR 710–2 and garrison procedures.

(b) Hazardous wastes generated under service, facility, maintenance or construction contracts (construction demolition debris, paints, soil disposal, disposal of sand from ranges, sludge from wash racks, oil/water separators, water treatment plants, and so forth.) should not be a separate cost and funded as part of the original contract.

(c) The Garrison environmental office will be considered the generator, for funding purposes, of orphan wastes found on post, and wastes from a household hazardous waste collection program.

(2) Comply with all applicable Federal, State, and local HW regulations, and FGS.

(3) Effectively manage HW and reduce its generation.

(4) Minimize the need for Army-owned or operated permitted HW treatment, storage, and disposal facilities.

(5) Minimize HW generation through pollution prevention actions, for example, source reduction, material substitution, and recycling/reuse. Where cost effective and timely, implement pollution prevention solutions to reduce or eliminate compliance requirements.

(6) Prohibit the storage of HW in underground storage tanks (USTs), except where allowed by FGS.

b. Legal and other requirements. 42 USC 6901, Subtitle C; Parts 260–279, Title 40, Code of Federal Regulations (40 CFR 260–279); DOD 4500.9–R, chapter 204; Parts 171–178, Title 49, Code of Federal Regulations (49 CFR 171–178); for overseas installations, the country-specific FGS requirements.

c. Major program goals. Continually reduce the volume of HW generated by Army installations, and maintain compliance with pertinent HW regulations.

d. Program requirements.

(1) Systematically evaluate waste streams to ensure all potential hazardous or special wastes are properly identified and characterized. (LD: 40 CFR 262.11; 40 CFR 264.13)

(2) Ensure that all persons handling or managing HW are provided with appropriate training.

(3) Develop and implement a hazardous waste management plan (HWMP) or other comparable document appropriate to the size and complexity of the operation. The HWMP (or other comparable document) should include, at a minimum, written procedures for all aspects of HW management, to include the identification, storage, and transporting of HW; training of personnel; tracking manifests; and maintaining required records.

(4) Maintain appropriate records in accordance with RCRA and applicable State or FGS requirements.

(5) Complete State/EPA or applicable FGS annual or biennial reporting requirements.

(6) Ensure that HW manifests are only signed by those individuals who have been appropriately trained, and are authorized in writing by the garrison commander (GC). (LD: 49 CFR 172.700–704 (Subpart H); DOD 4500.9–R, chapter 204)

(7) Ensure that the GC signs the RCRA HW permit applications for the installation, sub-installations, and supported facilities as the facility "owner." This responsibility cannot be delegated.

(a) Officials in charge of tenant activities will sign the permit application as the "operator."

(b) For the Defense Logistics Agency, the DRMS Commander will sign as the "operator."

(c) For Army Reserve facilities, the Reserve Readiness Command (RRC) Commander will sign as the facility "owner."

(d) For Army National Guard (ARNG) facilities, the Adjutant General (TAG) of the respective State or territory will sign as the facility "owner."

(e) For closed, transferred, or transferring facilities, the GC of the receiving installation will sign as "owner", and the agency maintaining control and influence over the closed or transferring facility's HW management program will sign the permit as "operator."

(f) For installations not under the purview of the IMCOM, the senior mission commander (SMC) will sign as the facility "owner."

(8) If non-DOD tenants require HW treatment, storage, and disposal facility permits, ensure that the contract, lease, or agreement with the non-DOD tenant holds the Army harmless and contains specific language regarding the operation of the facility, access, damages, and environmental liability in strict accordance with permit conditions. The GC will sign permit applications as the "owner," and the tenant will sign as the "operator" of the facility.

(9) Use the Defense Reutilization Marketing Office (DRMO) for HW disposal with the following exceptions:

(a) When DRMO has indicated or demonstrated the inability to provide the service, and only when a waiver has been approved in writing by the next higher echelon on a case-by-case basis. Waivers will be renewed in writing every 5 years.

(b) Hazardous waste generated incidental to the execution of service or construction contracts should be disposed of by the contractor performing the basic contract, at the contractor's expense, using the installation's generator identification number on the manifest. Such actions must be coordinated with the installation environmental coordinator and documented in writing. The GC remains the "owner" of the waste.

(c) Ensure that all contracts for HW disposal are reviewed by the installation environmental coordinator and the Director of Contracting, and approved by the GC. Such contracts must comply with contract standards in DOD 4160.21–M, chapter 10.

10–2. Solid waste

a. Policy. The Army proponent for solid waste management is the Assistant Chief of Staff for Installation Management (ACSIM), Directorate of Facilities and Housing. Army facility policy and guidance on solid waste management is provided in AR 420–49, chapter 3.

(1) Comply with legally applicable Federal, State, and local requirements, both substantive and procedural, for managing solid waste, including generation, collection, storage, and disposal. This includes the terms and conditions of State and Federal solid waste permits. Overseas, all Army organizations and activities will comply with country-specific FGS and any permits obtained on behalf of the installation by the host nation.

(2) Emphasize integrated solid waste management, pollution prevention, and individual participation to achieve compliance.

(3) Minimize solid waste generation and disposal, and maximize recovery, recycling, and reuse through pollution prevention actions.

(4) Integrate the management of wastes into construction and demolition (C&D) activities such that a significant amount of the materials generated can be reused in their original form with little or no processing, through systematic disassembly or deconstruction, more careful handling, segregating, and making them available to specialized markets.

(5) Ensure that waste accumulation, storage, or transfer facilities are designed and constructed to prevent releases to the environment.

b. Legal and other requirements.

(1) 42 USC 6901, Subtitle D (as amended); PL 98–616; Paragraph a, Sections 6941–6949, Title 42, United States Code (42 USC 6941–6949a, Subtitle D; as amended; Parts 239–258 and Part 261, Title 40, Code of Federal Regulations (40 CFR 239–258 and 261); applicable FGS; and EO 13423.

(2) AR 420–49, chapter 3 defines the Army's policy for managing solid waste. This section of AR 200–1 supplements AR 420–49 by identifying environmental aspects of solid waste management.

(3) AR 415–15, appendix F, Item F–37, Army Disposal/Demolition Program, describes the Army requirement to dispose of one square foot of facilities to offset each square foot of new construction added to the real property inventory.

(4) DA Pam 40–11, chapter 4, Section 4–11 defines the Army's policy for managing regulated medical wastes.

c. Major program goals. The environmental goals of the Army's solid waste management program are to protect public health and the environment by increasing solid waste diversion, minimizing the generation of solid wastes, and increasing the program's economic benefit by investing in pollution prevention initiatives and better managing costs associated with disposal and diversion.

d. Program requirements. Army installations with Army-owned landfills will operate under 42 USC 6941–6949a and meet the criteria of a municipal solid waste landfill (MSWLF) as defined by Federal regulation or State-approved program. Installations may also operate landfills specifically for construction and demolition debris, and/or non-hazardous industrial process wastes, as determined by their mission. These landfills will be operated in accordance with applicable Federal, State, and local regulations. (LD: 40 CFR 257, 258)

Chapter 11
Storage Tank Systems/Oil and Hazardous Substances Spills

11–1. Policy

Manage tank systems used to store oil and hazardous substances in an environmentally safe manner, prevent spills of these substances, and rapidly respond to spills.

11–2. Legal and other requirements

a. 42 USC 9601; 42 USC 11011; 33 USC 26, as amended to include Part 112, Title 40, Code of Federal Regulations (40 CFR 112); Part 300, Title 40, Code of Federal Regulations (40 CFR 300); 42 USC 6901, as amended to include Part 280, Title 40, Code of Federal Regulations (40 CFR 280) and Part 281, Title 40, Code of Federal Regulations (40 CFR 281); 33 USC 2701; 15 USC 2601, as amended; Public Law (PL 109–58), Sections 1521–1532; and AR 50–6. Related Federal laws and regulations are referenced in appendix A.

b. Overseas, all Army organizations and activities will comply with applicable Final Governing Standards (FGS).

11–3. Major program goal

Storage tanks used to transport, store, and handle oil and hazardous substances will be managed to protect the environment and public health.

11–4. Program requirements

a. Storage Tank Systems.

(1) Provide leak detection for regulated underground storage tanks (UST) by retrofit or inventory control procedures. (LD: 40 CFR 280.43)

(2) Provide leak detection, overfill protection, and cathodic protection for aboveground storage tanks (ASTs) as required. (LD: 40 CFR 112.8)

(3) Use double wall construction with interstitial monitoring on all new regulated USTs.

(4) Ensure that all UST systems are cathodically protected or constructed of non-metallic material to meet corrosion protection requirements. (LD: 40 CFR 280.20)

b. Oil and hazardous substance spills.

(1) Develop and implement a spill prevention, control, and countermeasures plan (SPCCP), as required. (LD: CWA Section 311(j), 40 CFR 112, and OPA)

(2) Ensure that the SPCCP addresses secondary containment (or lack there of) at oil and hazardous material storage facilities. (LD: 40 CFR 112.7)

(3) Develop and implement a facility spill contingency plan (SCP) for each oil and hazardous material storage facility that does not have adequate spill prevention structures in place. (LD: 40 CFR 112.7)

(4) Ensure secondary containment is provided for oil and hazardous material storage facilities, including piping. If it is determined that secondary containment is impracticable, the installation must address this in the SPCCP and facility SCP (an SCP is only required if adequate spill prevention structures are not in place). (LD: 40 CFR 112.7)

(5) Ensure the SPCCP is reviewed at least once every 5 years. Amend the plan within 6 months of a change that

materially affects its potential for discharge. If technical changes have been made, the plan must be signed by an individual with authority to commit the necessary resources to respond to a release, and certified by a professional engineer familiar with installation operations. (LD: 40 CFR 112.5)

(6) Use the Environmental Quality Control Committee (EQCC) to coordinate the SPCCP with affected installation elements.

(7) Maintain an accurate inventory of SPCCP applicable containers, including the location and/or spatial extent of such containers. (LD: 40 CFR 112.7)

(8) Prepare spill response plans and notification procedures, to include a facility response plan, as needed, for spills caused by Army actions, including coordination with local emergency planning authorities. (LD: 40 CFR 300.211; 40 CFR 112.20; 33 CFR 154; 49 CFR 130; 49 CFR 171–172)

(9) Conduct training to ensure proper response to spills or releases. This includes annual spill response exercises for the spill response organization. (LD: 29 CFR 1910.120 (e), (p), (q); 40 CFR 112.21)

(10) Ensure the garrison commander (GC) designates, in writing, a qualified on-scene coordinator (OSC) responsible for executing spill response. The local commander will designate in writing the OSC at USAR maintenance facilities. The State Adjutants General will designate in writing the OSC at Army National Guard (ARNG) maintenance facilities. (LD: 40 CFR 300.120)

(11) Ensure that facility operators and OSC understand and comply with Federal and State reportable quantity requirements.

(12) When a spill occurs, immediately report the spill or release to the OSC and implement the SCP and/or SPCCP. The OSC will determine if it exceeds reportable quantities and will notify regulatory authorities as required. Any spill that requires notification of regulatory authorities will be reported to the next higher headquarters. (LD: 40 CFR 112.4; 40 CFR 300.125; 33 CFR 153, Subpart B; 40 CFR 302)

(13) Assist Federal or State agencies in response to spills outside the Army property where practicable in accordance with AR 75–15.

(14) For outside the continental United States (OCONUS) installations, provide response assistance for spills off Army property in accordance with their applicable FGS and garrison SPCCP.

(15) For further guidance in managing ASTs and equipment subject to 40 CFR 112, refer to the 2 April 2004, DOD Joint Services Spill Prevention, Control, and Countermeasure (SPCC) Guidance.

Chapter 12
Environmental Cleanup

12–1. Policy

a. Comply with applicable Federal, State, local, and Department of Defense (DOD) requirements for the cleanup of contamination on Army installations and formerly used defense sites (FUDS). Figure 12–1 depicts the differences and commonalities among the various cleanup program areas. For overseas installations, only the Compliance-related Cleanup (CC) Program applies.

b. Accomplish early and continued public involvement in the cleanup programs.

c. Keep State regulatory agencies and the U.S. Environmental Protection Agency (EPA) informed of cleanup program activities, as appropriate.

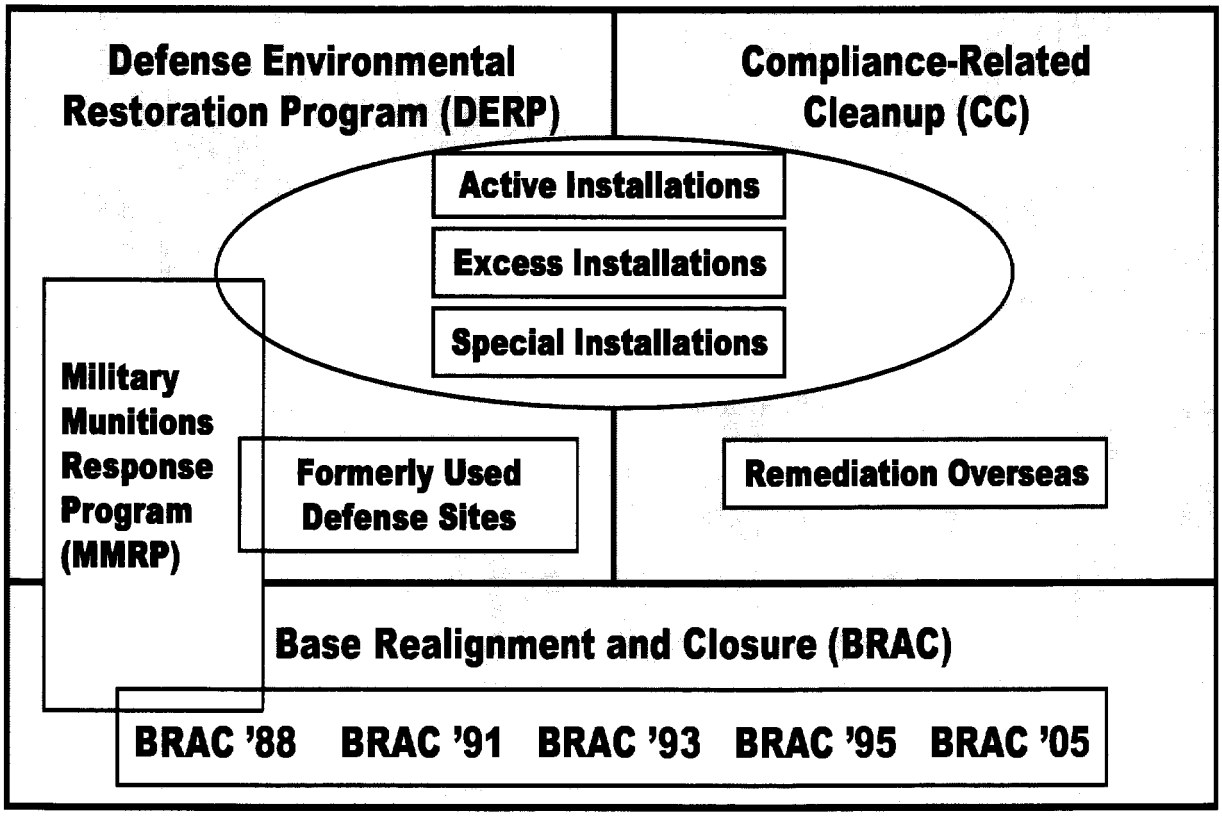


Figure 12–1. Army Environmental Cleanup Program Areas

12–2. Legal and other requirements

The following list of statutory requirements apply to environmental cleanup:

a. 42 USC 9601; 40 CFR 300; Section 120, Part 1910, Title 29, Code of Federal Regulations (29 CFR 1910.120); Executive Order (EO) 12580; and 42 USC 6901, Sections 3004u, 3004v, and 3008h; Section 2701, Title 10 United States Code (10 USC 2701); DOD 7000.14–R; DODI 4715.7, for all but overseas installations; DODI 4715.8; Engineer Regulation (ER) 200–3–1, formerly Used Defense Site (FUDS) Program Policy; Charter for the Formerly Used Defense Sites Program, 31 October 2003; and Office of the Assistant Secretary of the Army for Installations and Environment (OASA (I&E)) Deputy Assistant Secretary of the Army (Environment, Safety, and Occupational Health) (DASA (ESOH)) memorandum, 18 June 2004, subject: The Army Environmental Compliance-related Cleanup Program Eligibility. The Army environmental cleanup programs include the Army DERP at active, closing, and realigning installations; DERP at FUDS properties; and compliance-related cleanup (CC) at active and excess installations, including those overseas. Regulations that pertain to the Army's environmental cleanup programs are referenced in appendix A.

(1) Defense Environmental Restoration Program (DERP) cleanups (Installation Restoration Program (IRP), Military Munitions Response Program (MMRP), base realignment and closure (BRAC), FUDS) address hazardous substances, pollutants and contaminants, and military munitions sites, consistent with the provisions of 42 USC 9601, et seq. (CERCLA); 40 CFR 300 (National Oil and Hazardous Substances Pollution Contingency Plan); EO 12580; and 42 USC 6901, Sections 3004u, 3004v, and 3008h for activities that resulted in contamination prior to 17 October 1986 at non-permitted sites.

(2) Compliance related cleanup (CC) addresses cleanup requirements that are legally mandated but not eligible for funding under the Army DERP. The program focuses on the remediation of contamination at Army overseas facilities (it does not include actions to remedy contamination that are covered by environmental annexes to operations orders and similar operational directives), and on the cleanup of contamination resulting from operations that have occurred since 17 October 1986. This includes sites at Active Army, Army Reserve, Army National Guard (ARNG) Federally-owned facilities, as well as cleanup at non-Federally-owned, Federally-supported (State-owned, State-operated) ARNG

facilities. CC does not include initial response actions to address spills, but does include follow-on response action, if required.

b. The DERP is supplemented by the *DOD Management Guidance for the Defense Environmental Restoration Program (DERP)*, September 2001. The DERP Management Guidance defines eligibility and addresses sites in the following three program categories:

(1) The IRP includes response actions to address releases of hazardous substances, pollutants and contaminants (as defined in CERCLA); petroleum, oil, lubricants (POL); DOD-unique materials; hazardous wastes (HW); and low-level radioactive materials or low-level radioactive wastes (LLRW). The IRP also includes military munitions (including munitions and explosives of concern (MEC), see glossary) or munitions constituents (MC) at a relatively small number of sites where the following three conditions all exist:

(a) The release occurred prior to 30 September 2000.

(b) The release is at a site that is not an operational range, an active munitions demilitarization facility, an active waste military munitions (WMM) treatment or disposal unit, or FUDS.

(c) The site was identified or included in the Army Environmental Data Base-Restoration (AEDB–R) or Formerly Used Defense Sites Management Information System (FUDSMIS) prior to 30 September 2000, and was not classified as "response complete."

(2) The MMRP addresses munitions responses at active or BRAC installations where the release occurred prior to 30 September 2002, and the release is at a site that is not a FUDS, an operational range, an active munitions demilitarization facility, or an active WMM treatment or disposal unit that operated after 30 September 2002, and the site was not identified or included in the AEDB–R prior to 30 September 2000.

(3) Building demolition/debris removal (BD/DR) addresses the demolition and removal of unsafe buildings and structures at facilities or sites that are or were owned by, leased to, or otherwise possessed by the United States and under the jurisdiction of the DOD.

12–3. Major program goals

Perform appropriate, cost-effective cleanup so that property is safe for Army use (or transfer as appropriate), sustains operations and training, and protects human health and the environment.

12–4. Program requirements

a. Cleanup program areas. All cleanup program areas must:

(1) Identify cleanup requirements at the site level using the more stringent of current or projected future land use as documented in the installation master plan, develop a reasonable schedule and cost to complete cleanup, record liabilities in a database of record, and pursue cleanup until regulatory agreement with site closure.

(2) Provide site-level data in response to Assistant Chief of Staff for Installation Management (ACSIM) data calls for updates to the databases of record.

(3) Develop and maintain an administrative record for National Priorities List (NPL) sites or similar documentation for non-NPL sites on the installation or U.S. Army Corps of Engineers (USACE) District responsible for FUDS.

(4) Prepare annual cost-to-complete estimates for each site in the program that reflect the environmental strategy and sequence as presented in the installation action plan (IAP), BRAC IAP, or FUDS management action plan (MAP). Maintain an audit trail for changes that occur in a fiscal year (FY) that reflects actions taken, change in estimates, and new or deleted requirements. Estimates must be based on reliable, complete and fully documented data and will be in constant year dollars. (LD: PL 101–576)

(5) Determine contamination migration. Garrison commanders (GCs) must approve off-site data collection and any off-post monitoring to ensure that contamination has not migrated off-site. (LD: EO 12580 at CERCLA sites; PD at other sites)

(6) Notify the DASA (ESOH) through the chain-of-command prior to initiating any off-site response actions. The Army has the authority to conduct response actions outside the installation boundary, however, the lack of Army control over this off-installation property, potential legal and technical complexity, sensitivity, and the necessity for increased public involvement requires additional oversight on these responses. This notification requirement does not apply to FUDS.

(7) Maintain a permanent document repository to ensure cleanup information is available to protect future Army liability at any date in the future.

(8) Document environmental response decisions in a CERCLA record of decision (ROD) or an equivalent decision document (DD) or action memorandum prior to conducting removal or remedial actions.

(9) Coordinate remedial documents with Natural Resource Trustees.

(10) Work cooperatively with regulatory agencies to ensure that the Army's cleanup goals are accomplished cost-effectively, and in accordance with applicable laws and regulations.

(11) Fully support public involvement in cleanup programs where there is potential impact on the health, environment, and economic well being of the local community.

(12) Maintain an inventory and maps of land use controls (LUCs) resulting from response decisions, and at active installations, integrate them into the installation master plan.

(13) Establish procedures for evaluating implemented remedies that:

(a) Optimize the overall performance and effectiveness of the remedy.

(b) Control the operation and maintenance cost of remedies in the remedial operations phase.

(c) Assess whether remedial action objectives specified in the ROD/DD for the site are being achieved and whether treatment systems are still needed.

(d) Determine whether different remedial action objectives or different technologies are more appropriate.

b. Army Defense Environmental Restoration Program. The DERP addresses sites at real property under U.S. jurisdiction, custody, and control of the Army to include: (LD: 10 USC 2701(c))

(1) Active and excess U.S. Army and U.S. Army Reserve installations and facilities.

(2) Federally owned or leased ARNG installations, activities, and properties.

(3) Contractor activities, lessees, and other tenants on Army installations or facilities.

(4) The Army DERP addresses contamination at sites on active installations in the three categories described previously: IRP, MMRP, and BD/DR. The Army funds the DERP at active installations with Environmental Restoration, Army (ER, A) funds authorized and appropriated specifically to execute the DERP at active installations. ER, A is "fenced" and must be used for the restoration projects in the approved IAP for sites included in AEDB–R. (LD: 10 USC 2703)

(5) For IRP category sites:

(a) Conduct screening for past use of hazardous substances, pollutants and contaminants and the potential for contamination (or reassessment, if appropriate) at active Army and Federally-owned NGB–ARNG installations and sub-installations. (LD: 10 USC 2701)

(b) Conduct studies and response actions in accordance with the annual IAP approved by the GC (or equivalent).

(c) Establish an information repository and administrative record to provide public access to information about the cleanup activities at the installation. (LD: 42 USC 9613 and 9620)

(d) Establish an effective community involvement program, to include a community relations plan (CRP) at NPL sites (LD: 40 CFR 300.155) or public involvement and response plan for Army installations with an active cleanup program.

(e) Negotiate a Federal Facilities Agreement/Interagency Agreement at NPL sites complying with the DOD approved model agreement. (LD: CERCLA Section 120(e)(2) and 120(e)(4))

(f) Establish a Technical Review Committee (TRC) or Restoration Advisory Board (RAB) when applicable to allow the local community an opportunity to participate in the remedy selection process. Form a RAB at all BRAC installations where closure involves the transfer of property to the community, unless otherwise determined by the ACSIM. At installations on the NPL, a RAB will meet the requirements of paragraph c, Section 2705, Title 10, United States Code (10 USC 2705(c)) for a TRC. (LD: 10 USC 2705(d))

(g) Initiate action to have the site expeditiously deleted from the NPL by EPA once all site completion criteria are met, or request partial delisting of specific operable units, as appropriate. (LD: 40 CFR 300.425)

(6) For MMRP category sites: conduct response actions to address military munitions or the chemical residues of munitions at active installations.

(7) For BD/DR: BD/DR program category responses for buildings unused since 17 October 1986 may be undertaken when the requirement to demolish the building(s) is an integral part of activities under an IRP or MMRP category response. Any other ER, A funded BD/DR program category response for buildings unused since 17 October 1986 may only be undertaken when specifically authorized by the Assistant Deputy Undersecretary of Defense (Environment, Safety, and Occupational Health) (ADUSD (ESOH)).

c. Base realignment and closure.

(1) The Base Realignment and Closure (BRAC) cleanup program addresses sites at installations designated for closure or realignment by Base Closure legislation and is funded from the Base Closure Account (BCA) using DOD's DERP authority. At closing installations, cleanup requirements consist of previously identified IRP and MMRP category requirements plus those closure related compliance actions required for property transfer. The BRAC cleanup program may address BD/DR category requirements for unsafe buildings or structures unused since 17 October 1986, where the activities are an integral part of actions under the IRP or MMRP category responses.

(2) Army activities will—

(a) Update BRAC IAPs annually.

(b) Ensure that BRAC cleanup activities comply with the ADUSD(E) policy guidance for Fast Track Cleanups and the Base Redevelopment and Realignment Manual.

(c) Strive to transfer BRAC property to productive reuse.

d. Compliance-related cleanup.

(1) The CC includes actions to address contamination at Army facilities overseas; contamination resulting from

operations that have occurred since October 1986 (that is, non-DERP) at Army Active, Excess, and Special installations, and ARNG Federally owned facilities; and contamination at non-Federally-owned, Federally-supported ARNG facilities.

(2) The CC projects are projects needed to further investigate, and if necessary, conduct response actions to address contaminants that present an imminent and substantial threat to human health and/or the environment.

(3) Undertake CC projects when needed to address the following requirements:

(a) Releases under CERCLA or RCRA corrective action that are not eligible for funding under the DOD Management Guidance for the DERP (for example, releases that occurred on or after 17 October 1986).

(b) Cleanup mandated under authority of Federal and/or State environmental laws that are not being addressed under other cleanup programs (for example, DERP, BRAC, and so forth).

(c) Releases from HW treatment, storage, or disposal facilities (TSDF) or solid waste landfills that are undergoing RCRA closure.

(d) Releases from a RCRA underground storage tank (UST) if it was in service as of 17 October 1986.

(e) Army contamination beyond the installation boundary where necessary to protect human health and the environment (and not eligible for DERP funding).

(f) Contamination at overseas installations in accordance with DODI 4715.8.

(g) Contamination at non-Federally-owned, Federally-supported ARNG sites, regardless of date.

(h) Munitions responses at ranges closed after 30 September 2002.

(i) Response actions outside the boundaries of operational ranges required as a result of the Range Assessment Program established in accordance with DODD 4715.11.

(j) Non-DERP environmental liabilities at excess installations.

(k) Army Commands (ACOMs), Army Service Component Commands (ASCCs), and Direct Reporting Units (DRUs) with special installations will program and budget mission or working capital fund resources to address non-DERP, CC eligible releases. Special installations are eligible for Army DERP consistent with DERP eligibility requirements.

e. Other.

(1) *Formerly used defense sites (FUDS).*

(a) Under the DERP, the FUDS Program addresses properties that were under the jurisdiction of the Secretary of Defense and owned by, leased by, or otherwise possessed by the United States, or otherwise under the operational control of the Secretary of Defense or the military components that were transferred from DOD control prior to 17 October 1986. The FUDS program addresses sites in the following program categories: IRP; MMRP; and BD/DR. Also eligible are former DOD sites that were transferred after 17 October 1986, but that have a completed Findings and Determination of Eligibility (FDE) and a final inventory project report (INPR), signed prior to 30 September 2000 stating that the property was FUDS eligible, and that were listed in Restoration Management Information System (RMIS) as a FUDS property prior to 30 September 2000.

(b) The ADUSD (ESOH) establishes overall FUDS program policy and budget guidance. Regardless of which military service formerly controlled the property, the Army is the executive agent (EA) to administer the FUDS program. General policy on management and execution of the FUDS program is provided in the DOD Management Guidance for the DERP and the FUDS Program Charter. The ASA (I&E) and ACSIM are, respectively, the Army Secretariat and Army Staff (ARSTAF) proponents for the FUDS program. The USACE is responsible for management and execution of the FUDS Program.

(c) Specific FUDS execution guidance and procedures are provided in USACE's Engineer Regulation (ER) 200–3–1.

(2) *Defense and State Memoranda of Agreement/Cooperative Agreement (CA).*

(a) DOD, through the Defense and State Memoranda of Agreement/Cooperative Agreement (DSMOA/CA) program, involves State/Territorial governments in the environmental restoration of DOD installations including FUDS properties. The Office of the Secretary of Defense (OSD) has given the Army the authority to negotiate DSMOAs and recommend approval of DSMOAs to the ADUSD (ESOH). USACE executes the DSMOA/CA Program for all military services.

(b) Authority for this program is contained in 10 USC 2701(d) which allows the Secretary of Defense to enter into agreements on a reimbursable basis with states/territories to support DERP cleanup efforts at DOD installations. The DSMOA/CA program does not apply to compliance-related cleanup (CC). Specific criteria, funding information, and services eligible for State reimbursement for this program are contained in Part 28835, Title 57, Federal Register (57 FR 28835), dated 29 June 1992.

(c) Funding for the Army's contribution to the DSMOA/CA Program will be provided by the Army from the ER, A; Environmental Restoration, FUDS (ER, F); and BCA accounts.

(3) *Memorandum of Understanding between DOD and the Agency for Toxic Substances and Disease Registry.*

(a) DOD has entered into a MOU with ATSDR that delineates the responsibilities and procedures under which

Agency for Toxic Substances and Disease Registry (ATSDR) and DOD will conduct activities mandated in CERCLA. The MOU is the single document governing the relationship between DOD and ATSDR.

(b) Funding for the ATSDR to conduct Army-related studies under the MOU with DOD is provided by the Army from the ER, A; ER, F; and BCA accounts. Each military component funds its own ATSDR services.

(c) Refer to the U.S. Army Environmental Restoration Programs Guidance Manual and the Guidelines for the Coordination of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Activities Between Agency for Toxic Substances and Disease Registry and Department of Defense for additional information about the roles of ATSDR and DOD components in DOD cleanup activities.

(4) *Exemptions.* The above guidance for environmental cleanup does not apply to:

(a) Contractor-owned and contractor-operated facilities that are not on real property controlled by the Army.

(b) Properties that are not on real property that is or was owned, controlled, or otherwise under the jurisdiction of DOD (that is, a third-party site).

(c) Responses to releases that occur solely as a result of an act of war.

(d) Emergency response to and cleanup of a release from any routine operation, management, or maintenance at an operating Army facility or site that does not become a cleanup project.

(e) Routine range maintenance and sustainment activities at operational ranges.

Chapter 13
Environmental Quality Technology

The Environmental Quality Technology (EQT) effort is planned, programmed, and budgeted for at Headquarters, Department of the Army (HQDA) level. It focuses investments on the Army's most pressing needs and provides visibility of the Army's environmental research, development, test, and evaluation (RDT&E) efforts. EQT requirements are identified and validated through the Army Environmental Requirements and Technology Assessments (AERTA). The AERTA requires a review of new and existing requirements to determine if changes in doctrine, organization, training, materiel, leadership and education, or personnel and facilities (DOTMLPF) will resolve the requirement(s). Only those requirements requiring a materiel solution will be included in the AERTA. Requirements with other than materiel solutions will be forwarded to the appropriate proponent/organization for action. The EQT Program Operating Principles, October 2001, provide detailed guidance.

13–1. Environmental Technology Technical Council

a. The Army established an Environmental Technology Technical Council (ETTC) to provide management oversight and endorsement of the EQT programs formulation process. The Deputy Assistant Secretary of the Army (Environment, Safety, and Occupational Health) (DASA (ESOH)) and the Director, Research and Laboratory Management, Office of the Assistant Secretary of the Army for Acquisition, Logistics, and Technology (OASA (ALT)) co-chair the ETTC.

b. The ETTC consists of members representing the operational, logistics, scientific and engineering, planning, resource management, infrastructure, and medical interests of the Army. The ETTC consolidates and prioritizes Army environmental technology needs, and articulates the requirements to the appropriate proponent.

c. The ETTC establishes technology teams as needed to carry out its assigned functions.

d. The ETTC meets as needed to endorse new programs and to review technology priorities and program execution.

13–2. Policy

Provide environmental quality RDT&E and technology transfer to resolve the Army's EQT requirements. EQT efforts are integrated and coordinated with other Defense RDT&E initiatives, such as the National Defense Center for Environmental Excellence (NDCEE), Strategic Environmental Research and Development Program (SERDP), the Environmental Security Technology Certification Program (ESTCP), and Federal and State government and international forums, to leverage their technology output, reduce total life-cycle costs, and resolve these EQT requirements in a timely manner.

a. Focus efforts on high priority user defined requirements.

b. Implement technology development when technology is not commercially available.

c. Provide an adequate science and engineering base to sustain future technology needs.

d. Focus efforts of the Army EQT program to support and enhance technology transfer of validated capabilities and processes.

13–3. Legal and other requirements

10 USC 160, Sections 2706 and 2709.

13–4. Major program goals

The Army goal for EQT is to enable mission readiness through the development and exploitation of technology that provides sustainable installations, training lands, and weapons systems.

13–5. Major requirements

a. Identify and document user requirements and invest in high priority environmental requirements providing validated solutions to the end-user for qualification, production, or fielding.

b. Leverage other DOD and Congressionally-directed initiatives to help resolve Army environmental requirements.

c. Use the EQT requirements to prioritize the Army funded efforts at the NDCEE.

Chapter 14
Operational Noise

14–1. Policy

a. Evaluate and document the impact of noise produced by ongoing and proposed Army actions/activities and minimize annoyance to humans to the extent practicable.

b. Develop installation noise management plans as appropriate.

c. Reduce noise to acceptable levels in on-post noise sensitive locations (for example, medical treatment, education, family housing) through appropriate land use planning and/or architectural and engineering controls.

d. Monitor, record, archive and address operational noise complaints.

e. Develop and procure weapons systems and other military combat equipment (for example, electrical generators, etc.) that produce less noise, when consistent with operational requirements. Measure the noise emitted by all combat equipment and weapons systems to be used in training before deployed to units.

f. Procure commercially manufactured products, or those adapted for general military use that produce less noise, and comply with regulatory noise emissions standards.

g. Acquire property only as a last resort to resolve off-post noise issues.

h. Manage operational noise issues and community relations to maintain sustainable testing and training capabilities and prevent encroachment.

14–2. Legal and other requirements

Property and tort law; Noise Control Act of 1972, Quiet Communities Act of 1978; AR 95–1; AR 210–20; AR 350–19; and applicable State and local laws.

14–3. Major program goals

a. Control operational noise to protect the health and welfare of people, on- and off- post, impacted by all Army-produced noise, including on- and off-post noise sources.

b. Reduce community annoyance from operational noise to the extent feasible, consistent with Army training and materiel testing mission requirements.

c. Actively engage local communities in land use planning in areas subject to high levels of operational noise and a high potential for noise complaints.

14–4. Program requirements

a. Noise descriptors (metrics) appropriate for determination of compatible land use, and assessment procedures will be based on the best available scientific information.

(1) The day-night level (DNL) is the primary descriptor for military noise, except small arms, see table 14–1. The DNL is the time weighted energy average sound level with a 10-decibel (dB) penalty added to the nighttime levels (2200 to 0700 hours). The DNL noise metric may be further defined, as appropriate, by the installation with a specific, designated time period (for example, annual average DNL, average busy month DNL). The typical assessment period over which the noise energy is averaged is 250 days for Active Army installations and 104 days for Army Reserve and National Guard installations. The use of average busy month DNL is appropriate when the OPTEMPO is significantly different during certain peak periods of the year. For future land use planning and encroachment assessment purposes, a reasonable annual growth factor in activity (for example, 10 or 15 percent) may be assumed.

(2) Supplemental metrics, such as single event noise data (for example, Peak, PK 15(met) or CSEL), may be employed where appropriate to provide additional information on the effects of noise from test and training ranges. A-weighted maximum noise levels will be used to assess aviation low level military training routes (MTRs) and/or flight tracks.

(3) The use of average noise levels over a protracted time period generally does not adequately assess the probability of community noise complaints. Assess the risk of noise complaints from large caliber impulsive noise

resulting from testing and training activities, ex. armor, artillery, mortars and demolition activities, in terms of a single event metric, either peak sound pressure level (PK 15(met)) or C-weighted sound exposure level (CSEL). The metric PK 15(met) accounts for statistical variation in received single event peak noise level that is due to weather. It is the calculated peak noise level, without frequency weighting, expected to be exceeded by 15 percent of all events that might occur. If there are multiple weapon types fired from one location, or multiple firing locations, the single event level used should be the loudest level that occurs at each receiver location.

(4) Assess noise from small arms ranges using a single event metric, either PK 15(met) or A-weighted sound exposure level (ASEL).

(5) Use the land use planning zone (LUPZ) contour to better predict noise impacts when levels of operations at airfields or large caliber weapons ranges are above average.

(6) Use available DOD noise assessment software as the primary means of operational noise assessment.

(7) Prepare noise maps showing noise zones and limits as defined in tables 14–1 and 14–2.

(8) Manage noise-sensitive land uses, such as housing, schools, and medical facilities as being acceptable within the LUPZ and noise zone I, normally not recommended in noise zone II, and not recommended in noise zone III. These noise zones are defined in table 14–1.

(9) Single event noise limits in table 14–2 correspond to areas of low to high risk of noise complaints from large caliber weapons and weapons systems. These should be used to supplement the noise zones defined in table 14–1 for land use decisions. Noise sensitive land uses are discouraged in areas where PK 15(met) is between 115 and 130 dB; medium risk of complaints. Noise sensitive land uses are strongly discouraged in areas equal to or greater than PK 15(met) = 130 dB; high risk of noise complaints. For infrequent noise events, installations should determine if land use compatibility within these areas is necessary for mission protection. In the case of infrequent noise events, such as the detonation of explosives, the installation should communicate with the public.

(10) Transportation and industrial noise will be assessed on a case by case basis using appropriate noise metrics, including U.S. Department of Transportation guidelines.

b. Address issues concerning building vibration and rattle due to weapons blast through the appropriate subject matter experts and legal counsel.

c. Address noise impacts on domestic animals and wildlife, as required, through the study of each species' response or a surrogate response to noise. The noise levels set forth herein apply to humans only and do not apply to domestic animals or wildlife.

Table 14–1
Noise Limits for Noise Zones

Noise zone	Noise limits (dB)	Noise limits (dB)	Noise limits (dB)
	Aviation ADNL	**Impulsive CDNL**	**Small arms — PK 15(met)**
LUPZ	60 - 65	57 - 62	N/A
I	< 65	< 62	<87
II	65 - 75	62 - 70	87 - 104
III	>75	>70	>104

Legend for Table 14-1:
dB=decibel
LUPZ=land use planning zone
ADNL=A-weighted day-night levels
CDNL=C-weighted day-night levels
PK 15(met)=Single event peak level exceeded by 15 percent of events
<=less than
>=greater than
N/A=Not Applicable

Table 14–2
Risk of Noise Complaints by Level of Noise

Risk of Noise complaints	Large caliber weapons noise limits (dB) PK 15(met)
Low	< 115
Medium	115 - 130
High	130 - 140
Risk of physiological damage to unprotected human ears and structural damage claims	> 140

Legend for Table 14-2:

dB = decibel

PK 15(met) = Single event peak level exceeded by 15 percent of events

Notes:

[1] Although local conditions regarding the need for housing may require noise-sensitive land uses in Noise Zone II, on or off post, this type of land use is strongly discouraged. The absence of viable alternative development options should be determined and an evaluation should be conducted locally prior to local approvals indicating that a demonstrated community need for the noise-sensitive land use would not be met if development were prohibited in Noise Zone II.

[2] Where the community determines that these uses must be allowed, measures to achieve an outdoor to indoor noise level reduction (NLR) of at least 25 dB to 30 dB in Noise Zone II, from small arms and aviation noise, should be incorporated into building codes and be in individual approvals. The NLR for communities subject to large caliber weapons and weapons system noise is lacking scientific studies to accomplish the recommended NLR. For this reason it is strongly discouraged that noise-sensitive land uses be allowed in Noise Zone II from large caliber weapons.

[3] Normal permanent construction can be expected to provide a NLR of 20 dB, for aircraft and small arms, thus the reduction requirements are often stated as 5, 10 or 15 dB over standard construction and normally assume mechanical ventilation, upgraded Sound Transmission Class (STC) ratings in windows and doors and closed windows year round. Additional consideration should be given to modifying NLR levels based on peak noise levels or vibrations.

[4] NLR criteria will not eliminate outdoor noise problems. However, building location and site planning, and design and use of berms and barriers, can help mitigate outdoor noise exposure NLR particularly from ground level aircraft sources. Barriers are generally not effective in noise reduction for large arms such as artillery and armor, large explosions, or from high-level aircraft sources.

Chapter 15
Program Management and Operation

15–1. Structure and resourcing

a. Army Environmental Funding Policy.

(1) Army organizations are responsible for addressing environmental requirements for activities under their purview to ensure timely compliance with legal mandates, and for sustaining environmental stewardship.

(2) Environmental requirements must be funded from the appropriate account of the proponent who has the responsibility for the action, not necessarily the Installations Program Evaluation Group (II PEG) environmental program accounts.

b. Programming and budgeting. Commensurate with their responsibilities, Army organizations (to include tenants) will plan, program, budget, and execute resources to:

(1) Mitigate actual or imminent health and environmental hazards.

(2) Comply with Federal, State and local statutes, regulations, agreements, and other judgments, applicable executive orders (EOs), Final Governing Standards (FGS), and legally-binding international agreements at overseas installations.

(3) Sustain the quality and continued availability of lands for essential operations, training, and testing by protecting natural and cultural resources.

(4) Maintain an adequately trained and staffed organization for environmental monitoring and program management.

(5) Employ cost-effective pollution prevention and reuse/recycle-based solutions in all mission areas as the preferred approach for meeting compliance requirements, reducing operating costs, and maintaining environmental stewardship.

(6) Focus environmental quality technology (EQT) research and innovative applications to achieve program goals and reduce program costs.

(7) Address environmental quality costs associated with weapons system life cycle within the context and requirements of the life cycle cost estimate, and adequately assess these costs in the acquisition milestone review process.

c. Investment strategy. Army organizations will make prudent investments in environmental initiatives that support mission accomplishment, enhance readiness, reduce future funding needs, prevent or mitigate pollution, improve compliance, and reduce the overall cost of compliance with applicable environmental requirements.

d. Payment of fines and penalties for environmental violations. Fines, penalties, and supplemental environmental project (SEP) costs will be paid by the organization against which the fine or penalty has been assessed, using applicable Army appropriations unless otherwise required by law. Payment of fines and penalties will be charged to the

funding account of the operation causing the violation. Contracting Officers will ensure that contracts require contractors to pay fines or penalties resulting from their operations.

e. Compliance agreements and consent orders. Compliance agreements and consent orders attributable to a tenant's mission and/or operations will be financed with mission funds and must be coordinated through the mission chain of command.

15–2. Environmental Quality Control Committee

a. Installations will establish Environmental Quality Control Committees (EQCCs) chaired by the Garrison Commander (GC). In overseas areas, the EQCC may be organized at the appropriate military community level. The EQCC will include major and sub-installations and tenant activities. EQCCs will meet at least quarterly and document decisions.

b. The EQCC should consist of members representing the operational, logistics, engineering, planning, resource management, legal, medical, environmental, morale, welfare, and recreation (MWR), commissary, exchange service, and safety interests of the command, including military installation tenant activities.

c. The EQCC will help to plan, execute, and monitor actions and programs with environmental implications. The committee will identify issues, make recommendations, and advise the GC.

15–3. Environmental training, awareness, and competence

a. All personnel who perform tasks that can cause significant environmental impacts will be competent on the basis of appropriate education, training, and/or experience.

b. Personnel in non-environmental managerial functions will receive appropriate technical and/or awareness training.

c. All organizations will identify training needs (including legally mandated training), document training taken, and evaluate effectiveness.

d. Supervisors are responsible to ensure their employees are properly trained.

e. Organizations should use the most effective and efficient education and training sources available, such as academia, private vendors, Federal or State agencies, workshops and conferences, and distributive training. Army organizations will develop training courses only when such training courses do not exist. Proposals to develop training courses will be coordinated with higher headquarters and Training and Doctrine Command (TRADOC).

f. The U.S. Army Engineer School (USAES) is responsible for developing and integrating environmental considerations into personnel training.

g. All organizations will ensure applicable personnel at all levels conform to a single installation-wide environmental management system (EMS).

15–4. Communications

a. Internal. Organizations at all levels will establish and maintain procedures for internal communication among all their levels and functions and report environmental incidents.

b. External.

(1) Organizations at all levels will establish and maintain procedures for receiving, documenting, and responding to communication from external interested parties in coordination with the Public Affairs staff.

(2) Organizations will only provide information on publicly accessible, non-restricted Army environmental Web sites that have been properly cleared for release by the appropriate Public Affairs Office (PAO).

(3) Information available to the public through the Internet will be consistent with guidance issued by the Army Chief Information Officer/G–6 (CIO/G-6).

(4) All environmental agreements must be reviewed and approved by the next higher echelon. Proposed agreements and their review will include consideration of long-term Army resource commitments. In addition, environmental agreements with regulatory agencies will be forwarded through command channels to the JALS–EL for review prior to signature, and those resulting from tenant activities will be coordinated with the tenant, the Army Commands (ACOMs), Army Service Component Commands (ASCCs), Direct Reporting Units (DRUs), National Guard Bureau-Army National Guard (NGB–ARNG), and the Installation Management Command (IMCOM), if applicable.

(5) Army elements will include public involvement as a component of the decision making process to build mutual understanding with interested parties through two-way communication. Dialogue will strive to reduce miscommunication and foster a mutually beneficial exchange of information.

15–5. Real property acquisition, leases, outgrants, and disposal transactions

a. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) requires the Army to perform certain actions to assess the environmental condition of property prior to entering into designated real property transactions. These transactions include fee acquisition of real property on behalf of the United States, deeds divesting title from the United States, transfers of jurisdiction between federal agencies, and leases of Army-controlled real property to non-Army entities.

b. This section is not applicable to reassignments within Army or DOD elements; to acquisition of less than fee; or

to other outgrants (license, easement, or permit). However, the Environmental Condition of Property (ECP) requirements of this section apply, as a matter of policy, to DA licenses to the National Guard Bureau (NGB), licenses for State National Guard Components, and to state land acquisition where the land will be provided for federally funded construction. Army proponents will conduct these transactions in accordance with the procedures found in AR 405–10; AR 405–80; AR 405–90; Section 2688, Title 10, United States Code (10 USC 2688); 32 CFR 651; and Part 800, Title 36, Code of Federal Regulations (36 CFR 800). Base Realignment and Closure (BRAC) actions will comply with DODI 4165.66M, or its successor. The Army proponent may elect to perform an environmental site assessment for the inapplicable transactions. (LD: 42 USC 9620(h))

c. Except as noted in *b.* above, Army will assess, determine, and document the environmental condition of transferable property in an ECP Report. The ECP Report will summarize historical, cultural, and environmental conditions and include references to publicly available and related reports, studies, and permits. The report will provide an accurate summary of the environmental condition of the property. If the property will be deeded or leased, the site may require additional site characterization to meet applicable regulatory requirements or to help value the property. (Note: The GC/Army proponent is responsible for initiating the ECP Report.)

(1) An ECP Report will normally result in a conclusion regarding the advisability of the transaction and forms the basis for Findings of Suitability, if applicable to the transaction. Environmental contamination and potential environmental liabilities associated with properties being considered for acquisition, lease, and disposal will be determined prior to completing the transaction. The ECP Report and, if applicable, the Findings of Suitability, are an integral part of the Report of Availability or the Disposal Report which form the basis for the Army official with delegated authority to approve the real property transaction and for USACE to prepare the required legal documents, land use controls and covenants. (Note: Findings of Suitability are required for BRAC disposals, both transfers and leases, but are not required for active installation leases.) (LD: 42 USC 9620(h))

(2) Content of the ECP Report depends upon the nature of the transaction and the proposed transferee/lessee. Transfers or leases between the Army and non-federal entities will require at a minimum, a Phase I ECP Report. Where conditions indicate uncertainty regarding the condition of property, a Phase II ECP Report is also required.

(3) The ECP Report will comply with applicable American Society for Testing and Materials ("ASTM") Standards, such as ASTM E1527, E1903, and D6008 and will be consistent with the DOD Base Redevelopment and Realignment Manual (BRRM) for BRAC actions.

(4) An ECP Report is optional for reassignments within the Army and between Army and another DOD component depending on whether the HQDA approval authority deems it necessary. Those reassignments without an ECP Report should have a statement describing the environmental condition with the package forwarded to HQDA for approval. (PD)

(5) For non-BRAC actions, the ECP report will be attached to the environmental section of the Report of Availability or Disposal Report (AR 405–80 and AR 405–90) that is submitted to the Army decision-making official.

(6) Fee acquisitions and fee acquisition by State Guard components for land that will be provided for federally funded construction require an ECP Report to comply with EPA's "All Appropriate Inquiry" rules under CERCLA prior to obtaining title to the real property so as to preserve defenses to CERCLA liability as an innocent land owner, bona fide prospective purchaser, or contiguous property owner and to reduce risk to Army and ensure that Army pays appropriate consideration for the property. The Army component will perform due diligence in determining the environmental condition of the property using applicable Environmental Protection Agency guidelines and applicable American Society for Testing and Materials ("ASTM") Standards on real property acquisition (ASTM E 1527). (LD: 42 USC 9620)

(7) The activity initiating the property transfer or lease will include the ECP Report with the Disposal Report or Report of Availability for the transaction.

d. Active installation leases and non-lease outgrants (easements, license, permit):

(1) The environmental section of the Report of Availability (ROA) (AR 405–80) will be used to document the environmental condition of the property being leased by active installations. There is no requirement to prepare a FOSL. The non-BRAC ECP included with the ROA will include, as an appendix, the appropriate environmental protection provisions necessary for continued human health and environmental protection.

(2) The GC (or equivalent) or the NGB having accountability for the real property at the installation may determine that the environmental section of the ROA alone may be sufficient to document environmental requirements for permits, licenses, easements, and similar real estate actions where environmental concerns are very minor. Under these circumstances an ECP report would not be required.

(3) An ECP report will be done as an exception to this section when licenses are issued to state National Guard components; when hazardous materials will be stored for one year or more or disposed on Army property except when authorized by 10 USC 2692 (as amended); and where the authorized use of Army lands and facilities poses a hazard to human health or the environment. Leasing space to others for trailer sites or automatic teller machines (ATMs) does not require an ECP Report except where extraordinary circumstances exist.

e. The GC (or equivalent) is responsible for determining the appropriate ECP category (ASTM D5746) for a property being transferred based on the results of the ECP Report and actions taken to address contamination. (PD)

f. For real property transactions initiated by non-Army parties: (PD)

(1) The party initiating the transaction is responsible for funding and completing the ECP Report.

(2) The GC/Army proponent should approve the ECP Report.

(3) The Army may prepare the ECP Report, even though others initiated the transaction, if it has demonstrable benefit to the Army.

g. For non-BRAC transfers when GSA is the disposal agent, Army prepares the ECP Report. However, disposal by GSA is not considered a transfer of jurisdiction to GSA. The level of detail for the ECP Report will be coordinated with GSA. (PD)

h. Findings of Suitability are listed below:

(1) The Finding of Suitability to Transfer (FOST) / Finding of Suitability for Early Transfer (FOSET)/or BRAC Finding of Suitability to Lease (FOSL) will certify that the property is compatible with the proposed use and that the use restrictions or remedies in place (if any) are protective of human health and the environment. (PD)

(2) Deeds divesting title or leases executed under BRAC or other special legislative authority will proceed only after a FOST/FOSET/FOSL.

(3) A FOSET is required when transferring title to property pursuant to the provisions of CERCLA 120(h)(3)(c) (early transfer authority), when remedial action has not been completed prior to transfer. (LD: CERCLA 120(h)(3)(c)) (PD)

(4) A FOST is not required for deeds divesting title when disposed by the General Services Administration (GSA).

(5) Responsibility for environmental remediation for transfers or interchanges between the Army and other federal entities will be addressed in the Memorandum of Agreement between the Army and the transferee. The Army requires an ECP Report which will be initiated per paragraph f. above and provided to the transferee.

(6) The BRAC FOST/FOSET/FOSLs will be coordinated with regulators and made available to the public for their review. (PD)

i. Review and approval authorities are listed below:

(1) The IMCOM, Army commands or service component commands and direct reporting units with special installations, or Army National Guard (NGB–ARNG) will review and approve ECP Reports in coordination with the affected organizations. (PD)

(2) Approval authorities for ECP Report, FOST, FOSET, and BRAC FOSL documents for property disposals are in table 15–1 below. (PD)

(3) The Deputy Assistant Secretary of the Army (Environment, Safety, and Occupational Health) (DASA (ESOH)) will—

(a) Recommend approval for fee acquisition of property with an ECP Category designation of 5 or above or with known or suspected munitions and explosives of concern (MEC);

(b) Recommend approval for proceeding with the transfer to non-DOD federal agencies for properties with known or suspected MEC;

(c) Approve the FOSTs/BRAC FOSLs and approve the ECP report for non-BRAC leases for properties with known or suspected munitions and explosives of concern (MEC); and

(d) Approve all FOSETs

(4) The approving official will ensure that the document(s) receive appropriate legal and environmental professional review prior to approving the document(s).

j. Real property transactions require preparation of appropriate National Environmental Policy Act (NEPA) documentation per 32 CFR Part 651. (LD: 32 CFR 651)

k. Lease Termination. Upon termination of any lease, the Army proponent and lessee may jointly conduct a final lease close out using the ECP Report funded by the lessee to ascertain any changes in the environmental condition of the subject property. If the lessee refuses to participate, the GC/Army proponent will conduct the final assessment at the lessee's expense and provide a copy to the grantee. If an environmentally significant change has occurred, it will be documented as an amendment to the ECP Report, or a previous environmental site assessment report, if one was done, and the lessee will be required to make suitable compensation. The lessee will be made aware of these requirements and procedures in the original lease document. (PD)

l. Lease Renewals. ECP requirements must be met before renewing existing leases. If the lease did not have an environmental site assessment performed originally, an ECP must be done prior to renewal. For renewal of existing leases that have previously had an ECP, or other versions of site assessment documents, the GC/Army proponent must ascertain if environmental conditions have changed. If an environmentally significant change has occurred, it will be documented as a supplement or amendment to the original assessment report. An environmentally significant change involves the storage of a hazardous substance for a year or more, a known release of such substance, or its disposal on the property. The revised report will be processed in accordance with paragraph 15–5c above. A copy of the ECP report and/or any supplements or amendments will be provided to the grantee. (PD)

m. See also Leases, Easements, and Other Special Land Uses, paragraph 4–3d(2) and Conservation Reimbursable Agricultural/Grazing Outleasing and Forestry Programs, paragraph 4–3d(8).

n. Table 15–2 summarizes the documents required for the various types of real property acquisition, leases, and disposal transactions.

Table 15–1
Property disposal approval authorities[1, 3]

	PROGRAM		
DOCUMENT	**ACTIVE**	**LEGACY BRAC**	**BRAC 05**
ECP Category Designation[2]	Garrison Commander	Garrison Commander	Garrison Commander
ECP Report	IMCOM[4]	BRAC D	IMCOM[4]
FOST[5]	ECP 1–4: IMCOM[4]	ECP 1–4: BRAC D[4]	ECP 1–4: IMCOM[4]
	ECP 5–7: N/A	ECP 5–7: N/A	ECP 5–7: N/A
FOSET[5]	ECP 5–7: DASA (ESOH)	ECP 5–7: DASA (ESOH)	ECP 5–7: DASA (ESOH)
FOSL	Not Required	ECP 1–7: BRAC D[4]	ECP 1–7: IMCOM[4]

Notes:
[1] The approving official will ensure that the document(s) receive appropriate legal and environmental professional review prior to approving the document(s).
[2] DOD ECP Designation (ASTM D5746).
[3] Transactions with known or suspected MEC require DASA (ESOH) approval.
[4] Army commands or service component commands and direct supporting units with special installations and NGB exercise this authority for their installations. Approval authority may delegate ECP 1–2 to installations.
[5] Documents are not required for GSA transfers; refer to AR 405–90.

Table 15–2
Documents required

DOCUMENT	**ECP Report[5]**	**FINDING OF SUITABILITY**
ACQUISITION		
Fee title for USA	Yes	No
Less than Fee (easement, permit, license)	No	No
Inlease[1]	No	No
DISPOSAL DOCUMENTS		
Deed divesting title from USA	Yes	FOST/FOSET
Report as Excess to GSA[2]	Yes	No
Transfer to another Fed Agency	Yes	No
Reassignment within DA or DOD[3]	Optional	No
Release or termination of less than fee estate[4]	No	No
OUTGRANTS		
Lease Documents	Yes	No, use ROA to document
Other outgrants (license, easement, permit)	No, use ROA to document	No, use ROA to document
License to NGB	Yes	No

Notes:
[1] Type of less than fee; however, an ECP may be done for large, long-term leases.
[2] Reporting as Excess to GSA is not a transfer or reassignment to GSA.
[3] Within DoD elements, doing an ECP Report is optional for those reassignments requiring HQDA approval (see para 15–5(c)(4) above). The Army proponent will consult the HQDA activity requiring approval prior to initiating a Report of Availability without an ECP Report.
[4] Release, Affidavit, or other non-deed document – if a deed is required, then follow deed policy.
[5] The ECP Report will be forwarded with the ROA or Disposal Report.

15–6. Military construction and Morale, Welfare, and Recreation Construction on Army installations

Military Construction (MILCON) includes major and minor construction projects funded by Military Construction, Army (MCA); Military Construction, Army Reserve (MCAR); Military Construction, National Guard (MCNG); Army Family Housing (AFH); Defense MILCON; and Tenant Service MILCON. For specific guidance for MILCON planning and environmental/safety remediation see AR 415–15, and AR 210–20. Morale, Welfare, and Recreation (MWR) construction includes Army appropriated fund (APF) and non-appropriated fund (NAF) construction depending on the type of facility (see AR 215–1).

a. Pre-construction site selection. Preparation of environmental documentation and site survey is considered advance planning and will be funded from other than MILCON or NAF. The project proponent at the installation is responsible for funding and executing the environmental survey, unexploded ordnance survey, and associated documentation of a proposed MILCON/MWR construction site before site selection. Installations will coordinate site selection activities with the supporting IMCOM Regional Office.

(1) When selecting a proposed site, the installation should consider locations that avoid unnecessary environmental remediation and/or mitigation costs. However, installations should consider using all existing infrastructure wisely, to include locations that may require some degree of remediation and/or mitigation. A final determination should be based on sound economic and relative risk analysis.

(2) If a proposed project must be sited in a known environmentally sensitive area where an Army cleanup program has already cleaned to current or reasonably anticipated future land use, the cost of design and construction of mitigation measures required as a direct result of MILCON or NAF projects may be paid from MILCON funds if included in the cost estimate and description of work on the DD Form 1391, FY_ Military Construction Project Data. AR 415–15 and DA Pam 415–15 provide detailed guidance for completing DD Form 1391 for MILCON and NAF.

(3) Non-Army tenants on Army installations are responsible for funding environmental surveys and associated documentation of proposed MILCON or NAF construction sites where they are the user.

b. Site categorization. The IMCOM/ACOM/ASCC/DRU/NGB–ARNG is responsible for certifying the site categorization. Sites are classified into the three following categories.

(1) Category I - There is no reason to expect contamination will be encountered during the construction.

(2) Category II - There is no known contamination, there remains some potential that contamination may be encountered during construction.

(3) Category III - The site is known to be contaminated or there is strong suspicion contamination will be encountered during construction.

c. Site clearance standards. Site categorizations will be completed in accordance with:

(1) ASTM D6008–96: Standard Practice for Conducting Environmental Baseline Surveys.

(2) ASTM E1527–00: Environmental Site Assessments: Phase I Site Assessment Process.

(3) ASTM E1903–97: Environmental Site Assessments: Phase II Site Assessment Process.

d. Discovered contamination. The installation or MILCON proponent is responsible for the remediation/cleanup of environmental contaminants discovered during the execution of a MILCON or NAF construction project.

(1) If removal of discovered contamination adequately addresses the environmental condition of the property for construction and a decision of no further action is secured by the installation, the project should proceed.

(2) If initial response activities are not adequate and additional remediation/cleanup is required, the project proponent is responsible for identifying the environmental requirements and securing funds.

(3) Construction contractor costs (such as direct delays costs and unabsorbed or extended overhead) incidental to discovery, remediation and cleanup, however, will be MILCON funded or APF or NAF funded as appropriate for MWR projects to the extent it is determined that the Army is responsible and liable for such costs.

15–7. National security emergencies and exemptions/waivers

a. In conducting their mission, GCs should anticipate and allow for mission surge conditions that could result during times of national security emergencies, including but not limited to contingency operations, suppression of insurrection, humanitarian and civic assistance, peace-keeping activities, and disaster relief. In cases where mission surge conditions could potentially exceed permit limitations or other environmental requirements, the GC should request an exemption in accordance with this section.

b. In evaluating possible courses of action, the GC will consult with legal counsel and determine the appropriateness of seeking an environmental exemption or waiver.

c. In national security emergencies, the requirements of this regulation remain in effect unless waived by the ACSIM.

d. If a GC anticipates that surge conditions could result in a violation of Federal or State environmental law or regulation, as soon as practicable, the GC should consult with the appropriate Federal, State, or local authorities on a mutually agreeable course of action. If a satisfactory resolution cannot be agreed upon, the GC will submit a request for a national security exemption to HQDA, DAIM–ED through the chain of command. The request must include:

(1) Identification of the action prompting need for exemption;

(2) The statute(s) from which an exemption is sought;

(3) The applicable statutory exemption provision(s);

(4) Adequate supporting information and justification for the exemption; and

(5) Alternatives considered and the reasons they were not adopted.

e. ACSIM will coordinate with other Army staff (ARSTAF) elements and will forward the request with a recommendation to the Assistant Secretary of the Army (Installations and Environment) (ASA (I&E)), who may transmit the request to the Office of the Secretary of Defense (OSD) for disposition.

f. In the event an exemption is denied or cannot be granted in a timely manner, the ACSIM will provide specific guidance on the resolution of the conflicts identified in the request.

15–8. Army Environmental Program in Foreign Countries

a. Policy. This section clarifies environmental policy and requirements applicable to permanent installations or facilities located in foreign countries. This section does not apply to training, off-installation deployments, contingency operations, or those locations for which no DOD Environmental Executive Agent (EEA) has been designated.

(1) Army policy in foreign countries is to comply with applicable standards, criteria and regulations that preserve, protect, and enhance environmental quality and human health. These standards, criteria, and regulations include the country-specific FGS, DODI 4715.5, DODI 4715.8, EO 12088, and EO 12114.

(2) The FGS define the environmental standards for Army permanent installations in foreign countries. The FGS take precedence over requirements of this regulation unless otherwise specifically noted in this section. Army facilities in a foreign nation with no FGS will comply with DOD 4715.05–G and applicable international agreements.

(3) Only the designated DOD EEA can revise an FGS. In cases where it is necessary to comply with more protective criteria than the FGS prescribes, the GC must consult with the EEA.

(4) Waivers to an FGS may be granted only by the DOD-designated EEA or the Unified Command (combatant commanders) in accordance with the country-specific FGS and DOD designated EEA waiver policy.

(5) Hazardous waste (HW) that cannot be disposed of in accordance with the FGS will be returned to the United States or another location where the disposal criteria can be met. In addition to compliance standards for disposal, all Army organizations and activities will comply with the provisions of any applicable Status of Forces Agreement (SOFA) or other legally-binding international agreements respecting the shipping and storage of HW.

(6) An external Environmental Performance Assessment System (EPAS) assessment will be conducted at overseas installations in accordance with DODI 4715.5 and the country-specific FGS (generally this will be every 3 years).

(7) Environmental remediation at overseas installations is addressed in paragraph 12–4, and will be conducted in accordance with DODI 4715.8.

b. Program requirements. Program requirements for overseas activities are addressed throughout this regulation. Additionally:

(1) Army ACOMs, ASCCs, DRUs, IMCOM, and installations will comply with the provisions of DODI 4715.5, DODI 4715.8, and appropriate country-specific implementing guidance per the DOD designated EEA.

(2) GCs will consider the adverse impacts of installation activities on a property listed on the World Heritage List, European Union natural conservation site of importance, or a host nation's (HN) equivalent of the U.S. National Register of Historic Places (NRHP). Reasonable effort will be made to avoid or mitigate any adverse effects.

(3) GCs will consider the adverse impacts of installation activities on internationally protected animal and plant species and their habitat, to include flora and fauna in a HN's equivalent of the Endangered Species Act (16 USC 35 (ESA)). Reasonable effort will be made to avoid or minimize adverse effects on such resources.

(4) Army components (that is, Active, Reserve, ARNG) participating in joint operations will comply with the environmental annex as specified by combatant command plans (for example, an annex L to the operation plan (OPLAN)).

(5) Army commanders will report overseas violations through command channels to DAIM–ED, with a courtesy copy to JALS–EL.

15–9. Environmental Management System documentation and document control

a. Installations will establish and maintain information in paper or electronic form to describe the core elements of the management system and their interaction, and provide direction to related documentation.

b. Installations will establish and maintain procedures for controlling all documents required by the ISO 14001 standard to ensure that: they can be located; they are periodically reviewed, revised as necessary, and approved for adequacy by authorized personnel; the current versions of relevant documents are available at all locations where operations essential to the effective functioning of the EMS are performed; obsolete documents are promptly removed from all points of issue and points of use, or otherwise assured against unintended use; and any obsolete documents retained for legal and/or knowledge preservation purposes are suitably identified.

c. Documentation will be legible, dated (with dates of revision), and readily identifiable, maintained in an orderly

manner and retained for a specific period. Procedures and responsibilities will be established and maintained concerning the creation and modification of the various types of documents.

Chapter 16
Checking and Corrective Action

16–1. Environmental performance assessments and Environmental Management System audits

a. General.

(1) Garrison commanders (GCs) should maintain an inventory of compliance sites and activities with potential to impact the environment.

(2) Audits conducted under the Environmental Performance Assessment System (EPAS) will include all operations and activities within the installation boundary (including operational ranges, and other training areas), or a representative sample of similar activity types, and will evaluate overall environmental program performance and conformance with ISO 14001.

(3) Assessments will include tenant activities, outgrants, leases, and other activities under the purview of the Army.

(4) Generally, assessments will not include privatized facilities. However, special circumstances related to facility and/or associated land lease or ownership status could warrant their inclusion. Accordingly, installations will report the status of their privatized facilities to the U.S. Army Environmental Command (USAEC) EPAS Program Manager as soon as possible after being notified of a scheduled EPAS audit so that a determination regarding inclusion/exclusion can be made.

b. External assessments.

(1) CONUS external performance assessments are scheduled based on risk analysis and in consultation with HQDA and appropriate commands. Outside the continental United States (OCONUS) external assessments are conducted every three years in accordance with DODI 4715.5.

(2) External assessments will be conducted using a team of independent assessors not associated with the installation and having the necessary organizational and subject matter expertise. This expertise will include the requisite environmental media and regulatory expertise as well as expertise in the functional mission areas that are the subject of the assessment.

(3) External assessments will be conducted using Headquarters, Department of the Army (HQDA) approved protocols. OCONUS, these protocols will be based on the country-specific final governing standards (FGS).

(4) Individuals performing external assessments will provide required assessment data into the Army approved application/database (AEDB–EPAS) to assist in producing the draft and final Environmental Performance Assessment Report (EPAR) and the draft installation corrective action plan (ICAP).

(5) Army installations will prepare the draft ICAP, identify corrective actions, and secure resources for correction through the chain of command.

(6) Assessment results and ICAP will be made available to the Environmental Quality Control Committee (EQCC).

(7) Draft ICAP will be forwarded to affected units, Army Commands (ACOM), Army Service Component Commands (ASCC), Direct Reporting Units (DRU), and/or tenants for review.

c. Internal assessments.

(1) Internal assessments will be conducted annually, at a minimum, by installation personnel as part of their regular management, checking, and corrective action functions, unless an external assessment is conducted that calendar year.

(2) Army installations will provide required internal assessment data into the Army approved application/database (AEDB–EPAS) to assist in producing the draft ICAP.

(3) Internal assessments will include a review of previous assessments and draft ICAP, review corrective actions not completed, assess compliance with any new regulatory requirements, and address areas specified by higher command.

(4) Installations will notify their respective command when their internal assessment has been completed.

(5) Assessment results and ICAP will be made available to the Environmental Quality Control Committee (EQCC).

d. Installation Corrective Action Plan (ICAP).

(1) Each installation will prepare or revise a draft ICAP in accordance with Army requirements.

(2) The ICAP will track externally and internally reported compliance and program performance deficiencies.

(3) The ICAP will remain in draft.

e. Releasability. All draft assessment reports and supporting papers are internal working documents. The draft documents must be marked "for official use only" (FOUO) and distribution will be handled accordingly. All requests for release of reports will be referred to the appropriate installation Freedom of Information Act (FOIA) Officer.

f. Environmental Performance Assessment System (EPAS) in-progress review (IPR). The Director of Environmental

Programs (DEP) may convene an IPR as necessary to review the performance of the program and to identify and resolve issues.

16–2. Monitoring and measurement

a. Installation Management Command (IMCOM), National Guard Bureau-Army National Guard (NGB–ARNG), Army Commands (ACOMs), Army Service Component Commands (ASCCs), Direct Reporting Units (DRUs), installations, and tenants will establish and maintain documented procedures to monitor and measure, on a regular basis, the key characteristics of those operations and activities that can have an impact on the environment. This will include the recording of information to track performance, relevant operational controls, and conformance with the organization's environmental objectives and targets.

b. Monitoring equipment will be calibrated and maintained and records of this process will be retained according to installation standard operating procedures.

16–3. Army environmental information and reporting

a. Army Environmental Information Policy. Army environmental information is an asset that will be managed as part of the Army I&E information technology (IT) portfolio management. Environmental information investments will meet the Chief Information Officer (CIO)/Deputy Chief of Staff, G–6 (DCS, G–6) Army Knowledge Management (AKM) goals, adhere to the I&E IT domain governance process, and be incorporated into the Office of the Assistant Chief of Staff for Installation Management (OACSIM) Business Enterprise Architecture (BEA) strategy and plan.

b. Program goal. Army environmental information will facilitate planning, execution, monitoring, and reporting of programs at all activity levels in support of the Army mission. Environmental information and information tools will be built in standardized formats and incorporated into the Army enterprise architecture.

c. Coordination requirements. Army environmental reporting systems will be coordinated with the OACSIM Business Transformation Board of Directors (BT BOD).

(1) The DEP represents functional environmental information requirements at the BT BOD.

(2) USAEC represents technical environmental information requirements at the BT BOD.

(3) Environmental reporting systems will be executed in accordance with the OACSIM BEA Strategy and plan.

d. Primary Systems. The following are the Army's primary systems for data collection and reporting:

(1) *Army Environmental Data Base - Environmental Quality (AEDB–EQ).* The AEDB–EQ serves as a primary source of information for reporting the Army's environmental status to Senior Army Leadership, DOD, and Congress. AEDB–EQ tracks Army compliance with environmental laws (to include permits and enforcement actions) and regulations to determine Army progress towards meeting the DOD Measures of Merit (MOMs), and allows the Army to populate other required reports.

(2) *Environmental Restoration Information System (ERIS).* ERIS and ERIS Range document the Army environmental restoration and range program field data to support a central repository for Army installation chemical, geological, and remedial action data.

(3) *Army Environmental Data Base-Restoration (AEDB–R).* This is the database of record for collecting and reporting data for sites being cleaned up under the purview of Environmental Restoration, Army (ER, A) or Base Closure Account (BCA).

(4) *Army Environmental Data Base-Compliance-Related Cleanup (AEDB–CC).* This is the database of record that identifies and documents requirements for the cleanup of contamination at Army sites that are not eligible for the Defense Environmental Restoration Program (DERP).

(5) *Reimbursable Programs Tracking System (RPTS).* RPTS stores data used to report the financial elements of the agricultural grazing, reimbursable forestry, hunting, fishing and trapping fees, the DOD Forestry Reserve Account, and the Army Wildland Fire programs.

(6) *Army Environmental Data Base - Environmental Performance Assessment System (AEDB–EPAS).* The AEDB–EPAS serves as a primary source of information for reporting, collecting, tracking, and analyzing the Army's environmental compliance and conformance data from external and internal audits.

(7) *Installation Status Report, Natural Infrastructure.* The ISR–NI collects and reports on the readiness of Army installations. The information is collected annually based upon 18 media within the Army Environmental Program (AEP).

(8) *Toxic release inventory (TRI).* Installations meeting established threshold criteria are to submit an annual TRI report as required by the *Emergency Planning and Community Right-to-Know Act* (EPCRA) and Executive Order (EO) 13423.

(9) *Solid Waste Annual Reporting-Web (SWARWeb) System.* SWARWeb is a web-based system to support integrated solid waste management at the installation level. It allows the tracking of solid waste and construction and deconstruction debris waste generation and costs as well as waste diversion through recycling and reuse.

(10) *Hazardous Substance Management System (HSMS).* HSMS is an installation centric client-server software

system to support the integrated management of hazardous materials. It is capable of tracking the authorized ordering, issue and return of hazardous material as well as the disposal of hazardous waste (HW).

16–4. Reporting violations

a. Installation Commanders will enter enforcement actions (ENF) using official electronic Army Environmental Quality Reporting System ((for example, Army Environmental Data Base - Environmental Quality (AEDB–EQ)) reporting mechanisms with verification/confirmation through proper Command channels (for example, ACCS, DRUs, MSCs, regional offices, ACOMS) to the AEC. Initial reports for ENFs must be reported in accordance with current Army environmental quality reporting policy requirements as published and updated by the HQDA. Initial reports will be entered via the Army Environmental Quality Reporting System within 48 hours (2 business days) for any ENF involving:

(1) Criminal enforcement;

(2) A fine, penalty, fee, or tax;

(3) Installation-wide (show stopper or major mission restriction), Army-wide, or DOD-wide impact, media attention, or community (on/off post) impact; or,

(4) Third party fault (that is, a non-Army entity is responsible in whole or part for the alleged violation(s)).

b. All other ENFs will be reported/entered into the AEDB–EQ within 7 business days through proper Command channels.

c. The aforementioned 48 hours (2 business days) reporting includes notification to HQDA (DAIM–ED (ODEP) & JALS–ELD (Army Legal Office) through proper Command channels. Additionally, coordinate with JALS–ELD (Army Legal Office) in writing, through technical legal channels, regarding litigation, administrative proceedings, and settlement negotiations.

16–5. Nonconformance and corrective and preventive action

a. All Army facilities identified by HQDA for environmental management system (EMS) implementation will accomplish the following in accordance with the ISO 14001 standard:

(1) Establish and maintain procedures for defining responsibility and authority for handling and investigating nonconformance with the facility's EMS requirements and procedures.

(2) Implement and record any changes in the documented procedures resulting from corrective and preventive action.

b. Any corrective or preventive action taken to eliminate the causes of actual or potential nonconformance will be appropriate to the magnitude of problems and commensurate with the environmental impact encountered, if any.

16–6. Environmental records

a. General.

(1) IMCOM, NGB–ARNG, ACOMs, ASCCs, DRUs, installations, and tenants will establish and maintain procedures for identification, maintenance, and disposition of environmental records, to include training records and the results of audits and reviews.

(2) Environmental records will be legible, identifiable and traceable to the activity, product, or service involved, and will contain the name and office symbol of the point of contact for that record.

(3) Environmental records will be stored and maintained (in hard copy or electronic format) in such a way that they are readily retrievable and protected against damage, deterioration, or loss.

b. Recordkeeping guidelines. Environmental records will be maintained, as appropriate, to demonstrate conformance to ISO 14001, and requirements set forth in AR 25–400–2.

c. Environmental cleanup documents. All installations and facilities will provide copies of environmental cleanup documents to the electronic permanent repository at USAEC. Environmental cleanup documents that should be submitted are detailed in the Army Environmental Cleanup Program Permanent Document Repository Guidance, which was issued 29 Sep 2004. Copies of the guidance are available from the USAEC Cleanup Division.

Chapter 17
Management Review

17–1. Environmental Management System management reviews

a. Installations will establish written procedures for conducting recurring management reviews of their environmental management system (EMS).

b. At least annually, Garrison commanders (in conjunction with the Environmental Quality Control Committee (EQCC) or equivalent) of all appropriate facilities will conduct a management review of their respective environmental management system (EMS) to ensure its continuing suitability, adequacy, and effectiveness.

c. The management review process will ensure that the necessary information is collected to allow management to carry out this evaluation.

d. The management review, which will be documented, will address the possible need for changes to policy, objectives, and other elements of the EMS in light of EMS audit results, changing circumstances, and the commitment to continual improvement.

17–2. Headquarters, Department of the Army environmental program reviews

HQDA will conduct periodic program reviews to ensure adequate oversight, program effectiveness, and proper resource allocation and execution.

Appendix A
References

DOD Directives are available at www.dtic.mil/whs/directives. United States Codes (USC) are available at www.gpoaccess.gov/uscode/. Executive Orders are available at www.archieves.gov/federal_register/executive_orders/disposition_tables.html. Code of Federal Regulations (CFR) are available at www.gpoaccess.gov/cfr/index.html.

Section I
Required Publications

AR 11–2
Management Control. (Cited in para 1–4.)

AR 25–400–2
Army Records Information Management System (ARIMS). (Cited in para 16–6.)

AR 40–5
Preventive Medicine. (Cited in paras 1–25, 4–2, 5–2, 9–2.)

AR 50–6
Chemical Surety. (Cited in para 11–2.)

AR 70–1
Army Acquisition Policy. (Cited in paras 7–2 , 7–4.)

AR 75–15
Policy for Explosive Ordnance Disposal (O). (Cited in para 11–4.)

AR 95–1
Flight Regulations. (Cited in para 14–2.)

AR 210–20
Real Property Master Planning for Army Installations. (Cited in paras 14–2, 15–6.)

AR 210–50
Housing Management. (Cited in para 5–2.)

AR 350–19
The Army Sustainable Range Program. (Cited in para 14–2.)

AR 385–10
The Army Safety Program. (Cited in para 5–2.)

AR 405–10
Acquisition of Real Property and Interests Therein. (Cited in para 15–5.)

AR 405–80
Management of Title and Granting Use of Real Property. (Cited in paras 4–3, 15–5.)

AR 405–90
Disposal of Real Estate. (Cited in paras 4–3, 15–5.)

AR 415–15
Army Military Construction and Nonappropriated Fund Construction Program Development and Execution. (Cited in paras 10–2, 15–6.)

AR 420–10
Management of Installation Directorates of Public Works. (Cited in para 5–2.)

AR 420–49
Utility Services. (Cited in paras 4–2, 10–2.)

AR 420–70
Buildings and Structures. (Cited in para 9–2.)

AR 700–136
Tactical Land–Based Water Resources Management. (Cited in para 4–2.)

AR 710–2
Supply Policy Below the National Level. (Cited in paras 1–10, 10–1.)

U.S. Army EMS Aspects and Impact Methodology for Army Training Ranges
Implementation Guidance. (Cited in para 1–1.) (Available at www.sustainability.army.mil.)

U.S. Army EMS Commanders Guide
Implementation Guidance. (Cited in para 1–1.) (Available at www.sustainability.army.mil.)

U.S. Army EMS Implementer’s Guide
Implementation Guidance. (Cited in para 1–1.) (Available at www.sustainability.army.mil.)

Army Strategy for the Environment
Brochure, 1 Nov 04. (Cited in para 2–1.) (Available at www.asaie.army.mil.)

ASTM D6008–96 (2005)
Standard Practice for Conducting Environmental Baseline Surveys. (Cited in para 15–6.) (Available for ordering at www.webstore.ansi.org.)

ASTM E1527–00
Standard Practice Environmental Site Assessments: Phase I Environment Site Assessment Process. (Cited in para 15–6.) (Available for ordering at www.webstore.ansi.org.)

ASTM E1903–97 (2002)
Standard Guide for Environmental Site Assessments: Phase II Environment Site Assessment Process. (Cited in para 15–6.) (Available for ordering at www.webstore.ansi.org.)

DA PAM 40–11
Preventive Medicine. (Cited in para 10–2.)

DA PAM 415–15
Army Military Construction Program Development and Execution. (Cited in para 15–6.)

DFAS–IN Manual 37–100–**
Financial Management - The Army Management Structure FY04. (Cited in para 4–3.) (Available at www.asafm.army.mil.)

DOD American Indian and Alaska Native Policy Memorandum
Policy Document, 20 Oct 1998. (Cited in para 6–2.) (Available at www.denix.osd.mil.)

DOD Management Guidance for the Defense Environmental Restoration Program (DERP)
Guidance Document, September 2001. (Cited in para 12–2.) (Available at www.denix.osd.mil.)

DOD 4150.7–M
DOD Pest Management Training and Certification. (Cited in paras 5–2, 5–4.)

DOD 4150.7–P
DOD Plan for the Certification of Pesticide Applicators. (Cited in paras 5–2, 5–4.)

DOD 4160.21–M
Defense Material Disposition Manual. (Cited in para 10–1.)

DOD 4500.9–R
Defense Transportation Regulation. (Cited in para 10–1.)

DOD 4715.5–G
Overseas Environmental Baseline Guidance Document. (Cited in para 15–8.)

DOD 7000.14–R
DOD Financial Management Regulation (FMRS). (Cited in para 12–2.)

DODD 4715.1
Environmental Security. (Cited in para 4–3.)

DODD 4715.11
Environmental and Explosives Safety Management on Operational Ranges Within the United States. (Cited in paras 8–2, 12–4.)

DODD 4715.12
Environmental and Explosives Safety Management on Operational Ranges Outside the United States. (Cited in para 8–2.)

DODD 5000.1
The Defense Acquisition System. (Cited in paras 1–7, 3–3.)

DODI 4150.7
DOD Pest Management Program. (Cited in paras 4–3, 5–2, 5–4.)

DODI 4715.3
Environmental Conservation Program. (Cited in para 4–3.)

DODI 4715.4
Pollution Prevention, Jun 1996. (Cited in para 7–2.)

DODI 4715.5
Management of Environmental Compliance at Overseas Installations. (Cited in paras 4–3, 5–2, 15–8, 16–1.)

DODI 4715.7
Environmental Restoration Program. (Cited in para 12–2.)

DODI 4715.8
Environmental Remediation for DOD Activities Overseas. (Cited in paras 12–2, 12–4, 15–8.)

EO 11988
Floodplain Management, 42 FR 26951 (Cited in para 4–2.)

EO 11990
Protection of Wetlands. (Cited in paras 4–2, 4–3.)

EO 12580
Superfund Implementation, 52 FR 2923. (Cited in paras 12–2, 12–4.)

EO 13007
Indian Sacred Sites, 61 FR 26771. (Cited in para 6–4.)

EO 13112
Invasive Species (Cited in para 4–3.)

EO 13175
Consultation and Coordination with Indian Tribal Governments, 65 FR 67249. (Cited in paras 6–2, 6–4.)

EO 13186
Responsibilities of Federal Agencies to Protect Migratory Birds, 66 FR 3853. (Cited in para 4–3.)

EO 13287
Preserve America. (Cited in paras 1–5, 6–2, 6–4.)

EO 13423
Strengthening Federal Environmental, Energy, and Transportation Management. (Cited in paras 4–3, 7–2, 7–4, 9–1, 10–2, 16–3, B–2.)

ER 200–3–1
Formerly Used Defense Sites Program Policy. (Cited in paras 12–2, 12–4.)

Field Manual (FM) 3–100.4
Environmental Considerations in Military Operations. (Cited in para 1–28.)

ISO 14001 (also known as ANSI/ISO 14001–2004)
Environmental Management System Requirements - Specifications with Guidance for Use (Cited in paras 1–1, 1–13, 1–24, 15–9, 16–1, 16–5, 16–6.) (Available for ordering at www.webstore.ansi.org.)

Memorandum, DUSD (I&E), 10 October 2002
Implementation of Sikes Act Improvement Act: Updated Guidance. (Cited in para 4–3.) (Available at www.aec.army.mil/usaec/natural.)

PL 108–136
National Defense Authorization Act FY04. (Cited in para 4–3.)

PL 109–58
Energy Policy Act of 2005 (Cited in paras 4–2, 11–2.)

TB MED 575
Swimming Pools and Bathing Facilities. (Cited in para 4–2.)

TB MED 576
Occupational and Environmental Health: Sanitary Control and Surveillance of Water Supplies at Fixed Installations. (Cited in para 4–2.)

TB MED 577
Occupational and Environmental Health: Sanitary Control and Surveillance of Field Water Supplies. (Cited in para 4–2.)

TB 55–1900–206–14
Control and Abatement of Pollution by Army Watercraft. (Cited in para 4–2.)

TM 5–662
Swimming Pool Operation and Maintenance. (Cited in para 4–2.)

TM 5–813–1
Water Supply: Sources and General Considerations. (Cited in para 4–2.) (Available at www.usace.army.mil.)

TM 5–813–3
Water Supply: Water Treatment. (Cited in para 4–2.) (Available at www.usace.army.mil.)

TM 5–813–4
Water Supply: Water Storage. (Cited in para 4–2.) (Available at www.usace.army.mil.)

TM 5–813–5
Water Supply: Water Distribution. (Cited in para 4–2.) (Available at www.usace.army.mil.)

TM 5–813–7
Water Supply: Special Projects, Volume 7. (Cited in para 4–2.) (Available at www.usace.army.mil.)

TM 5–813–8
Water Supply: Water Desalination. (Cited in para 4–2.) (Available at www.usace.army.mil.)

TM 5–813–9
Water Supply: Pumping Stations. (Cited in para 4–2.) (Available at www.usace.army.mil.)

UFC 3–230–02
Unified Facilities Criteria - Operation and Maintenance: Water Supply Systems. (Cited in para 4–2.) (Available at wbdg.org.ccb/.)

USACHPPM TG–179
Guide for Providing Safe Drinking Water at Army Installations. (Cited in para 4–2.) (Available at chppm–www.apgea.army.mil.)

5 USC 552
Freedom of Information Act, as amended (FOIA) (Cited in paras 1–8, 16–1.)

7 USC 136, et seq.
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended. (Cited in para 5–2.)

10 USC 2665
Sale of Certain Interest in Lands; Logs. (Cited in paras 1–24, 1–27, 4–3.)

10 USC 2667
Leases: Non-excess Property of Military Departments. (Cited in paras 1–24, 1–27, 4–3.)

10 USC 2671
Military Reservations and Facilities, Hunting, Fishing, and Trapping. (Cited in para 4–3.)

10 USC 2684a
Agreements to Limit Encroachment and other Constraints on Military Training, Testing, and Operations. (Cited in para 4–3.)

10 USC 2688
Utility Systems: Conveyance Authority. (Cited in para 15–5.)

10 USC 2694a
Conveyance of Surplus Real Property for natural resource conservation. (Cited in para 4–3.)

10 USC 2701, et seq.
Defense Environmental Restoration Program (DERP). (Cited in paras 12–2, 12–4.)

15 USC 2601, et seq.
Toxic Substances Control Act (TSCA), as amended. (Cited in paras 9–2, 11–2.)

15 USC 2651, et seq.
Asbestos Hazard Emergency Response Act (AHERA). (Cited in para 9–2.)

16 USC 31
Marine Mammal Protection Act. (Cited in para 4–3.)

16 USC 35
Endangered Species Act of 1973 (ESA). (Cited in paras 4–2, 4–3, 15–8.)

16 USC 431
Antiquities Act of 1906. (Cited in para 6–2.)

16 USC 432
Permits to examine ruins, excavations, and gathering of objects; regulations. (Cited in para 6–2.)

16 USC 433
American antiquities. (Cited in para 6–2.)

16 USC 469
Archeological and Historic Preservation Act of 1974 (AHPA), as amended. (Cited in paras 6–2, 6–4.)

16 USC 470
National Historic Preservation Act of 1966 (NHPA), as amended. (Cited in paras 1–5, 6–2, 6–4).)

16 USC 620–620j
Forest Resources Conservation and Shortage Relief Act of 1990. (Cited in para 4–3.) (Available at www.fws.gov.laws/ .)

16 USC 661–667e
Fish and Wildlife Coordination Act. (Cited in para 4–3.) (Available at www.fws.gov.laws/.)

16 USC 670a–670b
Sikes Act. (Cited in paras 1–24, 4–3.) (Available at www.fws.gov.laws/.)

16 USC 670a
Program for Conservation and Rehabilitation of Natural Resources on Military Installations. (Cited in para 4–3.)

16 USC 670b
Migratory Game Birds; Permits; Fees; Stamp Act and State Law Requirements (Sikes Act). (Cited in paras 1–24, 1–27.)

16 USC 670e
Applicability to Other Laws; National Forest Lands. (Cited in para 1–24.)

16 USC 701
Games and wild birds; preservation. (Cited in para 4–3.)

16 USC 703–712
Migratory Bird Treaty Act (MBTA). (Cited in para 4–3.)

16 USC 1801–1882
Magnuson Fishery Conservation and Management Act. (Cited in para 4–3.)

16 USC 3371–3378
Lacey Act (Cited in para 4–3.)

16 USC 4701–4751
Aquatic Nuisance Prevention and Control. (Cited in para 4–3.)

25 USC 32
Native American Graves Protection and Repatriation Act of 1990 (NAGPRA). (Cited in paras 1–24, 6–2, 6–4.)

29 CFR 1910.120
Occupational Safety and Health Standards, Hazardous Waste Operations and Emergency Response. (Cited in para 12–2.)

29 CFR 1910.1001
Occupational Safety and Health Standards, Asbestos. (Cited in para 9–2.)

29 CFR 1910.1025
Occupational Safety and Health Standards, Lead. (Cited in para 9–2.)

29 CFR 1910.1200
Occupational Safety and Health Standards, Hazard Communication. (Cited in para 9–2.)

29 CFR 1926.1101
Safety and Health Regulations for Constructions. (Cited in para 9–2.)

29 CFR 1926.62
Safety and Health Regulations for Construction, Lead. (Cited in para 9–2.)

32 CFR 190
Office of the Secretary of Defense (OSD), Natural Resources Management Program. (Cited in para 4–3.)

32 CFR 651
Environmental Analysis of Army Actions. (Cited in paras 1–1, 15–5.)

33 USC 26
Clean Water Act (CWA). (Cited in paras 4–2, 8–2, 9–1, 11–2, 11–4.)

33 USC 1401
Marine Protection, Research, and Sanctuaries Act of 1972 (MPRSA), as amended (Ocean Dumping). (Cited in para 4–2.)

33 USC 2702 to 2761
Oil Pollution Act of 1990 (OPA). (Cited in para 3–14.)

42 USC 300f
Safe Drinking Water Act (SDWA), as amended. (Cited in paras 4–2, 8–2, 12–2.)

42 USC 1996
American Indian Religious Freedom Act of 1978 (AIRFA). (Cited in paras 6–2, 6–4.)

42 USC 4321–4347
National Environmental Policy Act of 1969, as amended (NEPA). (Cited in paras 1–1, 4–2, 4–3, B–4.)

42 USC 6901
Resource Conservation and Recovery Act (RCRA), as amended. (Cited in paras 1–25, 4–1, 4–2, 7–2, 8–2, 8–4, 10–1, 10–2, 11–2, 12–2.)

42 USC 4901
Noise Control Act of 1972. (Cited in para 14–2.)

42 USC 6901–6992k
Hazardous and Solid Waste Amendments of 1984 (HSWA). (Cited in para 7–2.)

42 USC 6941–6949a
Subtitle D, the Resource Conservation and Recovery Act (RCRA). (Cited in para 10–2.)

42 USC 6961
Federal Facility Compliance Act of 1992. (Cited in paras 4–2, 10–1.)

42 USC 7401
Clean Air Act, as amended (CAA). (Cited in paras 4–1, 8–2, 9–2, 11–2.)

42 USC 9601
Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (CERCLA). (Cited in paras 4–2, 8–1, 11–2, 12–2, 12–4, 15–5.)

42 USC 11011
Emergency Planning and Community Right-to-Know Act (EPCRA). (Cited in paras 7–5, 9–1, 11–2.)

42 USC 13101–13102
Pollution Prevention Act of 1990 (PPA). (Cited in paras 7–2, 11–2.)

36 CFR 79
Curation of Federally-Owned and -Administered Archeological Collections. (Cited in paras 6–2, 6–4.)

36 CFR 800
Protection of Historic Properties. (Cited in paras 6–2, 6–4, 15–5.)

40 CFR 61
National Emission Standards for Hazardous Air Pollutants (NESHAP). (Cited in paras 4–1, 9–2.)

40 CFR 112
Oil Pollution Prevention. (Cited in paras 11–2, 11–4.)

40 CFR 260–279
Hazardous Waste. (Cited in para 10–1.)

40 CFR 261
Identification and Listing of Hazardous Waste. (Cited in para 10–2.)

40 CFR 266.200–206
EPA's Military Munitions Rule. (Cited in para 8–2.)

40 CFR 280
Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks. (Cited in para 11–2.)

40 CFR 281
Approval of State Underground Storage Tank Programs. (Cited in para 11–2.)

40 CFR 300
National Oil and Hazardous Substances Pollution Contingency Plan. (Cited in paras 11–2, 11–4, 12–2.)

40 CFR 302
Designation, Reportable Quantities, and Notification. (Cited in para 11–4.)

40 CFR 403
General Pretreatment Regulations for Existing and New Sources of Pollution. (Cited in para 4–2.)

40 CFR 745
Lead-based Paint Poisoning Prevention in Certain Residential Structures. (Cited in para 9–2.)

43 CFR 5
Making Pictures, Television Productions or Sound Tracks on Certain Areas Under the Jurisdiction of the Department of the Interior (Cited in para 6–4.)

43 CFR 6
Patent Regulations - Table of Contents (Cited in para 6–4.)

43 CFR 7
Protection of Archeological Resources (Cited in para 6–4.)

43 CFR 10
Native American Graves Protection and Repatriation Regulations. (Cited in paras 6–2, 6–4.)

43 CFR 10.3
Native American Graves Protection and Repatriation Regulations - International Archeological Excavations. (Cited in para 6–4.)

43 CFR 10.5
Native American Graves Protection and Repatriation Regulations - Consultation. (Cited in para 6–4.)

49 USC 1801
Federal Hazardous Materials Transportation Law. (Cited in para 9–2.)

50 CFR 10–16
Taking, Possession, Transportation, Sale, Purchase, and Barter, Exportation and Importation of Wildlife and Plants. (Cited in para 4–3.)

50 CFR 13
US Fish and Wildlife Service (USFWS) General Permit Procedures (Cited in para 4–3.)

50 CFR 21
and Migratory Bird Permits. (Cited in para 4–3.)

50 CFR 402
Endangered Species Act of 1973, as amended. (Cited in para 4–3.)

57 FR 28835
DOD - Office of the Secretary of Defense Environmental Restoration Program. (Cited in para 12–4.)

Section II
Related Publications

A related publication is a source of additional information. The user does not have to read it to understand this regulation. DOD Directives are available at www.dtic.mil/whs/directives. United States Codes (USC) are available at www.gpoaccess.gov/uscode/. Executive Orders are available at www.archieves.gov/federal_register/executive_orders/disposition_tables.html. Code of Federal Regulations (CFR) are available at www.gpoaccess.gov/cfr/index.html. Public laws are available at http://thomas.loc.gov/bss/. EPA publications are available at http://www.epa.gov/epahome/publications.htm. Military standards are available at http://assist.daps.dla.mil/quicksearch/.

AR 1–1
Planning, Programming, Budgeting, and Execution System

AR 5–4
Department of the Army Productivity Improvement Program.

AR 5–20
Competitive Sourcing Program

AR 10–87
Major Army Commands in the Continental United States

AR 11–9
Army Radiation Safety Program

AR 11–27
Army Energy Program

AR 25–55
The Department of the Army Freedom of Information Act Program

AR 37–49
Budgeting, Funding, and Reimbursement for Base Operations Support of Army Activities

AR 40–7
Use of Investigational Drugs and Devices in Humans and the Use of Schedule I Controlled Drug Substances

AR 40–13
Medical Support-Nuclear/Chemical Accidents and Incidents

AR 50–5
Nuclear Surety

AR 50–7
Army Reactor Program

AR 56–9
Watercraft

AR 70–65
Management of Controlled Substances, Ethyl Alcohol and Hazardous Biological Substances in Army Research, Development, Test, and Evaluation Facilities

AR 75–1
Malfunctions Involving Ammunition and Explosives

AR 75–14
Interservice Responsibilities for Explosive Ordnance Disposal

AR 350–1
Army Training and Leader Development

AR 360–1
The Army Public Affairs Program

AR 385–16
System Safety Engineering and Management

AR 385–40
Accident Reporting and Records

AR 385–64
US Army Explosives Safety Program

AR 420–90
Fire and Emergency Services.

AR 700–141
Hazardous Materials Information Resource System (RCS DDFM&P (A,Q,&AR)1486)

AR 725–50
Requisitioning, Receipt, and Issue System

AR 750–1
Army Material Maintenance Policy

DA PAM 40–8
Occupational Health Guidelines for the Evaluation and Control of Occupational Exposure to Nerve Agents GA, GB, GD, AND VX

DA PAM 40–501
Hearing Conservation Program

DA PAM 200–1
Environmental Protection and Enhancement

DASA (ESOH) Directive, 13 Jul 01
HQDA Memorandum, Army Environmental Management System - Action Memorandum.

DODD 3200.15
Sustainment of Ranges and Operating Areas (OPAREAs)

DODI 4000.19
Interservice and Intragovernmental Support

DODI 4715.10
Environmental Education, Training and Career Development

DODI 6055.6
DOD Fire and Emergency Services (F&ES) Program

EM 385–1–1
Safety and Health Requirements (Available at www.usace.army.mil/publications/

EO 11514
Protection and Enhancement of Environmental Quality

EO 11644
Use of Off-Road Vehicles in the Public Lands

EO 12114
Environmental Effects Abroad of Major Federal Actions

EO 12759
Federal Energy Management

EO 12844
Federal Use of Alternatively Fueled Vehicles

EP 1130–2–540
Environmental Stewardship Operations and Maintenance Guidance and Procedures (Available at www.usace.army.mil/publications/

EPA–340/1–90–018
Asbestos/NESHAP Regulated Asbestos Containing Materials Guidance

EPA–560/5–85–024
Guidance for Controlling Asbestos-Containing Materials in Buildings

EPA–600/4–85–049
Measuring Airborne Asbestos Following an Abatement Action

EPA–600/9–79–045
National Pollutant Discharge Elimination System (NPDES) Best Management Practices Guidance Document

EPA–560–OPTS–86–001
A Guide to Respiratory Protection for the Asbestos Abatement Industry

ER 200–3–1
FUDS Program Policy

FM 5–19
Composite Risk Mangement

JP Publication 4–04
Joint Doctrine for Civil Engineering Support

MIL–STD–3007
Standard Practice for Unified Facilities Criteria and Unified Facilities Guide Specifications (Available at http://assist.daps.dla.mil/quicksearch.)

MIL–STD–129P
Military Marking for Shipment and Storage

MIL–STD–1474D
Department of Defense Design Criteria Standard, Noise Limits

NFPA 295
Standard for Wildlife Control. (Available for ordering at www.webstore.ansi.org.)

NFPA 299
Standard for Protection of Life and Property from Wildfire (Available for ordering at www.webstore.ansi.org.)

NFPA 1051
Standard for Wildland Fire Fighter Professional Qualifications (Available for ordering at www.webstore.ansi.org.)

OMB Circular A–95
Evaluation, Review, and Coordination of Federal and Federally Assisted Programs and Projects. (Available for ordering at the Office of Management and Budget's information line.)

PL 99–145, section 1412
National Defense Authorization Act of 1986 - Destruction of Existing Stockpile of Lethal Chemical Weapons

PL 101–576
Chief Financial Officers Act of 1990.

PL 101–637
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PL 102–484
National Defense Authorization Act for FY93

PL 102–550
Residential Lead Based Paint Hazard Reduction Act 1992

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National Defense Authorization Act for FY98

PL 106–065
National Defense Authorization Act for FY00

PL 107–188
Public Health Security and Bioterrorism Preparedness and Response Act of 2002; Title IV–Drinking Water Security and Safety

PMS 310–1/NFES 1414
National Wildfire Coordinating Group Wildland Fire and Prescribed Fire Qualification System Guide, Jan 2000

SB 8–75 – medcase
Army Medical Department Supply Information

TB MED 513
Guidelines for the Evaluation and Control of Asbestos Exposure

TC 25–1
Training Land

TM 3–250
Storage, Shipment, Handling and Disposal of Chemical Agents and Hazardous Chemicals

TM 3–261
Handling and Disposal of Unwanted Radioactive Material

TM 5–629
Weed Control and Plant Growth Regulation

TM 5–630
Natural Resources - Land Management

TM 5–632
Military Entomology Operational Handbook

TM 5–633
Natural Resources - Fish and Wildlife Management

TM 5–635
Natural Resources - Outdoor Recreation and Cultural Values

TM 5–814–5
Sanitary Landfills

TM 38–250
Preparing Hazardous Materials for Military Air Shipment

TM 38–410
Storage and Handling of Hazardous Materials

USACHPPM TG No. 135
Data Base for Assessing the Annoyance of the Noise of Small Arms (Available at chppm-www.apgea.army.mil.)

USACHPPM TG No. 177
Commander's Guide to Regulated Medical Waste Management at Army Medical Treatment Facilities (Available at chppm-www.apgea.army.mil.)

USACHPPM TG No. 197
Guide for Developing an Integrated Solid Waste Management Plans at Army Installations (Available at chppm-www.apgea.army.mil.)

USACHPPM TG No. 198
Childhood Lead Poisoning Prevention/Lead-Based Paint Management Program on DOD Installations (Available at chppm-www.apgea.army.mil.)

10 CFR 20
Nuclear Regulatory Commission - Standards for Protection Against Radiation

14 CFR 150
Federal Aviation Administration, Department of Transportation - Airport Noise Compatibility Planning

24 CFR 51
Office of the Secretary, Department of Housing and Urban Development - Environmental Criteria and Standards

29 CFR 1910.120e, p, q
Occupational Safety and Health Administration (OSHA), Department of Labor (DOL) - Occupational Safety Health Standards - Hazardous Waste Operations and Emergency Response.

29 CFR 1926
Occupational Safety and Health Administration (OSHA), Department of Labor (DOL) - Safety and Health Regulations for Construction

32 CFR 229
Office of the Secretary of Defense - Protection of Archeological Resources: Uniform Regulations

32 CFR 651.18
Department of the Army - Environmental Analysis of Army Actions - Introduction.

33 CFR 153
Coast Guard (CG), Department of Homeland Security (DHS) - Control of Pollution by Oil and Hazardous Substances, Discharge Removal

33 CFR 154
CG, DHS - Facilities Transferring Oil or Hazardous Material in Bulk

33 CFR 159
CG, DHS - Marine Sanitation Devices

33 CFR 209
Corps of Engineers, Department of the Army, DOD - Administrative Procedure

33 CFR 320
Corps of Engineers, Department of the Army, DOD - General Regulatory Policies

36 CFR 60
National Park Service (NPS), Department of the Interior (DOI) - National Register of Historic Places

36 CFR 61
NPS, DOI - Procedures for State, Tribal, and Local Government Historic Preservation Programs

36 CFR 63
NPS, DOI - Determinations of Eligibility for Inclusion in the National Register of Historic Places

40 CFR 51
EPA - Requirements for the Preparation, Adoption, and Submittal of Implementation Plans

40 CFR 51.1
EPA - Requirements for the Preparation, Adoption, and Submittal of Implementation Plans - Who is Responsible for Actions Described in this Subpart?

40 CFR 51.307
EPA - Requirements for the Preparation, Adoption, and Submittal of Implementation Plans - New Source Review

40 CFR 63
EPA - National Emission Standards for Hazardous Air Pollutants for Source Categories.

40 CFR 68
EPA - Chemical Accident Prevention Provision

40 CFR 70
EPA - State Operating Permit Programs.

40 CFR 70.6
EPA - State Operating Permit Programs - Permit Content.

40 CFR 71
EPA - Federal Operating Permit Programs.

40 CFR 71.1
EPA - Federal Operating Permit Programs - Program Overview.

40 CFR 71.6
EPA - Federal Operating Permit Programs - Permit Content.

40 CFR 82
EPA - Protection of Stratospheric Ozone

40 CFR 112.3
EPA - Oil Pollution Prevention - Requirement to Prepare and Implement a Spill Prevention, Control, and Countermeasure Plan

40 CFR 112.4
EPA - Oil Pollution Prevention - Amendment of Spill Prevention, Control, and Countermeasure Plan by Regional Administrator.

40 CFR 112.5
EPA - Oil Pollution Prevention - Amendment of Spill Prevention, Control, and Countermeasure Plan by Owners or Operators.

40 CFR 112.7
EPA - Oil Pollution Prevention - General Requirements for Spill Prevention, Control, and Countermeasure Plans

40 CFR 112.8
EPA - Oil Pollution Prevention - Spill Prevention, Control, and Countermeasure Plan Requirements for Onshore Facilities (excluding production facilities).

40 CFR 112.20
EPA - Oil Pollution Prevention - Facility Response Plans.

40 CFR 112.21
EPA - Oil Pollution Prevention - Facility Response Training and Drills/Exercises.

40 CFR 122
EPA - EPA Administered Permit Programs: The National Pollutant Discharge Elimination System (NPDES).

40 CFR 122.26
EPA - EPA Administered Permit Programs - The National Pollutant Discharge Elimination System (NPDES) - Storm Water Discharges

40 CFR 123
EPA - State Program Requirements

40 CFR 125
EPA - Criteria and Standards for the National Pollution Discharge Elimination System (NPDES)

40 CFR 130.12
EPA - Water Quality Planning and Management - Coordination with Other Programs

40 CFR 136
EPA - Guidelines Establishing Test Procedures for the Analysis of Pollutants

40 CFR 140
EPA - Marine Sanitation Device Standard.

40 CFR 141
EPA - National Primary Drinking Water Regulations

40 CFR 141.28
EPA - National Primary Drinking Water Regulations - Certified Laboratories

40 CFR 142
EPA - National Primary Drinking Water Regulations Implementation

40 CFR 143
EPA - National Secondary Drinking Water Regulations

40 CFR 144
EPA - Underground Injection Control Program.

40 CFR 146
EPA - Underground Injection Control Program: Criteria and Standards

40 CFR 147
EPA - State Underground Injection Control Programs

40 CFR 148
EPA - Hazardous Waste Injection Restrictions

40 CFR 149
EPA - Sole Source Aquifers.

40 CFR 202
EPA - Motor Carriers Engaged in Interstate Commerce

40 CFR 204
EPA - EPA Noise Emission Standards for Construction Equipment

40 CFR 205
EPA - Transportation Equipment Noise Emission Controls

40 CFR 225
EPA - Dredged Material Permits

40 CFR 230
EPA - Section 404(b)(1) Guidelines for Specification of Disposal Sites for Dredged or Fill Material.

40 CFR 239
EPA - Requirements for State Permit Program Determination of Adequacy

40 CFR 240
EPA - Guidelines for the Thermal Processing of Solid Wastes

40 CFR 243
EPA - Guidelines for the Storage and Collection of Residential, Commercial, and Institutional Solid Waste

40 CFR 246
EPA - Source Separation for Materials Recovery Guidelines

40 CFR 247
EPA - Comprehensive Procurement Guideline for Products Containing Recovered Materials.

40 CFR 257
EPA - Criteria for Classification of Solid Waste Disposal Facilities and Practices.

40 CFR 258
EPA - Criteria for Municipal Solid Waste Landfills.

40 CFR 262
EPA - Standards Applicable to Generators of Hazardous Waste

40 CFR 262.11
EPA - Standards Applicable to Generators of Hazardous Waste - Hazardous Waste Determination.

40 CFR 264.13
EPA - Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities - General Waste Analysis.

40 CFR 264
EPA - Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities

40 CFR 265
EPA - Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities

40 CFR 273
EPA - Standards for Universal Waste Management

40 CFR 280
EPA - Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST)

40 CFR 280.20
EPA - Technical Standards and Corrective Action Requirements for Owners and Operators of USTs - Performance Standards for New Underground Storage Tank Systems

40 CFR 280.43
EPA - Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks - Methods of Release Detection for Tanks

40 CFR 300.120
EPA - National Oil and Hazardous Substance Pollution Contingency Plan - On-scene Coordinators and Remedial Project Managers: General Responsibilities

40 CFR 300.125
EPA - National Oil and Hazardous Substance Pollution Contingency Plan - Notification and Communications

40 CFR 300.155
EPA - National Oil and Hazardous Substance Pollution Contingency Plan - Public Information and Community Relations

40 CFR 300.211
EPA - National Oil and Hazardous Substance Pollution Contingency Plan - Facility and Vessel Response Plans

40 CFR 300.425
EPA - National Oil and Hazardous Substance Pollution Contingency Plan - Establishing Remedial Priorities

40 CFR 372
EPA - Toxic Chemical Release Reporting: Community Right-to-Know

40 CFR 503
EPA - Standards for the Use or Disposal of Sewage Sludge

40 CFR 761
EPA - Polychlorinated Biphenyls (PCB) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions.

40 CFR 761.20
EPA - Polychlorinated Biphenyls (PCB) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions - Prohibitions and Exceptions.

40 CFR 761.60b
EPA - Polychlorinated Biphenyls (PCB) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions - Disposal Requirements.

40 CFR 761.202
EPA - Polychlorinated Biphenyls (PCB) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions - EPA Identification Numbers.

40 CFR 761.205
EPA - Polychlorinated Biphenyls (PCB) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions - Notification of PCB Waste Activity (EPA Form 7710–53)

40 CFR 763
EPA - Asbestos

40 CFR 763.87
EPA - Asbestos - Analysis

43 CFR 5
Subtitle A - Office of the Secretary of the Interior - Making Pictures, Television Productions or Sound Tracks on Certain Areas Under the Jurisdiction of the Department of the Interior

43 CFR 6
Subtitle A - Office of the Secretary of the Interior - Patent Regulations

43 CFR 7
Subtitle A - Office of the Secretary of the Interior - Protection of Archaeological Resources

48 CFR 6
Federal Acquisition Regulations - Competition Requirements

49 CFR 106
Pipeline and Hazardous Materials Safety Administration, Department of Transportation - Rulemaking Procedures

49 CFR 130
Pipeline and Hazardous Materials Safety Administration, Department of Transportation - Oil Spill Prevention and Response Plans

49 CFR 171
Pipeline and Hazardous Materials Safety Administration, Department of Transportation - Subtitle B - Other Regulations Relating to Transportation - General information, regulations, and definitions

49 CFR 172
Pipeline and Hazardous Materials Safety Administration, Department of Transportation - Subtitle B - Other Regulations Relating to Transportation - Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements

49 CFR 173
Pipeline and Hazardous Materials Safety Administration, Department of Transportation - Subtitle B - Other Regulations Relating to Transportation - Shippers—General Requirements for Shipments and Packagings

49 CFR 174
Pipeline and Hazardous Materials Safety Administration, Department of Transportation - Subtitle B - Other Regulations Relating to Transportation - Carriage by Rail

49 CFR 175
Pipeline and Hazardous Materials Safety Administration, Department of Transportation - Subtitle B - Other Regulations Relating to Transportation - Carriage by Aircraft

49 CFR 176
Pipeline and Hazardous Materials Safety Administration, Department of Transportation - Subtitle B - Other Regulations Relating to Transportation - Carriage by Vessel

49 CFR 177
Pipeline and Hazardous Materials Safety Administration, Department of Transportation - Subtitle B - Other Regulations Relating to Transportation - Carriage by Public Highway

49 CFR 178
Pipeline and Hazardous Materials Safety Administration, Department of Transportation - Subtitle B - Other Regulations Relating to Transportation - Specifications for Packagings

50 CFR 222
National Marine Fisheries Service, National Oceanic and Atmospheric Administration (NOAA), Department of Commerce (DOC) - General Endangered and Threatened Marine Species

50 CFR 402.06
Endangered Species Act of 1973, as amended - Coordination with Other Environmental Reviews.

50 CFR 402.10
Endangered Species Act of 1973, as amended - Conference on Proposed Species or Proposed Critical Habitat

65 FR 62565–62572
Unified Federal Policy for a Watershed Approach to Federal Land and Resource Management, 18 Oct 2000 (Available at www.epa.gov/Fedrgstr/search/html.)

31 USC 1341
Anti-Deficiency Act

33 USC 401
Saint Lawrence Seaway Development Corporation, Department of Transportation - Seaway Regulations and Rules

42 USC 300g–8
The Public Health and Welfare - National Drinking Water Regulations

42 USC 4331
National Environmental Policy - Congressional Declaration of National Environmental Policy

42 USC 9613
Comprehensive Environmental Response, Compensation, and Liability - Civil Proceedings

42 USC 9617
Comprehensive Environmental Response, Compensation, and Liability - Public Participation

42 USC 9620
Comprehensive Environmental Response, Compensation, and Liability - Federal Facilities

42 USC 9620h
Comprehensive Environmental Response, Compensation, and Liability - Property Transferred by Federal Agencies

49 USC 5102
Transportation - Hazardous Material Transportation Act

50 USC 1521
Lethal Chemical Agents and Munitions

Section III
Prescribed Forms
This section contains no entries.

Section IV
Referenced Forms

DA Forms are available on the Army Publishing Directorate Web site www.apd.army.mil: DD Forms are available from OSD Web site http://www.dtic.mil/whs/directives/infomgt/forms/formsprogram.htm.)

DA Form 11–2–R
Management Control Evaluation Certification Statement

DD Form 1391
FY_ Military Construction Project Data

Appendix B
Installation Management Control Evaluation Checklist

B–1. Function.
The function covered by this checklist is Environmental Management.

B–2. Purpose.
The purpose of this checklist is to assist installation managers and staff in evaluating the key management controls listed below. It is not intended to cover all controls. The garrison commander (GC) or designated representative(s) will perform this checklist.

B–3. Instructions.
Answers must be based on the actual testing of Key management controls (for example, document analysis, direct observation, sampling simulation, other). Answers which indicate deficiencies must be explained and corrective action indicated in supporting documentation. These management controls must be evaluated at least every five years. Certification that this evaluation has been conducted must be accomplished on DA Form 11–2–R, Management Control Evaluation Certification Statement.

B–4. Test Questions.
a. Program Performance.

(1) Does the installation have an Environmental Quality Control Committee (EQCC), formally constituted and chaired by the garrison commander (GC), which provides a forum to enhance, address and resolve environmental issues?

(2) Is a multidisciplinary program in place to identify and proactively control environmental risks?

(3) Does the installation have pollution prevention policies and programs in place and operating to reduce pollution through source reduction, reuse, recycling, or energy/water use reduction?

(4) Does the installation have the requisite plans in place required by environmental permits?

(5) Are all personnel (including appointed environmental officers) trained and equipped sufficiently to execute their duties in an environmentally safe and compliant manner and to respond properly in case of environmental emergency?

(6) Are problems that are identified through internal audits, complaints, spills or enforcement actions (ENFs) investigated to determine systemic causes and promptly corrected? (PD/LD: DASA (ESOH) directive, 13 July 2001, and EO 13423)

(7) Does the installation have an installation internal assessment plan (IIAP)? (PD/LD: DASA (ESOH) directive, 13 July 2001, and EO 13423)

(8) Is the IIAP updated annually and included in the documentation of the installation Environmental Management System (EMS)? (PD/LD: DASA (ESOH) directive, 13 July 2001, EO 13423, and AR 11–2)

b. Environmental Condition.

(1) Are all solid waste streams systematically characterized to determine if they are hazardous? Is the basis for the determination (i.e. generator knowledge or analytical results) documented and the waste disposed of properly?

(2) Are all unit projects, activities and work requests coordinated with the environmental officer?

(3) Is adequate National Environmental Policy Act (NEPA) documentation routinely prepared and considered as an integral part of the planning process (NOTE: Overseas installations should follow the Environmental Review Guide (ERG) since NEPA does not apply overseas.)?

(4) Are Environmental Performance Assessment System (EPAS) evaluations and the corrective actions in the installation corrective action plan (ICAP) completed in a timely manner?

(5) Are deficiencies identified in the ICAP that require funds forwarded to the responsible proponent for inclusion in appropriate programming and budgeting documents?

c. Mission Impact.

(1) Are management practices in place in order to improve the C-rating of mission critical environmental areas?

(2) Does top management (that is, GC, EQCC) periodically review the IIAP?

(3) Does top management review the open findings in the ICAP and ensure that adequate efforts are being made to close them?

d. Compliance.

(1) Are required reports and records complete and accurate? Is required reporting submitted to regulators in a timely and accurate manner? Is required reporting submitted to higher headquarters in a timely and accurate manner? Does the installation and the higher headquarters review and approve environmental data reported to HQDA?

(2) Are physical inspections conducted on a regular basis? Do they detect environmental problems and are they tracked to ensure corrective action? Are environmental compliance deficiencies recorded in the ICAP?

B–5. Supersession.

This checklist replaces the checklist published in AR 200–1, dated 21 February 1997.

B–6. Comments.

Help make this a better tool for evaluating management controls. Submit comments to HQDA, Director of Environmental Programs (DEP), 600 Army Pentagon, Washington, DC 20310–0600.

Glossary

Section I
Abbreviations

AAE
Army Acquisition Executive

AAFES
Army and Air Force Exchange Service

AAP
Army alternate procedures

AC
hydrogen cyanide

ACHP
Advisory Council on Historic Preservation

ACOM
Army Command

ACP
Army cost position

ACSIM
Assistant Chief of Staff for Installation Management

ACUB
Army Compatible Use Buffer

ADCON
administrative control

ADNL
A-weighted day-night level

ADUSD (E)
Assistant Deputy Undersecretary of Defense (Environment) - now ADUSD (ESOH)

ADUSD (ESOH)
Assistant Deputy Undersecretary of Defense (Environment, Safety, and Occupational Health)

AECS
Army Environmental Cleanup Strategy

AEDB
Army Environmental Data Base

AEDB–CC
Army Environmental Data Base - Compliance-Related Cleanup

AEDB–EQ
Army Environmental Data Base - Environmental Quality

AEDB–R
Army Environmental Data Base - Restoration

AEP
Army Environmental Program

AEPI
Army Environmental Policy Institute

AERO
Army Environmental Reporting Online

AERTA
Army Environmental Requirements Technology Assessment

AFH
Army Family Housing

AFJMAN
Air Force Joint Manual

AFPMB
Armed Forces Pest Management Board

AHERA
Asbestos Hazard Emergency Response Act

AHPA
Archeological and Historical Preservation Act

AIRFA
American Indian Religious Freedom Act

AKM
Army Knowledge Management

ALT
Acquisition, logistics, and technology

AMC
Army Materiel Command

AMEDD
Army Medical Department

ANSI
American National Standards Institute

APP
Affirmative Procurement Program

AR
Army regulation

ARIMS
Army Records Information Management System

ARNG
Army National Guard

AROC
Army Requirements Oversight Council

ARPA
Archeological Resources Protection Act

ARSIC
Army Range Sustainment Integration Council

ARSTAF
Army staff

ASA
Assistant Secretary of the Army

ASA (ALT)
Assistant Secretary of the Army (Acquisition, Logistics and Technology)

ASA (FM&C)
Assistant Secretary of the Army (Financial Management & Comptroller)

ASA (I&E)
Assistant Secretary of the Army (Installations and Environment)

ASARC
Army System Acquisition Review Council

ASARCCT
Army System Acquisition Review Council Coordination Team

ASC
Army senior consultant

ASCC
Army Service Component Command

ASEL
a-weighted sound exposure level

ASSON
aerial spray statement of need

AST
aboveground storage tank

ATEC
Army Test and Evaluation Command

ATSDR
Agency for Toxic Substances and Disease Registry

AWCF
Army Working Capital Fund

BCA
Base Closure Account

BCP
base realignment and closure cleanup plan

BD/DR
building demolition/debris removal

BMP
best management practice

BO
biological opinion

BOD
board of directors

BOS
base operations support

BRAC
base realignment and closure

BRAC
Base Closure and Realignment Commission

BT
Business Transformation

CA
Comprehensive Agreement

CA
Cooperative Agreement

CAA
Clean Air Act

CAIS
chemical agent identification set

CAR
Chief, Army Reserve

CBTDEV
combat developer

CC
compliance–related cleanup

CCMB
Configuration Control Management Board

CCR
Consumer Confidence Report

CEGS
Corps of Engineers guide specification

CERCLA
Comprehensive Environmental Response, Compensation, and Liability Act

CERFA
Community Environmental Response Facilitation Act

CEP
Chief of Environmental Programs

CFR
Code of Federal Regulations

CG
Carbonyl dichloride (phosgene)

CG
commanding general

CIO
Chief Information Officer

CK
cyanogen chloride

CN
w-chloroacetophenone

CONUS
continental United States

CPA
Chief of Public Affairs

CRB
Cost Review Board

CRM
cultural resources manager

CRP
community relations plan

CS
o-chlorobenzylidenemalononitrile (tear gas)

CSEL
c-weighted sound exposure level

CW
civil works

CWA
Clean Water Act

CWM
chemical warfare materiel

CWS
community water system

DA
Department of the Army

DA PAM
Department of the Army pamphlet

DARNG
Director, Army National Guard

DASA (ESOH)
Deputy Assistant Secretary of the Army (Environment, Safety, and Occupational Health)

dB
decibel

DC
District of Columbia

DCS
Deputy Chief of Staff

DD
decision document

DeCA
Defense Commissary Agency

DENIX
Defense Environmental Network and Information Exchange

DEP
Director of Environmental Programs

DERP
Defense Environmental Restoration Program

DFAS
Defense Finance and Accounting Service

DHP
Defense Health Program

DLAPS
Defense Logistics Agency Publishing System

DMM
discarded military munitions

DNL
day-night level

DOD
Department of Defense

DODD
Department of Defense Directive

DODI
Department of Defense Instruction

DOI
Department of the Interior

DPTMS
Directorate of Plans, Training, Mobilization, and Security

DRMO
Defense Reutilization and Marketing Office

DRMS
Defense Reutilization and Marketing Service

DRU
Direct Reporting Unit

DSMOA
Defense and State Memoranda of Agreement

DUSD
Deputy Under Secretary of Defense

EA
executive agent or environmental assessment or enterprise architecture

ECP
Environmental Condition of Property

EIS
Environmental Impact Statement

EITM
Environmental Information Technology Management

ELD
Environmental Law Division

EL/RAMP
Environmental Legislative/Regulatory Analysis and Monitoring Program

EM
engineer manual

EMS
Environmental Management System

ENF
enforcement action

EO
executive order or environmental officer

EOD
explosive ordnance disposal

EP
engineer publication

EPA
Environmental Protection Agency

EPAR
Environmental Performance Assessment Report

EPAS
Environmental Performance Assessment System

EPCRA
Emergency Planning and Community Right-to-Know Act

EQCC
Environmental Quality Control Committee

EQIA
Environmental Quality Impact Analysis

EQLCCE
Environmental quality life cycle cost estimate

EQT
Environmental Quality Technology

ER
engineer regulation

ER, A
Environmental Restoration, Army

ER, F
Environmental Restoration, FUDS

ERDC
Engineer Research and Development Center

ERIS
Environmental Restoration Information System

ERP
Environmental Restoration Program

ESA
Endangered Species Act

ESMC
Endangered Species Management Component

ESO
Environmental Support Office

ESTCP
Environmental Security Technology Certification Program

ETTC
Environmental Technology Technical Council

FAD
Funding authorization document

FDE
Findings and Determination of Eligibility

FFCA
Federal Facilities Compliance Act

FGS
Final Governing Standards

FIFRA
Federal Insecticide, Fungicide, and Rodenticide Act

FM
field manual

FMR
financial management regulation

FOA
field operating agency

FOIA
Freedom of Information Act

FORSCOM
Forces Command

FOSET
finding of suitability for early transfer

FOSL
finding of suitability to lease

FOST
finding of suitability to transfer

FOTW
Federally-owned treatment works

FOUO
for official use only

FUDS
formerly used defense sites

FUDSMIS
Formerly Used Defense Sites Management Information System

FWPCA
Federal Water Pollution Control Act

FY
fiscal year

GC
garrison commander

GOCO
government-owned, contractor-operated

GPP
Green Procurement Program

GSA
General Services Administration

HAP
hazardous air pollutant

HDBK
Handbook

HM
hazardous material

HMMP
Hazardous Materials Management Program

HN
host nation

HPC
historic property component

HQ
Headquarters

HQDA
Headquarters, Department of the Army

HQ IMCOM
Headquarters, Installation Management Command

HSMS
Hazardous Substance Management System

HSSA
health service support area

HSWA
Hazardous and Solid Waste Amendments

HTRW
hazardous, toxic, and radioactive waste

HW
hazardous waste

IAP
installation action plan

IC
installation commander

ICAP
installation corrective action plan

ICE
independent cost estimate

ICRMP
integrated cultural resources management plan

IDN
initial distribution number

IIAP
installation internal assessment plan

II PEG
Installations Program Evaluation Group

IMCOM
Installation Management Command

INPR
inventory project report

INRMP
integrated natural resources management plan

IPM
integrated pest management

IPMC
integrated pest management coordinator

IPMP
integrated pest management plan

IPR
in-progress review

IR
installation restoration

IR
interim reference

IRP
Installation Restoration Program

ISMC
invasive species management component

ISO
International Organization for Standardization

ISR
installation status report

ISSA
Installation Services Support Agreement

IT
information technology

ITAM
Integrated Training Area Management

IWFMP
integrated wildland fire management plan

JCS
Joint Chiefs of Staff

JFLCC
Joint Forces Land Component Command

JP
joint publication

JTF
Joint Task Force

KISE
known and imminent substantial endangerment

LBP
lead-based paint

LD
legal driver

LCTA
land condition trend analysis

LEPC
Local Emergency Planning Committee

LLRW
low-level radioactive waste

LTR
letter

LUC
land use control

LUPZ
land use planning zone

MACT
maximum achievable control technology

MAIS
Major Automated Information System

MAP
management action plan

MBTA
Migratory Bird Treaty Act

MC
munitions constituents

MCA
Military Construction, Army

MCAR
Military Construction, Army Reserve

MCNG
Military Construction, National Guard

MDAP
Major Defense Acquisition Program

MEC
Munitions and explosives of concern

MEDCEN
medical center

MEDCOM
Army Medical Command

MEDDAC
medical department activity

MIDI
Military Item Disposal Instructions

MIL
military

MMRP
Military Munitions Response Program

MOA
memorandum of agreement

MOM
measure of merit

MOU
memorandum of understanding

MPRSA
Marine Protection, Research, and Sanctuaries Act

MS4
Municipal Separate Stormwater Sewer System

MSC
major subordinate command

MSWLF
municipal solid waste landfill

MTOE
modified tables of organization and equipment

MWR
morale, welfare, and recreation

NAF
non-appropriated fund

NAGPRA
Native American Graves Protection and Repatriation Act

NDAA
National Defense Authorization Act

NDCEE
National Defense Center for Environmental Excellence

NEPA
National Environmental Policy Act

NESHAP
National Emissions Standards for Hazardous Air Pollutants

NFES
National Fire Equipment System

NFPA
National Fire Protection Association

NGB
National Guard Bureau

NGB–ARNG
National Guard Bureau - Army National Guard

NGB–DARNG
National Guard Bureau - Director, Army National Guard

NHPA
National Historic Preservation Act

NLR
noise level reduction

NOAA–Fisheries
National Oceanic and Atmospheric Administration - Fisheries

NPDES
National Pollutant Discharge Elimination System

NPL
National Priorities List

NPS
National Park Service

NRC
National Response Center

NRCS
Natural Resources Conservation Service

NRHP
National Register of Historic Places

NRT
National Response Team

NTNCWS
Non-Transient Non-Community Water System

OACSIM
Office of the Assistant Chief of Staff for Installation Management

OASA (ALT)
Office of the Assistant Secretary of the Army (Acquisition, Logistics, and Technology)

OASA (I&E)
Office of the Assistant Secretary of the Army (Installations and Environment)

OCONUS
outside the continental United States

ODEP
Office of the Director of Environmental Programs

ODS
ozone depleting substances

OEBGD
Overseas Environmental Baseline Guidance Document

OEESCM
Operational and Environmental Executive Steering Committee on Munitions

OIPT
Overarching Integration Process Team

OMB
Office of Management and Budget

OPA
Oil Pollution Act

OPLAN
operation plan

OPORD
operation order

OPTEMPO
operating tempo

OPTS
Office of Pesticides and Toxic Substances

ORV
off-road vehicle

OSC
on-scene coordinator

OSD
Office of the Secretary of Defense

OSHA
Occupational Safety and Health Act or Occupational Safety and Health Administration

OTJAG
Office of the Judge Advocate General

PA
programmatic agreement

PAA
procurement Army ammunition

PAM
pamphlet

PAO
Public Affairs Office

PCB
polychlorinated biphenyl

PD
policy decision

Pk
peak sound pressure level

PL
public Law

PLANTS
Plant List of Accepted Nomenclature, Taxonomy, and Symbols

PLS
Planning Level Survey

PMP
program management plan

PMS
Publications Management System

POL
petroleum, oil, lubricants

POM
program objective memorandum

POTW
publicly-owned treatment works

PPA
Pollution Prevention Act

PPBE
planning, programming, budgeting, and execution

PPMP
professional pest management personnel

PSD
prevention of significant deterioration

QA/QC
quality assurance/quality control

RAB
Restoration Advisory Board

RCRA
Resource Conservation and Recovery Act

RCS
Reports Control System

RDT&E
research, development, test, and evaluation

RDX
cyclotrimethylenetrinitramine

READ
Repository of Environmental Army Documents

REC
regional environmental coordinator

REO
regional environmental office

RFP
request for proposal

RMIS
Restoration Management Information System

RMP
risk management plan

RMW
regulated medical waste

ROA
reports of availability

ROD
record of decision

RPMP
real property master plan

RPTS
Reimbursable Programs Tracking System

RRC
Regional Readiness Command

RRC
Reserve Readiness Command

RRSC
Regional Readiness Support Command

RRT
Regional Response Team

RTLA
range and training land assessment

RTLP
Range and Training Lands Program

SA
Secretary of the Army

SARA
Superfund Amendments and Reauthorization Act

SB
supply bulletin

SCP
spill contingency plan

SDD
sustainable design and development

SDWA
Safe Drinking Water Act

SDWAA
Safe Drinking Water Act Amendments

SEP
supplemental environmental project

SERC
State Emergency Response Commission

SERDP
Strategic Environmental Research and Development Program

SESCC
Soil Erosion and Sediment Control Component

SHPO
State historic preservation officer

SMC
senior mission commander

SOFA
Status of Forces Agreement

SPCC
spill prevention, control and countermeasures

SPCCP
spill prevention, control, and countermeasures plan

SPiRiT
sustainable project rating tool

SRP
Sustainable Range Program

STC
Sound Transmission Class

std
standard

SWARS
Solid Waste Annual Reporting System

SWPPP
stormwater pollution prevention plan

T&E
threatened and endangered

TAG
The Adjutant General

TB
technical bulletin

TB MED
technical bulletin, medical

TC
training circular

TDA
tables of distribution and allowances

TG
technical guide

TJAG
The Judge Advocate General

TM
technical manual

TMDL
total maximum daily load

TNCWS
Transient Non-Community Water System

TNT
trinitrotoluene

TO&E
table of organization and equipment

TRADOC
Training and Doctrine Command

TRC
Technical Review Committee

TRI
toxic release inventory

TSCA
Toxic Substances Control Act

TSG
The Surgeon General

TWCF
transportation working capital funds

USACE
U.S. Army Corps of Engineers

USACHPPM
U.S. Army Center for Health Promotion and Preventive Medicine

USAEC
U.S. Army Environmental Command

USAES
U.S. Army Engineer School

USC
United States Code

USCG
U.S. Coast Guard

USDA
U.S. Department of Agriculture

USFWS
U.S. Fish and Wildlife Service

USGS
U.S. Geological Survey

UST
underground storage tank

UXO
unexploded ordnance

VOC
volatile organic compound

WMM
waste military munitions

Section II
Terms

Acquisition, Real Estate
Obtain, use, or control real property by purchase, condemnation, donation, exchange, easement, license, lease, permit, revestment and recapture as defined in AR 405–10.

Acquisition, Life Cycle
Applies to processes and procedures by which defense services identify requirements; conduct research, development, test and evaluation; develop logistics support; field and ultimately dispose of materiel systems and equipment; and upgrade existing systems/equipment.

Action
All activities or programs of any kind authorized, funded, or carried out, in whole or in part, by Federal agencies in the United States or upon the high seas.

Action area
All areas to be affected, directly or indirectly, by the Federal agency action and not merely the immediate area involved in the action.

Activity
A unit, organization, or installation that performs a function or mission.

Adverse effect (under NHPA)
A harmful or detrimental change in the character or use of historic properties. Adverse effects include, but are not

limited to, physical destruction, damage, or alteration; isolation from or alteration of the setting; introduction of visual, audible, or atmospheric elements that are out of character; neglect; and transfer, lease, or sale of historic property.

Aerial Spray Statement of Need
A formal document prepared by DOD pest management consultant with certification in DOD Category 11, Aerial Application. If this document states that the proposed project is justified, preparation of an environmental assessment or environmental impact statement (EIS) is initiated and prepared.

Agency official (under NAGPRA)
Any individual authorized by delegation of authority within a Federal agency to perform the duties relating to these regulations (43 CFR 10). (43 CFR 10.2 (a)(2)) For Army installations the garrison commander (GC) serves as the agency official under NAGPRA.

Agricultural lease or outlease
Use of Army lands under a lease to an agency, organization, or person for growing crops or grazing animals.

Appropriate facilities
For purposes of EMS implementation, appropriate facilities are defined as the Army major installations identified by ACSIM as having operations and activities with the potential to significantly impact human health and/or the environment. Appropriate facilities must fully comply with EMS implementation requirements specified in this regulation. ACSIM will periodically update the appropriate facilities listing and promptly advise those installations that are added or removed.

Archaeological resource (under ARPA)
Any material of human life or activities that is at least 100 years of age, and which is of archaeological interest.

Army alternate procedures (AAP)
Procedures that Army installations and facilities may elect to follow in lieu of Advisory Council on Historic Preservation (ACHP) regulations to comply with the goals and mandates of the National Historic Preservation Act (NHPA) Section 106.

Army Command (ACOM)
An Army force, designated by the Secretary of the Army, performing multiple Army Service Title 10 functions (3013b) across multiple disciplines. Command responsibilities are those established by the Secretary and normally associated with administrative control (ADCON).

Army compatible use buffer (ACUB)
Formal agreements between Army and eligible entities for acquisition by the entities of land or interest in land and water rights from willing sellers. Formal agreements include limiting encroachment through acquisition of development rights, cooperative agreements (CAs), conservation easements, and other means to support land acquisition or affect land use in accordance with applicable laws. Development and implementation of an ACUB does not constitute an acquisition of real property. Land conveyances for conservation may supplement ACUBs. Authority is 10 USC 2684a and 2694a.

Army proponent
The Army unit, element, or organization responsible for initiating or carrying out the proposed action.

Army Senior Consultant
The individual designated by the DEP, who serves as the senior Army staff officer for technical guidance and management of the Army Pest Management Program and as ACSIM representative to the Executive Council of the Armed Forces Pest Management Board.

Army Service Component Command (ASCC)
An Army force, designated by the Secretary of the Army, comprised primarily of operational organizations serving as an Army component for a combatant commander. If designated by the combatant commander, serves as a Joint Forces Land Component Command (JFLCC) or Joint Task Force (JTF). Command responsibilities are those established by the Secretary and normally associated with operational control (OPCON) and administrative control (ADCON).

Best management practice
Best management practices are methods that have been determined to be the most effective and practical means of preventing or reducing pollution and/or environmental impacts.

Biological assessment
Information prepared by or under the direction of a Federal agency using the procedures in 50 CFR 402.12 concerning listed and proposed species and designated and proposed critical habitat that may be present in the action area and the evaluation of potential effects of the action on such species and habitat.

Biological diversity
The variety of life and its processes. It includes the variety of living organisms, the genetic differences among them, and the communities and ecosystems in which they occur.

Biological evaluation
A written document setting forth an installation's biologically supportable rationale for determining the affects an action will have on a listed or proposed species or critical habitat. A biological evaluation is an informal document and is used for actions only if a biological assessment is not required.

Biological opinion (BO)
The document that states the opinion of the U.S. Fish and Wildlife Service (USFWS) or National Oceanic and Atmospheric Administration (NOAA) - Fisheries as to whether or not the Federal agency action is likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat; a summary of the information on which the opinion is based and a detailed discussion of the effects of the action on listed species or designated critical habitat.

Candidate species
(see species designations)

Certification as pesticide applicator
The formal recognition of training and competency to perform pesticide applications per the DOD Instruction and Plan. DOD employees certified per the DOD Plan can, without obtaining additional State certification, use and supervise the use of restricted-use pesticides while engaged in performing their official duties.

Certification official (pesticide applicators)
The DOD professional pest management personnel (PPMP) who reviews and validates the qualifications of DOD pesticide applicators to meet the standards in the DOD Plan. In the Army, certification officials are nominated by the ASC through the DEP, for approval by the Executive Director, AFPMB. See Pest management consultant.

Certified pesticide applicator
Any individual who applies pesticides or supervises the use of pesticides by others and who has been authorized to do so by successfully completing a training program approved by the Environmental Protection Agency (EPA), followed by formal certification by DOD, State or for overseas, by the Installation Management Command (IMCOM) certification official.

Chemical warfare agent
A substance which, because of its chemical properties, is used in military operations or terrorist attacks to kill, seriously injure, or incapacitate humans or animals or deny use of water, food supplies, and/or other indigenous resources to combatants or civilian populations. Some types of pesticides and herbicides (especially organophosphate-based substances) were initially developed and tested for use as chemical warfare agents, and only later adapted for non-military and agricultural applications. Chemical warfare agents are the V- and G-series nerve agents; H-series (that is, "mustard" agents) and L-series (that is, lewisite) blister agents; and certain industrial chemicals, including: hydrogen cyanide (AC), cyanogen chloride (CK), or carbonyl dichloride (called phosgene or CG)), when contained in a military munition. Chemical warfare agents do not include: riot control agents (for example, w-chloroacetophenone (CN); o-chlorobenzylidenemalononitrile ((CS) tear gas); chemical herbicides; smoke or incendiary compounds; and industrial chemicals that are not configured as a military munition.

Chemical warfare materiel
Items generally configured as a munition containing a chemical substance that is intended to kill, seriously injure, or incapacitate a person through its physiological effects. CWM includes V- and G-series nerve agent; H-series (mustard) and L-series (lewisite) blister agent, in other-than-munition configuration; and certain industrial chemicals (for example, hydrogen cyanide (AC), cyanogen chloride (CK), or carbonyl dichloride (called phosgene or CG)) configured as a

military munition. Due to their hazards, prevalence, and military-unique application, chemical agent identification sets (CAIS) are also considered CWM. CWM does not include: riot control agents; chemical herbicides; industrial chemicals (for example, AC, CK, or CG) not configured as a munition; smoke and flame producing items; or soil, water, debris or other media contaminated with chemical warfare agents.

Class I and Class II ozone depleting substances (ODS)
Class I ODS have a greater ozone-depletion potential than Class II ODS. Class II ODS are generally considered safer than Class I ODS. Class I and Class II are defined in the Clean Air Act (CAA) Amendments of 1990. (See 40 CFR 82, Appendix A and B).

Command
A unit or units, an organization, or an area under the command of one individual.

Community water system
A public water system that supplies water to the same population year-round.

Compliance agreement
Any negotiated agreement between regulatory officials and regulatee for the purpose of attaining or maintaining compliance. Regulatee must have participated and influenced the terms of the agreement.

Compliance-related cleanup
Compliance-related cleanup (CC) includes actions to address contamination at Army facilities overseas; contamination resulting from operations that have occurred since October 1986 (i.e., non-DERP) at Army Active, Excess, and Special installations, and Army National Guard (ARNG) Federally-owned facilities; and contamination at Non-Federally owned, Federally-supported ARNG facilities. As a key element of the broader Army Environmental Cleanup Strategy (AECS) and its associated Environmental Cleanup Strategic Plan, the CC mission at Army installations and facilities is to perform appropriate, cost-effective cleanup to protect human health, safety, and the environment, and to sustain operational readiness and training. Specifically, for overseas facilities, the CC mission is to address contamination that resulted from Army operations, presents a known imminent and substantial endangerment to human health and safety, and is located on or emanates from an Army facility. The CC Guidance Manual, September 2004, provides specific guidance on CC procedures and project eligibility.

Comprehensive agreement (under NAGPRA)
Agreements developed regarding the treatment and disposition of human remains, funerary objects, sacred objects, or objects of cultural patrimony excavated intentionally or discovered inadvertently on Federal lands.

Conference
The process which involves informal discussions between a Federal agency and the USFWS or NOAA–Fisheries regarding the impact of an action on proposed species or proposed critical habitat and recommendations to minimize or avoid the adverse effects.

Conservation
The wise use and scientific management of natural and cultural resources according to principles that provide optimum public benefit, continued productivity and sustainability for present and future generations, and support of the military mission.

Conservation law enforcement professional
A DOD law enforcement professional with additional training in natural resources and Archaeological Resources Protection Act (ARPA) law enforcement training.

Conservation Reimbursable and Fee Collection Programs
Includes the Army's proceeds generating Forestry, Fish and Wildlife, and Agricultural/Grazing Outlease programs.

Conserve/conservation (of species)
To use and the use of all methods and procedures which are necessary to bring any endangered species or threatened species to the point at which the measures provided pursuant to 16 USC Chapter 35 (ESA) are no longer necessary.

Construction
Any land-disturbing activity.

Consumer Confidence Report
A water quality report provided to consumers annually, as required under 40 CFR 141, Subpart O. All community water systems (CWS) are required to prepare and distribute annual CCRs that briefly summarize information regarding water sources, detected contaminants, compliance, and educational information.

Contaminant
An undesirable substance (physical, chemical, biological, or radiological) not normally present, or an unusually high concentration of a naturally occurring substance in water or soil.

Contingency plan
A document setting out an organized, planned, and coordinated course of action to be followed in case of a fire, explosion, or other accident that releases toxic chemicals, hazardous waste (HW), or radioactive materials that threaten human health or the environment.

Continual improvement
The process of enhancing the environmental management system to achieve improvements in overall environmental performance in line with the organization's environmental policy.

Critical habitat
Specific areas within the geographical area occupied by the species at the time it is listed in accordance with 16 USC Chapter 35 (ESA), on which are found those physical or biological features (1) essential to the conservation of the species, and (2) which may require special management considerations or protection. It also includes specific areas outside the geographical area occupied by the species at the time it is listed in accordance with the 16 USC Chapter 35 (ESA), upon a determination by the Secretary of Interior or Commerce that such areas are essential for the conservation of the species. The areas formally designated as critical habitat by the USFWS or NOAA–Fisheries and listed in 50 CFR 17 and 226.

Cultural resources
Historic properties as defined by the NHPA, cultural items as defined by NAGPRA, archeological resources as defined by ARPA, sacred sites as defined in EO 13007 to which access is afforded under AIRFA, significant paleontological items as described by 16 USC 431–433 (Antiquities Act of 1906), and collections and associated records as defined in 36 CFR 79.

Curation
An integral element of the archaeological process that refers to the long term management and preservation of archaeological materials and their associated documentation.

Destruction or adverse modification
The direct or indirect alteration that appreciably diminishes the value of critical habitat for both the survival and recovery of a listed species. Such alterations include, but are not limited to, alterations adversely modifying any of those physical or biological features that were the basis for determining T&E habitat to be critical.

Direct Reporting Unit (DRU)
An Army organization comprised of one or more units with institutional or operational functions, designated by the Secretary of the Army, providing broad general support to the Army in a normally single, unique discipline not otherwise available elsewhere in the Army. DRUs report directly to a Headquarters, Department of the Army principal and/or Army Command and operate under authorities established by the Secretary of the Army.

Discarded military munitions
Military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal. The term does not include unexploded ordnance (UXO), military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of consistent with applicable environmental laws and regulations. (10 USC 2710(e)(2)).

Discharge
A term that includes the accidental or intentional spilling, leaking, pumping, pouring, emitting, emptying, or dumping of a substance into or on any land or water (40 CFR 260.10).

Discharge classifications (for oil)
The classifications of accidental discharges listed below, provided to guide the on-scene coordinator (OSC), are criteria for general response actions. They are not criteria for reporting, nor do they imply associated degrees of hazard to the

public health or welfare, nor are they measures of environmental damage. However, a discharge that is a substantial threat to the public health or welfare, or results in critical public concern, will be classed as a major discharge. Discharges are quantitatively measured as follows:

a. Minor discharge: A discharge to the inland waters or less than 1,000 gallons of oil; or a discharge of less than 10, 000 gallons of oil to the coastal waters.

b. Medium discharge: A discharge of 1,000 gallons to 10,000 gallons of oil to the inland waters, or a discharge of 10,000 to 100,000 gallons of oil to coastal waters.

c. Major discharge: A discharge of more than 10,000 gallons of oil to the inland waters, or more than 100,000 gallons of oil to the coastal waters.

Disposal (real property)
Any authorized method of permanently divesting DA of control of and responsibility for real property. Reference AR 405–90 for definition of real property.

Disposal (waste)
The discharge, deposit, injection, dumping, spilling, leaking, or placing of any solid waste or HW into or on any land or water. The act is such that the solid waste or HW, or any constituent thereof, may enter the environment or be emitted into the air or discharged into any waters, including ground water (40 CFR 260.10).

Domestic sewage
Waste and wastewater from humans or from household operations that are discharged to or otherwise enter treatment works.

Ecosystem sustainability
A condition of living communities that meets, or can be manipulated to meet, current mission, compliance, stewardship and production needs without compromising the future ability to meet those needs. Compliance and stewardship include the protection of all resources, especially soil, water, threatened and endangered (T&E) species, and wildlife.

Effect (under NHPA)
Alteration to the characteristics of a historic property qualifying it for inclusion in or eligibility for the National Register.

Effluent limitation
Any restriction established by the EPA on quantities, rates, and concentrations of chemical, physical, biological and other constituents which are discharged from point sources, other than new sources, into navigable waters, the waters of the contiguous zone or the ocean.

Eligible entities
As it pertains to Section 2684a, National Defense Authorization Act (NDAA) fiscal year (FY) 03, an eligible entity that can enter into cooperative agreements (CAs) with the military can be a State government or political subdivision, or a private entity whose purpose is land and natural resource conservations, restoration, or preservation. As it pertains to Section 2694a, NDAA FY03, an eligible entity can be a State government or political subdivision, or a non-profit organization whose primary purpose is natural resource conservation on real property.

Emission standards
Limits on the quality of emissions that may be discharged to the atmosphere from any regulated source, established by Federal, State, local, and host nation (HN) authorities.

EMS Representative
The individual(s) appointed in writing by an organization's leadership who has defined roles, responsibilities, and authority for ensuring that EMS requirements are established, implemented, and maintained in accordance with ISO 14001 and this regulation. The EMS representative will report on the performance of the EMS to management for review and continual improvement of the EMS.

Encroachment
All external influences threatening or constraining testing and training activities required for force readiness and weapons acquisition. Such encroachment stems from environmental (for example, noise, endangered species, cultural resources, UXO, and munitions constituents (MC)), social (for example, urban sprawl), and economic (for example, changing land values) influences. Impacts include, but are not limited to, restrictions on available testing and training

locations; restrictions on available times and duration for testing and training; reduced effectiveness of testing and training activities; and restrictions on weapons systems, equipment, and munitions used during testing and training.

Enforcement action
A formal, written notification by the EPA or other authorized Federal, State, inter-state, regional or local environmental regulatory agency of violation of any applicable statutory or regulatory requirement. Enforcement action does not include warning letters, notices to comply, notices of potential liability, notices of significant noncompliance, pre-enforcement conference letters, informal notices of deficiencies, or notices of deficiencies to permit applications. One written notice, regardless of the number of individual violations, findings, or citations listed in it, counts as one enforcement action. If the enforcement action cites violations in more than one statutory requirement, then count it as multiple enforcement actions, one under each of the applicable statutory requirement categories. Items found to be out of compliance during an internal or other DOD Component review, compliance reviews, or audits are not included in this definition of enforcement action.

Environment
All of the following are elements of the natural and man-made environment:
a. Navigable waters.
b. Near-shore and open waters and any other surface water.
c. Groundwater.
d. Drinking water supply.
e. Land surface or subsurface area.
f. Ambient air.
g. Vegetation.
h. Wildlife.
i. Humans.
j. Noise.
k. Cultural resources.
l. Socioeconomics.
m. Coastal resources.

Environmental agreement
Environmental agreements are formal agreements between the Army and other entities to address actual or potential environmental concerns, delineate roles and responsibilities related to specific actions of mutual interest, and/or to reach consensus on courses of action. Environmental agreements include but are not limited to consent orders, compliance agreements, consent agreements, settlements, Federal facility agreements, ACUB agreements, and inter-agency agreements.

Environmental aspect
An element of an organization's activities, products, or services that can interact with the environment. A priority environmental aspect is an environmental aspect that has or can have an impact on the mission and/or the environment.

Environmental audit
A systematic, documented, verification process of objectively obtaining and evaluating evidence to determine whether specified environmental activities, events, conditions, management systems, or information about these matters conform to audit criteria (for example, compliance with Federal, State, and local environmental regulations) and communicating the results of this process to management. These reviews are not audits as defined in DODI 7600.2.

Environmental awareness training
Environmental knowledge conveyed by written or on-line information, hands-on training, or formal presentations. It is often provided outside a normal school classroom or regularly-scheduled class. It has limited applicability to teaching competence in specific job skills. It is intended to promote an environmental stewardship ethic and create an understanding of the importance of performing job skills in accordance with appropriate environmental requirements. It also encourages consultation with environmental staff and Army or local compliance publications to determine specific procedures.

Environmental condition of property
The Army does not consider the transfer of property from the Army to another Federal agency for their end use to be a deed transfer. The Army must sufficiently document the environmental condition of property being transferred to another Federal agency; therefore, an Environmental Baseline Survey is required. Also, the Army requires an Environmental Condition of Property (ECP) report, a document similar to a finding of suitability to transfer (FOST).

a. An ECP is the same as a FOST, with the following exceptions:

(1) Regulatory participation/review should parallel DOD finding of suitability to lease (FOSL) guidance, which does not require mandatory 30-day review, but early document sharing is encouraged.

(2) IMCOM Regions sign the ECP for categories 1, 2, 3, and 4 (see category descriptions below). Regions may further delegate authority for ECP categories 1 and 2 to GCs. GCs should decide on a property's suitability for lease or transfer. During staffing of the real estate action, HQDA and the Regions, as appropriate, will review the ECP for concurrence.

(3) CERCLA covenant and warranty are not required, since there is no deed.

(4) Transfer prior to all cleanup being complete is allowed and is encouraged.

(5) The Army should negotiate responsibility for environmental cleanup and compliance requirements with the Federal agency acquiring the property.

b. DOD guidance defines seven categories for describing the ECP, based on the extent of environmental contamination on the property and on the status of any associated restoration activities. These categories are defined with respect to CERCLA hazardous substances:

c. Category 1: Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas).

d. Category 2: Areas where only release or disposal of petroleum products has occurred.

e. Category 3: Areas where release, disposal, and/or migration of hazardous substances has occurred, but at concentrations that do not require a removal or remedial response.

f. Category 4: Areas where release, disposal, and/or migration of hazardous substances has occurred and all removal or remedial actions to protect human health and the environment have been taken.

g. Category 5: Areas where release, disposal, and/or migration of hazardous substances has occurred and removal or remedial actions are under way, but where all required remedial actions have not yet been taken.

h. Category 6: Areas where release, disposal, and/or migration of hazardous substances have occurred, but where required actions have not yet been implemented.

i. Category 7: Areas that have not been evaluated or that require additional evaluation.

Environmental considerations
The spectrum of environmental media resources, or programs that may impact on, or are affected by, the planning and execution of military operations. Factors may include, but are not limited to, environmental compliance, pollution prevention, conservation, protection of historical and cultural sites, and protection of flora and fauna (Joint Publication (JP) 1–02).

Environmental enhancement
Actions taken to improve the environment. These actions include measures intended to prevent or abate environmental pollution and to meet environmental quality standards.

Environmental hazard
Environmental hazards include all activities that may pollute, create negative noise related effects, degrade archeological/cultural resources, or negatively affect threatened or endangered species habitat. They may also include environmental health related hazards. (See FM 3–100.4, chap 2).

Environmental impact
Any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organization's activities, products, or services.

Environmental management system (EMS)
That part of an organization's overall management system that includes organizational structure, planning activities, responsibilities, practices, procedures, processes and resources for developing, implementing, achieving, reviewing, and maintaining the organization's environmental policy.

Environmental management system (EMS) audit
A systematic and documented verification process of objectively obtaining and evaluating evidence to determine whether an organization's environmental management system (EMS) conforms to the EMS audit criteria set by the organization, and for communication of the results of this process to management.

Environmental objective
An overall environmental goal, arising from the environmental policy, that an organization sets for itself to achieve, and which is quantified where practicable.

Environmental officer
An individual assigned to a table of organization and equipment (TO&E) or table of distributions and allowances (TDA) organization or unit to accomplish environmental compliance requirements on behalf of his or her responsible commander, director, or supervisor. Designated person also coordinates with supporting permanent installation environmental staff for requirements clarification and assistance. In the Army National Guard (ARNG), coordination is with NGB–ARNG State environmental staff; in the Reserves, with Regional Support Command environmental staff. Organizational levels, and required grade or rank, suitable for assignment of compliance officer duties will be determined by the commander. Commanders should consider mandatory Federal training requirements as well as mission workloads in determining assignment of environmental officers at Battalion and unit (Company, Battery, Troop) level.

Environmental performance
Measurable results of the environmental management system, related to an organization's control of its environmental aspects, based on its environmental policy, objective, and targets.

Environmental planning
Efforts that consider the impact of day-to-day base operations and activities, operational readiness activities, training, exercises, or weapons system introduction on the environment, and where necessary, allow decision makers to take early action to eliminate or mitigate those impacts. Additionally, environmental planning may require consultation or submission of documentation to demonstrate that environmental considerations have been taken.

Environmental policy
A statement by the organization of its intentions and principles in relation to its overall environmental performance that provides a framework for action and for the setting of its environmental objectives and targets.

Environmental pollution
The condition resulting from the presence of chemical, mineral, radioactive, or biological substances that

a. Alter the natural environment.

b. Adversely affect human health or the quality of life, biosystems, the environment, in structures and equipment, recreational opportunities, aesthetics, and/or natural beauty.

Environmental target
A detailed performance requirement based on ISO 14001, quantified where practicable, applicable to the organization or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives.

Environmental training
Instruction whose primary purpose is to provide measurable competence for doing specific environmental jobs or tasks. Some is mandated by law or regulation. Commonly taught in a classroom, by such methods as lecture, discussion, or practical exercise. However, other methods may also be used, including web-based or other "distance learning." Environmental training includes both separate environmental courses and environmental content in non-environmental courses.

Environmental stewardship
Management and oversight of environmental, natural and living resource assets including but not limited to land, air, water, soils, vegetation, and wildlife. The Army's objective is to plan, initiate, and carry out its actions and programs in a manner that minimizes adverse effects on the environment without impairing the mission and to manage impacts so as to sustain the capability of Army lands to support future as well as present mission uses of ranges and training lands. See also paragraph 1–1(a).

EPA Identification Number
The number assigned by EPA to each HW generator, transporter, and treatment, storage or disposal facility. Reference 40 CFR 260.10; 264.11; 265.11; TB 43–0244, Unit Level Procedures for Handling Service Supplies, Hazardous Materials, and Waste.

Estuary
Regions of interaction between rivers and near-shore ocean waters, where tidal action and river flow mix fresh and salt water. Such areas include bays, mouths of rivers, salt marshes, and lagoons. These brackish water ecosystems shelter and feed marine life, birds, and wildlife.

Executive agent
Executive agents (EA) are individuals designated by the Office of the Secretary of Defense (OSD) and are responsible for development, maintenance, oversight of and compliance with the Final Governing Standards (FGS) for specified foreign nations. Executive agents are also responsible for consulting with host-nation authorities on environmental issues, as required to maintain effective cooperation on environmental matters, and should coordinate with other DOD components in the specific nation.

Explosives or munitions emergency response
All immediate response activities by an explosives and munitions emergency response specialist to control, mitigate, or eliminate the actual or potential threat encountered during an explosives or munitions emergency. An explosives or munitions emergency response may include in-place, render-safe procedures, treatment or destruction of the explosives or munitions, and/or transporting those items to another location to be rendered safe, treated, or destroyed. Any reasonable delay in the completion of an explosives or munitions emergency response caused by a necessary, unforeseen, or uncontrollable circumstance will not terminate the explosives or munitions emergency. Explosives and munitions emergency responses can occur on either public or private lands and are not limited to responses at Resource Conservation and Recovery Act (RCRA) facilities. (Military Munitions Rule, 40 CFR 260.10).

Extremely hazardous substance
A substance included in appendix A or B of 40 CFR 355.

Facility
Facilities include buildings, structures, public works, equipment aircraft, vessels, and other vehicles and property under control of, or constructed or manufactured for leasing to the Army.

Federal
Of or pertaining to a department, agency, or instrumentality of the Federal Government of the United States.

Federal agency official
An individual designated by the head of any department, agency, or instrumentality of the United States (excluding the Smithsonian Institution) as having specific authority to represent the organization on official matters.

Federal Land Manager
An individual having specific authority to manage any land other than tribal lands which are controlled or owned by the United States, including lands selected by but not yet conveyed to Alaska Native Corporations and groups organized pursuant to the Alaska Native Claims Settlement Act of 1971.

Federally-listed Species
(see species designations)

Federally-owned treatment works (FOTW)
A facility that is owned and operated by a department, agency, or instrumentality of the Federal government treating wastewater, a majority of which is domestic sewage, prior to discharge in accordance with a permit issued under section 402 of the Federal Water Pollution Control Act (FWPCA).

Fees
Monetary charges by a regulator for some type of service. Examples include permits, registrations, and inspections.

Final Governing Standards (FGS)
The FGS are a comprehensive set of country-specific substantive environmental provisions, typically technical limitations on effluent, discharges, etc., or a specific management practice, with which all DOD components must comply in a given foreign nation. The FGS are developed by the DOD designated executive agent (EA) via a comparative analysis of standards in the Overseas Environmental Baseline Guidance Document (OEBGD), generally applicable host-nation laws, and relevant international agreements. The FGS generally include the standards determined by the EA to be more protective of human health and the environment.

Finding of suitability for early transfer (FOSET)
The primary purpose of a finding of suitability for early transfer (FOSET) is to document that the property is suitable for early transfer for the use intended by the transferee, and the intended use is consistent with protection of human health and the environment. A FOSET must demonstrate that the deed or other agreement proposed to govern the transfer between the United States and the transferee of the property contains the appropriate response action assurances specified in CERCLA Section 120(h)(3)(C)(ii): the Federal agency requesting the deferral has provided

notice, by publication in a newspaper of general circulation in the vicinity of the property, of the proposed transfer and of the opportunity for the public to submit, within a period of not less than 30 days after the date of the notice, written comments on the suitability of the property for transfer; and the deferral and the transfer of the property will not substantially delay any necessary response action at the property.

Finding of suitability to lease (FOSL)
A finding of suitability to lease (FOSL) is the document that conveys the result of the evaluation process used to determine that DOD property is environmentally suitable to lease. The determination of suitability to lease property is made only when the intended use of the leased property is consistent with protection of human health and the environment and will not interfere with any existing or planned environmental restoration activities. A FOSL is not required, unless deemed necessary by the DOD Component, for easements for use of real property. The FOSL and the process for preparing one are similar to the FOST and its preparation process. Similar to the FOST, preparation of a FOSL does not obviate the need to comply with the National Environmental Policy Act (NEPA).

Finding of suitability to transfer (FOST)
The primary purpose of a finding of suitability to transfer is to document that the property is environmentally suitable for transfer by deed under CERCLA and DOD FOST Guidance. The FOST process was developed to meet the statutory and regulatory requirements associated with transferring Federal real estate. A FOST must demonstrate that either the property is uncontaminated or that all necessary remediation has been completed or is in place and operating properly and successfully. These demonstrations are necessary to support the deed covenant required by CERCLA Section 120(h) that all remedial action necessary to protect human health and the environment has been taken. In addition, under CERCLA Section 120(3)(A), a deed to transfer property by the United States must contain (1) notice of the type and quantity of hazardous substances, (2) notice of the time at which such hazardous substance, storage, release, or disposal took place, and (3) a description of any remediation action taken.

Fine
Any monetary penalty or assessment levied for violation of any environmental law or regulation.

Forest management
The science, the art and the practice of managing the natural resources that occur on or in association with forest lands to achieve installation and Army goals.

Forest products
All plant materials in wooded areas that have commercial value.

Formal consultation
The process between the USFWS or NOAA–Fisheries and a Federal agency that commences with the Federal agency's written request for consultation and concludes with the issuance of a BO from the USFWS or NOAA–Fisheries.

Formerly used defense sites (FUDS)
A FUDS is defined as a facility or site (property) that was under the jurisdiction of the Secretary of Defense and owned by, leased to, or otherwise possessed by the United States at the time of actions leading to contamination by hazardous substances. By DERP policy, the FUDS program is limited to those real properties that were transferred from DOD control prior to 17 October 1986. FUDS properties can be located within the 50 States, District of Columbia, Territories, Commonwealths, and possessions of the United States.

Garrison commander (GC)
The GC is a military officer, Lieutenant Colonel or Colonel, selected by the Department of the Army. The GC commands the garrison, and is responsible for day-to-day operations to maintain living and working conditions for all personnel on the installation. The GC is the lead for base support operations management for the senior mission commander/installation commander (SMC/IC). The GC is rated by the Regional Director and senior rated by the mission commander, either the IC or SMC, as applicable. The GC is IMCOM's executive agent at installation level, providing IMCOM services and obtaining resources through IMCOM channels. The GC also provides continuity of installation command during mission activity deployments. The GC may be appointed as Summary Courts Martial convening authority or Special Courts Martial convening authority for the installation and its supported area. In some cases, the senior IMCOM official on an installation may be a civilian, the Garrison Manager (GM). A GM, as the civilian equivalent of a GC, has the same responsibility and authority as the military counterpart, with the exception of Uniform Code of Military Justice (UCMJ) and command authority, as defined by AR 600–20 (para 1–5a). The GC/GM:

a. Commands the U.S. Army Garrison.
b. Provides IMCOM services in accordance with respective guidance and common levels of support.

c. Coordinates and integrates the delivery of garrison support activity services.

d. Prioritizes requirements and support operations.

Generator

See Hazardous waste generator.

Grounds

This definition is used to classify installation acreage according to the level of grounds maintenance required and includes all land and water acreage for which an installation commander has responsibility (including satellite areas). Grounds are grouped into the following three categories:

a. Improved grounds. This category includes acreage on which intensive grounds maintenance activities must be planned and performed annually as fixed requirements. Activities include mowing, irrigation, fertilization, cultivation, aeration, seeding, sodding, spraying, pruning, trimming; weed, dust and erosion control; drainage, planting for landscape effect, wind and sound abatement, and other intensive practices.

b. Semi-improved grounds. This category includes areas on which periodic recurring grounds maintenance is performed but to a lesser degree than on improved grounds. Practices normally include such cyclic variables such as soil sterilization, weed and brush control, drainage maintenance, mowing for fire protection and major land repair/restoration/rehabilitation that may result from mission activities. Semi-improved grounds acreage may be combined with improved grounds acreage for reporting purposes only when two categories of grounds (improved and other than improved) are used.

c. Unimproved grounds. All other acreage (including water areas, areas under buildings and surfaced areas) not classified as improved or semi-improved. Practices and intervals of attention are generally unpredictable such as might evolve from flood, fire, insects, or disease epidemics

Groundwater

Water contained within the earth's subsurface that is under pressure equal to or greater than atmospheric pressure.

Habitat

An area where a plant or animal species lives, grows, and reproduces, and the environment that satisfies any of their life requirements.

Harmful discharge (of oil)

Harmful discharges are such that they do at least one of the following:

a. Violate applicable water quality standards.

b. Cause a film or sheen upon, or discoloration of, the surface of the water or adjoining shorelines.

Hazardous chemical

A hazardous chemical is defined in 40 CFR 355 and 370 which implement the Emergency Planning and Community Right-to-Know Act (EPCRA). Those sections define hazardous chemical as defined under Paragraph (c), Section 1200, Part 1910, Title 29, Code of Federal Regulations (29 CFR 1910.1200), except that such term does not include the following substances:

a. Any food, food additive, color additive, drug, or cosmetic regulated by the Food and Drug Administration.

b. Any substance present as a solid in any manufactured item to the extent exposure to the substance does not occur under normal conditions of use.

c. Any substance to the extent it is used for personal, family, or household purposes, or is present in the same form and concentration as a product packaged for distribution and used by the general public.

d. Any substance to the extent it is used in a research laboratory or a hospital or other medical facility under the direct supervision of a technically qualified individual.

e. Any substance to the extent it is used in routine agricultural operations or is a fertilizer held for sale by a retailer to the ultimate customer.

Hazardous material

A material as defined by Federal Standard, Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities ((FED–STD–313C, 3 April 96) (The General Services Administration (GSA) has authorized the use of this Federal standard by all Federal agencies)).

a. Any item or chemical which is a "health hazard" or "physical hazard" as defined by the Occupational Safety and Health Act (OSHA) in 29 CFR 1910.1200, which includes the following:

(1) Chemicals which are carcinogens, toxic, or highly toxic agents, reproductive toxins; irritants, corrosives, sensitizers, nephrotoxins, neurotoxins, agents which act on the hematopoietic system, and agents which damage the lungs, skin, eyes, or mucus membranes.

(2) Chemicals which are combustible liquids, compressed gases, explosives, flammable liquids, flammable solids, organic peroxides, oxidizers, pyrophorics, unstable (reactive) or water-reactive.

(3) Chemicals which in the course of normal handling, use, or storage operations may produce or release dusts, gases, fumes, vapors, mists or smoke which have any of the above characteristics.

b. Any item or chemical which is reportable or potentially reportable or notifiable as inventory under the requirements of the Hazardous Chemical Reporting (40 CFR 370), or as an environmental release under the reporting requirements of the Toxic Chemical Release Reporting: Community Right To Know (40 CFR 372), which include chemicals with special characteristics which in the opinion of the manufacturer can cause harm to people, plants, or animals when released by spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other receptacles).

c. Any item or chemical which, when being transported or moved, is a risk to public safety or an environmental hazard and is regulated as such by one or more of the following:

(1) Department of Transportation Hazardous Materials Regulations (49 CFR 100–180).

(2) International Maritime Dangerous Goods Code of the International Maritime Organization.

(3) Dangerous Goods Regulations of the International Air Transport Association.

(4) Technical Instructions of the International Civil Aviation Organization.

(5) U.S. Air Force Joint Manual, Preparing Hazardous Materials for Military Air Shipments (AFJMAN 24–204).

Hazardous substance

A substance as defined by section 101(14) of CERCLA.

a. For the purposes of this regulation a hazardous substance is any of the following:

(1) Any substance designated pursuant to section 311(b)(2)(A) of the CWA.

(2) Any element, compound, mixture, solution, or substance designated pursuant to section 102 of the CAA.

(3) Any HW having the characteristics identified under the RCRA.

(4) Any toxic pollutant listed under 15 USC 2601, et seq. (TSCA).

(5) Any hazardous air pollutant (HAP) listed under section 112 of the CAA.

(6) Any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action pursuant to subsection 7 of 15 USC 2601, et seq. (TSCA).

b. The term does not include:

(1) Petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance in paragraph a above.

(2) Natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures or natural gas and such synthetic gas usable for fuel).

(3) A list of hazardous substances is found in Section 4, Part 302, Title 40, Code of Federal Regulations (40 CFR 302.4).

Hazardous waste (HW)

A waste identified in Section 3, Part 261, Title 40, Code of Federal Regulations (40 CFR 261.3) or applicable foreign law, rule, or regulation (see also solid waste).

Hazardous waste disposal

As defined in 40 CFR 260.10, disposal means the discharge, deposit, injection, dumping, spilling, leaking, or placing of any solid waste or HW into or on any land or water so that such solid waste or HW or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including ground waters.

Hazardous waste generator

The HW generator is defined in 40 CFR 260.10 and DOD 4715.5–G (OEBGD) C6.2.3. Any person or activity (unit, organization, or tenant), whose act or process produces HW identified or listed in part 261.10 or whose act first causes a HW to become subject to regulation. For reporting purposes in the Army, the GC is considered the generator. For fiscal purposes, the generator is the unit.

Hazardous waste storage

As defined in 40 CFR 260.10, the holding of HW for a temporary period, at the end of which the HW is treated, disposed of, or stored elsewhere.

Hazardous waste treatment

As defined in 40 CFR 260.10, any method, technique, or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any HW so as to neutralize such waste, or so as to recover

energy or material resources from the waste, or so as to render such waste non-hazardous or less hazardous; safer to transport, store, or dispose of; or amenable for recovery, amenable for storage, or reduced in volume.

Historic district (under NHPA)
A geographical area encompassing a number of historic properties (see historic property below).

Historic property (under NHPA)
Any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register of Historic Places (NRHP) maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian Tribe or Native Hawaiian organization and that meet the National Register criteria.

Inadvertent discovery (under NAGPRA)
Inadvertent discovery means the unanticipated encounter or detection of human remains, funerary objects, sacred objects, or objects of cultural patrimony found under or on the surface of Federal or tribal lands.

Incidental take
For 16 USC Chapter 35 (ESA) incidental take is defined as "take of a listed fish or wildlife species that results from , but is not the purpose of, carrying out an otherwise lawful activity by the Federal Agency or applicant (50 CFR 402. 02).

Indian Tribe
Indian Tribe means an Indian or Alaska Native Tribe, band, nation, pueblo, village, or community that the Secretary of the Interior acknowledges to exist as an Indian Tribe pursuant to the Federally Recognized Indian Tribe List Act of 1994, 25 USC 479a.

Inspection
Any visit by a regulatory agency, with legal authority, for the purpose of assessing regulatory compliance.

Installation
An aggregation of contiguous, or near contiguous, real property holdings commanded by a centrally-selected commander. Installations represent management organizations. An installation may be made of one or more sites. In addition, two types of "virtual" installations exist within the Army. The Army National Guard has virtual installations, identified as each state commanded by the Adjutant General, under which are Readiness Centers or sites. Each Army Reserve regional readiness command is, likewise, defined as a virtual installation under which Reserve centers are identified as sites.

Installation Commander (IC)
The IC is usually the senior mission commander (SMC) residing on the installation or in the surrounding community. The IC is responsible for mission activity services. The IC may be appointed as General Courts Martial convening authority for the installation and its support area.

a. The IC's installation management responsibilities include:

(1) Senior rate the GC.

(2) Act as principal customer advocate to the GC.

(3) Serve as the senior Army spokesperson to the surrounding community.

(4) Provide installation management services that are the responsibility of the senior mission activity.

(5) Oversee and prioritize force protection implementation.

(6) Approve priorities for training and training support services, mission support, MCA projects, well being programs and force protection.

(7) Approve installation-level policies for Soldiers in accordance with respective Army regulations.

b. The IC's responsibilities may change in instances where the IC is remotely located away from the installation and does not have day-to-day oversight of installation activities.

Installation corrective action plan (ICAP)
A comprehensive plan developed by each installation that lists Environmental Performance Assessment System (EPAS) findings, proposed corrective actions, and the status of the findings. Installations are required to enter the ICAP in the EPAS software, and provide a copy to their commanders for review every year.

Installation Engineer
The installation level engineer responsible for the management, operation and maintenance of all real property to include: buildings, pavements, utility systems, natural and cultural resources, and environmental programs.

Installation Pest Management Coordinator
The individual officially designated by the installation commander to coordinate and oversee the installation pest management program and installation pest management plan. Pest management coordinators will be certified as pesticide applicators if their job responsibilities require them to apply or supervise the use of pesticides.

Integrated cultural resources management plan (ICRMP)
A 5-year plan developed and implemented by an installation commander to provide for the management of cultural resources in a way that maximizes beneficial effects on such resources and minimizes adverse effects and impacts without impeding the mission.

Integrated natural resources management plan (INRMP)
The installation commander's adaptive plan for managing natural resources to support and be consistent with the military mission while protecting and enhancing those resources for multiple use, sustainable yield, and biological integrity. The management of natural resources is a series of processes over a long period. The INRMP provides incremental steps to achieve those long-term goals, and normally includes a five–year schedule of activities.

Integrated pest management
Integrated pest management (IPM) is a sustainable approach to managing pests by combining biological, cultural, physical, and chemical tools in a way that minimizes economic, health, and environmental risks.

Integrated pest management plan
The IPMP is a long-range, comprehensive, planning and operational document required by DODI 4150.7 to ensure the establishment and maintenance of a safe, effective, and environmentally sound program for preventing and controlling damage to human health, facilities, infrastructure, materiel, or the environment that may be caused by problem species of insects, plants, animals, etc.

Integrated solid waste management
A practice using several alternative waste management techniques to manage and dispose of specific components of the municipal solid waste stream. Waste management alternatives include source reduction, recycling, composting, energy recovery, and land filling. (From EPA, Decision Maker's Guide, Volume II).

Integrated Training Area Management (ITAM) Program
The Army program for the management and sustainment of military training and testing lands, and other land uses which provides for: standardized range and training land assessment (RTLA) to inventory and monitor land; rehabilitation, revegetation and maintenance technologies; sustainable range awareness; decision support systems; and integration of military training requirements with land capabilities.

International agreement
An international agreement is a multilateral or bilateral treaty, a base rights or access agreement, a Status of Forces Agreement (SOFA), including practices and standards established pursuant to such agreement.

Invasive species
An alien species whose introduction causes or is likely to cause economic or environmental harm or harm to human health. Alien species means with respect to a particular ecosystem, any species, including its seeds, eggs, spores, or other biological material capable of propagating that species, that is not native to that ecosystem.

International Organization for Standardization (ISO) 14000/14001
ISO 14000 is a group of voluntary international standards addressing environmental management systems, environmental auditing, environmental labeling, environmental performance evaluation, and life cycle assessments. The standards were developed by the International Organization for Standardization (ISO) and are commonly referred to as the ISO 14000 series. The series provides an organization with a systematic approach to environmental management. ISO 14001 provides the detailed specifications and requirements for an environmental management system, or EMS. A complete copy of the standard is available on the Defense Environmental Network and Information Exchange (DENIX).

Jeopardize the continued existence of
To engage in an action that reasonably would be expected, directly or indirectly, to reduce appreciably the likelihood of

both the survival and recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species.

Land Condition Trend Analysis (LCTA) methods
Standardized land (soil, vegetation, topographic and wildlife) inventory and monitoring procedures used for the analysis and comparability of Army lands over time.

Land management
The planning and execution of programs to improve, utilize and maintain all land and water areas for the greatest long-term net public benefit while supporting the military mission. Included are subordinate land uses that are mutually compatible and consistent with maintaining environmental qualities.

Land use planning zone (LUPZ)
A contour that is used to account for days of higher than average operations. Noise sensitive land uses are compatible within the LUPZ.

Leak (release) detection system
A system capable of detecting the failure of either the primary or secondary containment structure or the presence of a release of product waste or accumulated liquid in the secondary containment structure. Such a system must employ operational controls (for example, daily visual inspections for releases into the secondary containment system of the aboveground tank) or consist of an interstitial monitoring device designed to continuously and automatically detect the failure of the primary or secondary containment structure in the presence of a release of HW into the secondary containment structure.

Lease
A written agreement which conveys a possessory interest in real property, usually exclusive, for a period of time for a specified purpose.

Lifecycle cost analysis
Determination of expenses incurred of a product or process over its entire existence. It includes all the cost of mining the raw materials to the eventual destruction and/or disposal of the product or process.

Listed hazardous substance
A substance designated under any of the following (any HW listed under or having the HW characteristics identified according to section 3001 of the RCRA & any substance listed under section 102 of CERCLA):
a. Sections 307(a) and 311(b)(2)(A) of CWA.
b. Section 112 of CAA.
c. Section 7 of 15 USC 2601, et seq. (TSCA).

Listed species
Any species of fish, wildlife, or plant which has been determined to be endangered or threatened under section 4 of 16 USC 35 (ESA). Listed species are found in 50 CFR 17.11–17.12.

Low-level radioactive waste (LLRW)
Radioactive waste not classified as high level radioactive waste, transuranic waste, or a byproduct material as defined in subsection 11(i)(2) of Section 2011, Title 42, United States Code, (42 USC 2011, Atomic Energy Act). See also radioactive material below.

Materiel
All items (including ships, tanks, self propelled weapons, aircraft, etc., and related spares, repair parts, and support equipment, but excluding real property, installations, and utilities) necessary to equip, operate, maintain, and support military activities without distinctions as to its application for administrative or combat purposes.

Measure of merit (MOM)
An objective criterion used to measure progress in achieving established DOD environmental performance goals.

Memorandum of agreement (under NHPA)
The document that records the terms and conditions agreed upon to resolve the adverse effects of an undertaking upon historic properties.

Memorandum of understanding (MOU)
A written document executed by the parties which establishes policies or procedures of mutual concern. It does not require either party to obligate funds and does not create a legally binding commitment.

Military munitions
Military munitions means all ammunition products and components produced for or used by the armed forces for national defense and security, including ammunition products or components under the control of the DOD, the USCG, the Department of Energy, and the ARNG. The term includes confined gaseous, liquid, and solid propellants, explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries, including bulk explosives and chemical warfare agents, chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges, and devices and components thereof. The term does not include wholly inert items, improvised explosive devices, and nuclear weapons, nuclear devices, and nuclear components, except that the term does include non-nuclear components of nuclear devices that are managed under the nuclear weapons program of the Department of Energy after all required sanitization operations under 42 USC 2011 (Atomic Energy Act) have been completed. (10 USC 2710(e)(3)(A) and (B)).

Military munitions response
DOD response actions (removal or remedial) to investigate and address the explosives safety, human health, or environmental risks presented by munitions and explosives of concern (MEC), discarded military munitions (DMM) and MC. (The response could be as simple as a notification to the community with an education program about the hazards posed by military munitions and how to avoid them, or as complicated as a long-term response action involving sophisticated technology, specialized expertise, and significant resources.)

Monitoring
The assessment of emissions and ambient air quality conditions. The following monitoring techniques are used:
a. Emission estimates.
b. Visible emission readings.
c. Diffusion or dispersion estimates.
d. Sampling or measurement with analytical instruments.

Multiple use
The integrated management of all natural resources, each with the other, to achieve the optimum use and enjoyment while maintaining the environmental qualities, ecological relationships and aesthetic values in proper balance.

Municipal Separate Storm Sewer System (MS4)
Any conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) owned by a state, city, local municipality, or Federal government and that is designed for the collection and conveyance of storm water, which is not combined with a sanitary sewer and not part of a publicly-owned treatment works (POTW).

Munitions and explosives of concern (MEC)
This term, which distinguishes specific categories of military munitions that may pose unique explosives safety risks, means:
a. UXO, as defined in 10 USC 101(e)(5)(A);
b. Discarded military munitions (DMM), as defined in 10 USC 2710(e)(2); or
c. MC (e.g., trinitrotoluene (TNT), cyclotrimethylenetrinitramine (RDX)), as defined in 10 USC 2710(e)(3), present in high enough concentrations to pose an explosive hazard.

Munitions constituents (MC)
Any material originating from UXO, discarded military munitions (DMM), or other military munitions, including explosive and non-explosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions. (10 USC 2710)

Munitions response
Response actions, including investigations, removal actions, and remedial actions to address the explosives safety, human health, or environmental risk presented by MEC, DMM, or MC.

National Environmental Policy Act (NEPA)
U.S. statute that requires all Federal agencies to consider the potential effects of proposed actions on the human and natural environment.

National Pollutant Discharge Elimination System (NPDES) permit
A permit issued pursuant to section 402 of the FWPCA. A NPDES permit is required for the discharge of pollutants from any point source into waters of the United States.

National Register of Historic Places (NRHP)
The nation's inventory of known historic properties that have been formally listed by the National Park Service (NPS). The NRHP is administered by the NPS on the behalf of the Secretary of the Interior. National Register listings include districts, landscapes, sites, buildings, structures, and objects that meet the set of criteria found in 36 CFR 60.4

National Response Team (NRT)
A team of representatives from the primary and advisory agencies that serves as the national policy-making body for planning and preparedness actions to prevent and minimize accidental pollution discharges.

Native American Graves Protection and Repatriation Act (NAGPRA) Items
Human remains, funerary objects, sacred objects, or objects of cultural patrimony that are excavated intentionally from or inadvertently discovered on Federal or tribal lands.

Native Hawaiian Organization
Any organization that serves and represents the interests of, has a primary stated purpose to provide services to, and has expertise in Native Hawaiians and Native Hawaiian affairs. Such organizations must include the Office of Hawaiian Affairs and Hui Malama I Na Kupuna 'O Hawaii Nei.

Natural resources
The viable and/or renewable products of nature and their environments of soil, air, and water. Included are the plants and animals occurring on grasslands, rangelands, croplands, forests, lakes, and streams.

Noise zones I, II, and III
Land use planning areas for the purpose of maintaining uses that are compatible with the existing and future noise environments.

Non-Federal
Any entity that is not part of a department, agency, or instrumentality of the Federal government of the United States.

Non-point source
Diffuse sources of pollution (that is, without a single point of origin or not introduced into a receiving water from a discrete conveyance). Pollutants are generally carried off the land by stormwater or snow melt. Common non-point sources include agriculture, forestry, urban, construction, dams, channels, land disposal, saltwater intrusion, and city streets.

Noxious weed
Plant species identified by Federal or State agencies as requiring control or eradication.

Off-road vehicle (ORV)
A vehicle designed for travel on natural terrain. The term excludes a registered motorboat confined to use on open water and a military, emergency, or law enforcement vehicle during use by an employee or agent of the Government or one of its contractors in the course of employment or agency representation.

Oil
Oil or petroleum products of any kind or in any form, and oil mixed with wastes other than dredged spoil.

On-scene coordinator (OSC)
The Federal official pre-designated by EPA or USCG to coordinate and direct Federal responses under subpart D, and removals under subpart E, of 40 CFR 300 (National Oil and Hazardous Substances Pollution Contingency Plan); or

a. The DOD or U.S. Department of Energy official designated to coordinate and direct the removal actions from releases of hazardous substances, pollutants, or contaminants where either the release is on, or the sole source of the release is from, any facility or vessel under the jurisdiction, custody, or control of their departments respectively; or,

b. The official designated by any other Federal department or agency to coordinate and direct removal actions other

than emergencies where either the release is on, or the sole source of the release from, any facility or vessel under the jurisdiction, custody, or control of those departments and agencies.

Open burning
The combustion of any material without the characteristics below:

a. Control of combustion air to maintain adequate temperature for efficient combustion.

b. Containment of the combustion reaction in an enclosed device to provide enough residence time and mixing for complete combustion.

c. Control of emission of the gaseous combustion products.

Operating tempo (OPTEMPO)
Operating tempo is the pace of unit training that the Army believes it needs to conduct to maintain its fleet of tracked and wheeled vehicles at a prescribed readiness level. Stated another way, it is a resource gauge the Army measures to indicate the amount of miles or operating hours required to execute a unit commanders training strategy to achieve a given specific readiness level.

Operational noise
The outdoor noise environment consisting of the noise, including ambient noise, from all sources. The noise environment of the work place is not considered operational noise.

Operational range
A range that is under the jurisdiction, custody, or control of the Secretary of Defense and that is used for range activities; or although not currently being used for range activities, that is still considered by the Secretary to be a range and has not been put to a new use that is incompatible with range activities (10 USC 101(e)(3)(A) and (B)). Also includes "military range," "active range," and "inactive range" as those terms are defined in 40 CFR 266.201.

Operational readiness
The umbrella term and supporting program that encompasses all the resources required of a unit to maintain readiness standards.

Organization
Company, corporation, authority, or institution, or part or combination thereof, whether incorporated or not, public or private, that has its own functions and administration.

Outdoor recreation
Recreational program, activity, or opportunity that is dependent on the natural environment. Examples are hunting, fishing, trapping, picnicking, bird-watching, ORV use, hiking and interpretive trails use, wild and scenic river use, and underdeveloped camping areas. Developed or constructed activities such as golf courses, lodging facilities, boat launching ramps, and marinas are not included.

Outgrant
Reference AR 405–80 for specific definitions. A real property legal document which conveys or gives the right to use Army-controlled real property, including leases, permits, licenses, and easements.

Overseas Environmental Baseline Guidance Document (OEBGD)
A set of objective criteria and management practices developed by the DOD, to protect human health and the environment at overseas installations, and to be used by the designated EA during the comparative analysis process used to develop FGS. In addition, the OEBGD contains implementing guidance for executive agents, garrison commanders and DOD components.

Permanent installation
An aggregation of real property holdings under the jurisdiction of the DOD, controlled by and at which an Active Army unit or activity is permanently assigned.

Pest management
The prevention and control of animal and insect disease vectors and other pests that may adversely affect the DOD mission or military operations; the health and well-being of people; or structures, materiel, or property.

Pest management consultant
Personnel who meet the DOD educational and experience criteria for PPMP and who serve at IMCOM, USACHPPM regions, National Guard Bureau (NGB) and higher Army-levels of command. Pest management consultants interpret

and establish program standards for installation programs and are responsible for evaluating and providing technical guidance to support these programs.

Pest management quality assurance evaluator
Personnel technically qualified in the management and oversight of pesticide applicators and pest management contracts by training, per DOD standards, which protect the Government's interest through on-site performance evaluation of commercial contracts involving pest management or other contracts that involve the use of pesticides. See AR 5–20.

Pesticide
Any substance or mixture of substances, including chemical biological control agents, that may prevent, destroy, repel, or mitigate pests and are specifically labeled for use by the EPA. Also, any substance or mixture of substances used as a plant regulator, defoliant, desiccant, disinfectant, or biocide.

Pesticide security
The prevention of intrusion to areas used to store pesticides and other toxic chemicals to ensure that they have appropriate security protections to prevent intruder access to equipment used in mixing, loading, and applying pesticides. Pesticide applicators must have proper authorization and identification.

Pests
Arthropods, birds, rodents, nematodes, fungi, bacteria, viruses, algae, snails, marine borers, snakes, weeds, mollusks, and other organisms (except for excluding microbial/bacterial/viral disease pathogens, but including organisms that may transmit human or animal disease-causing organisms) that adversely affect readiness, military operations, or the well-being of personnel and animals; attack or damage real property, supplies, equipment, or vegetation; or are otherwise undesirable.

Point source
Any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged.

Pollutant (water)
Dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, municipal and agricultural waste discharged into water. A broad term which generally encompasses most material which is added to the water constitutes a pollutant.

Pollution
See environmental pollution.

Pollution prevention
Use of processes, materials, or products that avoid, reduce, or control pollution, which may include recycling, treatment, process changes, control mechanisms, efficient use of resources and material substitution.

Pollution prevention opportunity assessment
Provides the technical and economic information necessary for selecting appropriate pollution prevention techniques.

Pollution prevention plan
A plan developed and maintained by an installation commander that sets forth the installation's contribution to the goals and requirements established by EO 13423, including reductions in use and release of toxic chemicals and ODS and in the generation of HW.

Prescribed burning
Skillful application of fire to natural fuels under conditions of weather, fuel moisture, soil moisture, etc., to allow confinement of the fire to a predetermined area while producing the intensity of heat and rate of spread required to accomplish certain planned benefits. These benefits may include all or one or more objectives of silviculture, wildlife management, grazing, hazard reduction, etc. Its objective is to employ fire scientifically to realize maximum net benefits at minimum damage (if any) and acceptable cost.

Pretreatment (wastewater)
The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant

properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a treatment works.

Pretreatment standard
Any regulation containing pollutant discharge limits promulgated by the EPA in accordance with section 307(b) and (c) of the FWPCA, which applies to Industrial Users. This includes prohibitive discharge limits established pursuant to Section 5, Part 403, Title 40, Code of Federal Regulations (40 CFR 403.5).

Primary agencies (for NRT)
The Federal departments or agencies comprising the National Response Team (NRT); i.e., the Departments of Commerce, Interior, Transportation, and Defense; and the EPA. These agencies have primary responsibility and resources to promote effective operation of the national oil and hazardous substances pollution contingency plan.

Primary drinking water standards
Standards for those contaminants in drinking water, which may cause an adverse health effect on the consumer. In the form of maximum contaminant levels, treatment, techniques, or action levels, these standards are federally enforceable.

Proactive
Taking the initiative by acting rather than reacting to events.

Professional pest management professional
The DOD military officers commissioned in the Medical Service or Biomedical Sciences Corps or DOD civilian personnel with college degrees in biological or agricultural sciences that are in a current assignment that includes pest management responsibilities exercised regularly. The DOD civilian employees also will meet Office of Personnel Management qualification standards. Based on assignment, some PPMP are Certifying Officials.

Programmatic agreement (PA) (under NHPA)
A document that records the terms and conditions agreed upon to resolve the potential adverse effects of a Federal agency program, complex undertaking or other situations in accordance with 36 CFR 800.14(b), NHPA.

Proponent
Proponent identification depends on the nature and scope of a proposed action. Any Army organization may be a proponent (for example, for a project, program, or regulation). In general, the proponent is the unit, element, or organization that is responsible for initiating and/or carrying out the proposed action. The proponent is responsible for programming and/or securing funding for such actions.

Proposed species
A fish, wildlife, or plant species that is proposed in the Federal Register to be listed as endangered or threatened under 16 USC 35 (ESA).

Publicly-owned treatment works (POTW)
Any device or system used in the treatment (including recycling and reclamation) of municipal sewage or industrial wastes of a liquid nature which is owned by a State or municipality.

Public water systems
Systems that provide water for human consumption through pipes or other constructed conveyances to at least 15 service connections or serves an average of at least 25 people for at least 60 days a year. There are three types of public water systems:

a. Community Water System (CWS): A public water system that supplies water to the same population year-round.

b. Non-Transient Non-Community Water System (NTNCWS): A public water system that regularly supplies water to at least 25 of the same people at least six months per year, but not year-round. Some examples are schools, factories, office buildings, and hospitals which have their own water systems.

c. Transient Non-Community Water System (TNCWS): a public water system that does not regularly supply water to at least 25 of the same persons over six months per year.

Quarantine
A restraint placed upon the activities or communication of persons or the transport of goods designed to prevent the spread of disease or pests.

Radioactive material
Any material or combination of materials that spontaneously emit ionizing radiation.

Range
A designated land or water area that is set aside, managed, and used for range activities of the DOD. The term includes firing lines and positions, maneuver areas, firing lanes, test pads, detonation pads, impact areas, electronic scoring sites, buffer zones with restricted access, and exclusionary areas. The term also includes airspace areas designated for military use in accordance with regulations and procedures prescribed by the Administrator of the Federal Aviation Administration.

Range activities
Research, development, testing, and evaluation of military munitions, other ordnance, and weapons systems; and the training of members of the armed forces in the use and handling of military munitions, other ordnance, and weapons systems.

Real property
This includes the definition for real property found in the Federal Property Management Regulations, 41 CFR 101–47. 103.12.

Reclamation
Regeneration of a material, or processing of a material to recover a usable product. Examples include recovery of lead from spent batteries, or the regeneration of spent solvents.

Recovery
The improvement in the status of listed species to the point at which listing is no longer appropriate under the criteria set out in section 4(a)(1) of 16 USC 35 (ESA).

Recovery plan
A plan developed by the USFWS or NOAA–Fisheries, as required by 16 USC 35 (ESA), for the conservation, survival, and recovery of a listed species.

Recreational waters
Recreational waters are water bodies that are commonly used for recreational purposes. They include, but are not necessarily limited to, swimming pools, water parks, hot tubs, lakes, rivers, and the ocean.

Recycling
The process by which materials otherwise destined for disposal are collected, reprocessed, or remanufactured, and are reused. A distinction exists between onsite recycling (that is, where a waste is discharged from a process, but not from the installation, for recycling) and off-site recycling (that is, were the waste is transported from the generating activity to an off-site recycler).

Regional administrator
The regional administrator of the EPA regional office in which the subject property is located.

Regional Response Team (RRT)
A team of regional Federal representatives of the primary or selected advisory agencies. It acts within its region as an emergency response team that performs functions like those of the NRT.

Regulated tank
A tank constructed above, below, or on the ground, which is regulated by Federal or State authorities because it contains an oil or hazardous substance. Above ground tank requirements are found at 40 CFR 110, underground storage tank (UST) requirements at 40 CFR 280. Exceptions for heating oil tanks are found at 40 CFR 280.12. State regulations may be more stringent.

Release
A discharge of one or more hazardous substances into the environment by any means. Excluded are minor releases within the workplace, emissions from engine exhaust, and normal applications of fertilizer.

Reportable spill or event
A release of a reportable quantity of oil or hazardous substance into the environment. The EPA National Response Center (NRC) is to be notified immediately.

a. For oil (defined by 40 CFR 110): A discharge of such quantities of oil into or upon the navigable waters of the United States, its adjoining shorelines, or the contiguous zone so as to meet the qualifications listed in harmful discharge (of oil) into navigable waters or into or beyond the contiguous zone above.

b. For hazardous substances: Any release of one or more reportable substances in reportable quantities into the environment.

Response action
The cleanup or removal of released hazardous substances from the environment. This includes actions necessary in the event of the threat of release of hazardous substances into the environment; such actions as may be necessary to monitor, assess, and evaluate the release or threat of release of hazardous substances; the disposal of removed material; or the taking of such other actions as may be necessary to prevent, minimize, or mitigate damage to the public health or welfare or to the environment, which may otherwise result from a release or threat of release.

Resource recovery
A term describing the extraction and use of materials and energy from the waste stream. The term is sometimes used synonymously with energy recovery.

Restoration Advisory Board (RAB)
A RAB is a forum of representatives of the DOD, EPA, State and local government, and public representative(s) of the potentially affected community. RAB members can provide input to the Army's environmental restoration program (ERP) at both operating and closing or realigning installations. The RAB reflects the diverse makeup of the community, gives all stakeholders the opportunity to participate in the cleanup process, and make their views known to decision makers.

Reuse
A material is used or reused if it is either:

a. Used as an ingredient (including use as an intermediate) in an industrial process to make a product (for example, distillation bottoms from one process used as a feedstock in another process).

b. Used in a particular function or application as an effective substitute (for example, spent battery acid accumulated by the DRMO could be used in industrial waste-water treatment facilities to precipitate phosphorous, and act as a sludge conditioner).

Risk assessment
Environmental risk assessment is the formal systematic evaluation of any environmental hazard that may pose a risk to human health or the environment. It may include an on-site investigation to determine the existence, nature, severity, and location of hazards and options for reducing the hazards.

Sacred site
Any site that traditional Native American religious leaders use for the practice of traditional Native American religions by their present-day adherents.

Secondary drinking water standards
Standards for those contaminants in drinking water, which may affect the aesthetic quality of the water, but have no adverse health effects. In the form of secondary maximum contaminant levels, these standards are not federally enforceable, but may be enforced by a State regulatory agency.

Senior mission commander (SMC)
The SMC will be a General Officer and designated by Senior Army Leadership. The SMC is responsible for the primary mission activity on several installations. The SMC provides executive level oversight of installation management services to the mission activities and other customers. The SMC need not reside or work on the installation. SMC installation management responsibilities are to:

a. Assist the GC in obtaining resources by advocating priority needs through the Army Commands (ACOMs), Army Service Component Commands (ASCCs), Direct Reporting Units (DRUs), and the IMBOD.

b. Act as the principal customer advocate to the IC and GC.

c. Approve the priorities for mission support, MCA projects, well-being programs and force protection requirements.

d. Provide overall force protection guidance.

e. Senior rate the GC.

Sewage sludge
Any solid, semi-solid, or liquid residue removed during the treatment of municipal wastewater or domestic sewage.

Significant paleontological resources
Paleontological resources (i.e., fossil remains) associated with events that have made an important contribution to the broad pattern of history or the lives of persons who were of importance in the past, or that yield or may yield information that is important to history or pre-history.

Site
A physically defined location which can be supported by a legal boundary survey which closes a polygon. It can be owned, leased, or otherwise possessed or used. A site may exist in one of three forms: land only; facility or facilities only; or land and all the facilities on it. A site is the sum of all real property at a specific location.

Sludge
Any solid, semi-solid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility exclusive of the treated effluent from a wastewater treatment plant (40 CFR 260.10).

Sole source aquifer
A groundwater source demonstrated to be the only or primary viable source of drinking water for a community or an aquifer that supplies 50 percent or more of the drinking water of an area.

Solid waste
Any discarded material that is not excluded by 40 CFR 261.4(a) or that is not excluded by variance granted under 40 CFR 260.30 and 260.31 (40 CFR 261.2).

Source reduction
Any practice which reduces the amount of any hazardous substance, pollutant, or contaminant entering any waste stream or otherwise released to the environment prior to recycling, treatment, or disposal; or, any practice which reduces the hazards to public health and the environment associated with the release of such substances, pollutants, or contaminants (Pollution Prevention Act (PPA) of 1990).

Source water
The water taken from rivers, reservoirs, or wells for use as drinking water.

Special installation
Special installations are generally very small, mostly industrial, and typically do not have a stand-alone installation staff. Command, control, manpower, and funding remain with the Army Commands (ACOMs), Army Service Component Commands (ASCCs), and Direct Reporting Units (DRUs), while traditional base operations support (BOS) oversight is provided by the IMCOM. These installations primarily use funds other than operation and maintenance funds (i.e., mission funds) to conduct traditional garrison operations in support of its primary mission. Several mission fund types are used in the operation of these installations, including: Army Working Capital Funds (AWCF); transportation working capital funds (TWCF); chemical program funds; Defense Health Program (DHP) funds; procurement Army ammunition (PAA) funds; and research, development, test, and evaluation (RDT&E) funds.

Special State (installation) license
A license prepared and issued by the installation in accordance with 10 USC 670 and the fish and wildlife cooperative plan to individuals participating in hunting, fishing, or trapping activities. It is valid only on the installation where issued. A fee is collected and used for fish and wildlife management activities in accordance with the integrated natural resources management plan (INRMP).

Species designations
The following species designations apply.

a. 16 USC Chapter 35 (ESA).

(1) Endangered species. Any species, plant or animal, which is in danger of extinction throughout all or a significant portion of its range, as listed by the U.S. Department of Interior (DOI).

(2) Threatened species. Any species, plant or animal, which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range, as listed by the DOI.

(3) Candidate species. Plant or animal taxa considered for possible addition to the List of T&E Species. These are taxa for which the USFWS has on file sufficient information on biological vulnerability and threats to support issuance of a proposal to list, but issuance of a proposed rule is currently precluded by higher priority actions.

b. State listed species. Any species, plant or animal, which is listed by the appropriate State as threatened or endangered within the State. (Note: these species may not be federally listed).

c. Species At Risk or Habitats. Plant and animal species and associated habitats that are not federally listed as

threatened or endangered under 16 USC Chapter 35 (ESA), but are either federally listed as candidates or are ranked by NatureServe as critically imperiled or imperiled throughout their range.

d. Army Species At Risk or Habitats. Species at risk or habitats that could be listed in the near future and/or for which the listing could have significant impact on military readiness and which are designated by HQDA.

Spill
A generic term, as used in this regulation, which encompasses the accidental and the deliberate but unpermitted discharge or release of a pollutant. For distinction, see discharge classifications, harmful discharge and so forth, potential discharge, release, and reportable spill or event. For comparison, see discharge and federally permitted release.

State historic preservation officer (SHPO) (under NHPA)
The official appointed or designated pursuant to section 101(b)(1) of the act to administer the State historic preservation program or a representative designated to act for the SHPO.

Status of Forces Agreement (SOFA)
Agreement on the stationing or operations of forces to which the United States is a party, such as:

a. Multilateral or bilateral stationing or base rights agreement.

b. Arrangements or understanding concluded there under.

Storage
The holding of hazardous substances (as defined in this section), other than for a temporary period of less than 30 days, prior to the hazardous substance being either used, neutralized, disposed of, or stored elsewhere.

Storage tank system
Storage tank systems include the tank(s), all connected piping, any ancillary equipment, and the containment system.

Sub-Installation
A grouping of facilities that are under the control of an installation garrison, but are not physically located within the principal installation boundary.

Surface water
All water naturally open to the atmosphere (rivers, lakes, reservoirs, ponds, streams, impoundments, seas, estuaries, and so forth) and all springs, wells, or other collectors directly influenced by surface water.

Surveillance
Thorough inspections or surveys made before and after pest management treatments to determine the presence and prevalence of pests or disease vectors.

Sustainability
Meeting present needs without compromising the ability of future generations to meet their own needs.

Sustainable yield
The production of renewable resources a land or water area can maintain in perpetuity at a given intensity of management without impairment of the resource.

Take
Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. Harm is further defined to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns such as breeding, feeding, or sheltering. Harass is defined as actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavioral patterns which include, but are not limited to, breeding, feeding, or sheltering.

Tank
Any stationary device designed to contain an accumulation of used oil (40 CFR 279.1) or HW (260.10), oil (40 CFR 112 and 40 CFR 280.12) or regulated substance (40 CFR 280.12) which is constructed primarily of non-earthen materials (for example, wood, concrete, steel, plastic) which provides structural support.

Technical guide (TG)
Technical guidance prepared by the AFPMB on specific pest management and disease vector control topics. TMs are

available from the DOD AFPMB, Forest Glen Section, Walter Reed Army Medical Center, Washington, DC 20307–5001.

Technical Review Committee (TRC)
TRCs are established as required by CERCLA Section 211 to facilitate review and comment on response actions and proposed actions at Army installations. The Army establishes TRCs for installations where there is no community interest towards establishment of a RAB. Note, however, that the TRC is being replaced by the RAB where appropriate. Installations that already have TRCs should consider converting the committee to a RAB (see Restoration Advisory Board for additional information).

Tenant
An authorized activity located on an installation that is not part of the garrison organization. Tenants include, but are not limited to, military units, the Army and Air Force Exchange Service (AAFES), and the Defense Commissary Agency (DeCA).

Toxic chemical
A chemical listed in 40 CFR 372.65 or added to that list by the EPA and required to be reported yearly in the EPCRA Toxic Releases Inventory.

Toxic pollutant
Those pollutants or combinations of pollutants, including disease-causing agents which, after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, will cause death; disease; behavioral abnormalities; cancer; generic mutations physiological malfunctions, including malfunctions in reproduction; or physical deformations in such organisms or their offspring.

Transfer
Reference AR 405–90. Change in jurisdiction over real property from one Federal agency or department to another, including military departments and defense agencies.

Treatment
Any method, technique, or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any HW so as to neutralize such waste, or so as to recover energy or material resources from the waste, or so as to render such waste non-hazardous, or less hazardous; safe to transport, store, or dispose of; or amenable for recovery, amenable for storage, or reduced in volume.

Underground injection
Subsurface emplacement of fluids, often wastes, through a bored, drilled or driven well.

Undertaking
A project, activity, or program funded in whole or in part under the direct or indirect jurisdiction of a Federal agency, including those carried out by or on behalf of a Federal agency; those carried out with Federal financial assistance; and those requiring a Federal permit, license or approval.

Unexploded ordnance (UXO)
UXO are military munitions that:

a. Have been primed, fused, armed, or otherwise prepared for action.

b. Have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material.

c. Remain unexploded, either by malfunction, design, or any other cause. (10 USC 101(e)(5)).

Unintentional Take
As defined for migratory birds (Migratory Bird Treaty Act (MBTA)) - take, that results from, but is not the purpose of, the activity in question, take of this type is sometimes referred to as incidental or indirect.

Unit commander
A commissioned officer of the United States armed forces designated to command a military unit.

U.S. jurisdiction
The 50 states, the District of Columbia, the commonwealths of Puerto Rico and the Northern Mariana Islands, the

territories of Guam and American Samoa, the U.S. Virgin Islands, and any other territory or possession over which the United States has jurisdiction.

Vessel
Any type of watercraft or other artificial contrivance used, or capable of being used, as a means of transportation on water, other than a public vessel.

Vulnerability assessment
An assessment of elements in the community that are susceptible to damage if hazardous materials are released.

Waste minimization
Two definitions are:

a. Any source reduction or recycling activity that is undertaken by a generator that results in the reduction of the quantity of HW, or the reduction in toxicity of HW, that is either generated or subsequently treated, stored, or disposed of. Such activities must be consistent with the goals of minimizing present and future threats to human health and the environment.

b. A working definition of waste minimization reflects two types of activities, source reduction or elimination of waste at the point of generation (for example, within a process), and recycling.

Wastewater
The spent or used water from individual homes, a community, a farm, or an industry that contains dissolved or suspended matter.

Water conservation
The beneficial reduction of water uses or water losses.

Water resource
Any groundwater or surface water source and associated (lake or ocean) shoreline. See also surface water, and groundwater.

Watershed
A region or area bounded peripherally by a water parting and draining ultimately to a particular watercourse or body of water.

Waterworks permit
Any permit required to operate a drinking water treatment facility, such as a source water appropriation permit or an operating permit.

Weed
A plant growing where it is not desired.

Wellhead protection area
The surface and subsurface area surrounding a water well or well field supplying a public water system, through which contaminants are reasonably likely to move toward and reach such well or well field.

Wetlands
Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Common terms used to describe various wetlands include marshes, bogs, swamps, small ponds, sloughs, potholes, river overflows, oxbows, mud flats, and wet meadows.

Wildland fire
Any non-structural fire that occurs on unimproved grounds. This includes wildfires and prescribed fires.

Wildlife management
The practical application of scientific and technical principles to wildlife populations and habitats so as to maintain such populations essentially for ecological, recreational, and/or scientific purposes.

Section III
Special Abbreviations and Terms
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ILLICIT DISCHARGE DETECTION AND ELINIMATION POLICY
AND
DRY WEATHER SCREENING PROCEDURES

Fort Gordon
Directorate of Public Works
Environmental / Natural Resources Office Compliance Branch

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Revised
16 Sept 2025

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ABBREVIATIONS AND ACRONYMS

BLDG	Building
CFR	Code of Federal Regulations
COC	Chain-of-Custody
col	Coliform
DPW	Director of Public Works
DWS	Dry Weather Screening
ECS	Environmental Compliance Specialist
EPA	Environmental Protection Agency
GA EPD	Georgia Environmental Protection Division
IDDE	Illicit Discharge Detection and Elimination
mL	Milliliters
MS4	Municipal Separate Storm Sewer System
NOV	Notice of Violation
NPDES	National Pollutant Discharge and Elimination System
pH	Hydrogen Ion Concentration
ppm	Parts Per Million
SOP	Standard Operating Procedure
SWMP	Storm Water Management Program
QA/QC	Quality Assurance / Quality Control
µS/cm	Micro-siemens per Centimeter

1. Introduction

Army Regulation 200-1 is the legal authority utilized to implement and enforce control measures spelled out in the Fort Gordon Stormwater Management Plan (SWMP). The Army's regulatory mechanism along with the SWMP are designed to control and eliminate sources of pollutants and contaminants to maximum extent practicable to protect water bodies and groundwater from illicit discharges from Fort Gordon's MS4.

The Georgia Department of Natural Resource's Environmental Protection Division (GA EPD), in compliance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), the Federal Clean Water Act, as amended (33 U.S.C. 1251 et seq.), and the Rules and Regulations promulgated pursuant to each of the Acts, has issued the Fort Gordon a National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit GAG480000 (hereinafter referred to as the MS4 Permit). Part 4.2.3 of the MS4 Permit requires the permittee to develop, implement, and enforce a program to detect and eliminate illicit discharges into its MS4.

Fort Gordon maintains a system of policies and procedures that prohibit non-stormwater discharges into the MS4. Fort Gordon's Illicit Discharge Detection and Elimination (IDDE) Policy is written to assure compliance with 40 Code of Federal Regulations (CFR) Part 122.26(b)(2), and Part 4.2.3 of the NPDES Storm Water Discharge permit GAG480000. Mechanisms employed to satisfy the provisions and specific requirements of the permit are integrated into the IDDE Policy.

2. MS4 IDDE Requirements

MS4 Permit Section 4.2.3 specifies the following mechanisms:

4.2.3.1 Develop, if not already completed, a storm sewer system map, showing the location of all outfalls and the names and location of all waters of the State that receive discharges from those outfalls.

4.2.3.2 Prohibit through appropriate regulatory mechanisms, non-storm water discharges to the MS4 and implement appropriate procedures and actions for ensuring the discharges are eliminated.

4.2.3.3 Develop and implement a plan to detect and address non-storm water discharges including illegal dumping to the MS4.

4.2.3.4 Inform the base community of the hazards associated with illegal discharges and improper disposal of wastes.

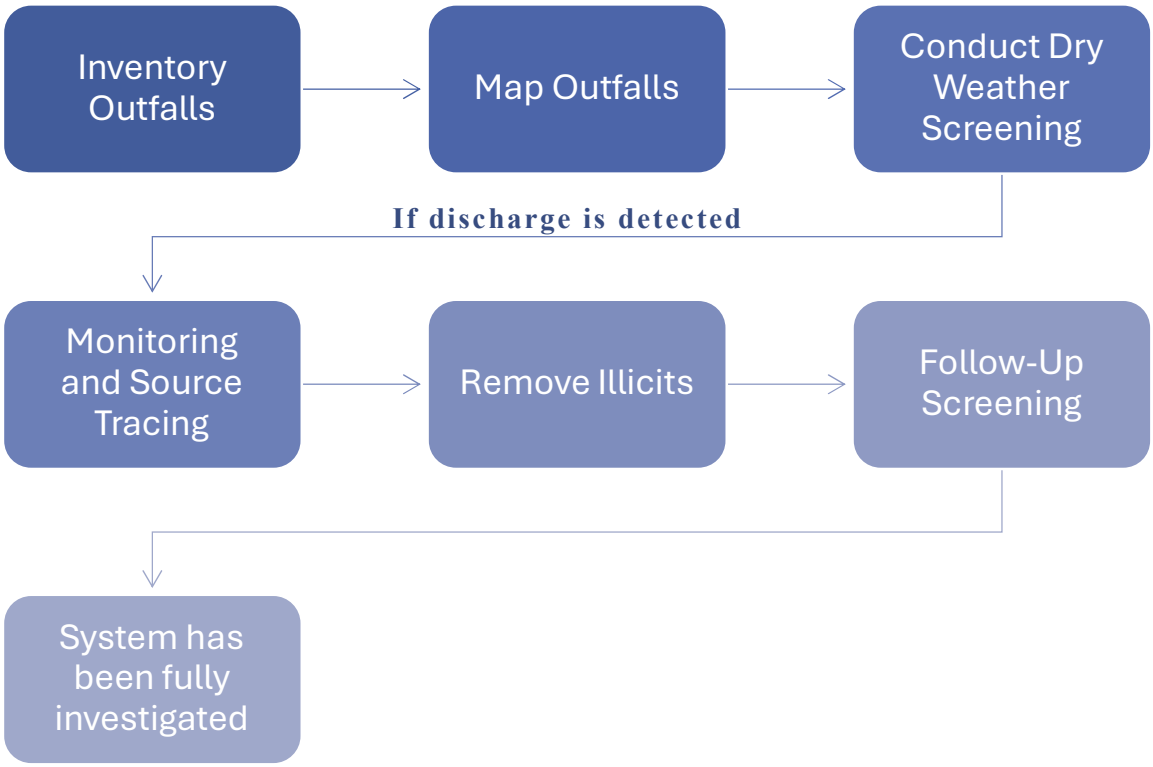
4.2.3.5 Address the following categories of non-storm water discharges or flows (i.e. illicit discharges) only if they are identified as significant contributors of pollutants to Fort Eisenhower's MS4: water line flushing, landscape irrigation, diverted stream flows, rising ground waters,

uncontaminated groundwater infiltration as defined in 40 CFR Part 35.2005(20), uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering, individual residential car washing, flows from riparian habitats and wetlands, de-chlorinated swimming pool discharges, and street wash water, discharges or flows from firefighting activities are excluded from the effective prohibition against non-storm water and need only be addressed where they are identified as significant sources of pollutants to the waters of the State of Georgia.

3. Inspection Team and Training

All DPW Environmental inspectors are provided initial training on the proper procedures for identifying MS4 outfalls and conducting inspections from an EPA certified MS4 Phase II Trainer. The training protocol covers facility specific SOPs, visual inspections of outfalls, chemical field testing, sample collection for laboratory submittal, methods for tracing potential illicit discharge sources, and required documentation.

FIGURE 1: IDDE FLOW CHART



4. Outfalls Inventory, Map, and Schedule

The IDDE program centers on identifying, inventorying and inspecting of storm water outfalls within Fort Eisenhower's MS4. The MS4 permit defines an outfall as "the most downstream point on an MS4 where it discharges to Waters of the State." Structures that collect and/or divert

drainage that has contacted road surfaces for discharge into Waters of the State are also considered outfalls. However, this does not include cross-drain structures and/or culverts installed under roadways that function solely to maintain the natural flow of surface waters.

The number of municipal outfalls is subject to change based on field surveillance and/or new construction projects. An up-to-date map and inventory of the MS4 outfalls within the ~260-acre facility which discharge to Waters of the State are included in **Appendix C** of the SWMP. The MS4 outfall inventory and map will be updated continuously as new structures are constructed, discovered during routine inspections or discovered during complaint investigations. Per the MS4 permit, DPW Environmental personnel will inspect at a minimum five percent (5%) of the municipal outfalls annually and will inspect one hundred percent (100%) of the outfalls within the five-year permit term.

5. Dry Weather Outfall Screening

Dry Weather Screening (DWS) protocol has been developed following guidance presented in the Environmental Protection Agency's (EPA) Water Quality Guidelines and the Georgia Environmental Protection Division's (GA EPD) Guidance Document for Phase II MS4 Storm Water Management Program Preparation.

The primary objective of DWS is to evaluate stormwater outfalls to determine if an illicit discharge is present. An illicit discharge is defined by the EPA as "any discharge not composed entirely of storm water, except discharges pursuant to a NPDES permit." Furthermore, illicit discharges are any non-storm water discharges except those exempted under Section 4.2.3.5 of the MS4 Permit. Preparation for a DWS inspection will include a review of previous inspection documents. The pre-inspection preparation will provide the inspector with a general idea of outfalls that have been observed as previously dry and/or outfalls that have been previously identified as possible recipients of illicit discharges. DWS inspections will be conducted only if precipitation does not exceed 0.1 inches within the previous 72 hours. Two possible scenarios encountered during the DWS are either that the outfall will remain dry after the 72-hour precipitation requirement or the outfall will continue to flow and/or discharge, indicting a possible illicit discharge. Field inspections will be recorded on the supplied *Dry Weather Outfall Screening Form* in **Appendix C** of the SWMP. During a DWS inspection, if an outfall is determined to have a discharge, source tracing will be initiated, and discharge elimination will be prioritized. Dry weather screening (DWS) of outfalls will encompass photo documentation, field screening observation, field water quality testing and grab sample collection for laboratory testing. All necessary materials and equipment – including maps, a dry-weather outfall screening form, sample bottles, and a field water quality testing kit, will be available during the field survey. Signs of past or present illicit connections and/or illegal discharges to the MS4 can often be determined by careful field screening and observation. The field screening consists of qualitative observations of the outfall and dry-weather flow. The stormwater specialist will complete the form even if there is no flow present. The qualitative observation includes examination of dry-weather flow rate, color, odor, turbidity, oil sheen, presence of floatable debris, visible deposits/stains, condition of vegetation, and structural damage.

6. Monitoring and Source Tracing

A. Visual Monitoring

Visual inspection of the outfall is the first screening measure that will determine whether further investigation is warranted. If the outfall is observed as dry during the inspection, the evident lack of flow as well as the structural condition of the outfall will be documented, and the inspection will qualify as complete.

If the outfall is observed to contain a flow during dry weather conditions, further investigation and sampling will be required. Visual inspection includes but is not limited to biological indicators such as stressed vegetation, excessive emergent vegetation or algae blooms, fish kills, and the presence or absence of aquatic life. Parameters that are required to be documented on the field form in the event an illicit flow is suspected include flow, color, odor, turbidity, observation of suspended solids (floatable), and determination of possible staining resulting from illicit dumping. The following paragraphs provided further detail regarding DWS field investigation procedures for outfalls found to contain illicit flows and/or discharges.

B. Source Tracing

If flow is apparent during a DWS inspection, the origin of the discharge shall be investigated by following the storm water conveyance system up-stream. The stormwater specialist will trace all outfalls with flow present. Additional investigative procedures include visual inspection and field sampling up-stream of the outfall in which the illicit discharge was originally identified. As a tactical approach in locating the source of the discharge, additional field sampling will be implemented at storm sewer line connections and convergences. Dye testing may also be employed to confirm the origin of the illicit discharge once it is identified. Examples of illicit connections where dye testing will be most effective include floor drains and sanitary sewer tie- ins.

C. Chemical Monitoring

Grab samples will be collected at outfalls with observed flow during DWS inspections. Analytical parameters provide important information in determining the source of suspected illicit discharges discovered during investigative activities. Regardless of the visual quality or lack of odor, samples from every dry weather outfall sustaining flow will be collected. Samples will be collected and preserved in accordance with *NPDES Storm Water Sampling Guidance Document* (EPA 833-P-92-001 July 1992). To assist in locating the source of the illicit discharge the following parameters will be assessed in the field, apart from fecal coliform and E. coli:

TABLE 1: MONITORING & SOURCE TRACING PARAMETERS

Parameter	Baseline Limit	Potential Source of Contamination
Temperature	Near or below ambient conditions for groundwater or storm water runoff. Temperature will vary with seasonal influence.	Sanitary wastewater and industrial cooling water can affect outfall discharge temperatures.
pH	< 5.0 or > 9.0	Low pH – Industrial including textile mills, pharmaceuticals, metal finishers / fabricators, companies dealing in resins, fertilizers, or pesticides. High pH – Industries including soap manufacturers, metal plating, concrete, lime, and rubber or plastic producers.
Conductivity	50 – 300 µS/cm	Natural Sources – Conductivity in rivers and streams is primarily affected by the geology of the area through which the water flows. Streams that run through granite bedrock will have low conductivity, and those that flow through limestone and clay soils will have higher conductivity values. Man Made Sources – Salts from highways; erosion from agricultural practices; industrial discharges. High conductivity readings can also come from industrial pollution or urban runoff originating from streets, buildings, and parking lots. Extended dry periods and low flow conditions also contribute to higher specific conductivity readings. Because an organic compound such as oil does not conduct electrical current very well, an oil spill tends to lower the conductivity of water.
Detergents (Surfactants)/ Wastewater	5.0 ppm (Industrial) 0.25 ppm (residential)	Industrial and household wash water; car washing; laundromats.
Total Fluoride	0.5 – 1.5 mg/L	Possible indication of potable water entering the storm water conveyance system.
Fecal Coliform	April – October: 200 col/100mL November – March:	If conductivity or surfactants are measured above baseline limits or if water appears to have a milky white or gray color and floatable debris, an obvious sewage odor or other evidence leading

	1,000 col/100mL	to possible sanitary sewer discharge this will warrant further investigation. Test may be requested as needed.
E. coli		Representative of human waste entering the storm water conveyance system. Analytical results for E. coli may assist in the differentiation between contamination originating from sanitary sewer and wildlife excrement. Test may be warranted as needed.

If any of the field test reveal an exceedance of the baseline limits as provided above, if needed, a second set of samples may be collected and sent to a laboratory for further analysis. If analysis for fecal coliform and/or E. coli is warranted, the fecal coliform sample will be tested by the laboratory within the six-hour hold time and E. coli within a twenty-four hour hold time, which is mandatory for accuracy. Samples scheduled to be delivered to the lab must be stored on ice, properly documented on a chain-of-custody (COC) and delivered in a timely manner to the lab to be analyzed within the specified hold times.

7. Sample Collection

Sample collection will adhere to protocol set forth in the *NPDES Storm Water Sampling Guidance Document* (EPA 833-P-92-001 July 1992). Readings will be taken directly in the outfall flow, safety permitting. If the outfall location is not safe or easily accessible, then a decontaminated container will be used to collect a representative effluent sample for parameter readings. The container shall be rinsed at least twice with flow from the outfall. Parameter reading shall be taken immediately after enough effluent is collected in the container to perform all field tests.

Fecal coliform and E. coli samples must be collected directly from the effluent flow. Samples will be collected in a sterilized container and de-chlorination with sodium thiosulfate. All samples will be immediately stored in a cooler with ice and delivered to an EPA accredited laboratory. Analysis for these constituents must be completed within six hours of sample collection, therefore it is imperative that samples are delivered to the lab as soon as possible.

8. Quality Assurance/Quality Control Procedures

All quality assurance/quality control (QA/QC) procedures will be in accordance with required Georgia state standard water quality guidelines. To provide a high level of quality control, two stormwater specialists will conduct all DWS inspections. All visual observations will be documented on the inspection form and with a photo documentation. Field tests will be performed twice to ensure results reflect true environmental conditions. Decontamination, calibration standards, expiration dates, and results will be documented and filed with the respective inspection forms for each day and stored at the Fort Gordon DPW Environmental Office, Bldg. 714.

9. Equipment

Proper personal protective equipment (i.e., gloves) must be worn during field inspections and collection of samples. Special care should be taken when working with preservatives and reagents used in surfactant analysis. Expiration dates on all calibration fluids and reagents used for field analysis will be checked prior to field work.

All equipment will be kept in a clean, contaminate free environment when not in use. Equipment will be decontaminated with distilled water before and after each sample collection. Equipment will be inspected for defects and calibrated at the beginning of each sampling day and as need throughout the sampling event. Probes used to measure temperature, conductivity, and pH must be calibrated in accordance with the manufacturer's instructions. A three-point calibration will be performed on pH meters before use.

10. Procedures for Eliminating Illicit Discharge and/or Illegal Connections

Once the source of the illicit discharge is identified, proper notice will be delivered to the violator. Details will be provided regarding the violation being investigated and recommendations on rectifying the situation. The responsible party will have approximately 24-hours to respond. A follow up inspection will be conducted to confirm that the illicit discharge has been terminated. If the violation has not been addressed within 24-hours, an official notice of violation (NOV) will be issued by DPW Environmental. If the violation is identified as substantial, more stringent enforcement mechanisms may be employed, such as a NOV directed towards a higher level of management.

11. Spills and Accidental Discharges

DPW Environmental personnel are often the first line of defense for detecting spills and discharges through the various routine inspection programs conducted throughout the installation's MS4. When discovered, spills and/or accidental discharges are investigated and reported directly to the responsible tenant, unit, directorate, or department so corrective action implementation can be initiated as expeditiously as possible to cease the illicit discharge to MS4 collection system. DPW Environmental personnel will document the spill, investigation findings, conduct follow ups (as needed); and include a copy of the spill investigation reports and corrective actions implemented with the respective MS4 annual report.

12. Sanitary Sewer Overflows

Fort Eisenhower's wastewater utilities are privatized and are no longer owned or operated by the US Army; therefore, sanitary sewer overflow (SSO) spill response and containment is managed by the privatized water/wastewater utility, Augusta Utilities Department (AUD). All SSOs discovered by DPW Environmental personnel will be reported to the privatized utility Contract Officer Representative (COR) to provide notification to AUD for investigation and corrective action implementation

13. Procedures for Reporting Illicit Discharge and/or Illegal Connections

If an illicit discharge and/or illegal dumping into the stormwater collection system is observed and/or discovered by installation personnel (civilians, military and/or tenants), the illicit discharge should be reported to DPW Environmental immediately. A compliant and/or concern regarding an illicit discharge can be reported to DPW Environmental via a telephone call to the stormwater support number at (706) 791-4286; via telephone to DPW Environmental personnel, email or in-person to the DPW Environmental Water Program Manager and/or DPW stormwater specialists.

14. Complaint Response

A stormwater support phone number has been designated within the DPW Environmental office. The stormwater support number has been published for use by installation military personnel, residents and employees. By publishing a storm water support phone number, interested parties may ask questions, obtain information, report potential polluters, and lodge complaints of illicit discharges. Complaint response procedures will be followed if an official storm water illicit discharge complaint is received. These complaint response procedures include but are not limited to:

- Illicit discharge complaints are received via telephone on the stormwater support number at (706) 791-4286.
- The telephone is in the DPW Environmental office at Building 14600; and manned by DPW Environmental personnel Monday through Friday during normal business hours 8:00 am to 5:00 pm, except for non-working Federal holidays.
- Information regarding the nature of the call, location, time, and date are recorded on a log sheet.
- Illicit discharge complaints will be investigated by DPW Environmental personnel within twenty-four (24) hours of receipt.
- Detailed reports of field investigations along with photos and findings are documented and retained for record by DPW Environmental.
- A copy of the complaint investigation report and findings will be provided to the appropriate point of contact (POC) for review and corrective action implementation if the investigation confirmed a presence of an illicit discharge.
- The status of illicit discharge complaints will be manually tracked until follow up complaint investigations reveal that illicit discharges have been eliminated. Once the illicit discharges have been eliminated, the complaint will be closed.

15. Enforcement Procedure

DPW Environmental personnel will issue a written Letter of Deficiency and/or Letter of Violation (along with a copy of the completed inspection form and photo documentation of the deficiencies/violations) to sites found to be non-compliant. The Letter of Deficiency and/or Violation will be issued to the government POC assigned to the site, and if needed, the POC will dissemination to the site contractor. The enforcement letter will document the deficiencies, the required corrective actions and provide a timeline for corrective action implementation. DPW Environmental personnel will conduct a follow up inspection to assess the implementation of

corrective actions and compliance status. If the site remains out of compliance after the allotted time DPW Environmental personnel will issue notification to the construction site POC recommending a Stop Work Order be placed on the site. The Stop Work Order will remain in effect until the site has been brought back into compliance.

16. Records and Reporting

All data collected from DWS inspections, accidental discharges and/or spills will be stored at the Fort Gordon DPW Environmental Compliance Office, Bldg. 14600 and included in the annual report submitted to the GA EPD.

17. Education and Outreach

Educate the community about hazards associated with illegal discharges. Maintain labels on storm drains; post flyers and posters; display and/or distribute brochures, pamphlets, etc. on lobby tables, countertops, break rooms, dining areas, etc. warning Fort Gordon military, visitors, civilian and tenant workforces not to dump pollutants into the drains. During Fort Eisenhower's outreach activities pamphlets called "Only Rain Down the Drain - Be the Solution to Storm Water Pollution" are passed out. These pamphlets contain information about what an illicit discharge is, background information, the problem, the solution, the law and a list of contacts.

18. Allowable Non-Stormwater Discharges (Exclusions)

Per Part 4.2.3.5 of MS4 permit No. GAG480000, the MS4 will need to address the following categories of non-stormwater discharges or flows only if they are identified as significant contributors of pollutants to the MS4:

- Water line flushing
- Landscape irrigation
- Diverted stream flows
- Rising ground waters
- Uncontaminated groundwater infiltration (as defined in 40 CFR Part 35.2005(20))
- Uncontaminated pumped ground water
- Discharges from potable water sources
- Foundation drains
- Air conditioning condensation
- Irrigation water
- Springs
- Water from crawl space pumps
- Footing drains
- Lawn watering
- Individual residential car washing
- Flows from riparian habitats and wetlands
- Swimming pool discharges and
- Flows from fire-fighting activities

If, at any time, DPW Environmental identifies these discharges as significant contributors into the MS4, they must be considered an "illicit discharge". Measures will then be taken to control these sources, ensuring they are no longer significant contributors of pollutants or eliminating them entirely. To prevent these discharges from becoming significant contributors, DPW Environmental recommends implementing best management practices (BMPs) to the maximum extent feasible for these activities.

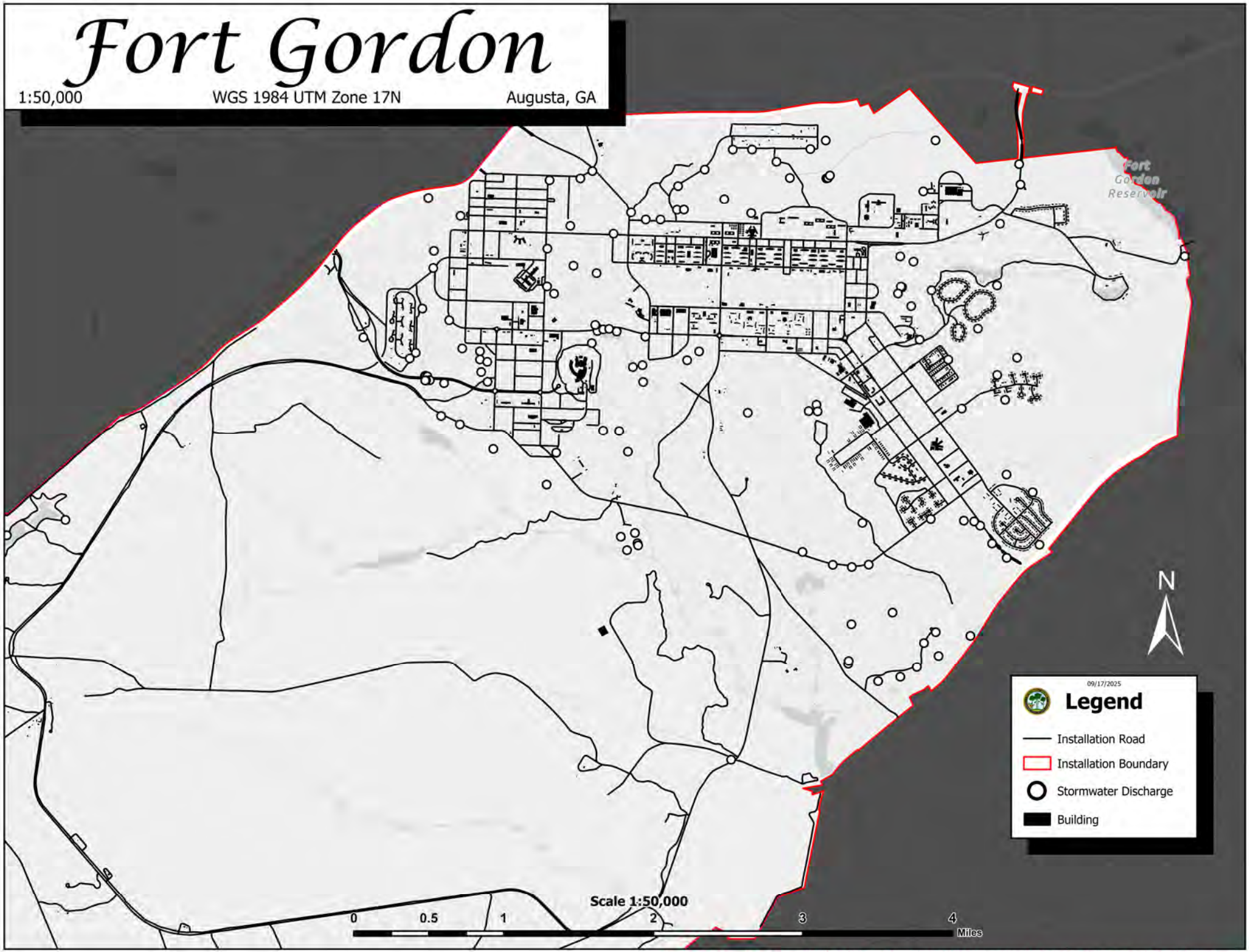
References

Environmental Protection Agency. "NPDES Storm Water Sampling Guidance Document, 833-P- 92-001", July 1992.

Georgia Environmental Protection Division. "Phase II MS4 Storm Water Management Plan Preparation Guidance Document", February 2013.

Fort Gordon

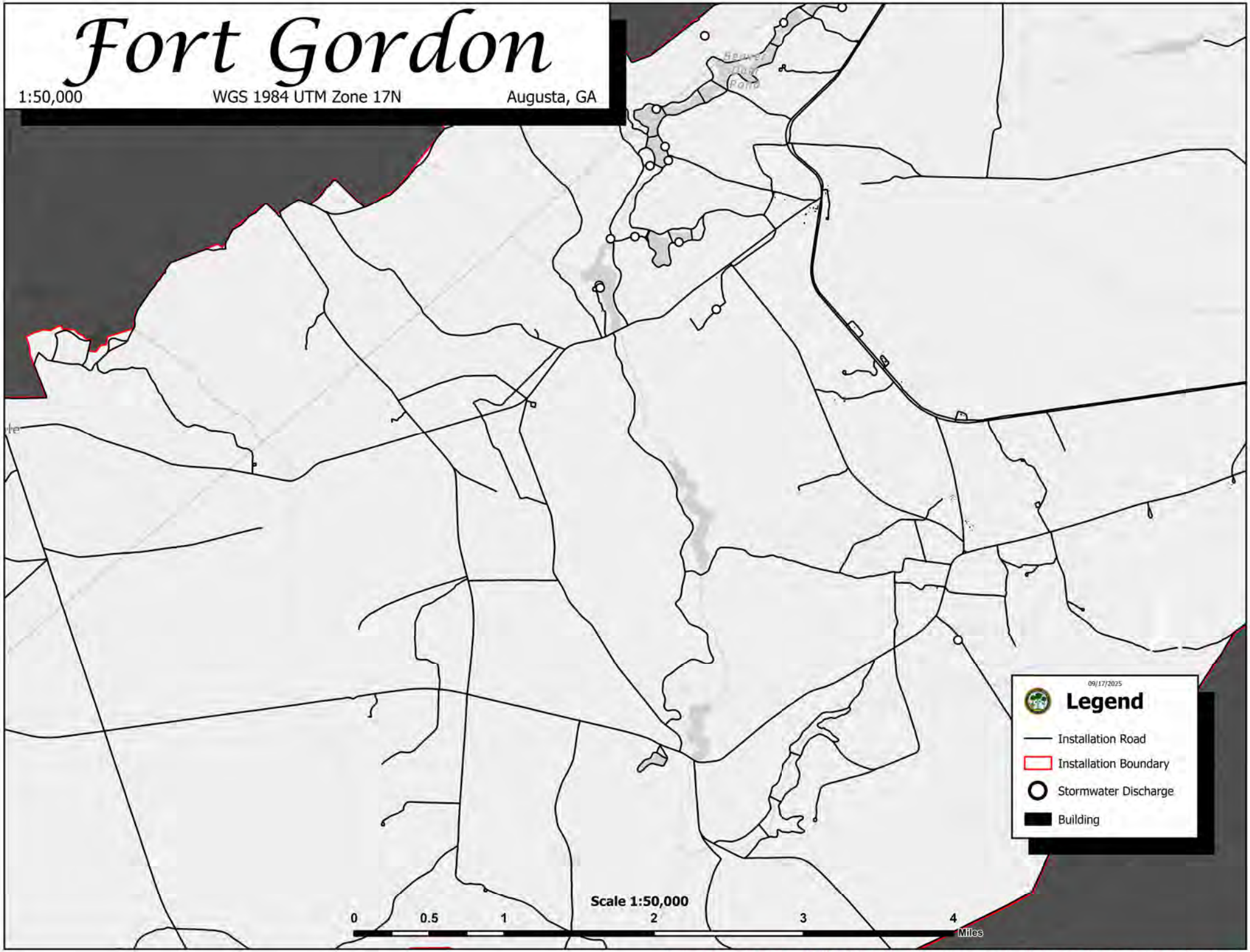
1:50,000 WGS 1984 UTM Zone 17N Augusta, GA



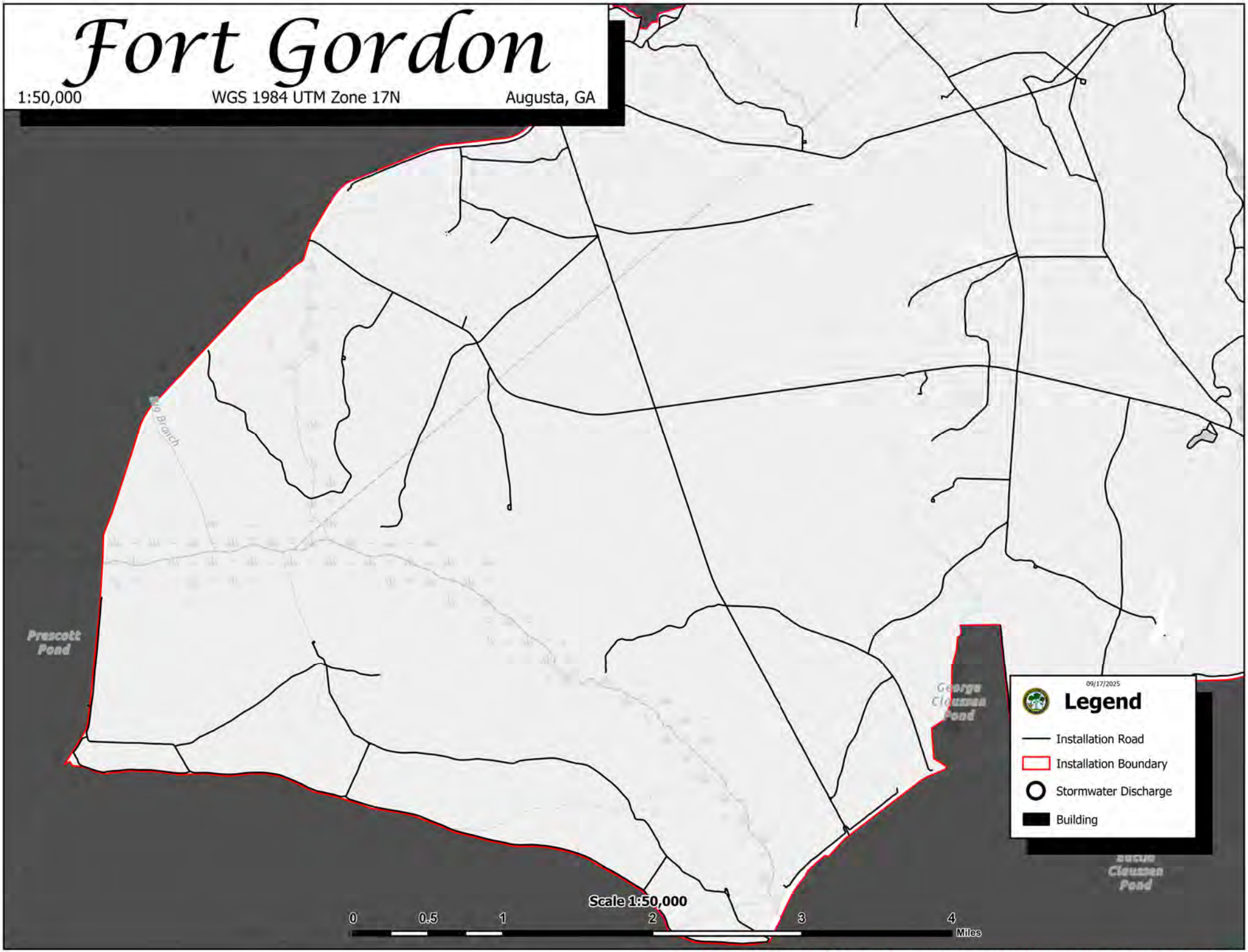
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1:50,000 WGS 1984 UTM Zone 17N Augusta, GA



Source: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Sources: Esri, TomTom, Garmin, (c) OpenStreetMap contributors, and the GIS User Community



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Fort Gordon Outfall Inventory

Structure ID	GEOS ID	Coordinate X	Coordinate Y	Receiving Waterbody
SDO-003	21	-82.186327	33.429076	Marcum Branch
SDO-004	53	-82.185611	33.423924	Marcum Branch
SDO-006	39	-82.17251	33.424259	McCoys Creek
SDO-007	38	-82.16989	33.42649	McCoys Creek
SDO-008	36	-82.172349	33.430931	McCoys Creek
SDO-009	55	-82.182584	33.427333	Marcum Branch
SDO-010	16	-82.16118	33.427186	Belair Branch
SDO-011	34	-82.15948	33.4272	Belair Branch
SDO-012	33	-82.157591	33.428171	Belair Branch
SDO-013	78	-82.156779	33.428191	Belair Branch
SDO-015	15	-82.127744	33.43521	Belair Branch
SDO-016	65	-82.118056	33.414225	Riley Branch
SDO-018	50	-82.182216	33.414526	Marcum Branch
SDO-019	51	-82.183749	33.417231	Marcum Branch
SDO-029	44	-82.172289	33.401406	Marcum Branch
SDO-030	43	-82.171222	33.404501	Marcum Branch
SDO-031	45	-82.178493	33.4048	Marcum Branch
SDO-032	49	-82.179304	33.413261	Marcum Branch
SDO-033	48	-82.179995	33.412266	Marcum Branch
SDO-034	12	-82.098822	33.424203	Butler Creek
SDO-035	31	-82.144513	33.431411	Belair Branch
SDO-036	6	-82.131671	33.423888	Riley Branch
SDO-037	20	-82.185669	33.422267	Marcum Branch
SDO-038	77	-82.12018	33.427157	Riley Branch
SDO-039	75	-82.161077	33.415861	McCoys Creek
SDO-040	3	-82.156221	33.413628	McCoys Creek
SDO-042	19	-82.180152	33.413475	Marcum Branch
SDO-044	80	-82.141013	33.408823	Blocker Branch
SDO-045	67	-82.141154	33.409469	Blocker Branch
SDO-046	40	-82.171677	33.419918	McCoys Creek
SDO-047	52	-82.186876	33.418331	Marcum Branch
SDO-048	54	-82.187583	33.414055	Marcum Branch
SDO-049	68	-82.166622	33.416351	McCoys Creek
SDO-051	41	-82.162477	33.412912	McCoys Creek
SDO-052	17	-82.161273	33.411483	McCoys Creek
SDO-053	42	-82.163974	33.406696	McCoys Creek
SDO-056	1	-82.154843	33.414494	McCoys Creek
SDO-057	74	-82.14914	33.408618	Blocker Branch
SDO-059	2	-82.131414	33.420908	Riley Branch
SDO-061	69	-82.151217	33.434107	Belair Branch
SDO-062	25	-82.148987	33.43413	Belair Branch
SDO-064	70	-82.146154	33.432971	Belair Branch
SDO-065	71	-82.140417	33.435083	Belair Branch
SDO-067	37	-82.164883	33.425777	McCoys Creek
SDO-071	4	-82.16137	33.413107	McCoys Creek
SDO-072	63	-82.142039	33.408846	Blocker Branch
SDO-077	66	-82.12933	33.415859	Riley Branch
SDO-083	96	-82.130337	33.419095	Riley Branch
SDO-085	30	-82.140298	33.431412	Belair Branch
SDO-086	32	-82.152135	33.429277	Belair Branch
SDO-087	72	-82.142181	33.434238	Belair Branch
SDO-088	35	-82.16879	33.431142	McCoys Creek
SDO-092	47	-82.179248	33.411327	Marcum Branch
SDO-093	18	-82.182383	33.407178	Marcum Branch
SDO-095	5	-82.166684	33.416694	McCoys Creek
SDO-099	62	-82.135701	33.398047	Blocker Branch
SDO-101	61	-82.134923	33.394017	Blocker Branch
SDO-102	59	-82.136868	33.393771	Blocker Branch
SDO-103	58	-82.139064	33.393964	Blocker Branch
SDO-104	22	-82.142575	33.395173	Blocker Branch
SDO-105	23	-82.127818	33.39849	Blocker Branch

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Fort Gordon Outfall Inventory

SDO-106	60	-82.122102	33.397901	Blocker Branch
SDO-110	56	-82.116084	33.40118	Butler Creek
SDO-111	57	-82.119125	33.402868	Butler Creek
SDO-112	64	-82.124377	33.409251	Butler Creek
SDO-114	24	-82.119383	33.410139	Butler Creek
SDO-115	73	-82.130132	33.423396	Riley Branch
SDO-116	29	-82.129088	33.430256	Belair Branch
SDO-117	13	-82.118052	33.432995	Butler Creek
SDO-118	14	-82.117879	33.431023	Butler Creek
SDO-121	27	-82.162915	33.395156	Spirit Creek
SDO-122	26	-82.161642	33.395627	McCoys Creek
SDO-123	11	-82.161724	33.395834	McCoys Creek
SDO-124	76	-82.162026	33.396827	McCoys Creek
SDO-125	10	-82.163656	33.396444	Spirit Creek
SDO-126	7	-82.150625	33.374967	Spirit Creek
SDO-127	8	-82.241989	33.368045	Sandy Run Creek
SDO-130	9	-82.213606	33.336335	Rachel Branch
SDO-132	28	-82.154432	33.432132	Belair Branch
SDO-133	81	-82.157487	33.430501	Belair Branch
SDO-135	82	-82.125998	33.413965	Riley Branch
SDO-136	85	-82.120323	33.412543	Butler Creek
SDO-142	99	-82.167406	33.43187	McCoys Creek
SDO-143	83	-82.123995	33.398366	Blocker Branch
SDO-144	46	-82.184566	33.407972	Marcum Branch
SDO-145	91	-82.12281	33.398303	Blocker Branch
SDO-146	90	-82.167251	33.415178	McCoys Creek
SDO-147	89	-82.165946	33.416524	McCoys Creek
SDO-153	94	-82.128015	33.420654	Riley Branch
SDO-154	93	-82.122612	33.416995	Riley Branch
SDO-156	86	-82.162885	33.427861	Belair Branch
SDO-160	97	-82.166879	33.416942	McCoys Creek
SDO-161	98	-82.166795	33.421947	McCoys Creek
SDO-162	88	-82.1725	33.42061	McCoys Creek
SDO-163	79	-82.162942	33.404681	McCoys Creek
SDO-164	84	-82.120709	33.396189	Blocker Branch
SDO-165	95	-82.119002	33.394823	Blocker Branch
SDO-166	92	-82.115236	33.396119	Spirit Creek (?)
SDO-169	100	-82.149003	33.427924	Belair Branch
SDO-172	101	-82.120456	33.421188	Riley Branch
SDO-173	103	-82.165831	33.406722	tbd
SDO-174	104	-82.131559	33.420977	Riley Branch
SDO-175	102	-82.140109	33.431455	Belair Branch
SDO-178	87	-82.169477	33.422641	McCoys Creek
SDO-180	105	-82.188268	33.413502	Marcum Branch
SDO-181	106	-82.180166	33.414269	Marcum Branch
SDO-182	107	-82.255534	33.37022	Sandy Run Creek
SDO-183	108	-82.255413	33.369988	Sandy Run Creek
SDO-184	109	-82.251477	33.37497	Little Sandy Run Creek
SDO-185	110	-82.246392	33.374487	Little Sandy Run Creek
SDO-186	111	-82.248128	33.383779	Little Sandy Run Creek
SDO-187	112	-82.249184	33.387395	Little Sandy Run Creek
SDO-188	113	-82.23457	33.395902	Little Sandy Run Creek
SDO-189	114	-82.2437	33.394542	Little Sandy Run Creek
SDO-190	115	-82.227821	33.397456	Little Sandy Run Creek
SDO-191	116	-82.247734	33.382429	Little Sandy Run Creek
SDO-192	117	-82.249849	33.381899	Little Sandy Run Creek
SDO-193	118	-82.19365	33.41548	Marcum Branch
SDO-194	119	-82.186487	33.41182	Marcum Branch
SDO-195	120	-82.186418	33.411843	Marcum Branch
SDO-196	121	-82.186424	33.411818	Marcum Branch
SDO-197	122	-82.186203	33.411788	Marcum Branch
SDO-198	123	-82.185919	33.411418	Marcum Branch

Fort Gordon Outfall Inventory

SDO-199	124	-82.186355	33.411404	Marcum Branch
SDO-200	125	-82.186453	33.411388	Marcum Branch
SDO-201	126	-82.184264	33.411151	Marcum Branch
SDO-202	127	-82.133686	33.382717	Long Branch
SDO-203	128	-82.126745	33.385251	Long Branch
SDO-204	129	-82.123096	33.387236	Long Branch
SDO-205	130	-82.127102	33.38756	Long Branch
SDO-206	131	-82.128444	33.386497	Long Branch
SDO-207	132	-82.137168	33.384373	Blocker Branch
SDO-208	133	-82.137112	33.384666	Blocker Branch
SDO-209	134	-82.132108	33.389409	Blocker Branch
SDO-210	135	-82.136841	33.388236	Blocker Branch
SDO-211	136	-82.129234	33.38414	Long Branch
SDO-212	137	-82.13113	33.383165	Long Branch
SDO-213	138	-82.165267	33.416578	McCoys Creek
SDO-214	139	-82.164392	33.416333	McCoys Creek
SDO-215	140	-82.2542906	33.37473446	
SDO-216	141	-82.13989308	33.43169712	
SDO-217	142	-82.13188792	33.42030526	
SDO Count:	**142**			

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: Inspection Type:
BMP Type: SDO **MS4 Feature:**
Coordinate X: Coordinate Y:

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Flow from outfall		
Weather Conditions		
Date of Last Rain		
Amount of Last Rain		
Outfall Location		
Outfall Type/Material - Pipe		
Outfall Type/Material - Channel		
Outfall Diameter/Dimensions		
Receiving Stream and Watershed Name		
Land use/industries in drainage area		
Odor		
Severity of Odor		
Color		
Severity of Color		
Turbidity		
Severity of Turbidity		
Floatables		
Severity of Floatables		
Field Test Kit Manuacturer/Model		
Flow Temperature (F)		

Flouride (mg/L)		
Flow pH		
Flow Conductivity (umho/cm)		
Outfall Potential for illicit Discharge		

Additional Comments:

Lab Analysis:

Records	
Question	**Answer**
Certified Laboratory:	
Fecal Coliform Grab Sample ID:	
Fecal Coliform(MPN/100ml):	
Surfactants Grab Sample ID:	
Surfactants:	

Photos:

Finding	Lat/Long	Photo

Inspector:

FOG

FATS, OILS & GREASE

Contain, don't drain.

Don't forget to CARE

Clean pans with a napkin and discard in the trash.

Attempt to keep greasy foods out of garbage disposal.

Remove food scraps from oils.

Empty cooled oils into container for recycling or disposal.



You can find more Information on the GA EPD and EPA websites:

georgia.gov/watershed-protection-branch/fats-oils-and-grease-fog

epa.gov/compliance/fats-oils-and-grease-what-we-know-after-23-years-fog-work

Contact us with Questions

DPW Environmental Division

515 15th Street Bldg. 14600

Fort Gordon, GA 30905

Chief of Environmental Compliance:

(706) 791-9927

Water Quality Specialist:

(706) 791-6129

COMPLIANCE BRANCH

FORT EISENHOWER, GA

Fort Gordon Environmental Compliance Division appreciates your help in protecting our valuable water resources

Help protect our Water Resources

Keep Fats, Oils & Grease

F.O.G

Out of the Drain



The Threat of F.O.G



Fats, oils, and grease (FOG) cools and sticks to household and sanitary sewer pipes.

The clogged pipe eventually backs up and floods your home with wastewater or causes it to overflow onto the street.





The untreated wastewater can then flow to local waterways and degrade water quality.

FOG CLOGS

Never pour fats, oils or grease down the drain.



DO NOT pour fat, oil or grease down sinks, drains, or into toilets.

FATS

Examples include: meat trimmings, uncooked poultry skin, cheeses, ice cream, peanut butter, butter, shortening and lard.

OILS

Oil comes from plant sources such as vegetable oil, canola oil, olive oil, corn oil, etc.. It remains liquid at room temperature.

GREASE

Grease occurs when fats from food melt under heat such as frying, boiling and baking. Grease is deceptive because it is a liquid after cooking, but eventually cools into a solid.

Best Management Practices

To Prevent Stormwater Pollution:

- Do not dispose of used cooking oils or grease outdoors where they can be washed by rainfall into nearby storm drains and water ways.
- If you store food waste containing oil and grease outdoors, ensure that the container is properly sealed and covered to prevent exposure to rainfall.
- If cooking grease or other F.O.G material is spilled outdoors, apply cat litter (or other absorbent material) and dispose of it in the trash.

To Prevent problems at wastewater treatment plant:

- Do not dispose of food waste or FOGs down the kitchen sink or garbage disposal.
- Clean up kitchen spills of oil and grease by applying cat litter (or another absorbent material) and dispose of in garbage bag instead of rinsing it down the drain.
- Dry wipe pots, pans, and dishes to remove food waste before washing in the sink or dishwasher.

FOG MATERIALS/BROCHRURES

CY 2025

	1st Semiannual 1/1/2025 - 6/30/2025		2nd Semiannual 7/1/2025 - 12/31/2025		Brochures Distributed
	Placed	Distributed	Placed	Distributed	
Darling Hall					0
Dining Hall 25704					0
Dining Hall 25717					0
Dining Hall 29704					0
Family Housing					0

Total FOGs Distributed: 0

Prevention

What is an Illicit Discharge?

An illicit discharge is an unlawful act of disposing, dumping, spilling, emitting, or other discharge of any substance other than stormwater into the stormwater drainage system. The stormwater drainage system includes storm drains, streets, ditches, catch basins and streams.

When an illicit discharge (such as paint, oil, antifreeze, yard waste) enters a storm water system, this untreated discharge flows to receiving water bodies and may contribute pollutants such as heavy metals, oil and grease, toxins and solvents. These pollutants can significantly degrade water quality and threaten aquatic, wildlife and human health.

You can do your part by keeping all non-stormwater materials away from and out of all curb inlets, grates and water bodies at Fort Gordon.

Also, if you see someone dumping any solids or liquids into the stormwater drainage system, please call **(706) 791-6237** or send an email to **usarmy.gordon.imcom.mbx.dpw-enrmo@mail.mil**.

You can also participate in a Storm Drain Marking Event and spread awareness about stormwater pollution prevention by labeling the storm drains.















The Law

Fort Gordon is required to obtain an NPDES (National Pollutant Discharge Elimination System) Phase II stormwater permit. The goal of this permit is to reduce pollutants found in storm water runoff from urbanized areas to the "maximum extent practicable".

Fort Gordon has prepared this educational brochure to meet the requirements of their NPDES permit administered by the Georgia Environmental Protection Division.

FOR MORE INFORMATION:

Fort Gordon Directorate of Public Works and Logistics, Environmental and Natural Resources
usarmy.gordon.imcom.mbx.dpw-enrmo@mail.mil

Chief of Environmental Compliance
(706) 791-6237

Municipal Stormwater Coordinator
(706) 791-1432

Environmental/Stormwater Support Line
(706) 791-4286

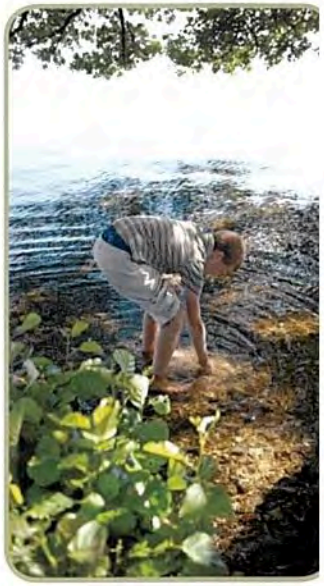
Fort Gordon's Storm Drain Marking Program
Outreach and Training Specialist
(706) 791-6278

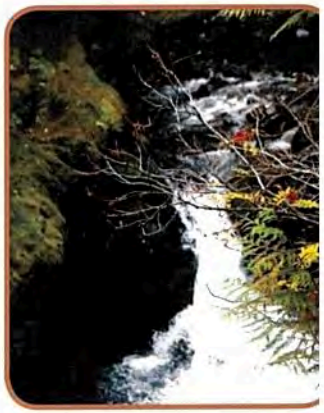
Fort Gordon's Water Program
http://www.gordon.army.mil/dpw/enrmo/water/water.htm

Environmental Protection Agency's Information on Stormwater Pollution
http://www.epa.gov/owow/nps/whatis.html

Fort Gordon, Georgia

Be the Solution to Stormwater Pollution





Only rain down the drain

Background

Stormwater pollution is one of the leading threats to the Fort Gordon's water quality and results from human activities on the land.

Stormwater results when rainfall and snow melt is unable to naturally soak into the ground because of paved or otherwise solid surfaces, such as roads, rooftops, and sidewalks.

Flowing stormwater can pick up dirt, sediment, debris, chemicals, trash, oil, grease and other pollutants. Stormwater runoff in Fort Gordon is largely transported along streets and curbs, open channels, and storm sewer systems. The polluted stormwater is discharged untreated directly to nearby streams/lakes.

The various sources of stormwater pollution in an urban setting are:

- Oil, grease, heavy metals and toxic chemicals from motor vehicles
- Pesticides and herbicides from lawns and gardens
- Yard waste from landscaping and lawn care
- Viruses, excessive nutrients and bacteria from pet waste



Polluted stormwater can lead to poor water quality and make the waterways unsafe for swimming and other recreational activities, such as fishing and boating.

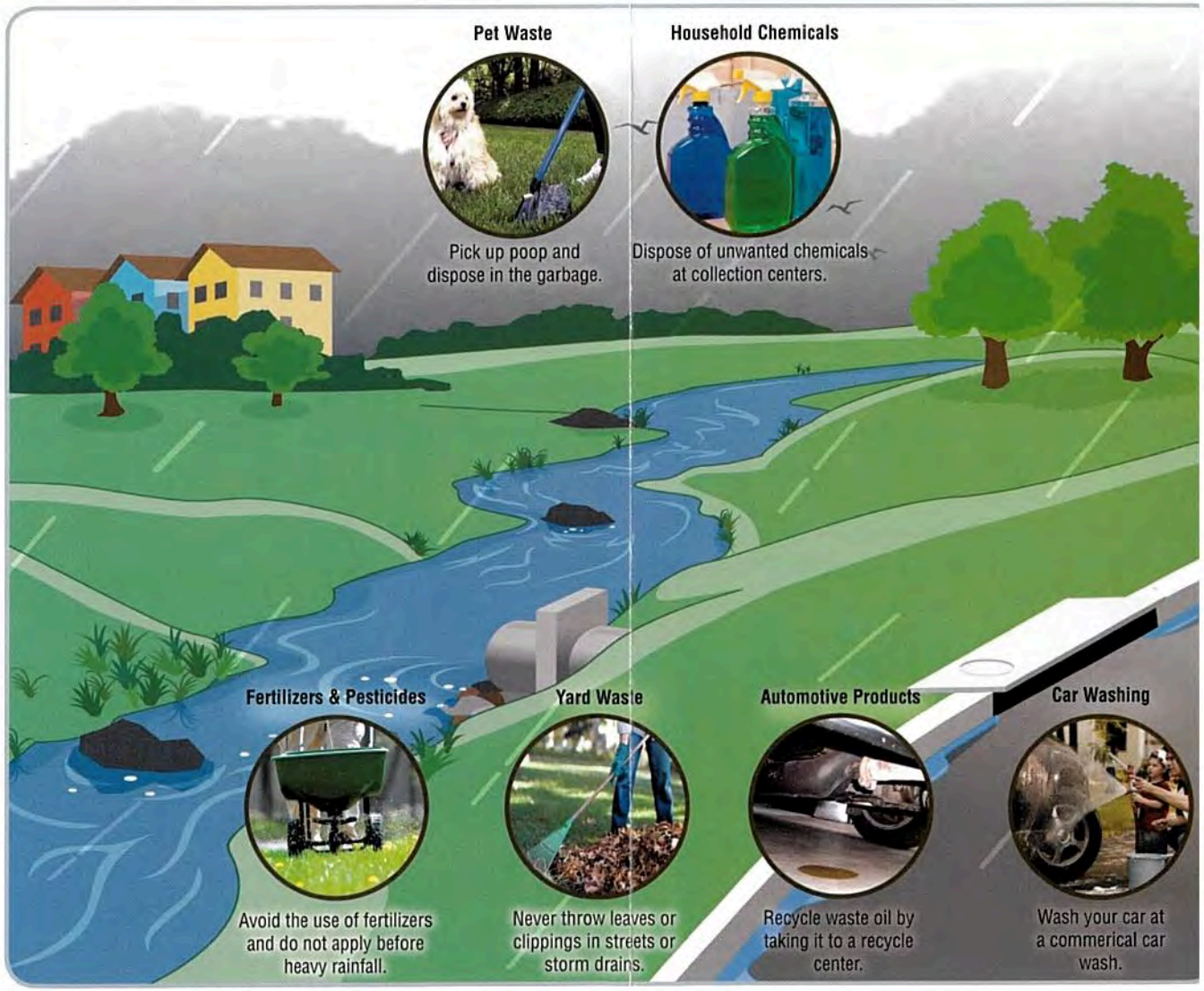
Source: Fort Gordon Fish and Wildlife Management Program

The Problem

Stormwater pollution affects water resources by degrading habitats for aquatic plants and animals, contaminating drinking water sources, impacting the recreational uses of water bodies and destroying the beauty of our landscape.

The Solution

All of us contribute to stormwater pollution in some way or the other through our daily activities. Each individual can play an important role in reducing stormwater pollution by making simple changes to our daily lifestyle and by practicing water conservation techniques.



Prevention

Prevention of accidental discharges of chemicals, oil spills and containment of potential leaks and spills help reduce stormwater pollution.

Tips for Everyone:

Store solids and liquids appropriately.

Always use secondary containment for chemicals.

Trash – keep dumpster lids closed and never put liquid waste into a dumpster.

Equipment – store materials, like batteries and machinery in trays or with drip pans.

Tips for Businesses:

Surface Cleaning – regularly sweep parking lots and areas around your business.

Hazardous Spills – keep spill kits near stored chemicals or bulk cleaning agents and use absorbent mats or socks in case of accidental spills.

Parts/Equipment – use self-contained sinks and tanks when cleaning parts with degreasing solvents. Use pans to catch leaks when working on engines or machinery.

Repairs and Construction – take precautions to prevent illicit discharges from occurring during all building repair or remodeling, especially concrete work and painting.









The Law

Under the Clean Water Act's NPDES Phase II regulations, small municipalities must implement an illicit discharge detection and elimination program. The requirements for such a program include:

- Storm sewer system map
- Legal prohibition and enforcement
- Plan to detect and address illicit discharges
- Public outreach

FOR MORE INFORMATION:

Fort Gordon Directorate of Public Works and Logistics, Environmental and Natural Resources
usarmy.gordon.imcom.mbx.dpw-enrmo@mail.mil

Chief of Environmental Compliance
(706) 791-6237

Municipal Stormwater Coordinator
(706) 791-1432

Environmental/Stormwater Support Line
(706) 791-4286

Fort Gordon's Storm Drain Marking Program
Outreach and Training Specialist
(706) 791-6278

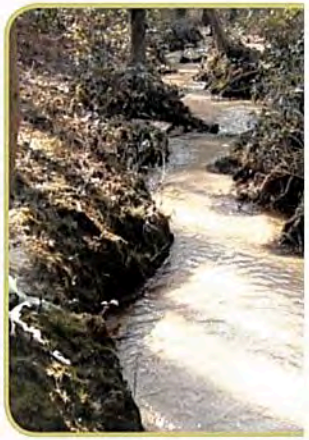
U.S Environmental Protection Agency, National Pollutant Discharge Elimination Program (NPDES)
www.epa.gov/npdes/stormwater

Environmental Protection Division, Watershed Protection Branch
http://www.gaepd.org/Documents/epdforms_wpb.html#storm

Fort Gordon, Georgia

Illicit Discharge Detection and Elimination





Only Rain Down the Drain

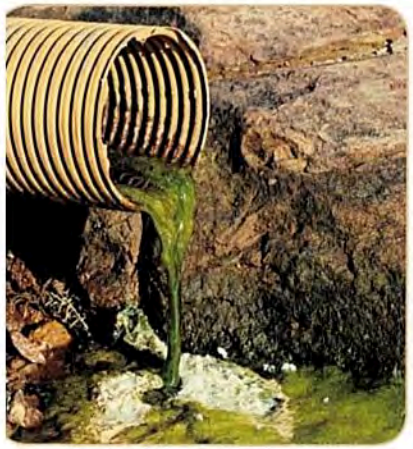
Background

What is an Illicit Discharge?

A discharge to a Storm Sewer System that is not composed entirely of storm water (rain water or snow melt). Exceptions to the illicit discharges include permitted and fire fighting related discharges.

Common examples of illicit discharges include:

- Waste and chemicals such as paint, oil or antifreeze, yard waste and chlorinated swimming pool water poured into or near a storm drain
- Failing septic systems
- Clothes washing and dish washing machine connections to the storm sewer system or nearby stream/pond
- Sanitary sewer connected to a storm drain
- Commercial or industrial chemical discharge



The Problem

When an illicit discharge enters a storm water system, this untreated discharge flows to receiving water bodies and may contribute pollutants such as heavy metals, oil and grease, toxins, solvents, nutrients, viruses and bacteria; which can significantly degrade water quality and threaten aquatic, wildlife and human health.

According to EPA studies, pollutant levels from illicit discharges have been known to be high enough to cause significant pollution in water bodies and threaten aquatic, wildlife and human health.

Illicit discharges may contaminate our waterways with chemicals, communicable diseases and bacteria that harm fish, wildlife and people when they contact the affected water. Many children like to play in small waterways where many illicit discharges begin and the public swims at beaches where illicit discharges drain and accumulate.



EARTH WEEK AT FORT GORDON

During Earth Week activities and other environmental events, soldiers and Fort Gordon environmental staff participate in educational events such as storm drain marking.

You can also participate in a Storm Drain Marking Event and spread awareness about stormwater pollution prevention by labeling the storm drains.

The Solution

The solution is to eliminate these illicit discharges and to report any significant illicit discharges.

You can do your part by keeping all non-stormwater materials away from and out of all curb inlets, grates and water bodies at Fort Gordon.

If you happen to see something exiting a storm pipe or ditch that looks, smells or feels like something other than stormwater, please contact the Compliance Branch Chief, so that we can track it to its source and keep our streams as clean and pure as possible. To report an illicit discharge call **(706) 791-6237** or send an email to **usarmy.gordon.imcom.mbx.dpw-enrmo@mail.mil**.





APPENDIX D

Inspection Form, Documents and GSWCC Certifications

Construction Site Permitting Guidance and Requirements

Fort Gordon and Gillem Enclave
Directorate of Public Works
Environmental / Natural Resources Office Compliance Branch

Prepared For:
State of Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive Suite 1456, East Tower Atlanta, GA 30334

Prepared by:
US Army Garrison Fort Gordon and Gillem Enclave
AMIM-EIP-E
15th Street, Building 14600
Fort Gordon, Georgia 30905

Revised
16 September 2025

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1. Introduction

In accordance with the Federal Clean Water Act, the Georgia Water Quality Control Act, the Georgia Erosion and Sedimentation Control Act, AR 200-1 and the approved Fort Gordon and Gillem Enclave Municipal Separate Storm Sewer System (MS4) Permits, any land disturbing activity on Fort Gordon and Gillem Enclave property must be properly permitted for storm water discharges associated with construction activities.

The Fort Gordon Garrison (Owner) is the responsible permittee for the National Pollutant Discharge Elimination System (NPDES) Construction Storm Water permits and compliance with the permits. The Directorate of Public Works (DPW) has been delegated by the Garrison to ensure compliance of all applicable federal, state and local laws, Army Regulations and approved permits.

Obtaining the applicable storm water management permit(s) associated with land disturbance activities is a critical requirement for all Fort Gorodn and Gillem Enclave projects. The following information and references provide general guidance and guidelines to help assist project proponents in obtaining the applicable federal, state, local and Fort Gordon and Gillem Enclave permit(s) for projects regulated by the GA Erosion and Sedimentation Control Act and the NPDES Construction Storm Water permit.

2. NPDES/LDA Storm Water

Permitting Process:

1. The requirement for NPDES/LDA permitting for any given project is identified in the Fort Gordon /Gillem Enclave Work Control System (WCS) by the Environmental Water Quality Program personnel. By policy, all proposed projects on Fort Gorodn and Gillem Enclave are reviewed for environmental impacts and permitting requirements in the WCS.

2. The requirement for NPDES/LDA permitting identified in the WCS is written into the National Environmental Policy Act (NEPA) documentation for project implementation and post project validation. The NEPA document is transmitted to the Project Proponent or his delegate for implementation.

3. **NPDES/LDA Permit Submittals:**
   DPW Environmental Compliance Branch provides a government employee as POC for all storm water permitting and submittals from the project proponent. The current POC is the Water Quality Program Manager of the DPW Environmental Compliance Branch.

   Directorate of Public Works
   Environmental Compliance Branch
   Water Quality Program
   515 15th Street, Bldg. 14600
   Fort Gordon, GA 30905
   (706) 791-6129, Office

   All project proponents (i.e., AFEES, COE, NSA & MWR, etc.) must provide a single point of

contact (POC) to the DPW Environmental Compliance Branch for each project submitted. This POC may be a project manager, project engineer or whoever the project proponent designates according to their own policies. All responses, communications and request for information shall be directed to the designated POC by the DPW Environmental Compliance Branch.

3. General Provisions

Permitting Thresholds:

Project Impact	Permit Required					
	Fort Gordon/Gillem Enclave MS4 Permit	LIA LDA Permit	NPDES NOI	GAEPD Stream Buffer Variance	USACE 404 Permit	GAEPD Project Justification and Approval
5000 sq ft < Disturbance Area <1 Acre	✓					
1 Acre < Disturbance Area < 50 Acres	✓	✓	✓			
50 acres < Disturbed Area	✓	✓	✓			✓
Disturbed Area within 200' of State Waters	✓	✓				
Disturbed Area within 25' of a Stream	✓	✓		✓		
Wetlands impact, dredging or placement of fill material within Waters of the US	✓	✓			✓	

Projects requiring a Land Disturbance Activity (LDA) permit, an NPDES Notice of Intent (NOI) and/or a GA Environmental Protection Division (EPD) Stream Buffer Variance (SBV) permit require a site-specific Erosion, Sedimentation and Pollution Control Plan (ES&PCP) which shall be prepared by a Georgia Soil and Water Conservation Commission (GSWCC) Level-II certified design professional.

Erosion, Sediment & Pollution Control Plan Design
All plans produced for erosion, sedimentation & pollution control on Fort Gordon and Gillem Enclave shall be generated in accordance with the current edition of the "Manual for Erosion and Sediment Control in Georgia". The manual can be found on the Georgia Soil and Water Conservation Commission website: www.gaswcc.org.

CONSTRUCTION CANNOT BEGIN UNTIL ALL APPLICABLE PERMIT COVERAGE HAS BEEN OBTAINED

Construction Site Area of Disturbance = Less Than 1 Acre:

Any project that will generate land disturbance that is less than 1 (one) acre will require a plan review and written approval from the Fort Gordon/Gillem Enclave Directorate of Public Works Environmental Compliance Branch Water Program before the commencement of land disturbance. The Construction Site Plans which show land disturbance less than an acre that are submitted shall be a scaled drawing/ sketch that shall include the following:

1) Date, Revision Number, North Arrow & Scale.
2) Existing conditions including contours, hardscape, drainage features/structures.
3) The proposed project features.
4) The area of disturbance shown graphically w/ acreage denoted.
5) Soil Erosion, Sedimentation and Pollution Control BMPs graphically depicted on the plans per the current "Manual for Erosion & Sediment Control in Georgia". Details of BMPs are not required.
6) The following four notes:
    a. All land disturbance shall be performed in accordance with the current "Manual for Erosion and Sediment Control in Georgia"
    b. "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
    c. "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
    d. "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."

Submitted plans will be reviewed by the DPW Environmental Water Quality Program for containing the items enumerated in the list above. A response will be written within 45 days. A non-response from the DPW Environmental Water Quality Program within 45 days shall constitute an automatic acknowledgement.

A written waiver for plan submittal may be obtained from the DPW Environmental Water Quality Program on a case-by-case basis for very small projects that would constitute very minor land disturbances. For example: the installation of an air conditioning pad.

Waiver requests must be submitted in writing or email to the DPW Environmental Water Quality Program with a complete project description, location and disturbed area computation. Waiver approvals shall be conditional upon the requirements stipulated in the four notes in Item 6 above and shall be so stated in the approved plan submittal waiver.

Construction Site Area of Disturbance = Less Than 1 Acre But Within 200 Feet of a State Water

Any project involving land disturbance activities less than one (1) acre but within 200 feet of a state water will be require to obtain an LDA permit with the applicable LIA.

1. One (1) set of 100% Design "Erosion, Sedimentation & Pollution Control Plans" designed in accordance with the Manual for Erosion and Sediment Control in Georgia, one (1) GSWCC approved Plan Review Checklist and one (1) Hydrology Study shall be submitted to the DPW Environmental Water Quality Program for review. This review is not a subjective review for plan approval but an objective review by the owner's representative support staff to ensure that the plans contain all elements listed in the GSWCC Plan Review Checklist to gain approval by the State regulatory agencies and the applicable Local Issuing Authority (LIA). Incomplete Plans will not be submitted by the DPW Environmental Water Quality Program on behalf of the primary permittee to the respective regulatory agencies for approval. The DPW Environmental Water Quality Program will notify the project proponent and/or their delegate that the Plan is not ready for regulatory submittal, the Plan requires revisions and will be required to be resubmitted to the DPW Environmental Water Quality Program for review/approval. This submittal also serves to inform the Primary Permittee/Owner, who shares compliance responsibility, of the technical details of the permit by copy.

   NOTE: To consolidate submittals, this 100% Design plan will also be reviewed by the Environmental Water Quality Program personnel to confirm the MS4 permit standards have been implemented in the project design.

2. Upon confirmation of a comprehensive 100% Design for construction sites and 100% conceptual design implementation for post-construction requirements, the DPW Environmental Water Quality Program will conduct a review of the Plan. If the Plan meets the permit requirements, the DPW Environmental Water Quality Program will issue a consolidated review approval and request additional sets of plans, hydrology studies and Plan checklists to be transmitted for submission to the applicable Local Issuing Authority (LIA). The required number of Plans, Hydrology Studies & Checklists vary according to the project location in the county where they are submitted:

   Richmond County LIA……..……...seven (7) sets of each
   Columbia County LIA……...twelve (12) sets of each
   McDuffie County LIA……...eight (8) sets of each
   Jefferson County LIA…….……..eight (8) sets of each
   Forest Park LIA…….……..five (5) sets of each

Any project involving land disturbance activities within the 25-foot vegetative State waters buffer will be required to obtain a state water buffer determination. The proponent and/or their delegate will be required to submit a written request (address to the applicable LIA) to the DPW Environmental Compliance Branch Water Quality Program Manager for review and submission

to the LIA. The LIA's State water buffer determination site visit will be coordinated by the DPW Environmental Compliance Branch Water Quality Program Manager. The DPW Environmental Compliance Branch Water Quality Program Manager will provide a copy of the LIA's written State waters determination to the project proponent and/or their delegate.

Construction Site Area of Disturbance = 1 Acre or Greater
Any project involving land disturbing activity over one (1) acre will require NPDES Construction Stormwater and Land Disturbance Activity (LDA) permitting.

1. One (1) set of 100% Design "Erosion, Sedimentation & Pollution Control Plans" designed in accordance with the Manual for Erosion and Sediment Control in Georgia, one (1) GSWCC Plan Review Checklist and one (1) Hydrology Study shall be submitted to the DPW Environmental Water Quality Program for review. This review is not a subjective review for plan approval but an objective review by the owner's representative support staff to ensure that the plans contain all elements listed in the Plan Review Checklist to gain approval by the State regulatory agencies and the applicable Local Issuing Authority (LIA). Incomplete Plans shall not be submitted by the DPW Environmental Water Quality Program on behalf of the primary permittee to the respective regulatory agencies for approval. The DPW Environmental Water Quality Program will notify the project proponent and/or their delegate that the Plan is not ready for regulatory submittal, the Plan requires revisions and will be required to be resubmitted to the DPW Environmental Water Quality Program for review/approval. This submittal also serves to inform the primary permittee/owner, who shares compliance responsibility, of the technical details of the permit by copy.

   NOTE: To consolidate submittals, this 100% Design plan will also be reviewed by the DPW Environmental Water Quality Program personnel to confirm the MS4 permit standards have been implemented in the project design.

2. Upon confirmation of a comprehensive 100% Design for construction sites and 100% conceptual design implementation for post-construction requirements, the DPW Environmental Water Quality Program will conduct a review of the Plan. If the Plan meets the permit requirements, the DPW Environmental Water Quality Program will issue a consolidated review approval and request additional sets of Plans, hydrology studies and Plan checklists to be transmitted for submission to the applicable Local Issuing Authority (LIA). The required number of Plans, Hydrology Studies & Checklists vary according to the project location in the county where they are submitted:

   Richmond County LIA……..……...seven (7) sets of each
   Columbia County LIA……...twelve (12) sets of each
   McDuffie County LIA……...eight (8) sets of each
   Jefferson County LIA…….…….eight (8) sets of each
   Forest Park LIA……..……..five (5) sets of each

3. A Fort Gordon /Gillem Enclave LDA permit application shall be completed and submitted the Environmental Water Quality Program. Based on the information provided

in the Fort Gordon/Gillem Enclave LDA permit application form, the DPW Environmental Water Quality Program will submit an NOI to the Georgia Environmental Protection Division (GA EPD) via the State's electronic NPDES permitting system to obtain NPDES Construction Stormwater permit coverage.

4. Two (2) checks shall be submitted by the project proponent and/or their delegate; and shall accompany the Plan submittals. Checks are to be made payable to the appropriate LIA and the Department of Natural Resources - EPD. **Note**: Some Local Issuing Authorities may charge additional review fees.

5. All Plan submittals to regulatory agencies on behalf of the Garrison Commander who is the "Owner" and "Primary Permittee" shall be made through the DPW Environmental Water Quality Program.

6. The approved NPDES and LDA Permits require the GSWCC Level II Certified design professional of record to inspect within seven (7) days after the installation the initial sediment storage and perimeter control BMPs. The design professional of record will be required to provide a written record of the inspection and/or inspections with a report of their findings. A copy of the report is to be retained onsite with the project records; and the project proponent and/or their delegate are required to provide a copy of the inspection report(s) to the DPW Environmental Water Quality Program.

7. As stated in the NPDES/LDA storm water permits proper inspection, turbidity monitoring and record keeping will be accomplished by certified personnel on site. The results of turbidity monitoring of discharges for qualifying rain events must be provided to the GA-EPD by the 15th of the month following the rain event. The turbidity monitoring results are to be submitted on the GSWCC turbidity report form provided by the DPW Environmental Water Quality Program. The project proponent and/or their delegate are required to submit a copy of the turbidity monitoring report form, applicable daily rainfall records and laboratory bench sheets to the DPW Environmental Water Quality Program by no later than the 10th of the month following the rain event.

   Each permittee must document in their records all known violations of this permit at his or her site within seven (7) days of his or her knowledge of the violation. In accordance with Part III.D.3 and Part V.A.2 of the NPDES Construction Stormwater permit, the DPW Environmental Water Quality Program must submit a summary of these violations to GA EPD within fourteen (14) days of discovery. Therefore, the project proponent and/or their delegate are required to submit a written summary of the violations to the DPW Environmental Water Quality Program within seven (7) days of discovery.

   It is incumbent upon the primary permittee to ensure that all permit requirements are satisfied. The project proponent and/or their delegate shall provide a copy of the turbidity monitoring reports within the required timeframes in this permit document for the DPW Environmental Water Quality Program to transmit the reports and written notifications to GA EPD and/or the LIA as required by the permits. **Ref**: NPDES GAR100001, GAR100002, GAR100003 and GA EPD Notice of Intent (NOI) for Primary Permittees.

8. A Notice of Termination (NOT) is required to terminate an NPDES Construction Stormwater permit; thereby terminating the responsibilities associated with storm water discharge incumbent on the owner and operator that are delineated in the permit. An NOT can be executed when final stabilization has been achieved and all storm water discharges associated with construction activity have ceased. The NOT will be coordinated through the DPW Environmental Water Quality Program. An NOT inspection will be conducted by the Environmental Water Quality Program upon notification by the project proponent and/or their delegate. If the DPW Environmental Water Quality Program's inspection reveals the project has met final stabilization as defined in the NPDES Construction Stormwater permit, and once the BMPs have been removed; the primary permittee will submit an NOT via the GA EPD's electronic filing system in accordance with the NPDES/LDA permits.

   NOTE: The Fort Gordon construction project NPDES permit process has been outlined in the attached flow charts - Attachment 1 of this document.

Inspections. Construction site inspections will be made at the discretion of the DPW Environmental Water Quality Program. Non-compliance issues and or violations will be addressed via written notification to the project proponent and/or their delegate for correction. If corrections are not achieved in a timely manner (or as spelled out in the written notification) the DPW Environmental Water Quality Program will withdraw construction approval based on Item 6.a. (above). Non-compliance of Item 6.a. (above) constitutes a violation of the Clean Water Act and Georgia Water Quality Control Act which provide procedures for imposing civil penalties for violations. Proper design, installation, and maintenance of best management practices shall constitute a complete defense to any action or to any other allegation of noncompliance.

Site Conditions. Construction site operators must control waste at the construction site such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste.

References

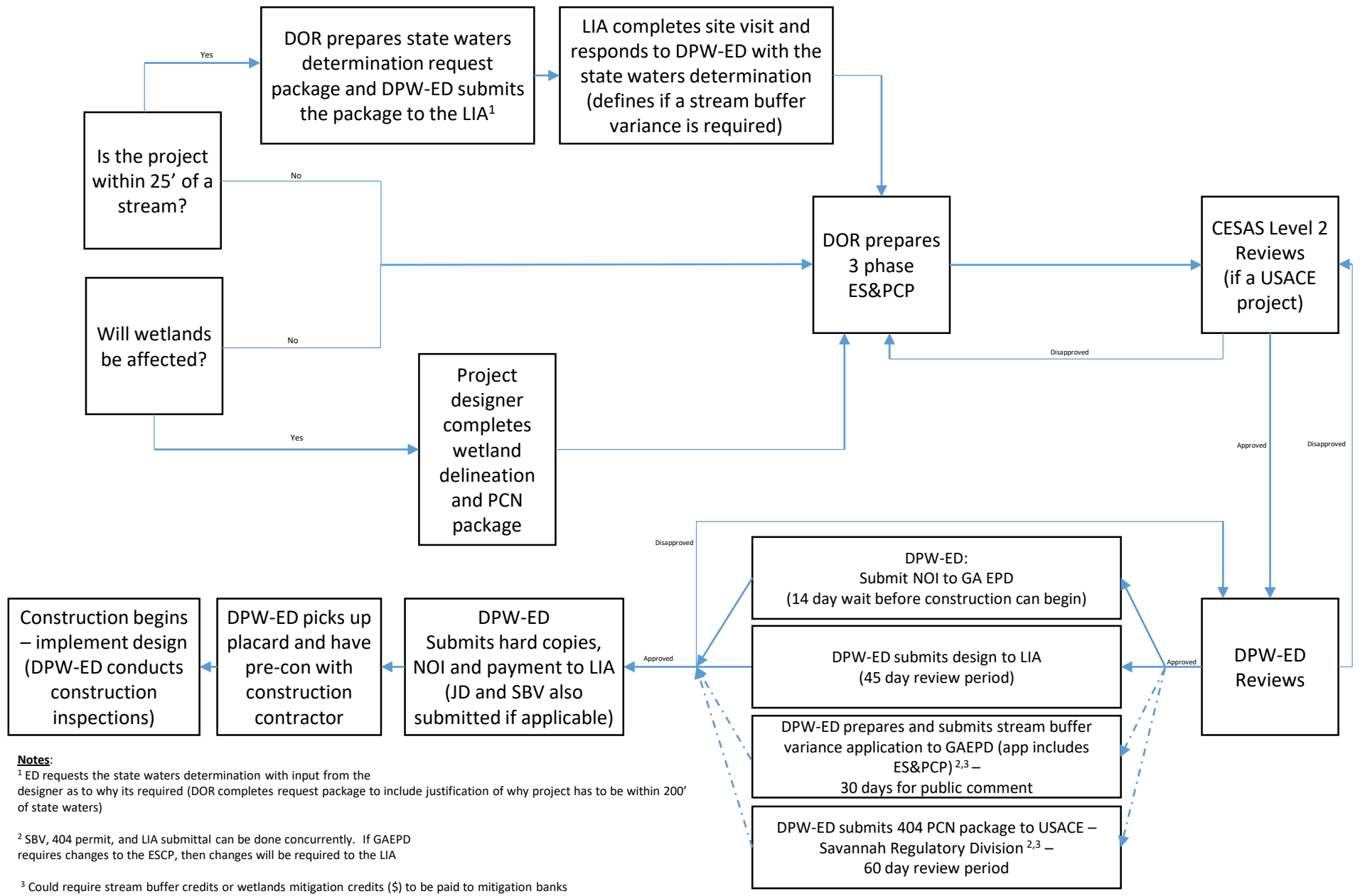
Georgia Soil & Water Conservation Commission: www.gaswcc.org

- NPDES Permits: GAR100001, GAR100002, GAR100003
- NPDES Fee Form
- Notice of Intent (NOI) for Primary Permittees
- Notice of Termination (NOT) for Primary Permittees
- "The Manual for Erosion and Sediment Control in Georgia"
- Plan Review Checklist and Guidance Documents
- Certification Rules and Education Requirements for Individuals Involved in Land Disturbing Activity

Attachment 1
Construction Site Permit
Flow Charts

Projects Over 1 Acre (And Less Than 50 Acres)

This is the GENERAL process. It can change depending on variables that would be project specific.



Notes:

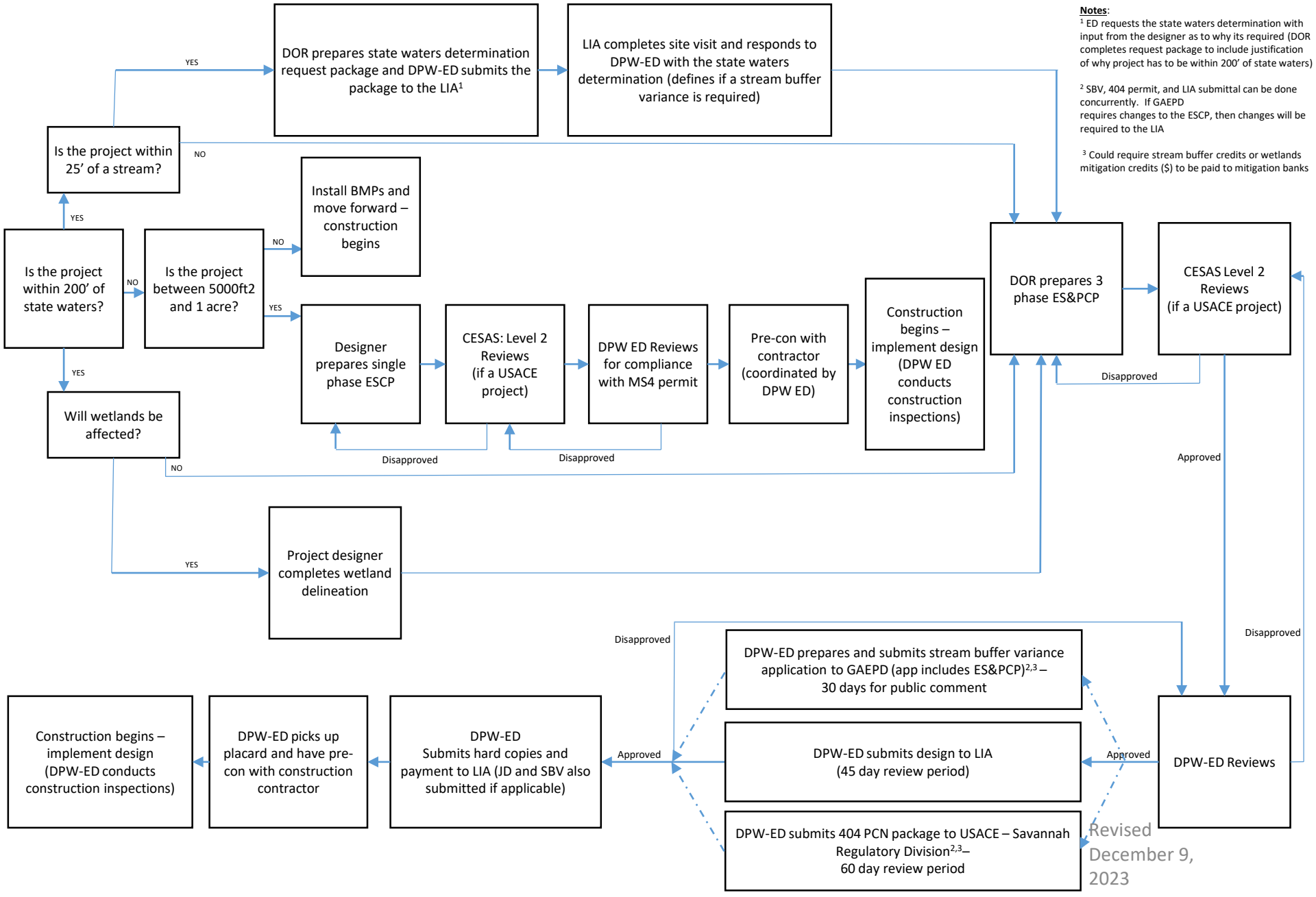
[1] ED requests the state waters determination with input from the designer as to why its required (DOR completes request package to include justification of why project has to be within 200' of state waters)

[2] SBV, 404 permit, and LIA submittal can be done concurrently. If GAEPD requires changes to the ESCP, then changes will be required to the LIA

[3] Could require stream buffer credits or wetlands mitigation credits ($) to be paid to mitigation banks

Projects Under 1 Acre

This is the GENERAL process. It can change depending on variables that would be project specific.



Notes:

[1] ED requests the state waters determination with input from the designer as to why its required (DOR completes request package to include justification of why project has to be within 200' of state waters)

[2] SBV, 404 permit, and LIA submittal can be done concurrently. If GAEPD requires changes to the ESCP, then changes will be required to the LIA

[3] Could require stream buffer credits or wetlands mitigation credits ($) to be paid to mitigation banks

Revised December 9, 2023

Regulatory Stormwater Inspection Report

Submitted By: Submitted Time: CertID:

Project Information

Date:
Project Name:
Project Location:
Phase of Construction:

Inspection Event

Inspection Type:
Rainfall in past 24 hours:

Inspection Observations:

Records		
Question	**Answer**	**Details**
Are inspection records being retained/readily available?		
Are turbidity records being retained/readily available?		
Are inspection performed by certified personnel at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater?		

Material Storage and Litter		
Question	**Answer**	**Details**
Have construction material/debris exposed to stormwater been adequately contained/controlled?		
Is petroleum in a proper containment?		

Control Measures/BMP		
Question	**Answer**	**Details**
Are all of the temporary and permanent controls contained in the Plan in place and properly maintained?		

Bf: Buffer Zone		
Ds1: Soil Stabilization: mulch only 6 -10 inches		
Ds2: Soil Stabilization: temp. seeding		
Ds3: Soil Stabilization: perm. Vegetation		
Ds4: Soil Stabilization: sodding		
Ga: Gabion Baskets		
Du: Dust Control		
Cd: Check Dams: rock/other:		
CH: Channel Stabilization: riprap or vegetation		
Co: Construction Exit Pad		
Mb: Geotextiles		
Rd: Rock Filter Dam		
Rt: Retrofit: Detention/Sediment Pond		
Sd1: Sediment Barrier silt fence		
Sd2: Inlet Sediment Trap		
Sd3: Temporary Sediment Basin		
Sd4- Temporarily sediment trap		
Sr: Temporary Stream Crossing		
St: Storm Drain Oulet Protection		
DI:Diversion		
Sb: Stream Bank Stabilization		
Wt: Vegetated Waterway or Conveyance Channel		
Tree Preservation Fencing		
Concrete wash out		
Sk: Skimmer		
Ss: Slope stabilization		
Fl-Co- flocculants and coagulants		
Cr- Construction road		
Fr-Filter Ring		

Tc Turbidity curtain		
Filter Basket		
Grass filter strips		
Detention/Retention Basin (aboveground):		
Detention/Retention Basin (underground):		
Bio-retention (filtration/infiltration) Basin with underdrain		
Swale		
Infiltration Trench		
Filter Bags		
Hydrodynamic Separator		
Proprietary devices		
Downspouts disconnects		
Other		
Additional Comments		

MS4 Discharge	
Question	**Answer**
Are erosion control measures preventing impacts to receiving waters?	
Are erosion control measures preventing impacts to the MS4?	

Other		
Question	**Answer**	**Details**
Is an Erosion, Sedimentation and Pollution Control Plan revision required?		

Inspector:

DEPARTMENT OF THE ARMY
Directorate of Public Works
Environmental
Compliance Branch
Stormwater Section
515 15th Street, Bldg. 14600
Fort Gordon, Georgia 30905-5040

FORT GORDON
DPW - Environmental
Stormwater Construction Permit Acknowledgement

ALL FORT GORDON DEVELOPERS AND CONSTRUCTION SITE COTRACTORS

BMP Installation Process

Prior to any clearing and grubbing activities, a Construction Exit (CO) must be installed immediately.

The exit shall be maintained in a condition which will prevent tracking of mud onto public rights of way. All materials spilled, dropped, washed, or tracked from vehicles or site on to the roadway or into storm drains must be removed immediately.

Immediately after all clearing and grubbing activities are completed, all perimeter and sediment storage erosion control measures as shown in the initial phase of the approved Erosion Sedimentation and Pollution Control (ESPC) plan must be installed before grading can begin.

Repair all damages to best management practices caused by soil erosion or construction equipment at or before the end of each working day

Turbidity Monitoring and Inspection Reporting Requirements

Projects with an NOI:

Turbidity Monitoring will occur in accordance with the National Pollutant Discharge Elimination System and Land Disturbing Activity (NPDES/LDA) Permit and the approved ESPC plan.

DPW Environmental Compliance Branch will submit turbidity monitoring results to the Georgia Environmental Protection Division (GA-EPD) by the 15th day of the month following the sampling event. A copy of the turbidity monitoring results/report form is to be submitted to the DPW Environmental Compliance Branch by NLT close of business on the 10th day of the month following the reporting period.

Projects with an NOI, LDA and/or MS4 permit:

Inspections - daily rainfall, daily, weekly, monthly (if applicable) and the AE's 7-day report are to be conducted in accordance with the timeframes as spelled out in the NPDES permit and approved ESPCP. DPW ED must be present at DOR 7-day inspection. A copy of all inspection reports, the revised/redlined ESPC or MS4 plans with calculations, BMP specs, and GSMM site development review tool (as applicable) are required to be submitted electronically (or via CD) to DPW ED prior to the DPW ED and/or the LIA regulatory NOT inspection.

Contractor's Acknowledgement

I _____ of_____ _____ assume all responsibilities for the installation, inspection, and maintenance of the approved erosion control measures and for the turbidity monitoring, proper recordkeeping and reporting, for the duration of the permit coverage. Failure to do so shall subject me to violation of the NPDES/LDA Permit, AR 200-1, and all subsequent regulations. A warning letter will be issued for the first violation, if further violations occur penalties can include Stop Work Orders and or monetary fines from regulatory agencies.

Project Name: _____

Inspector (GSWCC Level 1A): _____ Date: _____

 A copy of each Acknowledgement shall be maintained in the Project File for the duration of the project.

Cert. ID	Trainer ID	First Name	MI	Last Name	City	State	PW Rcvd	Level AW Expiration	Level 1A Expiration	Level 1B Expiration	Level II Expiration	Trainer 1 Expiration	Trainer 2 Expiration
0000058516		Shannon	D	Scott	North Augusta	SC	Y			08-19-2027	11-29-2027		

Cert. ID	Trainer ID	First Name	MI	Last Name	City	State	PW Rcvd	Level AW Expiration	Level 1A Expiration	Level 1B Expiration	Level II Expiration	Trainer 1 Expiration	Trainer 2 Expiration
0000090529		Will	C	Credille	Greensboro	GA	Y		02-13-2023	07-02-2026	08-17-2026		

Cert. ID	Trainer ID	First Name	MI	Last Name	City	State	PW Rcvd	Level AW Expiration	Level 1A Expiration	Level 1B Expiration	Level II Expiration	Trainer 1 Expiration	Trainer 2 Expiration
0000099119		Paul	W	Brison	Augusta	GA	Y		07-21-2025	01-18-2026	02-07-2026		

Cert. ID	Trainer ID	First Name	MI	Last Name	City	State	PW Rcvd	Level AW Expiration	Level 1A Expiration	Level 1B Expiration	Level II Expiration	Trainer 1 Expiration	Trainer 2 Expiration
0000082992		Hunter	A	Morrison	Sandersville	GA	Y		03-01-2021	06-28-2028	07-09-2027		

Cert. ID	Trainer ID	First Name	MI	Last Name	City	State	PW Rcvd	Level AW Expiration	Level 1A Expiration	Level 1B Expiration	Level II Expiration	Trainer 1 Expiration	Trainer 2 Expiration
0000104221		Steven	S	West	McDonough	GA	Y		11-02-2026	01-17-2027	01-19-2027		

Cert. ID	Trainer ID	First Name	MI	Last Name	City	State	PW Rcvd	Level AW Expiration	Level 1A Expiration	Level 1B Expiration	Level II Expiration	Trainer 1 Expiration	Trainer 2 Expiration
0000095830		Alicia	M	Bill	Grovetown	GA	Y			10-20-2027	11-03-2027		

APPENDIX E

Post-Construction Permitting Policy, Post-Construction and GI/LID Structure Maps and Inventories, Inspection and Maintenance Forms and Documents

Post-Construction Design and Permitting Requirements

Fort Gordon and Gillem Enclave
Directorate of Public Works
Environmental/Natural Resources Office Compliance Branch

Prepared For:
State of Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive Suite 1456, East Tower Atlanta, GA 30334

Prepared by:
US Army Garrison Fort Gordon and Gillem Enclave
AMIM-EIP-E
15th Street, Building 14600
Fort Gordon, Georgia 30905

Revised
16 September 2025

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2. Fort Gordon and Gillem Enclave MS4 Plan Approval Process 3
3. References 4

1. Introduction

In December 2007, Congress enacted the Energy Independence and Security Act (EISA). Section 438 of that legislation establishes Storm Water runoff requirements for development and redevelopment projects on federal lands. The provision reads as follows:

> "**Storm water runoff requirements for federal development projects**: The sponsor of any development or redevelopment project involving a Federal facility with a footprint that exceeds 5,000 square feet shall use site planning, design, construction, and maintenance strategies for the property to maintain or restore, to the maximum extent technically feasible, the predevelopment hydrology of the property with regard to temperature, rate, volume, and duration of flow."

The intent of Section 438 of the Energy Independence and Security Act of 2007 (EISA) is to require development on federal lands to utilize storm water practices that maintains or restores the hydrology, including ground water recharge, to its pre-developed state.

"The Technical Guidance for Implementing the Storm Water Runoff Requirements for Federal Projects under Section 438 of the Energy Independence Act" can be found at www.epa.gov/owow/nps/lid/section438.

Fort Gordon and Gillem Enclave each hold an approved General National Pollution Discharge Elimination System Permit (No. GAG480000) , Small Municipal Separate Storm Sewer System (MS4) at a Military Facility, which authorizes storm water point source discharges into waters of the State from the installations' storm water collection system. The MS4 is owned by the Fort Gordon Garrison and operated per the permits through its delegate, the Directorate of Public Works (DPW).

All drainage structures, features, storm water conveyances and GI/LID BMPs are elements of the MS4 and shall conform to the requirements outlined in the permit and the Georgia Stormwater Management Manual (GSMM).

In conjunction with the stormwater management requirements of EISA and the GSMM, this storm water quality permitting policy and design guidance serve to ensure controls are in place that will prevent or minimize water quality impacts from new development and redevelopment projects executed at Fort Gordon and Gillem Enclave. The water quality performance standards will be applied for new development that creates or adds 5,000 square feet or greater of new impervious surface area, or that involves land disturbing activity of one acre of land or greater; and to redevelopment that creates, adds or replaces 5,000 square feet or greater of new impervious surface area, or that involves land disturbing activity or one acre or more, or that involves land disturbing activity of one acre of land or more, including projects less than 1 acre if they are part of a larger common plan of development or sale. The design guidance as outlined in Fort Gordon and Gillem Enclave's Post-Construction Permitting Policy are criteria of Fort Gordon and Gillem Enclave's MS4 Permit approved by the Georgia Department of Natural Resources, Environmental Protection Division (EPD).

2. Fort Gordon and Gillem Enclave MS4 Plan Approval Process

a. The requirement for the MS4 permit standards to be incorporated into any given project are identified in the Fort Gordon and Gillem Enclave Work Control System (WCS) by the DPW Storm Water Quality Section personnel. By policy, all proposed projects on Fort Gordon and Gillem Enclave are reviewed for environmental impacts and permitting requirements in the WCS.

b. The requirement for implementation of the MS4 permit standards as identified in the WCS are written into the National Environmental Policy Act (NEPA) documentation for project implementation and post project validation. The NEPA document is transmitted to the project proponent and/or their delegate for implementation.

MS4 Plan Submittal Process:
DPW Environmental Compliance Branch provides a government employee as the point of contact (POC) for all stormwater permitting and submittals from the project proponents. The current POC is the Water Quality Program Manager of the DPW Environmental Compliance Branch. Plans are to be submitted to:

Directorate of Public Works
Environmental Compliance Branch
Water Quality Program
515 15th Street, Bldg. 14600
Fort Gordon, GA 30905

All project proponents (i.e., AFEES, COE, NSA & MWR, etc.) shall provide a single point of contact (POC) to DPW Environmental Compliance Branch Storm Water Quality Section for each project submitted. The POC may be a project manager, project engineer or whoever the project proponent designates according to their own procedures & policies. All responses, communications and request for information shall be directed to the designated POC by DPW Environmental Compliance Branch Storm Water Quality Section.

i) Plans at the 100% design shall be submitted for review and shall include site drainage areas graphically depicted and the BMP(s) to be installed to manage the storm water runoff from that area. Final calculations of the impervious surface runoff in each drainage area in relation to the BMP(s) and their respective treatment volume shall also be included along with a copy of the completed GSMM Site Development Review Tool and Hydrologic and Hydraulic (H&H) report. This submittal will be reviewed to ensure that the design has been developed in accordance with the regulations and permit standards.

ii) Submitted plans will be reviewed by the DPW Storm Water Quality Section and a response written within 45 days. A non-response from the DPW Storm Water Quality Section within 45 shall constitute an automatic approval.

NOTE: To consolidate submittals, the 100% Design plan will also be reviewed by the DPW Storm Water Quality Section personnel for applicable NPDES Construction Stormwater and Local Issuing Authority (LIA) Land Disturbance Activity (LDA) permitting (reference the Construction Site Permitting Guidance and Requirements for further details).

3. References

Atlanta Regional Commission: Georgia Stormwater Management Manual – ARC (atlantaregional.org)

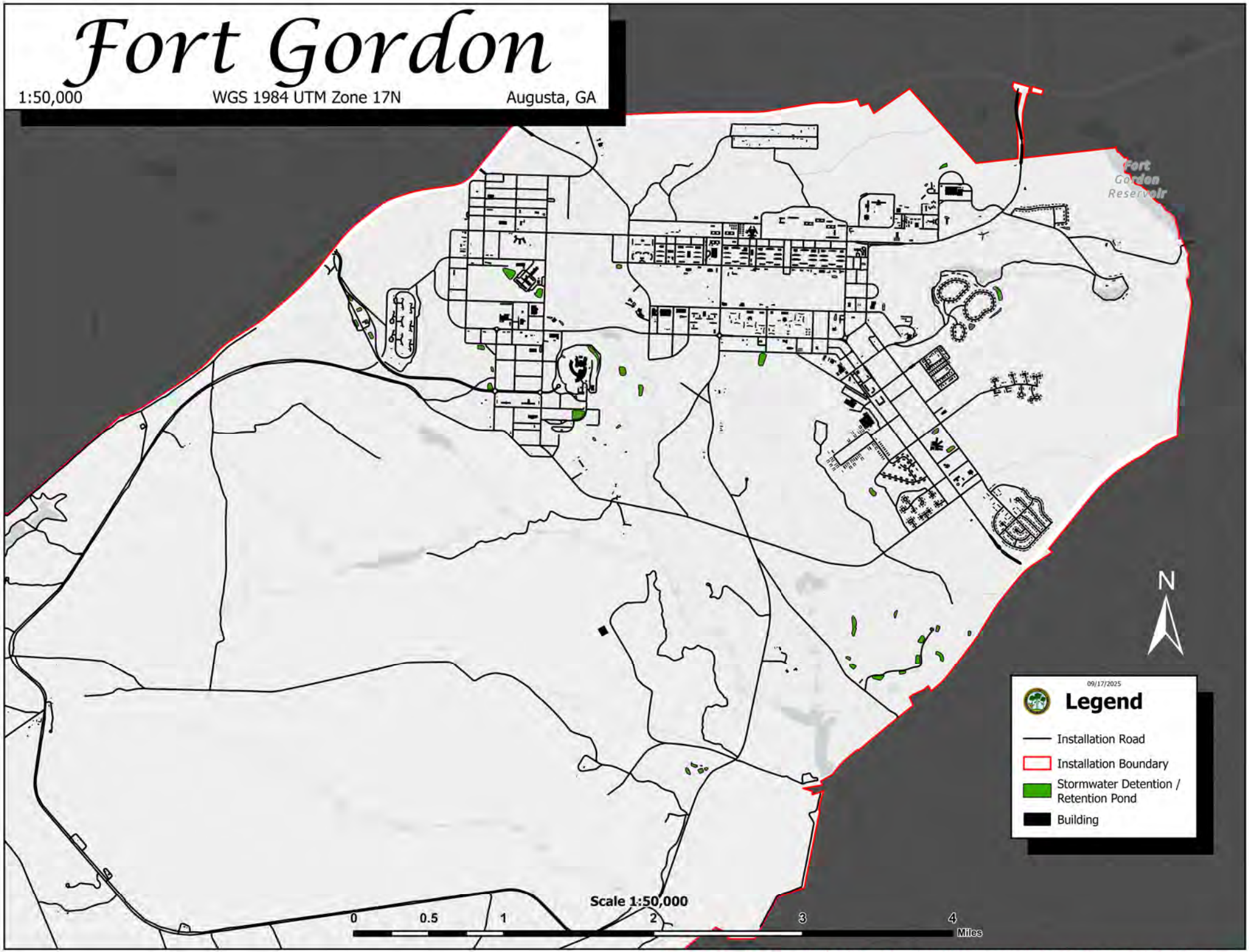
- GSMM 2016 Edition
- Site Development Review Tool
- Site Development Review Tool User Manual

Georgia Environmental Protection Division: Municipal Stormwater | Environmental Protection Division (georgia.gov)

- NPDES Permit: GAG480000

Fort Gordon

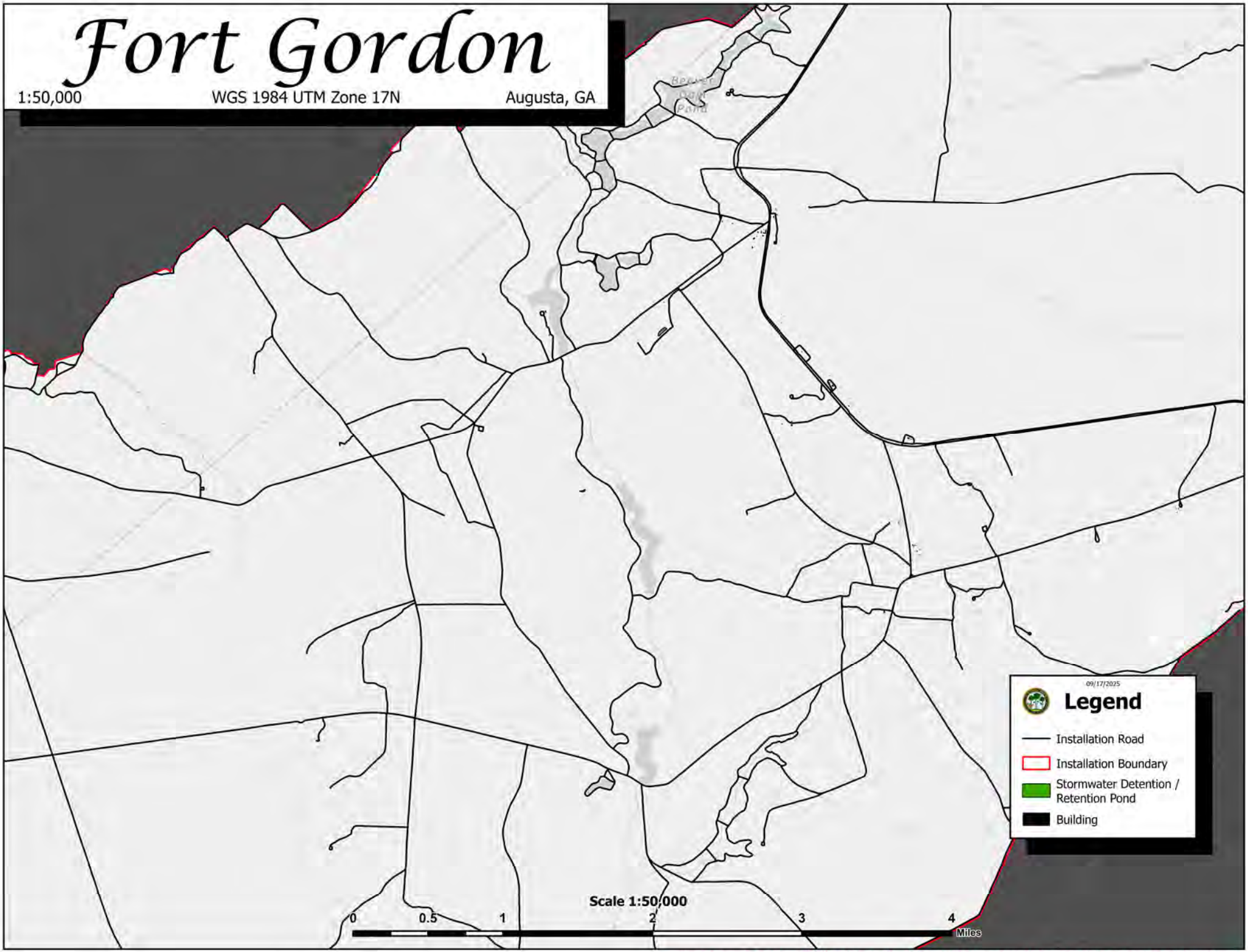
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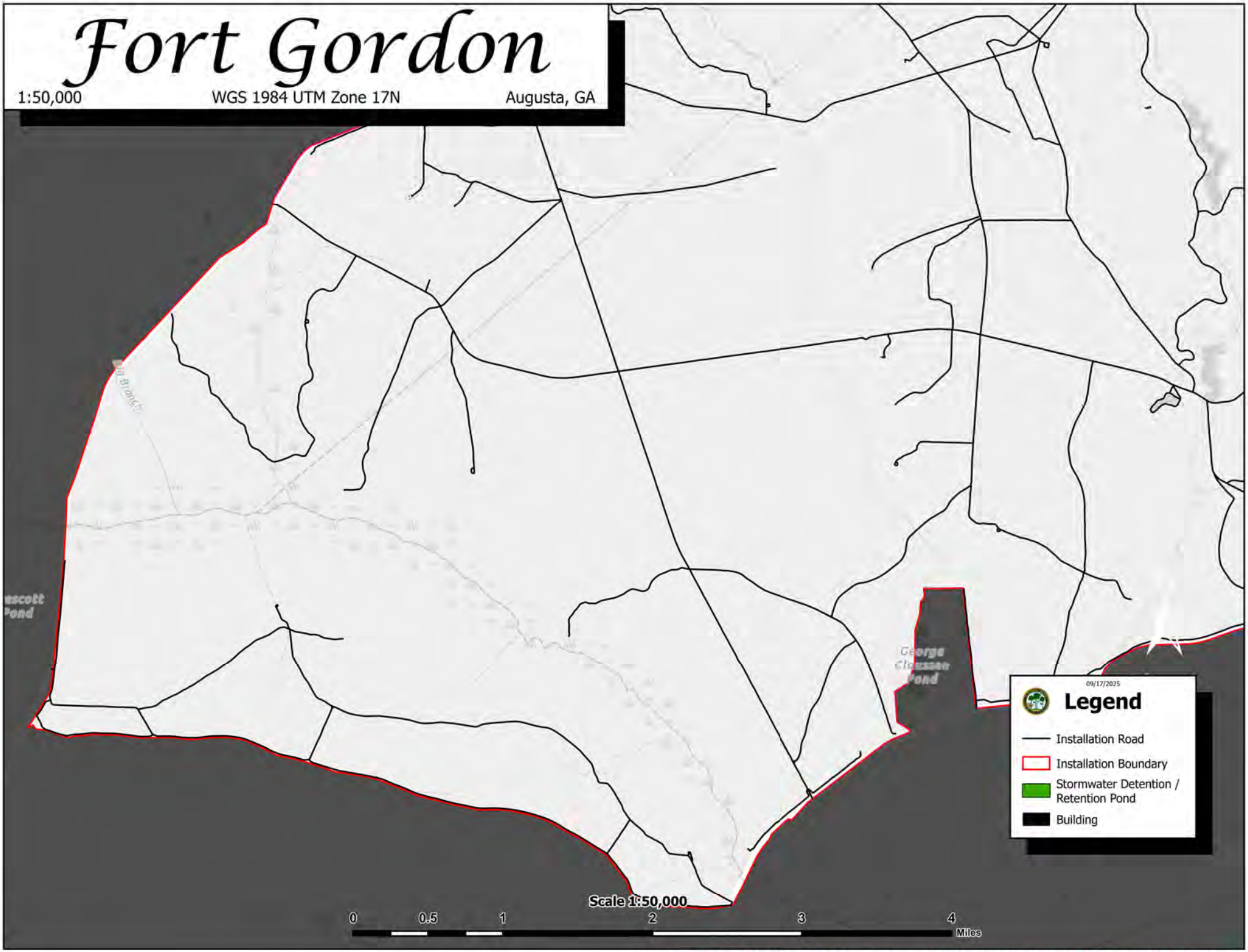
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Fort Gordon
1:50,000
WGS 1984 UTM Zone 17N
Augusta, GA
09/17/2025
Legend
Installation Road
Installation Boundary
Stormwater Detention / Retention Pond
Building
Scale 1:50,000
0
0.5
1
2
3
4
Miles

Fort Gordon Detention and Retention Inventory

Structure ID	GEOS ID	X	Y	Feature Type
SWSC-01	1	-82.17295927	33.42755277	BMP
SWSC-02	2	-82.17339888	33.41994733	BMP
SWSC-03	3	-82.17687521	33.42184823	BMP
SWSC-05	5	-82.16421187	33.42260875	BMP
SWSC-07	13	-82.13907917	33.41792057	BMP
SWSC-08	14	-82.13352199	33.41897832	BMP
SWSC-09	27	-82.12560782	33.40527506	BMP
SWSC-10	26	-82.12737354	33.40699119	BMP
SWSC-11	4	-82.17895494	33.41086839	BMP
SWSC-12	28	-82.13456168	33.40101974	BMP
SWSC-13	25	-82.11253181	33.4267992	BMP
SWSC-15	24	-82.12633981	33.42768278	BMP
SWSC-17	6	-82.1624098	33.41900947	BMP
SWSC-18	8	-82.16366756	33.41251153	BMP
SWSC-19	9	-82.16153636	33.41071499	BMP
SWSC-20	12	-82.16405488	33.40714799	BMP
SWSC-21	11	-82.16684419	33.40585351	BMP
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SWSC-27C	18	-82.1255145	33.42230231	BMP
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SWSC-34	33	-82.12906281	33.42971782	BMP
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SWSC-36	30	-82.13594957	33.42988497	BMP
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SWSC-38	31	-82.1247145	33.40186581	BMP
SWSC-39A	37	-82.15489442	33.37437007	BMP
SWSC-39B	40	-82.15406428	33.37434282	BMP
SWSC-39C	39	-82.15349221	33.3740544	BMP
SWSC-39D	38	-82.15411366	33.37386112	BMP
SWSC-40	41	-82.24219249	33.36825477	BMP
SWSC-41	46	-82.12675049	33.43273493	BMP
SWSC-42	45	-82.13099899	33.42741178	BMP
SWSC-43	44	-82.13102297	33.42723314	BMP
SWSC-44A	42	-82.17078263	33.41709553	BMP
SWSC-44B	43	-82.17213073	33.41759646	BMP
SWSC-46	47	-82.16900479	33.40997079	BMP
SWSC-48	48	-82.13590138	33.42312797	BMP
SWSC-49	50	-82.15560885	33.37381083	BMP
SWSC-50	51	-82.156826	33.417834	Stormwater Detention Pond
SWSC-51	52	-82.17777226	33.41734627	StormWater Pond - 12400
SWSC-52	53	-82.17712623	33.41781211	Stormwater Pond - 12400
SWSC-53	54	-82.17721533	33.41887168	StormWater Pond - 12400
SWSC-55	55	-82.13209545	33.42554311	Storm Water Detention Pond
SWSC-56	56	-82.15649086	33.42201655	Storm Water Detention Pond
SWSC-58	57	-82.15086978	33.4220369	Storm Water Detention Pond

Fort Gordon Detention and Retention Inventory

SWSC-60	58	-82.17872859	33.41254327	Storm Water Detention Pond
SWSC-62	59	-82.14571917	33.41570256	Storm Water Detention Pond
SWSC-63	60	-82.19518997	33.41924875	Storm Water Pond - Gate 6
SWSC-64	61	-82.19416775	33.41815892	Storm Water Pond - Gate 6
SWSC-65	62	-82.19447208	33.41685785	Storm Water Pond - Gate 6
SWSC-66	63	-82.19366537	33.41697912	Storm Water Pond - Gate 6
SWSC-67	64	-82.1932759	33.41702986	Storm Water Pond - Gate 6
SWSC-68	65	-82.19278288	33.41567885	Storm Water Pond - Gate 6
SWSC-69	66	-82.16657901	33.43494508	StormWater Retaining Pond - 19900
SWSC-70	67	-82.1392411	33.42185993	BMP
SWSC-72	68	-82.18211492	33.42525352	Storm Water Detention Pond
SWSC-73	69	-82.18005558	33.41464391	Wet Detention Pond
SWSC-74	70	-82.13653797	33.38810494	Storm Water Retention/DetentionPonds
SWSC-75	71	-82.13714603	33.38495617	Storm Water Retention/DetentionPonds
SWSC-76	72	-82.13663017	33.38413218	Storm Water Retention/DetentionPonds
SWSC-77	73	-82.13368437	33.38307023	Storm Water Retention/DetentionPonds
SWSC-78	74	-82.13089201	33.38356953	Storm Water Retention/DetentionPonds
SWSC-79	75	-82.12913828	33.38487831	Storm Water Retention/DetentionPonds
SWSC-80	76	-82.1287263	33.38683402	Storm Water Retention/DetentionPonds
SWSC-81	77	-82.12687558	33.38790979	Storm Water Retention/DetentionPonds
SWSC-82	78	-82.13176196	33.38926984	Storm Water Retention/DetentionPonds
SWSC-83	79	-82.13567732	33.38268558	Storm Water Retention/DetentionPonds
SWSC-84	80	-82.12320849	33.38748614	Storm Water Retention/DetentionPonds
SWSC-85	81	-82.12654404	33.38526511	Storm Water Retention/DetentionPonds
SWSC-86	82	-82.13098703	33.42864256	Bioretention LID
			Total:	**82**

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: **Inspection Type:**
BMP Type: Detention Basin **MS4 Feature:**
Coordinate X: **Coordinate Y:**

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Access to the site is adequately maintained for inspection and maintenance.		
Area is clean (trash, debris, grass clippings, etc. removed).		
Drainage ways (overland flow or pipes) to the practice are free of trash, debris, large branches, etc.		
Area around the inlet/outlet structure is mowed and grass clippings are removed.		
No evidence of gullies, rills, or excessive erosion around the inlet/outlet structure.		
Water is going through structure (i.e. no evidence of water going around the structure).		
Inlet/outlet pipe is in good condition and is not clogged		
Diversion structure (high flow bypass structure or other) is free of trash, debris, or sediment. Comment on overall condition of diversion structure and list type.		
Erosion protection is present on site (i.e. turf reinforcement mats). Comment on types of erosion protection and evaluate condition.		
Main treatment area is free of trash, debris, and sediment.		
No evidence of long-term ponding or standing water in the ponding area of the practice (examples include: stains, odors, mosquito larvae, etc.)		
Basin seems to be working properly. No settling around the basin. Comment on overall condition of basin.		
Vegetation within and around practice is maintained. Grass clippings are removed.		
Sediment accumulation within dry detention basin is less than 3 inches.		
No standing water within the basin		
Emergency overflow is free of trash, debris, and sediment.		
No evidence of erosion, scour, or flooding around the structure.		

No shrubs or trees growing on embankment.		
No signs of seepage on the downstream face.		
No signs of animal activity		

Additional Comments:

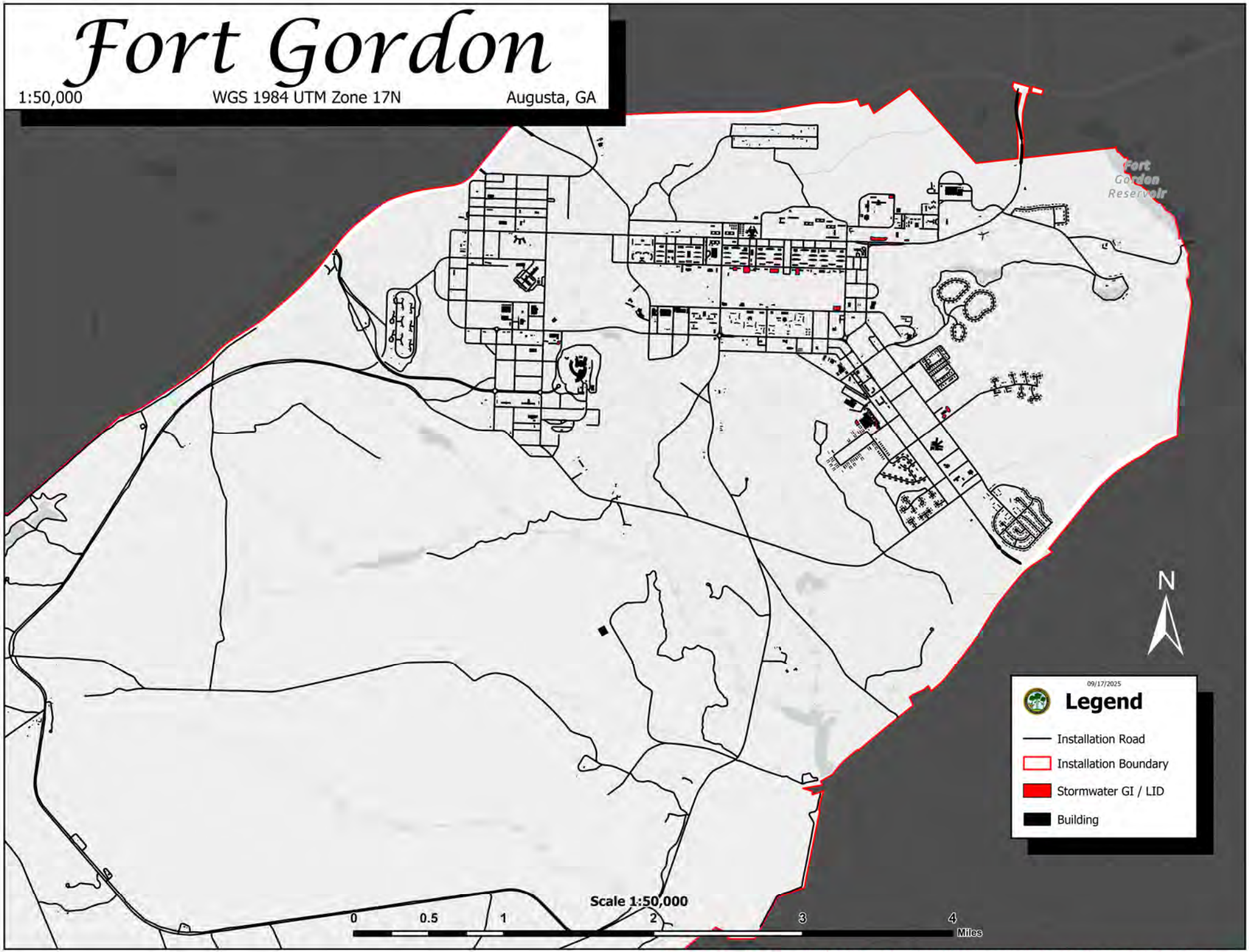
Photos:

Finding	Lat/Long	Photo

Inspector:

Fort Gordon

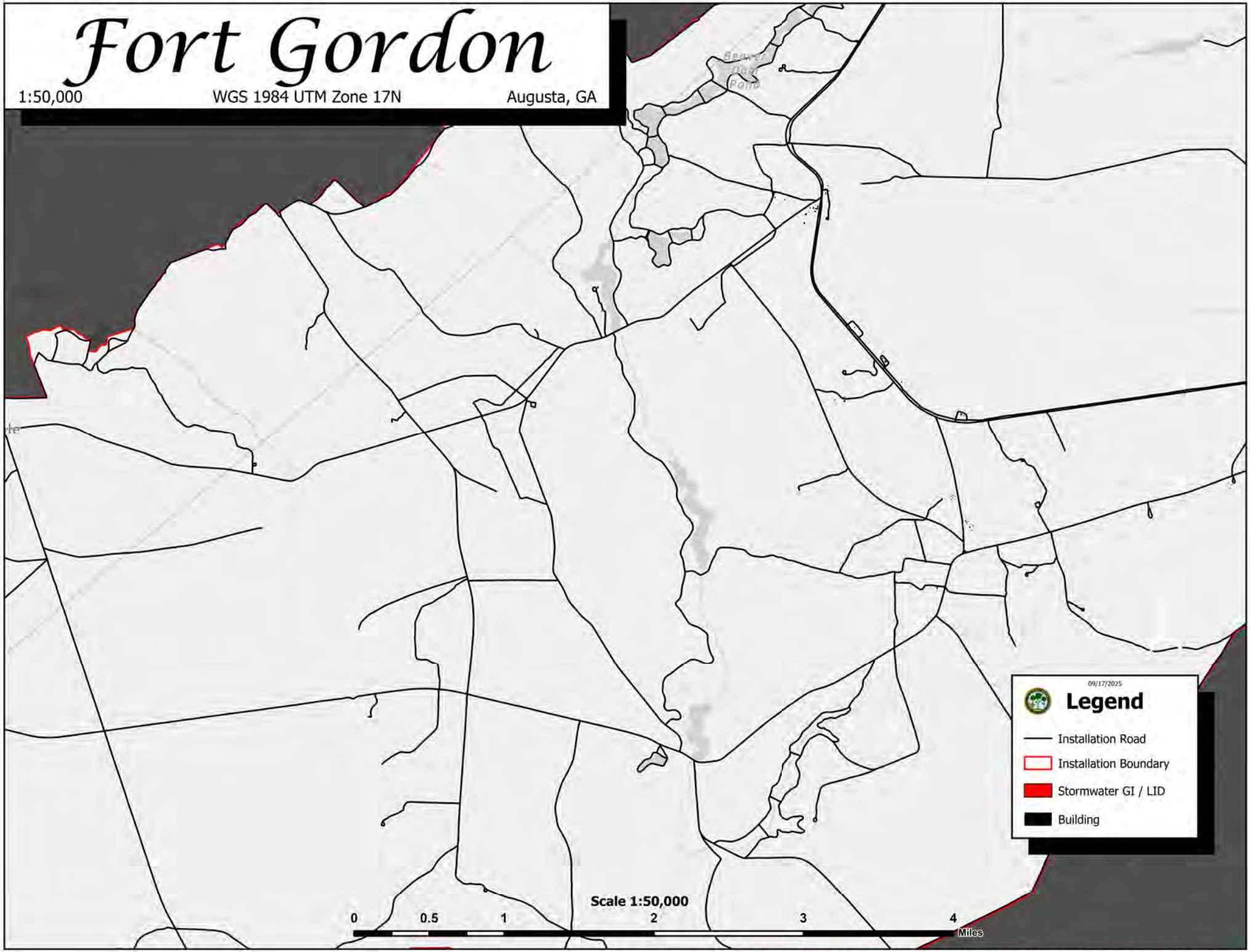
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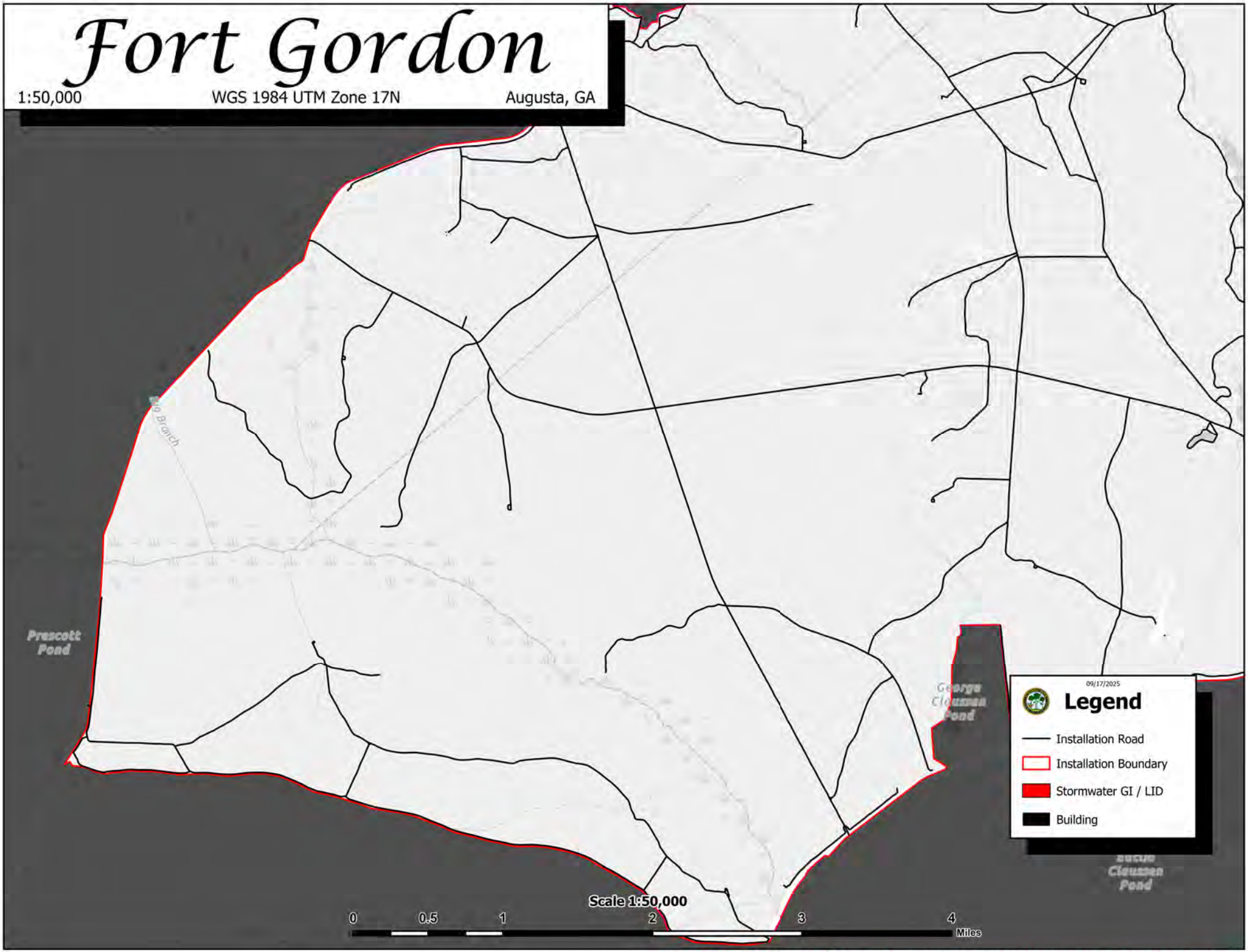
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Fort Gordon GI/LID Inventory

Structure ID	GEOS ID	X	Y	featureName
LID-01	1	-82.17139732	33.41515032	BMP
LID-02	2	-82.14570332	33.41779564	BMP
LID-03	3	-82.10810263	33.42490283	BMP
LID-04	4	-82.10827695	33.42517425	BMP
LID-05	5	-82.1494595	33.42243666	BMP
LID-06	6	-82.14626515	33.42237085	BMP
LID-07	7	-82.14349943	33.42232322	Permeable Paver
LID-08	8	-82.12639994	33.4084599	BMP
LID-09	9	-82.12596459	33.40916889	BMP
LID-10	10	-82.13093542	33.42545522	Dry Enhanced Swell
LID-11	11	-82.17011089	33.41368535	BMP
LID-12	13	-82.13562024	33.40907041	Bioretention
LID-13	14	-82.13510594	33.4088226	Bioretention
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LID-22	23	-82.13280141	33.42969096	BMP
LID-23	24	-82.13892201	33.41883012	Permeable Paver
LID-24	25	-82.15079367	33.42251302	Permeable Paver
LID-25	26	-82.15302221	33.41574607	Bioretention
LID-26	27	-82.15151694	33.41593424	Bio-Swale
LID-27	28	-82.15225852	33.4164813	Bio-Swale
LID-28	29	-82.15614637	33.42317469	Permeable Paver
LID-29	30	-82.1352903	33.40918227	Bioretention
LID-30	31	-82.13507123	33.40910881	Bioretention
LID-31	32	-82.13494587	33.40897299	Bioretention
LID-32	33	-82.13482296	33.40883857	Bioretention
LID-33	34	-82.1343146	33.40827444	Bioretention
LID-34	35	-82.13419152	33.40813854	Bioretention
LID-35	36	-82.13406901	33.40800283	Bioretention
LID-36	37	-82.13395337	33.40785969	Bioretention
LID-37	38	-82.13391051	33.40769519	Bioretention
LID-38	39	-82.13388523	33.40748593	Bioretention
LID-39	40	-82.15563358	33.3729907	BMP
LID-40	12	-82.13644509	33.40775307	BMP
LID-41	41	-82.13279975	33.40932351	Underground Detention
LID-42	42	-82.13310735	33.40968152	Underground Detention
LID-43	43	-82.14442305	33.42816298	Underground Detention
LID-44	44	-82.16645903	33.43496952	Bio-Retention LID
LID-45	45	-82.1738014	33.40762976	Underground Detention
LID-46	46	-82.15769837	33.41848739	UnderDrain LID
LID-47	47	-82.15734357	33.41864617	UnderDrain LID
LID-48	48	-82.1562338	33.41838838	UnderDrain LID
LID-49	50	-82.15613567	33.42276196	Dry Enhanced Swale LID
LID-50	51	-82.18247576	33.42718413	Dry Enhanced Swale LID
LID-51	49	-82.15690558	33.42250029	Planter Box
LID-52	52	-82.17766194	33.41835065	Permeable Paver LID
LID-53	53	-82.17753407	33.41835396	Permeable Paver LID
LID-54	54	-82.17738538	33.41835238	Permeable Paver LID
LID-55	55	-82.17726331	33.41835327	Permeable Paver LID
LID-56	56	-82.17711538	33.4183467	Permeable Paver LID
LID-57	57	-82.1769912	33.41835814	Permeable Paver LID
LID-58	58	-82.1768406	33.41835183	Permeable Paver LID
LID-59	59	-82.17672095	33.41834496	Permeable Paver LID
LID-60	60	-82.17755069	33.41877391	Permeable Paver LID
LID-61	61	-82.17719103	33.41877202	Permeable Paver LID
LID-62	62	-82.1767968	33.41877107	Permeable Paver LID
LID-63	63	-82.12840421	33.43053605	Water Quality Unit
LID-64	64	-82.1765031	33.4188686	Water Quality Unit
LID-65	65	-82.17776033	33.41782117	Water Quality Unit

This Report was Generated December 2025

Fort Gordon GI/LID Inventory

SWDS-0001	1	-82.177556	33.416212	swDownspout
SWDS-0002	2	-82.177477	33.416214	swDownspout
SWDS-0003	3	-82.177393	33.416213	swDownspout
SWDS-0004	4	-82.17731	33.416215	swDownspout
SWDS-0005	5	-82.17723	33.416214	swDownspout
SWDS-0006	6	-82.177229	33.416073	swDownspout
SWDS-0007	7	-82.177315	33.416071	swDownspout
SWDS-0008	8	-82.177402	33.416072	swDownspout
SWDS-0009	9	-82.177488	33.416071	swDownspout
SWDS-0010	10	-82.177556	33.416069	swDownspout
SWDS-0014	11	-82.133625	33.410032	swDownspout
SWDS-0015	12	-82.133716	33.410132	swDownspout
SWDS-0016	13	-82.133755	33.410174	swDownspout
SWDS-0018	14	-82.133319	33.410008	swDownspout
SWDS-0020	15	-82.133446	33.410147	swDownspout
SWDS-0022	16	-82.133575	33.410289	swDownspout
SWDS-0024	17	-82.133506	33.409889	swDownspout
SWDS-0026	18	-82.133607	33.409856	swDownspout
SWDS-0028	19	-82.133882	33.409648	swDownspout
SWDS-0030	20	-82.134008	33.409787	swDownspout
SWDS-0032	21	-82.134027	33.409807	swDownspout
SWDS-0034	22	-82.134138	33.409929	swDownspout
SWDS-0036	23	-82.134317	33.409814	swDownspout
SWDS-0038	24	-82.134188	33.409672	swDownspout
SWDS-0040	25	-82.134108	33.409585	swDownspout
SWDS-0042	26	-82.13406	33.409533	swDownspout
SWDS-0044	27	-82.133852	33.409368	swDownspout
SWDS-0046	28	-82.133575	33.409539	swDownspout
SWDS-0048	29	-82.133489	33.409594	swDownspout
SWDS-0050	30	-82.133188	33.409804	swDownspout
SWDS-0070	31	-82.135802	33.408634	swDownspout
SWDS-0071	32	-82.135767	33.408656	swDownspout
SWDS-0072	33	-82.13573	33.408679	swDownspout
SWDS-0073	34	-82.135695	33.4087	swDownspout
SWDS-0074	35	-82.135659	33.408724	swDownspout
SWDS-0075	36	-82.13562	33.408747	swDownspout
SWDS-0080	37	-82.132214	33.42586	swDownspout
SWDS-0081	38	-82.132214	33.425974	swDownspout
SWDS-0082	39	-82.132214	33.426096	swDownspout
SWDS-0083	40	-82.131883	33.426123	swDownspout
SWDS-0084	41	-82.131883	33.42605	swDownspout
SWDS-0085	42	-82.131883	33.425914	swDownspout
SWDS-0091	43	-82.156442	33.422259	swDownspout
SWDS-0092	44	-82.15637	33.422258	swDownspout
SWDS-0098	45	-82.155839	33.42227	swDownspout
SWDS-0099	46	-82.155834	33.422344	swDownspout
SWDS-0100	47	-82.155831	33.422455	swDownspout
SWDS-0101	48	-82.155905	33.422522	swDownspout
SWDS-0102	49	-82.155985	33.422524	swDownspout
SWDS-0103	50	-82.15606	33.422525	swDownspout
SWDS-0104	51	-82.156443	33.422532	swDownspout
SWDS-0105	52	-82.156363	33.42253	swDownspout
SWDS-0106	53	-82.156278	33.422529	swDownspout

Total GI/LID Structures : 118

This Report was Generated December 2025

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: Inspection Type:
BMP Type: LID **MS4 Feature:**
Coordinate X: Coordinate Y:

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Structure seems to be working properly. No signs of settling, leaking,or cracking. Comment on overall condition of structure.		
Access to the site is adequately maintained for inspection and maintenance.		
Area is clean (trash, debris, grass clippings, etc. removed).		
Water is going through structure (i.e. no evidence of water going around the structure).		
Inlet and outlet pipes are clean; stormwater can enter and exit the practice without being blocked.		
Overflow structure is in good condition and clean.		
Maintenance is being performed according to the maintenance plan		
Overall condition of Proprietary System		

Additional Comments:

Photos:

Finding	Lat/Long	Photo

Inspector:

APPENDIX F

Operations and Maintenance Manual

FORT GORDON OPERATIONS AND MAINTENANCE MANUAL



Directorate of Public Works - Environmental

Please reach out to DPW Environmental for any questions

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Introduction

The purpose of this Operation and Maintenance (O&M) Guidance Document is to define a Stormwater Best Management Practice (also called a BMP or a practice), explain the importance of BMPs, and offer direction and information to keep the practice operational.

BMPs are structural practices designed to store or treat stormwater runoff to prevent or reduce pollution from entering surface waters in the State of Georgia. They improve water quality by treating, detaining, and retaining stormwater runoff. Detaining water is accomplished by creating a basin that holds the water for a short period of time to allow some of the water to exfiltrate into the ground and the remainder of the water to release slowly over a period of time. Retaining stormwater is similar to detaining stormwater; however, the difference is the length of time the water is held. Retaining the water extends the period of time the water is held.

Stormwater Treatment BMPs/Infrastructure Map and Inventory

All stormwater treatment BMP's along with infrastructure maps and inventory can be found in the SWMP appendices to include:

- Detention ponds
- Low Impact Development (LID) features which include bioretention ponds, permeable pavers, and underground cisterns
- Ditch Map
- Ditch Inventory Figure
- Pipe Map Figure
- Pipe Inventory Figure
- Inlet Map Figure
- Inlet Inventory Figure
- GI/LID inventory map Figure
- GI/LID inventory

Bioretention Areas

A bioretention area is a shallow stormwater basin or landscaped area with well-draining soils, generally composed of sand, fines, and organic matter, and vegetation to capture and treat stormwater runoff. The basin or main treatment area of the bioretention area includes plants to aid in the filtration and infiltration of the stormwater flowing through the practice. An underdrain may be placed in the bioretention area to collect runoff that has filtered through the soil layers and pipe it to the storm sewer system or a nearby water body.



There are some common problems to be aware of when maintaining a bioretention area. They include, but are not limited to, the following:

- Sediment build-up
- Clogging in the inlet and outlet structure
- Establishing vegetation within the bioretention area
- Clogging of the underdrain (if applicable)
- Mosquitoes breeding in the practice
- Ant Mounds
- Maintaining the proper pH levels for plants
- Pruning and weeding to maintain appearance

Routine maintenance should be performed on the bioretention areas to ensure that the structure is functioning properly. Note that during the first year the bioretention area is built, maintenance may be required at a higher frequency to ensure the proper establishment of vegetation in the practice.

In addition to routine maintenance, bioretention areas have seasonal and intermittent maintenance requirements. For example, the following are maintenance activities and concerns specific to winter months. Planting material should be trimmed during the winter, when the plants are dormant. In the event of snow, ensure that snow does not pile up in the bioretention area. Accumulated snow adds additional weight and may compact the bioretention area soil, which would reduce its infiltration capacity. In addition, check to make sure that the materials used to de-ice the surrounding areas stay out of the practice to avoid clogging and further pollution.

Bioretention areas should be inspected after a large rainstorm. Keep drainage paths, both to and from the BMP, clean so that the water can properly infiltrate into the ground. Note that it might take longer for the water to infiltrate into the ground during the winter months and early spring. Mulch the practice as needed to keep a thickness of 3-4 inches. Shredded hardwood mulch is preferred, and care should be

taken to keep the mulch from piling on the stems of the plants. For more information on vegetation in bioretention areas, see Appendix D: Planting and Soil Guidance.

If the bioretention area is not draining properly, check for clogging of the inflow and outflow structures as well as the infiltration rate of the soil media. If the soil is not draining properly, it could be clogged or over-compacted. In a bioretention area, the media is likely to become clogged at the mulch or upper layer of the soil first. If the media is clogged or over-compacted, then the media should be replaced. Potential sources of excessive sediment that could clog the media include ant mounds and unstable soil upstream of the practice. Possible sources of compaction are vehicles, such as tractors, traveling through the practice. If the practice includes an underdrain, a structural repair or cleanout to unclog the underdrain may be necessary.

In order to keep the water that exits the bioretention area clean, fertilizers should only be used sparingly during the establishment of the practice. Once the vegetation in the practice has been established, fertilizers should not be used. While vegetation in the bioretention area is important, the primary purpose of a bioretention area is to act as a water quality device and introducing fertilizers into the bioretention area introduces nutrients such as phosphorus and nitrogen that can pollute downstream waters. In addition, bioretention areas should already be a nutrient rich environment that does not require fertilization. To control animal nuisances and invasive species, pesticides (including herbicides, fungicides, insecticides, or nematode control agents) should be used sparingly and only if necessary.

If designed correctly, there is no danger of bioretention areas becoming a breeding ground for mosquitoes. A mosquito egg requires 24-48 hours to hatch. In addition, it takes 10-14 more days for the larvae to develop and become an adult. By having a bioretention area that drains properly, it is unlikely that a bioretention area would provide a habitat that could become a breeding area for mosquitoes. Should the bioretention area become a breeding ground for mosquitoes, the problem is likely with the soil media or the overflow structure which may need to be addressed.

The table below shows a schedule for when different maintenance activities should be performed on the bioretention area.

Activity	Schedule
• Prune and weed to maintain appearance. • Dissipate flow when erosion is evident. • Remove trash and debris. • Remove sediment and debris from inlets and outlets. • Remove and replace dead or damaged plants. • Mow around the bioretention area as necessary, ensuring grass clippings are not placed in the practice. • Observe infiltration rates after rain events. Bioretention areas should have no standing water within 24 hours of a storm event. • Inspect for evidence of animal activity.	As needed or 4 times during growing season

• Inspect for erosion, rills, or gullies and repair. • Inspect filter strip/grass channel for erosion or gullying, if applicable. • Re-seed or sod as necessary. • Inspect trees and shrubs to evaluate their health and remove and replace any dead or severely diseased vegetation. • Obtain a mulch depth of at least 3 to 4 inches should be inspected and obtained. Additional mulch should be added as necessary.	Semi-annually in spring and fall
• Trim planting material. • Inspect for snow accumulation	As needed or during winter months
• Test the planting soils for pH levels. Consult with a qualified licensed Professional to determine and maintain the proper pH levels.	Annually
• Replace/repair inlets, outlets, scour protection or other structures as needed. • Implement plant maintenance plan to trim and divide perennials to prevent overcrowding and stress. • Check soil infiltration rates to ensure the bioretention area soil is draining the water at a proper rate. Re-aerate or replace soil and mulch layers as needed to achieve infiltration rate of at least 0.5 inches per hour.	2 to 3 years

Dry Detention Basins



A dry detention basin is a storage basin designed to provide water quantity control through detention of stormwater runoff. The purpose of detention is to allow some of the water to exfiltrate into the ground and the remainder of the water to release slowly over a period of time to reduce downstream water quantity impacts. Dry detention basins are designed to completely drain following a storm event and are normally dry between rain events. They provide limited pollutant removal benefits and are not intended for water quality treatment alone.

There are some common problems to be aware of when maintaining a dry detention basin. They include, but are not limited to, the following:

- Sediment build-up
- Trash, litter, and debris accumulation
- Clogging and structural repairs in the inlet and outlet structures

- Establishing vegetation within the dry detention basin
- Erosion
- Mowers compacting and rutting the basin bottom
- Mosquitoes breeding in the practice
- Ant mounds

Routine maintenance should be performed on the dry detention basins to ensure that the structure is properly functioning. Note that during the first year the dry detention basin is built, maintenance may be required at a higher frequency to ensure the proper establishment of vegetation in the practice. In the event of snow, check to make sure that the materials used to de-ice the surrounding areas stay out of the practice to avoid clogging and further pollution.

Dry detention basins should be inspected after a large rainstorm. Keep drainage paths, both to and from the BMP, clean so that the water can properly infiltrate into the ground. Note that it might take longer for the water to infiltrate into the ground during the winter months and early spring. If the dry detention basin is not draining properly, check for clogging of the inflow and outflow structures.

If the forebay or dry detention basin has received a significant amount of sediment over a period of time, then the sediment at the bottom of the forebay or dry detention basin may need to be removed. Accumulated sediment in the practice decreases the available storage volume and affects the basin's ability to function as it was designed.

If designed and maintained correctly, dry detention basins should not become a breeding ground for mosquitoes. A mosquito egg requires 24-48 hours to hatch. In addition, it takes 10-14 more days for the egg to develop and become an adult. By having a dry detention basin that drains properly, it is unlikely that a dry detention basin would provide a habitat that could become a breeding area for mosquitoes. Should the dry detention basin become a breeding ground for mosquitoes, the problem is likely with the overflow structure which may need to be addressed.

The table on the following page shows a schedule for when different maintenance activities should be performed on the dry detention basins.

Dry Detention Basin Typical Routine Maintenance Activities and Schedule

Activity	Schedule
• Remove debris from basin surface to minimize outlet clogging and improve aesthetics. • Note erosion of detention basin banks or bottom Inspect for damage to the embankment. • Monitor for sediment accumulation in the facility and forebay. • Examine to ensure that inlet and outlet devices are free of debris and operational.	Annually and following significant storm events
• Remove sediment buildup • Repair and revegetate undercut and/or eroded areas. • Perform structural repairs to inlet and outlets. • Repair undercut or eroded areas. • Mow side slopes. • Seed or sod to restore dead or damaged ground cover.	As needed based on inspection

• Mow to limit unwanted vegetation. • Litter/ Debris Removal.	Routine

Dry Enhanced Swales/ Wet Enhanced Swales/Bioswales



An enhanced swale is a vegetated open channel designed to capture and treat stormwater runoff within dry or wet cells formed by check dams or other means. Enhanced swales are generally shallow, wide, and vegetated to help slow and filter stormwater runoff.

There are two different types of enhanced swales. The first is a dry swale which includes a filter bed of prepared soil that overlays an underdrain system. They are designed to let stormwater be filtered or infiltrated through the bottom of the swale. Because they are dry most of the time, they are often the preferred option in residential settings. The second type of enhanced swale is a wet swale. Wet swales are designed to retain water or marshy conditions that support wetland vegetation. Because this practice is meant to retain water, they are generally used in areas with a high water table or poorly drained soils. Wet swales achieve pollutant removal both from sediment accumulation and biological removal.

There are some common problems to be aware of when maintaining an enhanced swale. They include, but are not limited to, the following:

- Sediment build-up
- Clogging in the inlet and outlet structure
- Establishing vegetation
- Clogging of the underdrain (if applicable)
- Mosquitoes breeding in the practice
- Ant mounds
- Maintaining the proper pH levels for plants
- Pruning and weeding to maintain appearance

Routine inspection and maintenance should be performed on the dry or wet enhanced swale to ensure that the practice is properly functioning. Note that during the first year the enhanced swale is built, maintenance may be required at a higher frequency to ensure the proper establishment of vegetation in the practice. For more information on vegetation within a swale, see Appendix D: Planting and Soil Guidance. Enhanced swales should be inspected after a large rainstorm. Keep drainage paths, both to and from the BMP, clean so that the water can properly flow in and out of the practice.

In addition to routine maintenance, dry or wet enhanced swales have seasonal and intermittent maintenance requirements. For example, during the winter months, the enhanced swale should be inspected after a snow event (this is specific to northern areas of Georgia). Accumulated snow adds

additional weight and may compact the dry enhanced swale soil, which would reduce its infiltration capacity. In addition, check to make sure that the materials used to de-ice the surrounding areas stay out of the practice to avoid clogging and further pollution. Note that it might take longer for the water to infiltrate into the ground during the winter months and early spring.

If the dry enhanced swale is not draining properly, check for clogging in the inflow and outflow structures. Another consideration would be the permeable soil layer, which could be clogged or over compacted. In a dry enhanced swale, the media is likely to become clogged at the upper layer of the soil first. Potential sources of excessive sediment that could clog the media include ant mounds and unstable soil upstream of the practice. Possible sources of compaction are vehicles, such as tractors, traveling through the practice. If the media is clogged or over-compacted, then the media should be replaced. If the practice includes an underdrain, a structural repair or cleanout to unclog the underdrain may be necessary.

In order to keep the water that exits the dry or wet enhanced swale clean, fertilizers should only be used sparingly during the establishment of the practice. Once the vegetation in the practice has been established, fertilizers should not be used. While vegetation in the enhanced swale is important, the primary purpose of an enhanced swale is to act as a water quality device, and introducing fertilizers into the enhanced swale introduces nutrients such as phosphorus and nitrogen that can pollute downstream waters. In addition, enhanced swales should already be nutrient rich environments that do not require fertilization. To control animal nuisances and invasive species, pesticides (including herbicides, fungicides, insecticides, or nematode control agents) should be used sparingly and only if necessary.

If designed and maintained correctly, there is no danger of dry enhanced swales becoming a breeding ground for mosquitoes. A mosquito egg requires 24-48 hours to hatch. In addition, it takes 10-14 more days for the egg to develop and become an adult. By having a dry enhanced swale that drains properly (within 24-48 hours), it is unlikely that a dry enhanced swale would provide a habitat that could become a breeding area for mosquitoes. Should the dry enhanced swale become a breeding ground for mosquitoes, the problem is likely with the soil media or the overflow structure which may need to be addressed.

The table below shows a schedule for when different maintenance activities should be performed on an enhanced swale.

Enhanced Swale Typical Routine Maintenance Activities and Schedule

Activity	Schedule
• Prune and weed to maintain appearance. • Dissipate flow when erosion is evident. • Remove trash and debris. • Remove sediment and debris from inlets and outlets. • Remove sediment build-up within the bottom of the swale once it has accumulated to 25% of the original design volume. • Remove and replace dead or damaged plants. • Mow the dry enhanced swale as necessary to maintain a grass height of 4-6 inches, ensuring grass clippings are not placed in the practice.	As needed or 4 times during growing season

• Observe infiltration rates after rain events. Dry enhanced swales should have no standing water within 48 hours of a storm event (though 24 hours is more desirable). • Inspect for evidence of animal activity.	
• Inspect for erosion, rills, or gullies and repair. • Replant wetland species (for wet swale) if not sufficiently established. • Test the planting soils for pH levels. Consult with a qualified licensed • Professional to determine and maintain the proper pH levels. • Inspect pea gravel diaphragm for clogging.	Annually (Semi-annually the first year)
• Trim planting material. • Inspect for snow accumulation.	As needed or during winter months
• Replace/repair inlets, outlets, scour protection or other structures as needed. • Implement plant maintenance plan to trim and divide perennials to prevent overcrowding and stress. • Check soil infiltration rates to ensure the dry enhanced swale soil is draining the water at a proper rate. Roto-till or cultivate the surface of the sand/soil bed of dry swales if the swale does not draw down within 48 hours.	2 to 3 years

Grass Channel



Grass channels are vegetated open channels designed to enhance water quality by settling suspended solids through filtration, infiltration, and biofiltration. This practice offers a method to manage pollution while also conveying stormwater runoff. Grass channels are well suited to a number of applications and land uses, including treating runoff from roads and highways and pervious surfaces. Grass channels are broad and shallow channels that are generally positioned parallel to roadways or other impervious areas. They can also be used as a single BMP, a pretreatment to another BMP, or as a link between other BMPs.

There are some common problems to be aware of when maintaining a grass channel. They include, but are not limited to, the following:

- Trash, litter, and debris accumulation
- Watering the practice during dry periods
- Establishing vegetation within the grass channel

- Clogging in the inlet and outlet pipes
- Ant mounds
- Erosion

Routine inspection and maintenance should be performed on the grass channels to ensure that the practice is functioning properly. Routine maintenance tasks include removing trash from the grass channel and ensuring that grass clippings and other debris are removed from the channel.

In order to keep the water that exits the grass channel clean, fertilizers should only be used sparingly during the establishment of the practice. Once the vegetation in the practice has been established, fertilizers should not be used. While vegetation in the grass channel is important, a primary purpose of a grass channel is to act as a water quality device and introducing fertilizers into the grass channel introduces nutrients such as phosphorus and nitrogen that can pollute downstream waters. To control animal nuisances and invasive species, pesticides (including herbicides, fungicides, insecticides, or nematode control agents) should be used sparingly and only if necessary.

The table below show routine maintenance activities typically associated with grass channels.

Grass Channel Typical Routine Maintenance Activities and Schedule

Activity	Schedule
• Mow grass to maintain a height of 3 to 4 inches. Remove grass clippings. • Repair eroded or bare spots. • Remove accumulated sediment, trash, and debris. • Water the practice during dry condition while vegetation is establishing.	As needed
• Inspect grass alongside slopes for erosion and formation of rills or gullies and correct. • Remove sediment from bottom of channel once sediment is 25% of the original design volume. • Remove trash and debris accumulated in the inflow forebay. • Inspect and correct erosion problems in the sand/soil bed of dry swales. • Based on inspection, plant an alternative grass species if the original grass cover has not been successfully established. Inspect pea gravel diaphragm for clogging and correct the problem.	Annually (Semiannually the first year and then annually thereafter)

Infiltration Practice



An infiltration practice is a shallow excavation, typically filled with stone or an engineered soil mix, which is designed to temporarily hold stormwater runoff until it infiltrates into the surrounding soils. Infiltration practices are able to reduce stormwater quantity, recharge the groundwater, and reduce pollutant loads.

There are some common problems to be aware of when maintaining infiltration practices. They include, but are not limited to, the following:

- Sediment build-up
- Clogging in the inlet and outlet structure
- Clogging of the underdrain (if applicable)
- Mosquitoes breeding in the practice

Routine maintenance should be performed on infiltration practices to ensure that the practice is functioning properly. Infiltration practices should be inspected after a large rainstorm. Keep drainage paths, both to and from the BMP, clean so that the water can properly infiltrate into the ground. Note that it might take longer for the water to infiltrate into the ground during the winter months and early spring.

In order to limit the sediment that enters the infiltration practice, infiltration practices should always be designed with adequate pretreatment (e.g., vegetated filter strip, sediment forebay). Routine maintenance of the pretreatment device, such as removing accumulated sediment, trash, and debris, decreases the amount of maintenance required on the infiltration practice as well as its likelihood of clogging and failing. Infiltration trenches can have either exposed aggregate at the surface of the practice which provides sediment removal and additional pretreatment upstream of the infiltration trench and can be easily removed and replaced when it becomes clogged.

If the infiltration practice is not draining properly, check for clogging of the inflow structure or underdrain. To help ensure that larger storm events are able to safely bypass the infiltration practice a perforated pipe (e.g., underdrain) is sometimes placed near the top of the stone reservoir or planting bed. This provides additional conveyance of stormwater runoff after the infiltration trench or basin has filled. Another consideration is the infiltration rate of the soil media. If the soil is not draining properly, the filter fabric could be clogged, or the soil could be clogged or over-compacted. In an infiltration practice, the filter fabric is likely to be clogged along the top and sides of the infiltration practice. If the filter fabric becomes clogged, the practices will need to be dug up, cleaned, and the fabric replaced. The media is likely to become clogged at the upper layer of the soil first. If the media is clogged or over compacted, then the media should be replaced. Potential sources of excessive sediment that could clog the media include ant mounds and unstable soil upstream of the practice. Possible sources of compaction are tractors or maintenance vehicles traveling through the practice. If the practice includes an underdrain, a structural repair or cleanout to unclog the underdrain may be necessary.

If designed and maintained correctly, there is no danger of infiltration practices becoming a breeding ground for mosquitoes. A mosquito egg requires 24-48 hours to hatch. In addition, it takes 10-14 more days for the egg to develop and become an adult. By having an infiltration practice that drains properly,

it is unlikely that it would provide a habitat that could become a breeding area for mosquitoes. Should the infiltration practices become a breeding ground for mosquitoes, the problem is likely with the soil media or the overflow structure which may need to be addressed.

The table below shows a schedule for when different maintenance activities should be performed on the infiltration practice.

Infiltration Practice Typical Routine Maintenance Activities and Schedule

Activity	Schedule
• Inspect to ensure that contributing drainage area and infiltration practice are clear of sediment, trash and debris. • Remove any accumulated sediment and debris. Ensure that the contributing drainage area is stabilized. • Plant replacement vegetation as needed. • Check observation well to ensure that infiltration practice is properly dewatering after storm events.	Monthly
• Inspect pretreatment devices for sediment accumulation. • Remove accumulated sediment, trash and debris. • Inspect top layer of filter fabric and pea gravel or landscaping for sediment accumulation. Remove and replace if clogged. • Inspect the practice for damage, paying particular attention to inlets, outlets and overflow spillways. Repair or replace any damaged components as needed. • Inspect the practice following rainfall events (specifically large rainfall events). Check observation well to ensure that complete drawdown has occurred within 72 hours after the end of a rainfall event. Failure to drawdown within this timeframe may indicate infiltration practice failure.	Semi-Annually during first year and annually thereafter
• Remove aggregate and install clean, washed trench aggregate • It may be necessary to replace piping, filter fabric, etc.	Upon Failure

Permeable Bricks/Pavers



Permeable bricks/blocks are pavers with void areas between the bricks or blocks that are generally filled with pervious materials such as small pieces of gravel, or top soil if a grid is used. Beneath the bricks/blocks is a base layer of aggregate that acts as a holding area for stormwater runoff while still providing structural support for the road. This practice provides enough structural support so that cars can drive over them or they can be used in parking lots. Permeable brick/blocks are not recommended in areas with high traffic volume or heavy trucks. These systems provide water quality benefits in addition to groundwater recharge and a reduction in stormwater volume.

There are some common problems to be aware of when maintaining permeable bricks/blocks. They include, but are not limited to, the following:

- Sediment build-up and clogging between bricks/blocks
- Settling
- Bricks/blocks cracking or splitting

There are four basic types of permeable bricks/blocks that are used. They are bricks, concrete blocks, concrete grid, and articulated concrete block. The concrete grid can be filled with grass or gravel. Routine maintenance should be performed on the permeable bricks/blocks to ensure that the structure is functioning properly. Permeable bricks/blocks should be cleaned with a street vacuum or low pressure washer to remove debris and sediment monthly, or as needed, and all vegetation between bricks/blocks should be mowed and clippings removed to reduce clogging. Cleaning the bricks will help keep the water permeating through the pavers. After cleaning, the bricks/blocks may need to be filled in with additional aggregate or top soil to replace anything that may have been removed during cleaning.

In addition to routine maintenance, permeable bricks/blocks have seasonal and intermittent maintenance requirements. In the winter months permeable bricks/blocks can be plowed similarly to any other unpaved road by lifting the blade a few inches above the road or by using a beveled plow. Deicing materials such as sand, ash, or salt should be avoided if possible. They can potentially harm the bricks/blocks and may cause clogging. Non-toxic, organic deicers are recommended.

Permeable bricks/blocks should be inspected after a large rainstorm. Keep drainage paths, both to and from the BMP, clean so that the water can properly infiltrate into the ground. Note that it might take longer for the water to permeate into the ground during the winter months and early spring.

If the permeable bricks/blocks are not draining properly, check for clogging between the bricks or blocks or at the upper layer of the aggregate, directly below the bricks/blocks. If clogging occurs, then the stones between the blocks/bricks should be replaced. In addition, the top layer of soil under the bricks/blocks may also need to be cleaned and replaced. Some areas of the blocks/bricks may need additional maintenance due to potential sources of clogging which include unstable soil upstream of the practice, leaves from trees, low points in blocks/bricks, trash, and debris from vehicle traffic.

Another reason for the bricks/blocks not draining properly is settling. If major settling occurs, then the bricks/blocks should be removed, cleaned, and replaced.

Permeable bricks/blocks may also include an underdrain. If the practice includes an underdrain, additional maintenance will be required. Periodic testing will need to be done on the system to make sure that the underdrain is not clogged. This is done by pouring water into cleanout and observing how the water exits the practice. The observation well should be checked to make sure water is draining out of the practice.

The table below shows a schedule for when different maintenance activities should be performed on the permeable bricks/blocks.

Activity	Schedule
• Keep the permeable bricks/blocks free of trash, debris, and sediment. • Make sure that there is no standing water in the bricks/blocks between storms. • Remove weeds and grass growing between the bricks/blocks (unless concrete grid pavers are being used). • Mow grass within the bricks/blocks (only for concrete grid with grass) • Mow / trim grass or vegetation near the bricks/blocks and remove clippings from area. • Visually inspect the bricks/blocks after large storms to ensure the overflow drainage system is working. • Inspect the bricks/blocks for damage and repair. • Vacuum sweep permeable brick/block surface to keep free of sediment. • After cleaning, additional aggregate may need to be added between the pavers. Replace aggregate between pavers as necessary.	Monthly during warm weather
• Keep the contributing drainage area and surface of the bricks/block clear of debris, trash, and sediment. • Ensure that the areas surrounding the practice are stabilized and mowed, remove grass clippings.	As needed, based on inspection
• If the pavers are installed in an area that is subject to high amounts of sediment, leaves, or low point (i.e. large trucks traveling on the bricks/blocks daily) additional cleaning may be necessary. • Replace any joint material that has eroded or washed away. • Observe the system during a rain event. • Areas should be routinely inspected for settling and loss of water flow through the system. • Organic deicers may be used to melt ice and snow.	Semi-annually in Spring and Fall

• Organic deicers may be used to melt ice and snow.
• Snow plows may be used when necessary under the following conditions:
  ○ The edges of the plows are beveled.
  ○ The blade of the snow plow is raised 1-2 inches.
  ○ The snow plow is equipped with snow shoes which allow the blade to glide across uneven surfaces.
	As needed in winter

• Inspect the surface for deterioration or breaking into fragments. • Flush the underdrain system to check for clogging (if applicable).	Annually
• Remove the permeable bricks/blocks; include the top and base layers of the practice. Clean bricks/blocks and base aggregate and replace as needed.	Upon failure

Regenerative Stormwater Conveyances

A regenerative stormwater conveyance (RSC) is a practice that provides treatment, infiltration, and conveyance to stormwater runoff through a combination of pools, riffles (with either cobble rocks or boulders), native vegetation, an underlying sand layer, and wood chips.



There are some common problems to be aware of when maintaining a RSC. They include, but are not limited to, the following:

- Establishing vegetation within the RSC area
- Ant mounds
- Pruning and weeding to maintain appearance
- Deterioration of riprap

Routine maintenance should be performed on RSC to ensure that the system is functioning properly. Note that during the first year the RSC is built, maintenance may be required at a higher frequency to ensure the proper establishment of vegetation in the practice.

A RSC should be inspected after a large rainstorm, especially during the first six months after establishment. Keep drainage paths, both to and from the BMP, clean so that the water can properly infiltrate into the ground.

Spot fertilization may be required during the first two months to establish vegetation. After that period, however, fertilizers should not be used. While vegetation in the RSC is important, a primary purpose of a RSC is to act as a water quality device, and introducing fertilizers into the RSC introduces nutrients such as phosphorus and nitrogen that can pollute downstream waters. To control animal nuisances and invasive species, pesticides (including herbicides, fungicides, insecticides, or nematode control agents) should be used sparingly and only if necessary.

The table on the following page shows a schedule for when different maintenance activities should be performed on the RSC area.

A regenerative stormwater conveyance (RSC) is a practice that provides treatment, infiltration, and conveyance to stormwater runoff through a combination of pools, riffles (with either cobble rocks or boulders), native vegetation, an underlying sand layer, and wood chips.

There are some common problems to be aware of when maintaining a RSC. They include, but are not limited to, the following:

- Establishing vegetation within the RSC area
- Ant mounds
- Pruning and weeding to maintain appearance
- Deterioration of riprap

Routine maintenance should be performed on RSC to ensure that the system is functioning properly. Note that during the first year the RSC is built, maintenance may be required at a higher frequency to ensure the proper establishment of vegetation in the practice.

A RSC should be inspected after a large rainstorm, especially during the first six months after establishment. Keep drainage paths, both to and from the BMP, clean so that the water can properly infiltrate into the ground.

Spot fertilization may be required during the first two months to establish vegetation. After that period, however, fertilizers should not be used. While vegetation in the RSC is important, a primary purpose of a RSC is to act as a water quality device, and introducing fertilizers into the RSC introduces nutrients such as phosphorus and nitrogen that can pollute downstream waters. To control animal nuisances and invasive species, pesticides (including herbicides, fungicides, insecticides, or nematode control agents) should be used sparingly and only if necessary.

The table below shows a schedule for when different maintenance activities should be performed on the RSC area.

Activity	Schedule
• Inspect two times after establishment for first 6 months after storms that exceed ½ inch of rain. • Repair any erosion, rills, or gullies that may form in the practice • Conduct any needed repairs or stabilization • Repair areas with bare or dead grass in the contributing drainage area or around the RSC. • Watering and spot fertilization may be necessary during first 2 months to establish vegetation. • Remove and replace dead, damaged, or diseased plants.	Upon establishment
• Prune and weed vegetation. • Remove trash, sediment, and debris	Four times per year
• Add additional plants to maintain needed vegetation density. Remove and replace any dead, damaged, or diseased plants. Repair any eroded areas.	As Needed

• Make sure weirs, riffles, and pools are in structurally good condition and that the practice has stable water levels. • Prune trees and shrubs (when they are dormant). • Remove any invasive species. • Remove any sediment accumulation in pretreatment area and inflow points.	Annually
• Remove accumulated sediment in pools • Repair damage to weirs, riffles, pools, or other structural components.	Once every 2 to 3 years

Stormwater Planters/Tree Boxes



Stormwater planters are similar to bioretention areas in their design purpose to detain, filter, and infiltrate stormwater. In addition stormwater planters utilize native or non-invasive flowers, shrubs, and trees to provide aesthetic qualities to the site. Planters and tree boxes receive stormwater from a variety of sources such as, roof tops and downspouts and runoff from streets.

There are some common problems when maintaining a stormwater planter. They include, but are not limited to, the following:

- Sediment Build-up
- Clogging in the downspouts (only applicable planters receive water from down spouts)
- Establishing vegetation within the stormwater planter
- Clogging of the underdrain
- Maintaining the proper pH levels for plants

Routine maintenance should be performed on stormwater planters to ensure that the structure is functioning properly. Note that during the first year the stormwater planter is built, maintenance may be required at a higher frequency to ensure the proper establishment of vegetation in the practice.

In addition to routine maintenance, stormwater planters have seasonal and intermittent maintenance requirements. For example, the following are maintenance activities and concerns specific to winter months. Planting material should be trimmed during the winter, when the plants are dormant. In the event of snow, ensure that snow does not pile up in the stormwater planter. Accumulated snow adds additional weight and may compact the stormwater planter soil, which would reduce its infiltration capacity. In addition, check to make sure that the materials used to de-ice the surrounding areas stay out of the practice to avoid clogging and further pollution.

Stormwater planters should be inspected after a large rainstorm. Mulch the practice as needed to keep a thickness of 2-4 inches. Shredded hardwood mulch is preferred, and care should be taken to keep the

mulch from piling on the stems of the plants. For more information on vegetation in stormwater planters, see Appendix D: Planting and Soil Guidance.

In order to keep the water that exits the stormwater planter clean, fertilizers should only be used sparingly during the establishment of the practice. Once the vegetation in the practice has been established, fertilizers should not be used. While vegetation in the stormwater planter is important, the primary purpose of a stormwater planter is to act as a water quality device and introducing fertilizers into the stormwater planter introduces nutrients such as phosphorus and nitrogen that can pollute downstream waters. In addition, stormwater planters should already be a nutrient rich environment that does not require fertilization. To control animal nuisances and invasive species, pesticides (including herbicides, fungicides, insecticides, or nematode control agents) should be used sparingly and only if necessary.

Invasive species should be kept out of the stormwater planters and the overall health of the plants should be maintained. If periodic observations indicate the presence of contaminants, the soil and mulch in the plants should be tested to avoid the build-up of pollutants that may harm the vegetation.

The table below shows a schedule for when different maintenance activities should be performed on a stormwater planter.

Stormwater Planters/Tree Boxes Typical Routine Maintenance Activities and Schedule

Activity	Schedule
• Water to promote plant growth and survival. • Inspect stormwater planter following rainfall events to ensure the planter is working properly	As Needed (Following Construction)
• Prune and weed stormwater planter. • Remove accumulated trash and debris. • Remove and replace dead or damaged plants. Plant replacement vegetation as needed. • Observe infiltration rates after rain events. Planters should have no standing water within 24 hours.	As needed, or 4 times during growing season
• Inspect inflow and outflow areas for sediment accumulation. • Remove any accumulated sediment or debris. • Inspect stormwater planter for erosion and the formation of rills and gullies. Plant replacement vegetation in any eroded areas. • Replace mulch. • Test the planting soils for pH levels. Consult with a qualified licensed Professional to determine and maintain the proper pH levels.	Semi-annually in spring and fall
• Implement plant maintenance plan to trim and divide perennials to prevent overcrowding and stress. • Check soil infiltration rates to ensure the soil is draining the water at a proper rate. Re-aerate or replace soil and mulch layers as needed to achieve infiltration rate of at least 0.25 inches per hour (1-2 in/hr. preferred).	2 to 3 years

Downspout Disconnect

A downspout disconnect is a method to spread rooftop runoff from individual downspouts across lawns and other pervious areas, where it is slowed, filtered and allowed to infiltrate into the native soils. Downspout disconnects can be used in conjunction with other BMPs such as bioretention areas, enhanced swales, and vegetated filter strips. If the downspout disconnect is used in conjunction with another BMP, then that BMP will need to be inspected and maintained as well.



Common problems that can occur when maintaining a downspout disconnect include, but are not limited to, the following:

- Clogged gutters or downspouts
- Loose gutters or downspouts
- Water not draining away from buildings
- Poorly draining soils
- Poorly functioning splash blocks
- Cracks within the downspout extension

Routine maintenance should be performed on the downspout disconnects to ensure that the practice is properly functioning to ensure that a water problem is not created for neighbors. Ensure that there is no erosion occurring at the base of the downspout. Other specific maintenance items depend on where the downspout has been disconnected from the storm or sanitary sewer and where the flow has been redirected.

Inspect the downspout disconnect after a large rainstorm. Make sure that there is no evidence of a leak in the gutters or downspouts, and ensure that rooftop runoff is directed through the system. During the winter months, downspouts should be inspected for cracks caused by water freezing in the downspout.

The table below shows a schedule for when different maintenance activities should be performed routine maintenance activities typically associated with downspout disconnects.

Downspout Disconnect Typical Routine Maintenance Activities and Schedule

Activity	Schedule
• Pervious areas located below simple downspout disconnections should be watered to promote plant growth and survival. • Inspect the pervious areas located below simple downspout disconnections following rainfall events. Plant replacement vegetation in any eroded areas.	As Needed (Following Construction)
• Inspect pervious area located below simple downspout disconnection. Maintain vegetation (e.g., mow, prune, trim) as needed • Remove accumulated trash and debris in pervious area located below the simple downspout disconnection.	Regularly (Monthly)

• Inspect inflow and outflow areas for sediment accumulation. Remove any accumulated sediment or debris. • Inspect stormwater planter for erosion and the formation of rills and gullies. Plant replacement vegetation in any eroded areas. Replace mulch. • Test the planting soils for pH levels. Consult with a qualified licensed Professional to determine and maintain the proper pH levels.	Semi-annually in spring and fall
• Inspect gutters and downspouts. Remove any accumulated leaves or debris. • Inspect the pervious areas located below simple downspout disconnections for erosion and the formation of rills and gullies. • Plant replacement vegetation in any eroded areas. • Inspect the pervious areas located below simple downspout disconnections for dead or dying vegetation. Plant replacement vegetation as needed.	Annually (Semi-Annually During First Year)

Underground Detention

Underground detention is detention storage located in underground tanks or vaults designed to provide water quantity control through temporary storage of stormwater runoff. In addition they can improve water quality by removing heavy amounts of sediment.



There are some common problems to be aware of when maintaining an underground detention area. They include, but are not limited to, the following:

- Sediment build-up
- Clogging in the inlet and outlet structure
- Requirement to have Occupational Safety and Health Administration (OSHA) confined space entry training

Routine maintenance should be performed on the underground detention areas to ensure that the structure is properly functioning. Routine maintenance includes the removal of debris from inlet and outlet structures and cleaning sediment built up inside the structure. Because this is an underground system, inspection and maintenance may be difficult to conduct. Generally these underground systems can be inspected by looking in an access opening. Sometimes, however, maintenance requires an individual who is certified in OSHA confined space entry. Should there be a situation where a safety concern arises, the inspection should stop and the safety concern addressed. Once the concern is addressed, the inspection can continue.

Inspect the underground detention area after a large rainstorm. If the underground detention area is not draining properly, check the inlet and outlet structures to make sure they are not clogged.

Sediment should be removed from the practice by either a vacuum or boom. If the system is accepting water that flowed from a hazardous facility, the sediment may need to be disposed of by other means. Check with the local government to identify any additional constraints on the disposal of sediments excavated from underground detention.

The table on the following page shows a schedule for when different maintenance activities should be performed on a submerged gravel wetland.

Underground Detention Typical Routine Maintenance Activities and Schedule

Activity	Schedule
• Remove any trash/debris and sediment buildup in the underground trash racks, vaults or tanks. • Check drainage areas for trash, erosion, and debris. • Clean underground detention if hazardous or foreign substances are spilled in the contributing drainage area. • Perform structural repairs to inlet and outlets.	As Needed
• Follow manufacturer's guidelines and develop/adjust plan for the underground detention. • Clean out underground detentions with vacuum or boom trucks. • Clean sediment or oil chambers	Annually

Underground Detention

Inspection & Maintenance

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT)

A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN

A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED

A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG

A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)

A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR ROWS

B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW

B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE

i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY

ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE

B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS

A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED

B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

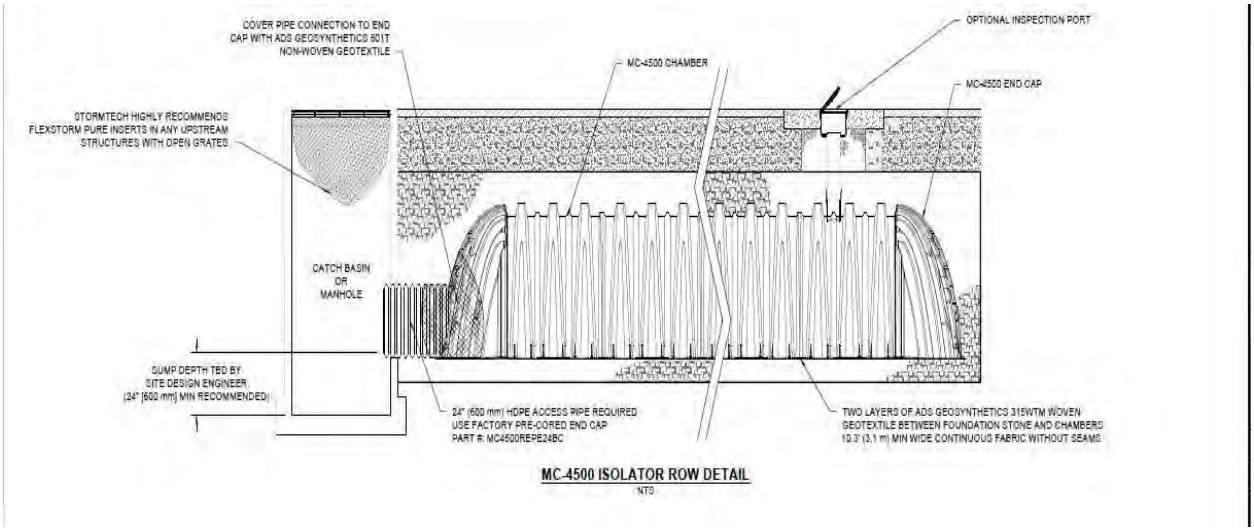
Notes

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS

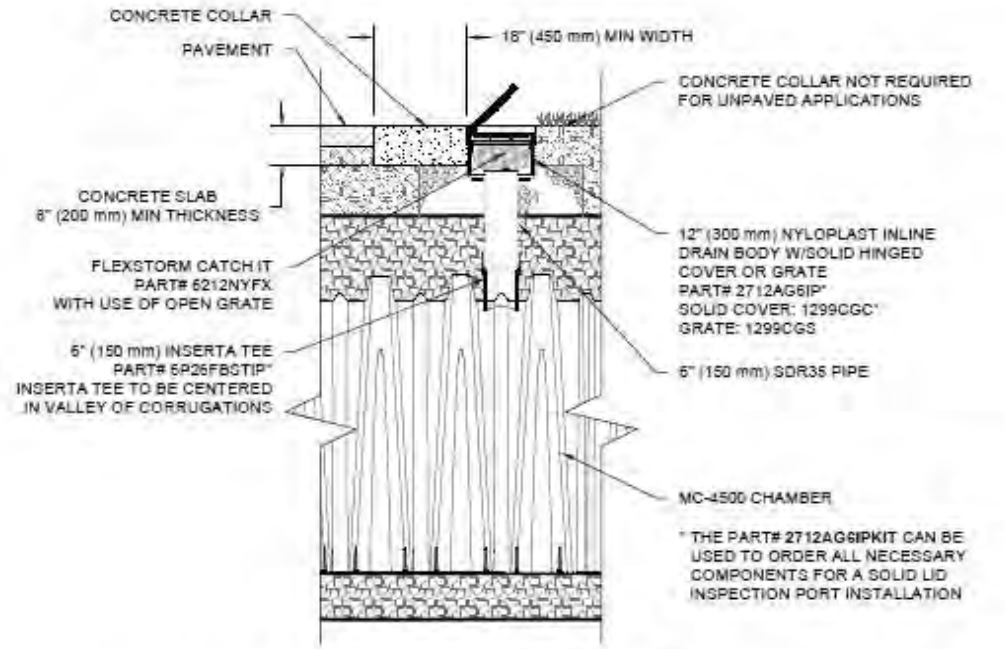
OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

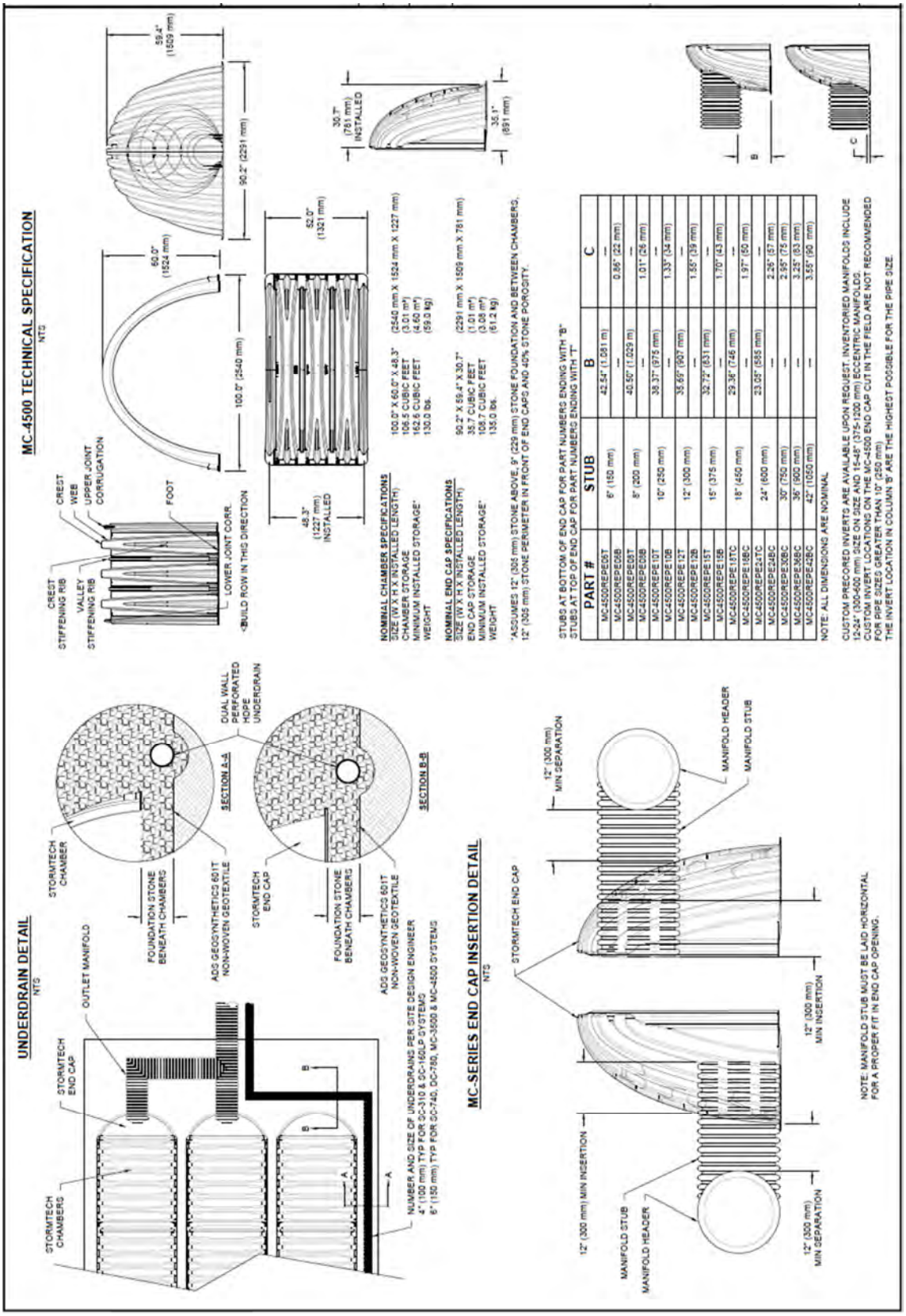
See Following page for diagrams.



MC-4500 ISOLATOR ROW DETAIL
NTS



MC-4500 6" INSPECTION PORT DETAIL
NTS


MC-4500 TECHNICAL SPECIFICATION
NTS
CREST
WEB
UPPER JOINT CORRUGATION
CREST
STIFFENING RIB
VALLEY
STIFFENING RIB
FOOT
LOWER JOINT CORR.
BUILD ROW IN THIS DIRECTION
60.0" (1524 mm)
100.0" (2540 mm)
90.2" (2291 mm)
59.4" (1509 mm)
52.0" (1321 mm)
48.3" (1227 mm) INSTALLED
30.7" (781 mm) INSTALLED
35.1" (891 mm)
NOMINAL CHAMBER SPECIFICATIONS
SIZE (W X H X INSTALLED LENGTH) 100.0" X 60.0" X 48.3" (2540 mm X 1524 mm X 1227 mm)
CHAMBER STORAGE 106.5 CUBIC FEET (3.01 m³)
MINIMUM INSTALLED STORAGE* 162.6 CUBIC FEET (4.60 m³)
WEIGHT 130.0 lbs. (59.0 kg)
NOMINAL END CAP SPECIFICATIONS
SIZE (W X H X INSTALLED LENGTH) 90.2" X 59.4" X 30.7" (2291 mm X 1509 mm X 781 mm)
END CAP STORAGE 35.7 CUBIC FEET (1.01 m³)
MINIMUM INSTALLED STORAGE* 108.7 CUBIC FEET (3.08 m³)
WEIGHT 135.0 lbs. (61.2 kg)
*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.
STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PART # | STUB | B | C
MC4500REPE06T | 6" (150 mm) | 42.54" (1,081 m) | —
MC4500REPE06B | | — | 0.86" (22 mm)
MC4500REPE08T | 8" (200 mm) | 40.50" (1,029 m) | —
MC4500REPE08B | | — | 1.01" (26 mm)
MC4500REPE10T | 10" (250 mm) | 38.37" (975 mm) | —
MC4500REPE10B | | — | 1.33" (34 mm)
MC4500REPE12T | 12" (300 mm) | 35.66" (907 mm) | 1.55" (39 mm)
MC4500REPE12B | | — | —
MC4500REPE15T | 15" (375 mm) | 32.72" (831 mm) | 1.70" (43 mm)
MC4500REPE15B | | — | —
MC4500REPE18TC | 18" (450 mm) | 29.36" (746 mm) | 1.97" (50 mm)
MC4500REPE18BC | | — | —
MC4500REPE24TC | 24" (600 mm) | 23.05" (585 mm) | 2.26" (57 mm)
MC4500REPE24BC | | — | 2.95" (75 mm)
MC4500REPE30BC | 30" (750 mm) | — | 3.25" (83 mm)
MC4500REPE36BC | 36" (900 mm) | — | 3.55" (90 mm)
MC4500REPE42BC | 42" (1050 mm) | — | —
NOTE: ALL DIMENSIONS ARE NOMINAL
CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-4500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.
UNDERDRAIN DETAIL
NTS
STORMTECH CHAMBERS
STORMTECH END CAP
OUTLET MANIFOLD
NUMBER AND SIZE OF UNDERDRAINS PER SITE DESIGN ENGINEER
4" (100 mm) TYP FOR SC-310 & SC-160LP SYSTEMS
6" (150 mm) TYP FOR SC-740, DC-780, MC-3500 & MC-4500 SYSTEMS
ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE
FOUNDATION STONE BENEATH CHAMBERS
STORMTECH CHAMBER
DUAL WALL PERFORATED HDPE UNDERDRAIN
SECTION A-A
STORMTECH END CAP
FOUNDATION STONE BENEATH CHAMBERS
ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE
SECTION B-B
MC-SERIES END CAP INSERTION DETAIL
NTS
STORMTECH END CAP
12" (300 mm) MIN SEPARATION
MANIFOLD HEADER
MANIFOLD STUB
12" (300 mm) MIN INSERTION
MANIFOLD STUB
MANIFOLD HEADER
12" (300 mm) MIN SEPARATION
12" (300 mm) MIN INSERTION
NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

Vegetated Filter Strips



Vegetated filter strips are uniformly graded and densely vegetated sections of land, designed to treat runoff and remove pollutants through vegetative filtering and infiltration. Vegetated filter strips are best suited to treating runoff from roads and highways, roof downspouts, very small parking lots, and pervious surfaces. These filter strips may be constructed with turf, meadow grasses, or other dense vegetation. They are also ideal components of the "outer zone" of a stream buffer, or as pretreatment for another structural stormwater control. Filter strips can serve as a buffer between incompatible land uses, be landscaped to be aesthetically pleasing, and provide groundwater recharge in areas with pervious soils.

There are some common problems to be aware of when maintaining a vegetated filter strip. They include, but are not limited to, the following:

- Sediment build-up
- Clogging in the pea gravel diaphragm or other flow spreader
- Establishing vegetation within the vegetated filter strip
- Ant mounds
- Erosion
- Concentrated flow

Routine maintenance should be performed on the vegetated filter strips to ensure that the practice is functioning properly. Note that during the first year the vegetated filter strip is built, maintenance may be required at a higher frequency to ensure the proper establishment of grass and vegetation in the practice. Upon establishment, grass should be routinely cut and vegetation trimmed, as necessary, to maintain a grass height of 3-12 inches or 6-15 inches along a roadway. Other routine maintenance includes removing trash from the vegetated filter strip and ensuring that grass clippings and other debris are removed from the filter strip.

Vegetated filter strips should be inspected after a large rainstorm. Keep drainage paths, both to and from the BMP, clean to promote sheet flow so that the water can be filtered by the BMP.

If the vegetated filter strip is not draining properly, check for clogging in the inlet and outlet structures. Also, consider if the filter strip has a sufficient slope or if there are obstructions within the filter strip that may cause inhibit the flow of water. If the practice includes a permeable berm, a structural repair or cleanout to unclog the outlet pipe may be necessary.

in order to keep the water that exits the vegetated filter strip clean, fertilizers should be used sparingly during the establishment of the practice. Once the vegetation in the practice has been established, fertilizers should not be used. While vegetation in the vegetated filter strip is important, a primary purpose of a vegetated filter strip is to act as a water quality device and introducing fertilizers into the vegetated filter strip introduces nutrients such as phosphorus and nitrogen that can pollute downstream waters. To control animal nuisances and invasive species, pesticides (including

herbicides, fungicides, insecticides, or nematode control agents) should be used sparingly and only if necessary.

The table below shows a schedule for when different maintenance activities should be performed on a vegetated filter strip.

Activity	Schedule
• Mow grass to a height to maintain a dense vegetative cover. It is recommended that the height of grass is 3-12 inches and 6-15 inches along a roadway. Remove any grass clippings • Keep the practice clean and remove all trash, sediment, and debris. • Reseed any eroded or bare spots. • Water the practice during dry conditions of vegetation establishment.	As Needed
• Inspect vegetated filter strip for signs of erosion, and repair the strip as needed. • Inspect for invasive species and remove as needed. • Inspect pea gravel diaphragm for clogging and remove built-up sediment. • Inspect vegetation for rills and gullies. Seed or sod bare areas. • Inspect to ensure that grass has established. If not, replace with an alternative species.	Annual Inspection

Pipes/Culverts

The location and number of all pipes/culverts can be found in Appendix G of the For Gordon SWMP. If needed, as a result of the visual inspection, a work order for maintenance, repair, or a more detailed pipe or structure investigation is generated.

Pipes/Culverts Routine Maintenance and Activity Schedule

Activity	Schedule
• Remove trash and debris and dispose of properly • Remove accumulated vegetative matter and dispose of properly. • If pipes are 1/3 obstructed or more remove accumulated sediment and dispose of properly. • Repair/replace the headwall at the end of pipe, if applicable. • Repair/replace pipe or structure, if needed.	20% of all inlets and ditches should be inspected yearly.

Ditches (grassed and paved)

All ditches within the Fort Gordon MS4 are maintained as part of general maintenance and also on an as needed basis to maintain proper function. The location and number of ditches can be found in Appendix G of the Ft. Gordon SWMP.

The table below shows a schedule for when different maintenance activities should be performed on a ditches.

Ditches Routine Maintenance and Activity Schedule

Activity	Schedule
• Mow grass to a height to maintain a dense vegetative cover. It is recommended that the height of grass is 2-6 inches along a roadway. • Remove any grass clippings • Keep the practice clean and remove all trash, sediment, and debris. (Grass & paved) • Reseed any eroded or bare spots. • Water the practice during dry conditions of vegetation establishment.	As Needed
• Inspect ditches for signs of erosion, and repair the strip as needed. • Inspect for invasive species and remove as needed. • Inspect vegetation for rills and gullies. Seed or sod bare areas. • Inspect to ensure that grass has established. If not, replace with an alternative species. • Paved ditches –remove sediment if volume is > 25%. Inspect for structural damage to asphalt or concrete (cracking, etc.)	Annual Inspection

Inlets/Catch basins

The location and number of of all inlets/catch basins can be found in Appendix G of the Fort Gordon SWMP. If needed, as a result of the visual inspection, a work order for maintenance, repair, or a more detailed pipe or structure investigation is generated.

Inlets/Catch basins Routine Maintenance and Activity Schedule

Activity	Schedule
• Verify for debris/trash presence. Trash is to be removed routinely during normal maintenance practice. • Inspect for sign of cracking, spalling, and or/or bulging of the concrete • Inspect for sediment accumulation. Sediment should be removed if greater than 25% of the volume. • Inspect for evidence of standing water/not draining • Inspect for evidence of clogging • Inspect for evidence of structural damage • Inspect for burrowing animals	20% of the installation inspected annually.

Infiltration Practice



An infiltration practice is a shallow excavation, typically filled with stone or an engineered soil mix, which is designed to temporarily hold stormwater runoff until it infiltrates into the surrounding soils. Infiltration practices are able to reduce stormwater quantity, recharge the groundwater, and reduce pollutant loads.

There are some common problems to be aware of when maintaining infiltration practices. They include, but are not limited to, the following:

- Sediment build-up
- Clogging in the inlet and outlet structure
- Clogging the underdrain (if applicable)
- Mosquitoes breeding in the practice

Routine maintenance should be performed on infiltration practices to ensure that the practice is functioning properly. Infiltration practices should be inspected after a large rainstorm. Keep drainage paths, both to and from the BMP, clean so that the water can properly infiltrate into the ground. Note that it might take longer for the water to infiltrate into the ground during the winter months and early spring.

In order to limit the sediment that enters the infiltration practice, infiltration practices should always be designed with adequate pretreatment (e.g., vegetated filter strip, sediment forebay). Routine maintenance of the pretreatment device, such as removing accumulated sediment, trash, and debris, decreases the amount of maintenance required on the infiltration practice as well as its likelihood of clogging and failing. Infiltration trenches can have either exposed aggregate at the surface of the practice which provides sediment removal and additional pretreatment upstream of the infiltration and can be easily removed and replaced when it becomes clogged.

If the infiltration practice is not draining properly, check for clogging of the inflow structure or underdrain. To help ensure that larger storm events are able to safely bypass the infiltration practice a perforated pipe (e.g., underdrain) is sometimes placed near the top of the stone reservoir or planting bed. This provides additional conveyance of stormwater runoff after the infiltration trench or basin has filled. Another consideration is the infiltration rate of the soil media. If the soil is not draining properly, the filter fabric could be clogged or the soil could be clogged or over-compacted. In an infiltration practice, the filter fabric is likely to be clogged along the top and sides of the infiltration practice. If the filter fabric becomes clogged, the practices will need to be dug up, cleaned, and the fabric replaced. The media is likely to become clogged at the upper layer of the soil first. If the media is clogged or overcompacted, then the media should be replaced. Potential sources of excessive sediment that could clog the media include ant mounds and unstable soil upstream of the practice. Possible sources of compaction are tractors or maintenance vehicles traveling through the practice. If the practice includes an underdrain, a structural repair or cleanout to unclog the underdrain may be necessary.
If designed and maintained correctly, there is no danger of infiltration practices becoming a breeding ground for mosquitoes. A mosquito egg requires 24-48 hours to hatch. In addition, it takes 10-14 more days for the egg to develop and become an adult. By having an infiltration practice that drains properly, it is unlikely that it would provide a habitat that could become a breeding area for mosquitoes. Should

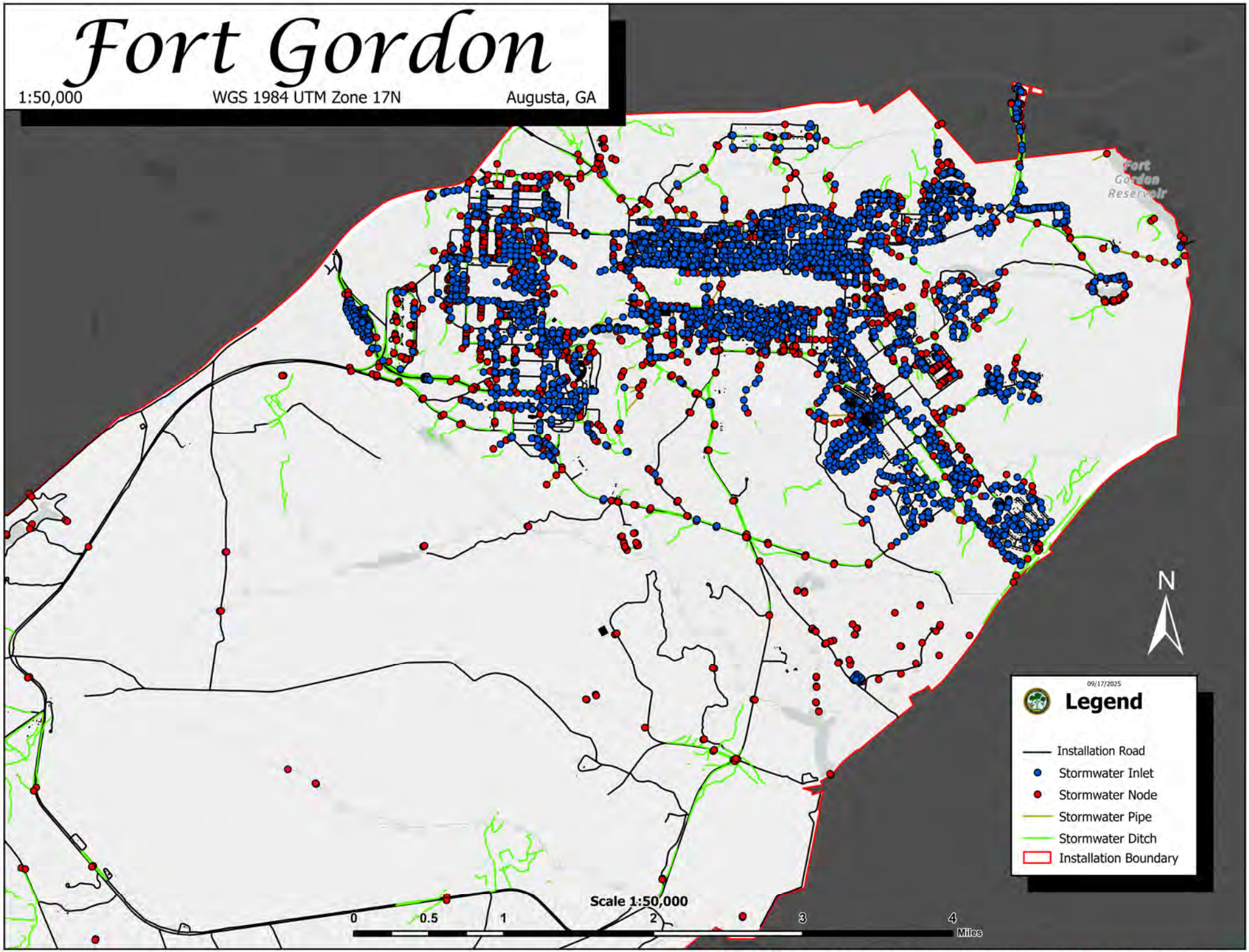
the infiltration practices become a breeding ground for mosquitoes, the problem is likely with the soil media or the overflow structure which may need to be addressed.

APPENDIX G

Pollution Prevention/Good Housekeeping – MS4 Map and Inventory, and Municipal Facility Inventory

Fort Gordon

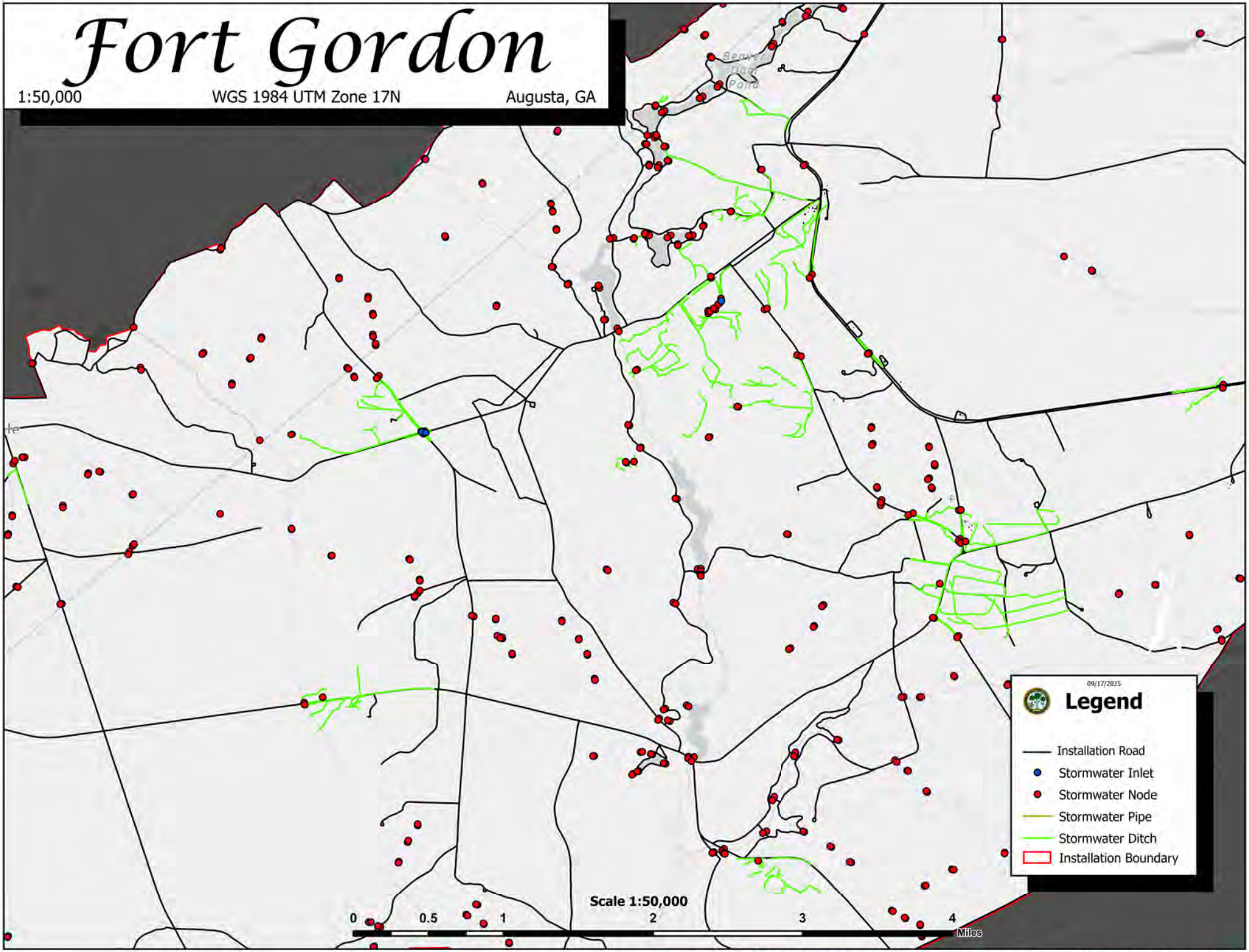
1:50,000 WGS 1984 UTM Zone 17N Augusta, GA



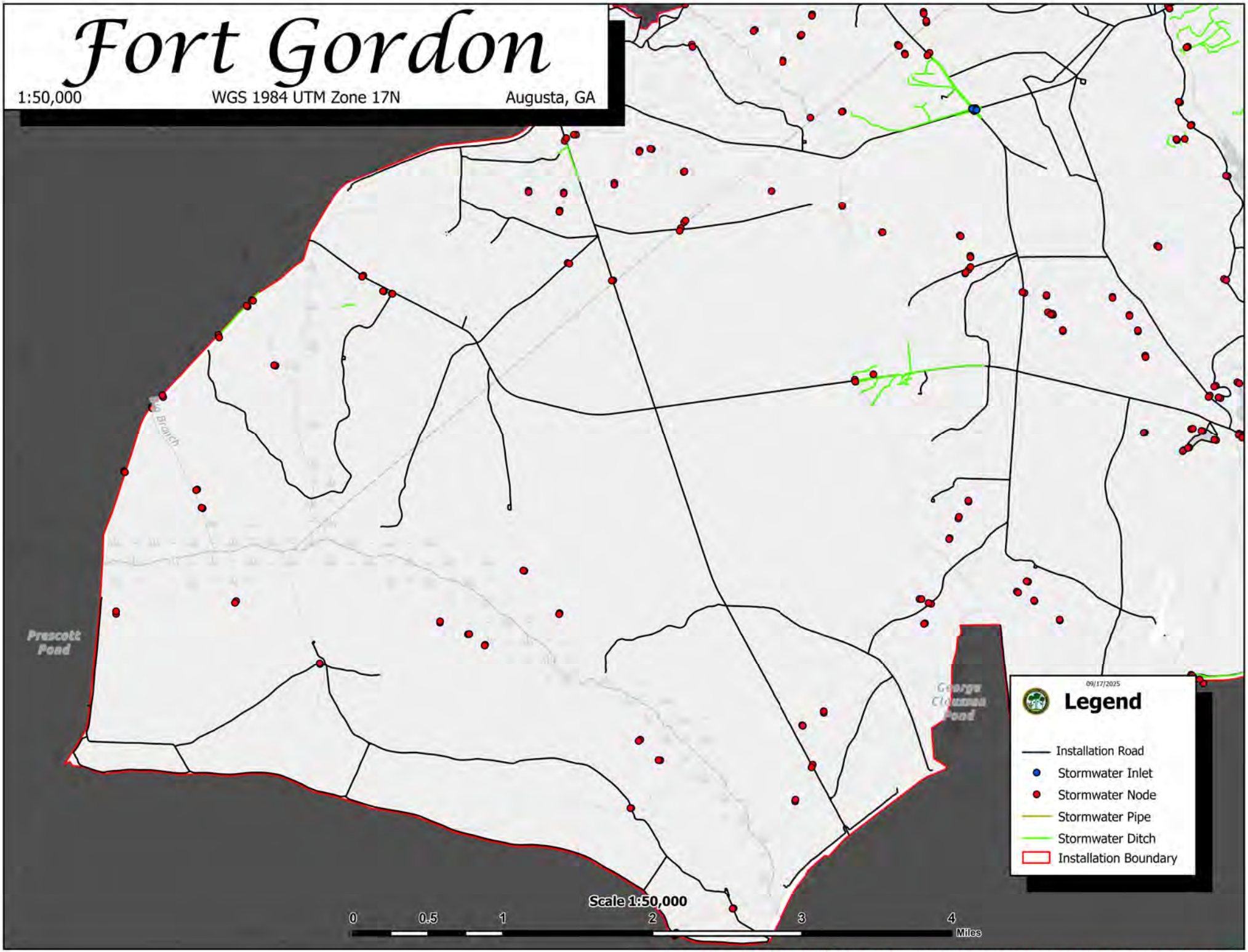
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Fort Gordon

1:50,000 WGS 1984 UTM Zone 17N Augusta, GA



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Fort Gordon
1:50,000
WGS 1984 UTM Zone 17N
Augusta, GA
Prescott Pond
George Clemens Pond
09/17/2025
Legend
Installation Road
Stormwater Inlet
Stormwater Node
Stormwater Pipe
Stormwater Ditch
Installation Boundary
Scale 1:50,000
0
0.5
1
2
3
4
Miles

2025 Fort Gordon Ditch Inventory

Structure ID	GEOS ID	X	Y	Feature Length (ft)
SWD-0002	1	-82.17976691	33.42571626	89.24542704
SWD-0003	2	-82.18009992	33.41816909	103.4053364
SWD-0004	3	-82.18008314	33.41857136	102.8582218
SWD-0005	4	-82.18368639	33.42349382	100.8163511
SWD-0006	5	-82.1836725	33.42425117	87.73017485
SWD-0007	6	-82.18334963	33.41716316	142.1098998
SWD-0008	7	-82.18378752	33.41803548	133.1793944
SWD-0009	8	-82.18353296	33.41738482	56.50008835
SWD-0010	9	-82.18425118	33.41844577	203.0520696
SWD-0011	10	-82.18371597	33.4229634	189.5340363
SWD-0012	11	-82.18392584	33.42140875	75.85256033
SWD-0013	12	-82.18390007	33.42199993	72.91980693
SWD-0014	13	-82.17617622	33.41330919	35.88081241
SWD-0015	14	-82.16397747	33.4289836	46.68433632
SWD-0016	15	-82.11879926	33.42926837	379.0969682
SWD-0018	16	-82.18647173	33.42885343	194.2779953
SWD-0019	17	-82.18656476	33.42845545	130.2040718
SWD-0020	18	-82.18613461	33.42368685	3.658135757
SWD-0021	19	-82.18364412	33.42323467	23.794049
SWD-0022	20	-82.17813286	33.4169959	71.52673713
SWD-0023	21	-82.17638015	33.41617956	59.78302709
SWD-0025	22	-82.17618882	33.41273959	323.4760888
SWD-0026	23	-82.17601131	33.41280483	338.699783
SWD-0027	24	-82.17602541	33.41219896	102.2626448
SWD-0029	25	-82.1776105	33.41081405	931.7925634
SWD-0030	26	-82.17826083	33.41211373	63.40170096
SWD-0031	27	-82.17620554	33.41221675	58.33386589
SWD-0032	28	-82.17180754	33.43154926	295.6892823
SWD-0034	29	-82.16676483	33.43297346	103.7649738
SWD-0035	30	-82.17988474	33.42976343	74.6036806
SWD-0036	31	-82.17934497	33.43083553	188.914444
SWD-0037	32	-82.17960293	33.43133409	80.88981559
SWD-0039	33	-82.17623713	33.43076875	125.0063342
SWD-0040	34	-82.1775304	33.43095028	216.5045848
SWD-0041	35	-82.17624285	33.43051866	57.36512703
SWD-0042	36	-82.17624522	33.4303023	100.1316575
SWD-0043	37	-82.17598996	33.43125782	108.5175847
SWD-0044	38	-82.1753078	33.43131921	68.27897964
SWD-0045	39	-82.17474113	33.43131161	190.7531694
SWD-0046	40	-82.17303773	33.43128298	183.1624491
SWD-0047	41	-82.17299424	33.43147376	35.70117906
SWD-0048	42	-82.17309519	33.4301017	125.466413
SWD-0049	43	-82.17428598	33.43012232	101.2187145
SWD-0050	44	-82.17274339	33.430183	121.4926497
SWD-0051	45	-82.17105854	33.43086264	161.4899996
SWD-0052	46	-82.17105391	33.43152249	163.3189611
SWD-0053	47	-82.1700809	33.43148573	168.4494122
SWD-0055	48	-82.17257638	33.4369871	201.9821332
SWD-0056	49	-82.17119644	33.43592192	84.95542927
SWD-0057	50	-82.17222525	33.43668759	148.4007521
SWD-0058	51	-82.17060022	33.43533791	307.0592667
SWD-0059	52	-82.16974009	33.43471463	103.3211601
SWD-0065	53	-82.16757008	33.43172985	143.253659
SWD-0066	54	-82.1680018	33.43143883	200.672576
SWD-0067	55	-82.17637063	33.43569499	433.0227896
SWD-0068	56	-82.17787038	33.43377153	1083.263642
SWD-0069	57	-82.17032429	33.43029817	364.5396607

2025 Fort Gordon Ditch Inventory

SWD-0070	58	-82.18443425	33.42972185	112.2418809
SWD-0071	59	-82.18566174	33.42953682	163.4230705
SWD-0072	60	-82.18477603	33.42964144	105.1053457
SWD-0073	61	-82.16470794	33.42996687	93.86207294
SWD-0074	62	-82.16403397	33.42943243	158.3989691
SWD-0075	63	-82.16498202	33.43023382	162.5622245
SWD-0076	64	-82.16426031	33.42906917	93.5411419
SWD-0077	65	-82.16364042	33.42928878	204.9129188
SWD-0078	66	-82.17667524	33.42738791	218.1417657
SWD-0079	67	-82.17720493	33.42739815	105.1003877
SWD-0081	68	-82.17392936	33.41498228	375.1504808
SWD-0082	69	-82.17310426	33.41497602	70.70017471
SWD-0091	70	-82.16208012	33.39542308	244.3258529
SWD-0092	71	-82.17965691	33.42727923	38.98754311
SWD-0093	72	-82.180065	33.42728691	72.57438538
SWD-0094	73	-82.18588451	33.42400607	181.3730733
SWD-0096	74	-82.17809579	33.41883501	125.4822323
SWD-0097	75	-82.17811279	33.4180866	140.109723
SWD-0098	76	-82.1801646	33.415732	109.4063551
SWD-0099	77	-82.18011503	33.41775263	101.1112143
SWD-0100	78	-82.18014013	33.4170309	35.7539708
SWD-0101	79	-82.23589432	33.35890099	2209.129524
SWD-0102	80	-82.23561195	33.35929054	314.2577913
SWD-0103	81	-82.23164203	33.35663726	1246.750018
SWD-0104	82	-82.23086724	33.35907726	1195.710977
SWD-0105	83	-82.2314708	33.35862548	563.0508249
SWD-0106	84	-82.23145595	33.36201594	1513.773313
SWD-0107	85	-82.23732709	33.36104129	562.7630111
SWD-0108	86	-82.23680775	33.36076438	1285.262876
SWD-0109	87	-82.23535793	33.3621397	1087.737067
SWD-0110	88	-82.16749887	33.40706986	127.7926876
SWD-0111	89	-82.23211202	33.371762	767.3343495
SWD-0117	90	-82.17735166	33.40545873	250.6076231
SWD-0118	91	-82.17717235	33.40662726	125.0060387
SWD-0119	92	-82.17124324	33.402643	245.144094
SWD-0120	93	-82.17149293	33.40354325	182.1128264
SWD-0121	94	-82.17244429	33.40465042	280.1506303
SWD-0122	95	-82.17276779	33.42558177	62.49713599
SWD-0123	96	-82.17277151	33.42528459	104.5878133
SWD-0124	97	-82.17297407	33.42590564	173.7912403
SWD-0125	98	-82.23051698	33.37850935	479.4107575
SWD-0126	99	-82.23020284	33.37808588	127.2022592
SWD-0127	100	-82.23155065	33.37578205	1455.827486
SWD-0128	101	-82.23088239	33.37645399	959.2518238
SWD-0129	102	-82.23301556	33.37624886	2254.955216
SWD-0130	103	-82.18102148	33.40686139	129.2394639
SWD-0132	104	-82.18196011	33.4071961	133.0592686
SWD-0134	105	-82.17715706	33.4064269	151.5916776
SWD-0135	106	-82.18169127	33.41871549	125.0056389
SWD-0136	107	-82.18171022	33.41798734	125.0053317
SWD-0137	108	-82.1818001	33.42347997	96.79732459
SWD-0138	109	-82.18158911	33.42333736	23.0329361
SWD-0139	110	-82.18161839	33.42362785	13.18259523
SWD-0140	111	-82.18407834	33.40808431	130.2276065
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SWD-0142	113	-82.18320938	33.40773139	135.8881887
SWD-0146	114	-82.17312889	33.4085406	163.6796764
SWD-0147	115	-82.12402713	33.40485881	307.9935965

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SWD-0148	116	-82.12358801	33.40436534	90.99713914
SWD-0149	117	-82.12450461	33.40537696	122.7134702
SWD-0157	118	-82.17267297	33.4306844	182.5512991
SWD-0158	119	-82.17865793	33.43136917	517.9744369
SWD-0159	120	-82.1781046	33.42723937	155.9364465
SWD-0160	121	-82.17759236	33.42724616	100.95518
SWD-0161	122	-82.17645385	33.42723349	76.20900599
SWD-0162	123	-82.17632102	33.42660138	151.5166966
SWD-0163	124	-82.18077259	33.42729887	272.5427347
SWD-0164	125	-82.18074016	33.42601003	366.0545744
SWD-0165	126	-82.18001523	33.42600166	26.34576365
SWD-0166	127	-82.17781862	33.42596633	64.27508308
SWD-0167	128	-82.17813475	33.42535004	118.8264313
SWD-0168	129	-82.17592096	33.36563204	332.3598046
SWD-0169	130	-82.17707983	33.36543454	401.557828
SWD-0170	131	-82.20365157	33.40698747	399.1279467
SWD-0171	132	-82.2027636	33.40095904	1841.494715
SWD-0172	133	-82.20235619	33.39995093	268.6620504
SWD-0173	134	-82.20238514	33.40341479	458.994302
SWD-0174	135	-82.20284723	33.40663073	751.2810012
SWD-0176	136	-82.23978754	33.35865022	304.6615524
SWD-0177	137	-82.18373104	33.41997824	91.496473
SWD-0178	138	-82.18374474	33.41936701	88.3299815
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SWD-0180	140	-82.18190583	33.41934028	78.80026539
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SWD-0182	142	-82.17969527	33.42757288	106.1894108
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SWD-0184	144	-82.17703043	33.42806728	201.0992321
SWD-0185	145	-82.17644755	33.428047	94.48272437
SWD-0186	146	-82.17623631	33.41054342	12.1996962
SWD-0187	147	-82.17805974	33.40884808	156.4576791
SWD-0188	148	-82.17628652	33.40821266	295.1258171
SWD-0189	149	-82.17833513	33.40818219	488.0163729
SWD-0190	150	-82.17836171	33.40709967	147.7916275
SWD-0191	151	-82.17632783	33.40628456	154.683995
SWD-0192	152	-82.17652812	33.40611908	106.0456896
SWD-0193	153	-82.17298079	33.4160574	71.71936007
SWD-0195	154	-82.17315956	33.40777005	357.640552
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SWD-0198	157	-82.17469186	33.42720654	134.9268613
SWD-0199	158	-82.17374828	33.42718655	375.0958701
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SWD-0202	160	-82.17366523	33.42735092	489.0661259
SWD-0204	161	-82.1613327	33.42895862	162.9082703
SWD-0205	162	-82.16382978	33.42886573	78.32220819
SWD-0206	163	-82.13385132	33.41545699	214.0298861
SWD-0207	164	-82.13248992	33.41802957	160.6920776
SWD-0208	165	-82.13882964	33.41857256	230.375168
SWD-0210	166	-82.15180286	33.41464936	313.2086176
SWD-0213	167	-82.17612294	33.4275135	73.98698596
SWD-0214	168	-82.176337	33.42608431	101.5860404
SWD-0215	169	-82.17817458	33.42338591	74.89039945
SWD-0216	170	-82.17803816	33.42338262	73.21442408
SWD-0217	171	-82.17798004	33.42567888	79.22541713
SWD-0218	172	-82.17996267	33.42569825	70.46642901
SWD-0219	173	-82.13419296	33.41138583	68.09495326

2025 Fort Gordon Ditch Inventory

SWD-0220	174	-82.14278452	33.41409433	304.6600457
SWD-0222	175	-82.13266096	33.41438078	183.4758933
SWD-0223	176	-82.13086276	33.41215963	323.9846321
SWD-0225	177	-82.12558012	33.40658229	125.990181
SWD-0227	178	-82.17814366	33.42491546	137.9838963
SWD-0228	179	-82.17815505	33.42427892	239.2902213
SWD-0229	180	-82.17801892	33.42416747	157.2561355
SWD-0230	181	-82.17800058	33.42494306	118.925832
SWD-0231	182	-82.17799378	33.42534117	122.030761
SWD-0232	183	-82.15421648	33.42560924	38.79102346
SWD-0233	184	-82.15243733	33.42326681	74.53603952
SWD-0234	185	-82.15407461	33.4237653	113.3189978
SWD-0235	186	-82.15422026	33.423768	116.7025086
SWD-0236	187	-82.1542099	33.42415625	135.646642
SWD-0237	188	-82.15500448	33.42562428	384.1926443
SWD-0238	189	-82.16487051	33.42475042	120.7798409
SWD-0239	190	-82.16488512	33.42413477	280.923023
SWD-0240	191	-82.16490065	33.42351814	118.53086
SWD-0241	192	-82.18169117	33.43049002	67.50177364
SWD-0242	193	-82.18097125	33.42745141	2.470565098
SWD-0243	194	-82.13809832	33.42100961	214.7030983
SWD-0244	195	-82.13680087	33.42093225	147.4392685
SWD-0245	196	-82.13630686	33.41990117	207.2824722
SWD-0246	197	-82.14262804	33.4144997	482.3332296
SWD-0248	198	-82.13551289	33.42279645	111.7458003
SWD-0249	199	-82.14692574	33.41456864	75.40674321
SWD-0250	200	-82.14544082	33.41583082	41.04285347
SWD-0251	201	-82.13277952	33.4142628	401.5609297
SWD-0253	202	-82.13325478	33.4103512	492.1997488
SWD-0254	203	-82.13200777	33.40897233	352.9834603
SWD-0255	204	-82.13104558	33.40790959	535.9517634
SWD-0256	205	-82.12999885	33.40675817	517.5211118
SWD-0257	206	-82.12735306	33.40183431	31.61165982
SWD-0258	207	-82.12753204	33.40230643	169.1937231
SWD-0259	208	-82.12902951	33.4039571	171.0427767
SWD-0260	209	-82.17526455	33.42592952	333.4301221
SWD-0261	210	-82.18177074	33.42509768	241.3652999
SWD-0263	211	-82.18306255	33.42335488	146.0754982
SWD-0264	212	-82.18248144	33.42335113	91.85200271
SWD-0265	213	-82.18179165	33.42396896	141.564495
SWD-0266	214	-82.18432333	33.42314367	105.4527979
SWD-0267	215	-82.18185035	33.4214953	120.8777812
SWD-0268	216	-82.18345265	33.41909781	60.72234875
SWD-0269	217	-82.18261681	33.41908646	66.48790973
SWD-0270	218	-82.18398594	33.41966529	299.9384268
SWD-0271	219	-82.18395539	33.42071333	293.8498354
SWD-0272	220	-82.18380035	33.41844351	164.6887215
SWD-0273	221	-82.18179036	33.41571359	129.9868529
SWD-0274	222	-82.1817984	33.41526946	78.0099707
SWD-0275	223	-82.17293293	33.419344	296.2680647
SWD-0276	224	-82.17311185	33.4189307	118.1835521
SWD-0277	225	-82.17364216	33.41909202	254.9893
SWD-0278	226	-82.18365935	33.40789531	165.7812347
SWD-0279	227	-82.18694205	33.41003213	139.966288
SWD-0280	228	-82.18787935	33.41075242	139.4403482
SWD-0282	229	-82.18779935	33.41049066	139.8795409
SWD-0284	230	-82.18149639	33.40701088	180.693786
SWD-0286	231	-82.17132792	33.40313285	133.2540776

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SWD-0292	232	-82.17937573	33.40672903	562.0144993
SWD-0293	233	-82.18372823	33.42072472	305.0481306
SWD-0294	234	-82.18373099	33.41967042	132.6103711
SWD-0295	235	-82.18188604	33.41975682	224.8512961
SWD-0296	236	-82.18170097	33.41835148	140.0065147
SWD-0297	237	-82.18962067	33.41261073	203.5913556
SWD-0298	238	-82.1883351	33.41379219	395.7236968
SWD-0299	239	-82.18787855	33.41446386	213.3202401
SWD-0300	240	-82.18811601	33.41481093	188.8857148
SWD-0301	241	-82.18808564	33.41499312	183.5660122
SWD-0302	242	-82.18784826	33.41574889	581.4207341
SWD-0303	243	-82.18804746	33.4164518	252.0042384
SWD-0304	244	-82.18173713	33.41680853	164.4219112
SWD-0305	245	-82.18013855	33.41725607	128.0793178
SWD-0306	246	-82.1799968	33.41523631	112.5359298
SWD-0307	247	-82.17674751	33.40606992	210.7431685
SWD-0308	248	-82.17232412	33.40401913	140.0046537
SWD-0309	249	-82.1907192	33.4130298	84.92628376
SWD-0310	250	-82.18935641	33.41233749	38.53217259
SWD-0311	251	-82.13395742	33.42509826	11.39775551
SWD-0312	252	-82.13545792	33.42475879	59.43139019
SWD-0313	253	-82.13651781	33.42536171	207.9251621
SWD-0314	254	-82.11183832	33.41808461	2.914967153
SWD-0321	255	-82.18824927	33.41094057	125.0056344
SWD-0322	256	-82.18724423	33.41029352	125.0063525
SWD-0323	257	-82.18753149	33.41053804	125.0052531
SWD-0324	258	-82.18667261	33.40979659	97.9847353
SWD-0325	259	-82.18852917	33.41083275	125.0063
SWD-0326	260	-82.18746918	33.41025525	125.0061487
SWD-0328	261	-82.18815458	33.41069697	125.0065051
SWD-0329	262	-82.18719145	33.41000425	125.0059888
SWD-0332	263	-82.17796379	33.41352392	167.9696102
SWD-0333	264	-82.17711278	33.4135155	236.8573469
SWD-0334	265	-82.17620409	33.41201991	37.9831691
SWD-0335	266	-82.15562652	33.41059296	277.3804223
SWD-0336	267	-82.14820221	33.41459528	375.6602396
SWD-0337	268	-82.15589873	33.41093392	563.5136228
SWD-0339	269	-82.15687667	33.41149122	41.92396708
SWD-0340	270	-82.14995105	33.4146241	549.7483124
SWD-0341	271	-82.13665336	33.41960062	115.2246869
SWD-0342	272	-82.14061232	33.41570253	40.77681395
SWD-0343	273	-82.1408304	33.41570609	41.00451117
SWD-0344	274	-82.14720492	33.4153287	50.61356845
SWD-0345	275	-82.15285634	33.41465406	142.7803826
SWD-0346	276	-82.17810424	33.41847085	139.9504118
SWD-0347	277	-82.17811384	33.41735953	139.2117087
SWD-0348	278	-82.1728845	33.42013817	294.0802734
SWD-0349	279	-82.12506052	33.40600503	400.2627278
SWD-0350	280	-82.12060396	33.40090825	95.68090699
SWD-0353	281	-82.16436921	33.3998679	208.0040921
SWD-0355	282	-82.17735516	33.43132197	145.3862987
SWD-0356	283	-82.17622721	33.4311293	143.7325485
SWD-0357	284	-82.17563842	33.43132274	133.4482837
SWD-0358	285	-82.17813133	33.42567594	71.61989735
SWD-0359	286	-82.18161287	33.42384859	60.70812069
SWD-0360	287	-82.18175825	33.42556958	21.49466168
SWD-0361	288	-82.18175311	33.42578383	37.90935921
SWD-0362	289	-82.18639208	33.42725337	843.8156864

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SWD-0363	290	-82.18292556	33.4232258	19.68644881
SWD-0364	291	-82.18290162	33.4232122	11.39978793
SWD-0365	292	-82.18292739	33.42319062	10.82400148
SWD-0366	293	-82.18352036	33.42336042	78.31594946
SWD-0367	294	-82.18667863	33.42244131	694.738617
SWD-0368	295	-82.1734163	33.41989853	158.7363667
SWD-0369	296	-82.17312683	33.42007069	190.7657974
SWD-0370	297	-82.17383626	33.42307525	113.2895984
SWD-0371	298	-82.17891688	33.41505401	235.3798478
SWD-0372	299	-82.17851688	33.41390008	111.0859344
SWD-0373	300	-82.1798727	33.43000836	103.8338046
SWD-0374	301	-82.17343766	33.43128571	60.83908663
SWD-0375	302	-82.17267936	33.43035829	22.16532966
SWD-0376	303	-82.17349432	33.43010802	118.1259585
SWD-0377	304	-82.17057193	33.43150253	131.555711
SWD-0378	305	-82.17583213	33.427379	184.0408719
SWD-0380	306	-82.17279874	33.42732775	39.84596024
SWD-0381	307	-82.17517677	33.4273651	163.9196433
SWD-0384	308	-82.18162304	33.42343637	71.00932928
SWD-0385	309	-82.18183543	33.42265516	129.4899975
SWD-0386	310	-82.18391215	33.42170628	140.8599199
SWD-0387	311	-82.17802679	33.42371481	120.2090186
SWD-0388	312	-82.1781668	33.42371792	120.1121888
SWD-0389	313	-82.17978874	33.42497386	121.4325447
SWD-0390	314	-82.17995639	33.42536025	114.4589134
SWD-0391	315	-82.17996362	33.42497717	117.8542424
SWD-0392	316	-82.17997524	33.42453571	88.90088511
SWD-0393	317	-82.17998472	33.42415411	123.8173284
SWD-0394	318	-82.17980609	33.42413792	120.2033527
SWD-0395	319	-82.1798007	33.42452922	94.70965304
SWD-0396	320	-82.17839288	33.42328938	127.8371196
SWD-0397	321	-82.17743987	33.4232731	365.5921856
SWD-0398	322	-82.17442865	33.42308845	135.4334608
SWD-0399	323	-82.17323963	33.4230605	250.9215415
SWD-0400	324	-82.1728074	33.42396386	352.0559423
SWD-0401	325	-82.17341723	33.42322892	475.6442878
SWD-0402	326	-82.17318504	33.40609817	365.1099622
SWD-0403	327	-82.17320355	33.40542303	126.2937128
SWD-0404	328	-82.17129152	33.40544668	571.9413895
SWD-0405	329	-82.17285085	33.42411632	25.20762552
SWD-0406	330	-82.13545718	33.42451047	121.2800609
SWD-0407	331	-82.13212064	33.41817969	177.3747799
SWD-0408	332	-82.13954411	33.41858257	141.5969537
SWD-0409	333	-82.1720241	33.43641522	92.74503183
SWD-0410	334	-82.17095627	33.43577804	115.8165461
SWD-0411	335	-82.17010378	33.43488473	157.3622443
SWD-0412	336	-82.16827786	33.43291994	646.3354011
SWD-0413	337	-82.17026385	33.43348378	794.2765673
SWD-0414	338	-82.16854388	33.43123235	163.8258094
SWD-0415	339	-82.16558033	33.43097128	487.9356364
SWD-0416	340	-82.16442351	33.42971571	158.2763901
SWD-0423	341	-82.16760889	33.40831499	124.6210568
SWD-0424	342	-82.16765155	33.40750033	110.0177433
SWD-0426	343	-82.13686082	33.40855528	49.94740746
SWD-0427	344	-82.14552241	33.41457766	64.59235117
SWD-0428	345	-82.14374267	33.41433607	210.8381144
SWD-0429	346	-82.14651902	33.41456314	172.8169459
SWD-0438	347	-82.12422709	33.3973986	996.7230372

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SWD-0439	348	-82.15734225	33.41196054	216.8063755
SWD-0440	349	-82.15898457	33.41273933	785.4536834
SWD-0441	350	-82.15957154	33.41231311	1022.9529
SWD-0442	351	-82.15376351	33.4104426	579.3412602
SWD-0443	352	-82.15421146	33.41040835	888.2363844
SWD-0444	353	-82.15343217	33.40726117	1558.061829
SWD-0446	354	-82.17826723	33.41179164	45.50518696
SWD-0447	355	-82.17589206	33.4102549	1306.66837
SWD-0448	356	-82.17810236	33.41020417	59.51448426
SWD-0450	357	-82.17300989	33.41447432	192.119974
SWD-0455	358	-82.17830191	33.40952441	469.3396952
SWD-0456	359	-82.17341851	33.40673122	153.7894557
SWD-0457	360	-82.17631643	33.40691774	306.0628867
SWD-0458	361	-82.17282616	33.422981	54.63951525
SWD-0459	362	-82.17313803	33.41980525	20.97784546
SWD-0460	363	-82.17314976	33.41979239	21.43440957
SWD-0465	364	-82.1713592	33.42354639	66.74942708
SWD-0466	365	-82.17197821	33.42393857	404.0246825
SWD-0467	366	-82.17293312	33.41839795	386.4984169
SWD-0468	367	-82.1830844	33.4190879	104.3981955
SWD-0470	368	-82.18065301	33.41290065	579.9481962
SWD-0471	369	-82.16969683	33.41618209	319.1463804
SWD-0472	370	-82.17297466	33.41565655	104.1434839
SWD-0473	371	-82.17856486	33.41416259	122.0609986
SWD-0474	372	-82.17840181	33.41424957	123.2674266
SWD-0475	373	-82.16059332	33.4142384	335.8314953
SWD-0476	374	-82.15965374	33.41379079	434.5965269
SWD-0477	375	-82.15803134	33.41437159	224.9109563
SWD-0478	376	-82.15802743	33.41406299	5.642958866
SWD-0479	377	-82.15431283	33.41592066	27.38130855
SWD-0480	378	-82.15977311	33.41672375	254.6400384
SWD-0481	379	-82.15862747	33.4188744	231.1819116
SWD-0482	380	-82.15785587	33.41886197	189.9902894
SWD-0483	381	-82.15739649	33.41885534	41.56271423
SWD-0484	382	-82.15522742	33.4188188	684.4413517
SWD-0485	383	-82.14463913	33.41865599	153.4905559
SWD-0486	384	-82.14071853	33.41844178	444.4601851
SWD-0487	385	-82.14404621	33.41580882	296.7746852
SWD-0488	386	-82.14264043	33.41578659	67.98625596
SWD-0489	387	-82.14092064	33.41576358	252.5600655
SWD-0490	388	-82.13791407	33.41762843	511.2797895
SWD-0492	389	-82.13427243	33.41591042	204.2670589
SWD-0493	390	-82.13588922	33.42264696	153.3445009
SWD-0494	391	-82.17699117	33.42751227	69.31876552
SWD-0496	392	-82.17745241	33.42751188	109.4337794
SWD-0497	393	-82.17605044	33.43068741	168.0128434
SWD-0498	394	-82.17267452	33.43124527	56.26938917
SWD-0499	395	-82.17266263	33.43101637	59.06981032
SWD-0500	396	-82.17467312	33.43012057	82.91419699
SWD-0501	397	-82.17558207	33.43013711	75.77672151
SWD-0502	398	-82.17941907	33.42727819	49.38149981
SWD-0503	399	-82.17649583	33.42594882	97.86150082
SWD-0504	400	-82.17739352	33.42596233	139.1301071
SWD-0505	401	-82.17822028	33.42621497	24.17216564
SWD-0506	402	-82.17973383	33.42614884	110.2067737
SWD-0507	403	-82.17832656	33.42700578	94.38515161
SWD-0509	404	-82.17269126	33.42923087	91.65890216
SWD-0510	405	-82.17297222	33.42909626	170.4246991

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SWD-0511	406	-82.16701771	33.43234812	260.7477901
SWD-0512	407	-82.16723948	33.43248303	180.0190781
SWD-0513	408	-82.17289413	33.42738609	45.31650498
SWD-0514	409	-82.17274667	33.4277356	313.122886
SWD-0515	410	-82.17400017	33.42597378	34.28703563
SWD-0516	411	-82.17354414	33.42596369	38.51698333
SWD-0517	412	-82.17356599	33.42591806	153.0876383
SWD-0518	413	-82.17602737	33.42593962	83.52335317
SWD-0519	414	-82.17492827	33.42598181	45.73553525
SWD-0520	415	-82.147039	33.41509455	218.4899864
SWD-0521	416	-82.14583683	33.41455837	243.553897
SWD-0522	417	-82.1472162	33.41491335	85.62129528
SWD-0523	418	-82.14443101	33.41453929	478.2443573
SWD-0525	419	-82.13780803	33.4115559	329.8617647
SWD-0526	420	-82.13671141	33.40865769	238.6120998
SWD-0527	421	-82.13416575	33.40923511	180.4448751
SWD-0528	422	-82.13357862	33.40858857	292.243541
SWD-0530	423	-82.14816662	33.40760713	82.35702716
SWD-0532	424	-82.16025181	33.40290561	166.1038937
SWD-0533	425	-82.16059225	33.40305981	27.64086896
SWD-0537	426	-82.10813	33.419679	144.3912949
SWD-0538	427	-82.10763858	33.4188005	631.2051574
SWD-0539	428	-82.11151053	33.41801979	135.5692559
SWD-0540	429	-82.10949975	33.41811757	712.4388062
SWD-0541	430	-82.10941969	33.42133133	188.2873749
SWD-0543	431	-82.10216281	33.42410432	2681.831472
SWD-0544	432	-82.11130941	33.42499622	773.4377821
SWD-0545	433	-82.1129943	33.42641052	668.3618782
SWD-0546	434	-82.15246406	33.4047407	734.7207136
SWD-0547	435	-82.14974248	33.39810261	999.931384
SWD-0548	436	-82.14991002	33.39888322	963.4661125
SWD-0551	437	-82.14824659	33.3949791	667.2212388
SWD-0552	438	-82.1481302	33.39580947	889.9486757
SWD-0553	439	-82.14482992	33.39491094	1669.794933
SWD-0554	440	-82.15011404	33.39695787	574.0285616
SWD-0555	441	-82.15378919	33.39793793	705.5093383
SWD-0556	442	-82.15269988	33.39737202	83.83261141
SWD-0557	443	-82.15668645	33.39695954	1401.080169
SWD-0558	444	-82.15603245	33.39831655	696.8085838
SWD-0559	445	-82.15922002	33.39872148	1143.771238
SWD-0560	446	-82.15813808	33.39892143	1308.964265
SWD-0562	447	-82.1610909	33.39938537	550.5535636
SWD-0564	448	-82.16719441	33.40060087	1570.809496
SWD-0565	449	-82.16288566	33.39528236	225.793389
SWD-0566	450	-82.1190351	33.42806611	29.62402236
SWD-0567	451	-82.11635661	33.42743462	1504.982473
SWD-0568	452	-82.11688353	33.42612009	1043.439363
SWD-0569	453	-82.11778799	33.43156446	404.1812964
SWD-0570	454	-82.11925467	33.42811458	128.7423499
SWD-0571	455	-82.132261	33.42402461	313.7712827
SWD-0572	456	-82.13440181	33.42530735	640.986047
SWD-0574	457	-82.16319619	33.39555692	45.02484336
SWD-0576	458	-82.16357177	33.39669587	156.6130767
SWD-0580	459	-82.11773897	33.39296278	446.6013286
SWD-0581	460	-82.11601042	33.39417606	674.8547329
SWD-0582	461	-82.11475495	33.3953396	44.90119341
SWD-0584	462	-82.1161337	33.3946712	442.7934505
SWD-0585	463	-82.11482581	33.39602189	345.4564836

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SWD-0586	464	-82.11419212	33.39585232	364.9767172
SWD-0587	465	-82.11084562	33.39950601	1831.408663
SWD-0588	466	-82.11075389	33.40052015	299.5077183
SWD-0589	467	-82.11841132	33.39280482	23.56294505
SWD-0591	468	-82.1189216	33.39194986	681.7451952
SWD-0592	469	-82.12077343	33.389617	1016.180183
SWD-0596	470	-82.11596076	33.39514023	483.5085085
SWD-0598	471	-82.11754133	33.41514605	774.2347802
SWD-0599	472	-82.11943746	33.41813835	845.6678253
SWD-0600	473	-82.11607464	33.40306525	1412.377714
SWD-0601	474	-82.1096199	33.4230908	969.5420865
SWD-0602	475	-82.1107039	33.42405169	19.708622
SWD-0604	476	-82.10888352	33.42186426	260.9382834
SWD-0605	477	-82.10992251	33.42594889	1341.004921
SWD-0606	478	-82.11886675	33.42802315	33.54603126
SWD-0607	479	-82.15330705	33.40921045	122.7158285
SWD-0608	480	-82.15311902	33.40826591	575.2463679
SWD-0610	481	-82.15332076	33.40610572	892.6837708
SWD-0612	482	-82.1521453	33.40187793	1591.027948
SWD-0613	483	-82.17276071	33.41493909	13.27467502
SWD-0614	484	-82.1727632	33.41482965	15.62542401
SWD-0615	485	-82.16410828	33.41112024	645.6942446
SWD-0616	486	-82.18866831	33.42041749	87.27389432
SWD-0617	487	-82.18852585	33.41344598	96.32058244
SWD-0618	488	-82.18822899	33.41327921	132.0598418
SWD-0619	489	-82.18928833	33.41335995	283.6043809
SWD-0620	490	-82.18956419	33.41947122	432.3854941
SWD-0621	491	-82.18951028	33.41890852	124.5163352
SWD-0622	492	-82.18995386	33.41836973	799.0317656
SWD-0623	493	-82.18945557	33.4187845	171.8816569
SWD-0625	494	-82.18948943	33.41716008	190.6047871
SWD-0626	495	-82.18969244	33.41641623	838.4994965
SWD-0627	496	-82.18953671	33.41539261	176.9171885
SWD-0628	497	-82.18983621	33.41474064	369.0111456
SWD-0630	498	-82.18958776	33.41391865	282.9625593
SWD-0631	499	-82.18781552	33.41714381	323.5179759
SWD-0632	500	-82.18788702	33.41821709	42.9567193
SWD-0633	501	-82.18791684	33.41807979	502.8287983
SWD-0634	502	-82.190123	33.41590072	139.6143223
SWD-0635	503	-82.1901406	33.41570065	99.73334151
SWD-0636	504	-82.18996278	33.41533966	269.2400213
SWD-0637	505	-82.18819711	33.41938717	756.1886914
SWD-0638	506	-82.18927526	33.42028622	358.68039
SWD-0640	507	-82.18271012	33.41418145	427.9624721
SWD-0641	508	-82.18422862	33.41601495	972.9603509
SWD-0643	509	-82.18322301	33.40878562	866.6767767
SWD-0644	510	-82.18545082	33.40679777	1196.598903
SWD-0645	511	-82.17222813	33.40522216	130.3012062
SWD-0646	512	-82.17123845	33.40486825	176.3914362
SWD-0649	513	-82.14901776	33.39603008	346.9650987
SWD-0650	514	-82.15796486	33.41762509	135.0467414
SWD-0651	515	-82.15799095	33.41646041	176.6016992
SWD-0652	516	-82.15913218	33.41640206	801.3487687
SWD-0653	517	-82.15991517	33.41624421	100.8869989
SWD-0654	518	-82.16040478	33.41626103	58.8205598
SWD-0655	519	-82.16051535	33.41680867	394.0701579
SWD-0656	520	-82.16226028	33.41526571	897.5865578
SWD-0657	521	-82.16623664	33.41744528	694.2760891

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SWD-0658	522	-82.16192213	33.42079563	19.78945782
SWD-0659	523	-82.16219815	33.42106381	254.3961494
SWD-0660	524	-82.16301649	33.42190649	246.0290984
SWD-0661	525	-82.13436407	33.42081049	70.57549256
SWD-0662	526	-82.13519447	33.42106326	256.202601
SWD-0663	527	-82.13468079	33.41993957	16.12465447
SWD-0664	528	-82.13429995	33.42040224	243.0549277
SWD-0665	529	-82.13425494	33.42065504	16.65696574
SWD-0666	530	-82.13454622	33.42000581	43.24463405
SWD-0668	531	-82.13549605	33.42352074	112.6417621
SWD-0669	532	-82.13666827	33.42265383	189.0974092
SWD-0670	533	-82.12941086	33.43228778	1966.894008
SWD-0671	534	-82.12782141	33.43567478	579.2668705
SWD-0675	535	-82.11899751	33.43808074	615.2761159
SWD-0676	536	-82.11816745	33.43512491	1650.930012
SWD-0677	537	-82.11805676	33.43343532	98.23704573
SWD-0678	538	-82.11797705	33.43381168	49.29689929
SWD-0679	539	-82.11793526	33.43415864	35.48080809
SWD-0680	540	-82.11752012	33.43470034	905.221875
SWD-0681	541	-82.11819532	33.43122231	1105.247331
SWD-0682	542	-82.11861532	33.43105336	908.3099898
SWD-0684	543	-82.11798086	33.43066768	147.3473669
SWD-0687	544	-82.11816687	33.39334003	438.5563107
SWD-0688	545	-82.12286442	33.40158748	202.319927
SWD-0689	546	-82.12294295	33.40180656	225.1485915
SWD-0690	547	-82.12237439	33.40219249	173.4167092
SWD-0691	548	-82.12698222	33.40446942	371.7405026
SWD-0692	549	-82.12674001	33.40663279	334.2660472
SWD-0693	550	-82.13852573	33.41192993	100.264307
SWD-0694	551	-82.13823621	33.41180552	20.79611079
SWD-0698	552	-82.14159757	33.41466118	23.53526967
SWD-0699	553	-82.14228403	33.40902993	84.54231316
SWD-0700	554	-82.13198466	33.41825551	23.64141601
SWD-0701	555	-82.13007113	33.41860752	716.7651634
SWD-0703	556	-82.13064349	33.41289342	58.92538968
SWD-0704	557	-82.12903376	33.41255818	321.8762065
SWD-0705	558	-82.12941939	33.4126484	549.9396746
SWD-0706	559	-82.129591	33.41338609	62.4996955
SWD-0707	560	-82.12972478	33.41325515	176.3115075
SWD-0708	561	-82.12947145	33.41340651	13.54070102
SWD-0709	562	-82.12935841	33.41348591	33.53567355
SWD-0710	563	-82.12746407	33.41569538	405.2652241
SWD-0711	564	-82.12878958	33.41461357	250.7256665
SWD-0712	565	-82.12534477	33.40883281	567.1560344
SWD-0714	566	-82.12383066	33.40980298	599.7409811
SWD-0716	567	-82.11903533	33.40904916	715.9204714
SWD-0717	568	-82.11818793	33.41392227	157.8580886
SWD-0718	569	-82.12457714	33.39871615	468.9859206
SWD-0719	570	-82.12432202	33.39822629	132.0199388
SWD-0720	571	-82.12408965	33.39984625	561.366852
SWD-0721	572	-82.12693813	33.40210164	331.9744152
SWD-0722	573	-82.12958101	33.39739781	746.9251227
SWD-0723	574	-82.12655127	33.40083883	730.8967329
SWD-0724	575	-82.12729184	33.4017132	22.35715926
SWD-0726	576	-82.12297756	33.39848176	234.8969781
SWD-0727	577	-82.12330637	33.39651769	1354.139517
SWD-0728	578	-82.12275064	33.3978402	284.7365229
SWD-0729	579	-82.1231639	33.40074704	508.2034544

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SWD-0730	580	-82.12256514	33.40068857	384.5431107
SWD-0731	581	-82.1578568	33.4145956	368.8062054
SWD-0732	582	-82.15702884	33.41460117	239.7423487
SWD-0733	583	-82.15734721	33.4144102	30.64455706
SWD-0734	584	-82.15636362	33.41525644	17.36683551
SWD-0735	585	-82.15864012	33.41393662	29.43210698
SWD-0736	586	-82.15816137	33.41401038	19.71820747
SWD-0737	587	-82.15898375	33.41389315	24.65397529
SWD-0738	588	-82.15845541	33.41392661	188.5797328
SWD-0739	589	-82.16157369	33.41294668	190.3266356
SWD-0740	590	-82.16099354	33.4129767	485.2678317
SWD-0741	591	-82.16058772	33.41381931	42.43521644
SWD-0742	592	-82.16054921	33.41589083	159.7469738
SWD-0743	593	-82.15800122	33.41591541	116.9258856
SWD-0744	594	-82.15617675	33.4170223	119.0665956
SWD-0745	595	-82.1561659	33.41743824	134.0828314
SWD-0746	596	-82.1561499	33.41825285	118.9990619
SWD-0747	597	-82.15614643	33.41859621	82.20828407
SWD-0748	598	-82.16071276	33.41823665	252.2775559
SWD-0749	599	-82.16489491	33.42317274	86.50163111
SWD-0750	600	-82.13494824	33.41962985	103.2103164
SWD-0751	601	-82.13435602	33.41961451	132.6686657
SWD-0752	602	-82.13433408	33.41912939	84.14962866
SWD-0753	603	-82.14959226	33.42747902	253.767178
SWD-0754	604	-82.15628485	33.4256599	72.21758699
SWD-0755	605	-82.15602797	33.42564337	33.75155355
SWD-0756	606	-82.15578562	33.42564032	35.99980795
SWD-0757	607	-82.15782429	33.41631378	73.98781649
SWD-0758	608	-82.15725413	33.41621739	346.3045191
SWD-0759	609	-82.15797813	33.41704496	201.6020484
SWD-0760	610	-82.14328191	33.41863821	70.89683623
SWD-0761	611	-82.14281851	33.41863216	161.9072097
SWD-0762	612	-82.14432321	33.4186514	39.30337421
SWD-0763	613	-82.14068916	33.41859576	479.8796482
SWD-0764	614	-82.15623793	33.41596718	80.05518183
SWD-0765	615	-82.15707054	33.41601465	261.3415221
SWD-0766	616	-82.15784139	33.41569818	40.36991224
SWD-0767	617	-82.15783568	33.41541087	91.66310833
SWD-0768	618	-82.1465966	33.43318633	805.1380939
SWD-0769	619	-82.14287575	33.4335244	780.4824403
SWD-0771	620	-82.15131331	33.43399477	104.1972732
SWD-0773	621	-82.28215695	33.35818978	973.7066185
SWD-0774	622	-82.28051545	33.35821395	1557.906804
SWD-0775	623	-82.20976476	33.33948749	552.9283931
SWD-0776	624	-82.213099	33.33886794	1720.976445
SWD-0777	625	-82.20489394	33.33968968	2345.726179
SWD-0778	626	-82.21168674	33.34051752	2324.637366
SWD-0779	627	-82.24139031	33.37668908	68.20538589
SWD-0780	628	-82.24021162	33.37754482	64.30072172
SWD-0781	629	-82.23732019	33.37736799	353.5692816
SWD-0782	630	-82.23819043	33.37732615	287.9246494
SWD-0783	631	-82.2398214	33.37792507	45.65262029
SWD-0784	632	-82.24041277	33.37723047	138.0850037
SWD-0785	633	-82.23939438	33.37874377	629.5724937
SWD-0787	634	-82.24201761	33.37751267	464.9676248
SWD-0789	635	-82.15418357	33.43164398	428.5668069
SWD-0790	636	-82.17374901	33.36564168	199.4379795
SWD-0791	637	-82.17641245	33.36597347	153.9627949

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SWD-0792	638	-82.17855832	33.36735025	1565.188041
SWD-0793	639	-82.17810868	33.36820448	291.0875207
SWD-0794	640	-82.177335	33.36812542	499.8207562
SWD-0795	641	-82.16525916	33.43015189	986.0280138
SWD-0796	642	-82.18558148	33.35995904	1775.200019
SWD-0799	643	-82.35830911	33.33679105	350.4842042
SWD-0802	644	-82.24365855	33.3427851	90.61686704
SWD-0803	645	-82.2233044	33.36341863	731.215147
SWD-0804	646	-82.22470874	33.36472873	663.0285724
SWD-0805	647	-82.22431083	33.36417502	1135.586777
SWD-0806	648	-82.24639036	33.37438971	78.55545566
SWD-0807	649	-82.24507128	33.37249533	1269.536075
SWD-0808	650	-82.24139799	33.37689648	228.0169404
SWD-0809	651	-82.23849888	33.37911854	92.8509374
SWD-0810	652	-82.23462905	33.37978719	2192.789602
SWD-0811	653	-82.24232151	33.38129468	4184.960626
SWD-0812	654	-82.28135589	33.35920783	749.468722
SWD-0813	655	-82.27936438	33.35912171	2296.089304
SWD-0814	656	-82.27671135	33.35678288	865.7696461
SWD-0815	657	-82.28166508	33.35606284	445.7144528
SWD-0816	658	-82.28096295	33.35529285	638.7602374
SWD-0817	659	-82.13539424	33.41965954	73.68057598
SWD-0818	660	-82.15418729	33.42404418	17.03132673
SWD-0819	661	-82.15419325	33.42392172	15.00865698
SWD-0820	662	-82.15419522	33.42397744	14.74626475
SWD-0821	663	-82.15244045	33.42462822	27.27830404
SWD-0822	664	-82.15240171	33.42484836	71.28290073
SWD-0823	665	-82.15241423	33.42476913	6.726711041
SWD-0824	666	-82.13848317	33.43465255	1586.693006
SWD-0825	667	-82.14030373	33.4316287	183.6915869
SWD-0826	668	-82.14046732	33.43190451	424.6702225
SWD-0827	669	-82.14445819	33.43148813	65.85067393
SWD-0828	670	-82.14558863	33.43238144	733.9275969
SWD-0829	671	-82.14608686	33.4336598	410.1381829
SWD-0830	672	-82.15119358	33.43550209	18.63916039
SWD-0831	673	-82.15122241	33.43555161	37.45326131
SWD-0833	674	-82.15060272	33.43549395	341.9661891
SWD-0834	675	-82.32325793	33.35117378	212.746003
SWD-0835	676	-82.34757956	33.33602643	474.6846592
SWD-0836	677	-82.34279066	33.33714079	153.3465714
SWD-0837	678	-82.3427829	33.33742923	269.78218
SWD-0838	679	-82.25105534	33.37487252	311.2403995
SWD-0840	680	-82.25133157	33.37441515	281.1031483
SWD-0841	681	-82.24921438	33.38752763	105.5756346
SWD-0842	682	-82.24851853	33.38812711	522.7821662
SWD-0843	683	-82.24802314	33.38847041	172.0056413
SWD-0844	684	-82.13560105	33.41919349	401.1202259
SWD-0845	685	-82.13676989	33.42235527	111.3249039
SWD-0847	686	-82.1365877	33.42112918	22.07639865
SWD-0848	687	-82.13809742	33.42152477	160.2954429
SWD-0849	688	-82.14767619	33.41586393	149.2013619
SWD-0850	689	-82.14721796	33.41575176	144.3777309
SWD-0851	690	-82.14849446	33.41587524	213.5649496
SWD-0852	691	-82.14320095	33.41579656	144.4882545
SWD-0853	692	-82.14699924	33.41481033	27.50551154
SWD-0854	693	-82.14699322	33.41492781	29.83658573
SWD-0855	694	-82.1469898	33.41503786	30.67580026
SWD-0856	695	-82.14698719	33.41514774	31.00983066

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SWD-0857	696	-82.14747825	33.41459581	119.8867544
SWD-0858	697	-82.1523466	33.41469413	29.37754439
SWD-0859	698	-82.15327871	33.41460129	88.99192448
SWD-0860	699	-82.15373842	33.41493133	534.4466082
SWD-0861	700	-82.14970434	33.41589005	450.6305157
SWD-0862	701	-82.15145024	33.41592403	407.7781803
SWD-0863	702	-82.15262988	33.41468417	32.61063918
SWD-0864	703	-82.14508645	33.41866336	70.6502067
SWD-0865	704	-82.14209456	33.41862642	239.2472107
SWD-0866	705	-82.23607806	33.31452453	90.60780091
SWD-0867	706	-82.23577079	33.31433561	216.1764821
SWD-0868	707	-82.21373001	33.33810602	636.6485861
SWD-0869	708	-82.21040411	33.33764824	1567.920172
SWD-0870	709	-82.20432207	33.33853611	2272.173683
SWD-0871	710	-82.21116332	33.34191941	2608.266818
SWD-0872	711	-82.21100358	33.3432692	2178.278899
SWD-0873	712	-82.21500743	33.33800842	1393.345355
SWD-0874	713	-82.21474232	33.33753713	1145.562856
SWD-0875	714	-82.21650886	33.34069711	2404.061365
SWD-0876	715	-82.21599657	33.33829166	213.6505545
SWD-0877	716	-82.21434432	33.34156349	391.3423238
SWD-0878	717	-82.2137034	33.33931195	1255.536477
SWD-0879	718	-82.20937744	33.34024167	56.16519499
SWD-0880	719	-82.20851535	33.33897586	89.0167705
SWD-0881	720	-82.20794636	33.33758742	895.2121454
SWD-0882	721	-82.2377491	33.37698175	816.4014298
SWD-0883	722	-82.2389509	33.3769858	579.2453489
SWD-0884	723	-82.23715234	33.37722275	355.7847814
SWD-0885	724	-82.23749144	33.37813996	501.7259789
SWD-0886	725	-82.23597576	33.37814874	805.8082719
SWD-0887	726	-82.23661214	33.37731994	107.1862703
SWD-0888	727	-82.23970466	33.37947247	404.0167819
SWD-0889	728	-82.1540604	33.42448016	46.47727841
SWD-0892	729	-82.15249066	33.42289348	23.29628695
SWD-0893	730	-82.15244709	33.42299678	71.68565931
SWD-0894	731	-82.15248446	33.42271341	35.59874214
SWD-0895	732	-82.15243264	33.42347581	13.89291074
SWD-0896	733	-82.15249002	33.42405388	35.28240928
SWD-0897	734	-82.15249839	33.42375784	43.15733696
SWD-0898	735	-82.15122269	33.43436742	20.35279636
SWD-0899	736	-82.15119186	33.43434155	19.50521251
SWD-0900	737	-82.14932577	33.43450626	135.2537988
SWD-0902	738	-82.14911229	33.43433201	132.7455619
SWD-0903	739	-82.14886458	33.43434539	18.79564333
SWD-0904	740	-82.14879306	33.43482352	352.786926
SWD-0905	741	-82.14853214	33.43434777	149.8269192
SWD-0906	742	-82.14753891	33.43534247	402.1720994
SWD-0907	743	-82.14670886	33.43534065	27.37139401
SWD-0908	744	-82.14512944	33.43568097	104.6571927
SWD-0909	745	-82.14501224	33.43547555	74.27100839
SWD-0910	746	-82.14516464	33.43547853	18.8365765
SWD-0911	747	-82.14513514	33.43550803	21.27567721
SWD-0912	748	-82.14563235	33.43433368	18.88422442
SWD-0913	749	-82.14566446	33.43435794	17.61499426
SWD-0914	750	-82.15284324	33.43036314	1063.071955
SWD-0915	751	-82.1572363	33.43021628	262.3949983
SWD-0916	752	-82.15739389	33.43082786	179.6529974
SWD-0917	753	-82.15776209	33.43056015	144.911952

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SWD-0920	754	-82.16083366	33.42759298	392.8207581
SWD-0921	755	-82.16265569	33.4280469	212.0332979
SWD-0922	756	-82.16609249	33.43121282	856.0318402
SWD-0923	757	-82.1661866	33.4318929	193.4049326
SWD-0924	758	-82.16639922	33.43231715	96.12946941
SWD-0925	759	-82.16653475	33.43261829	61.39383886
SWD-0926	760	-82.1666251	33.43286052	35.43914821
SWD-0927	761	-82.14561273	33.43489796	394.6658549
SWD-0928	762	-82.14508727	33.43533334	145.8197288
SWD-0930	763	-82.14188581	33.43547485	260.9465463
SWD-0931	764	-82.1426888	33.43548162	140.0431228
SWD-0933	765	-82.14145189	33.43554867	17.63182838
SWD-0934	766	-82.14157981	33.43599176	330.223178
SWD-0937	767	-82.14221921	33.4343476	23.76383725
SWD-0939	768	-82.24708943	33.3676112	210.1940213
SWD-0940	769	-82.23334206	33.36114812	639.7251635
SWD-0941	770	-82.28786034	33.33033355	1089.951669
SWD-0942	771	-82.28736207	33.32961127	991.6826473
SWD-0943	772	-82.28631635	33.32919653	1474.600391
SWD-0944	773	-82.28759696	33.32941928	724.5776956
SWD-0945	774	-82.28537514	33.32983549	134.0037814
SWD-0946	775	-82.28431577	33.32961487	628.1192986
SWD-0947	776	-82.2861069	33.32797431	1093.272641
SWD-0948	777	-82.28268113	33.32980307	631.0019693
SWD-0949	778	-82.28325311	33.32969939	517.8903348
SWD-0950	779	-82.28329678	33.32910758	427.0201427
SWD-0951	780	-82.23524175	33.31344811	199.9134001
SWD-0952	781	-82.2344787	33.31321639	515.7914431
SWD-0953	782	-82.23490217	33.31312531	135.2824803
SWD-0954	783	-82.23539171	33.31256532	416.1350791
SWD-0955	784	-82.23659795	33.31348588	518.640975
SWD-0956	785	-82.2360473	33.31424622	147.5484412
SWD-0957	786	-82.2372343	33.31494225	940.7558446
SWD-0958	787	-82.23629751	33.31489971	403.0039294
SWD-0959	788	-82.2324357	33.31493047	1444.334252
SWD-0960	789	-82.23386319	33.31377071	101.7336346
SWD-0961	790	-82.23402875	33.31338576	187.2028652
SWD-0962	791	-82.2338162	33.31334942	170.5160299
SWD-0963	792	-82.23348869	33.31208536	948.7521826
SWD-0964	793	-82.23102834	33.31207614	1552.010318
SWD-0965	794	-82.27922429	33.33057371	3240.748758
SWD-0966	795	-82.28261851	33.33164303	1054.279511
SWD-0967	796	-82.24636669	33.30124022	2039.507015
SWD-0968	797	-82.24863586	33.3010326	556.5975729
SWD-0969	798	-82.24158616	33.30215793	1001.49041
SWD-0970	799	-82.32263585	33.35150439	284.9420747
SWD-0971	800	-82.32267292	33.35195062	259.9911679
SWD-0972	801	-82.23659532	33.38747726	1980.319834
SWD-0973	802	-82.23799393	33.38727542	1247.358249
SWD-0976	803	-82.23392573	33.38612324	398.1223591
SWD-0977	804	-82.24758493	33.36737626	239.6535746
SWD-0978	805	-82.24284103	33.36161317	752.6335495
SWD-0981	806	-82.16883519	33.43430986	411.722358
SWD-0982	807	-82.17010548	33.4345912	235.4950805
SWD-0983	808	-82.16974717	33.43463426	298.8682239
SWD-0984	809	-82.16919754	33.43429349	218.1550297
SWD-0985	810	-82.16965641	33.43506728	342.8794167
SWD-0986	811	-82.11125447	33.40262402	2006.116323

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SWD-0987	812	-82.11301	33.40095426	365.2682754
SWD-0988	813	-82.11419173	33.40068643	322.5461104
SWD-0989	814	-82.1139171	33.3998963	446.6982469
SWD-0990	815	-82.11209709	33.40034125	180.1575023
SWD-0991	816	-82.1531412	33.37546867	488.5856952
SWD-0992	817	-82.15404242	33.37555126	612.7501729
SWD-0998	818	-82.16392412	33.4360785	976.9418512
SWD-1000	819	-82.15929047	33.43575725	602.1656906
SWD-1001	820	-82.16107245	33.43626246	1200.09164
SWD-1002	821	-82.15845476	33.43602197	581.0695059
SWD-1003	822	-82.23438649	33.37532371	800.4576876
SWD-1006	823	-82.15140861	33.37333869	3183.461161
SWD-1007	824	-82.15512384	33.36993379	779.8461429
SWD-1008	825	-82.1522611	33.37268803	2253.627534
SWD-1009	826	-82.14991672	33.37463158	223.8584724
SWD-1010	827	-82.14815259	33.37407978	1465.449749
SWD-1011	828	-82.1512648	33.37547356	775.9552045
SWD-1012	829	-82.15142263	33.37535709	703.8737128
SWD-1013	830	-82.15042369	33.37493111	37.01356292
SWD-1014	831	-82.14976035	33.3755218	374.9199651
SWD-1015	832	-82.15068883	33.37565613	516.7953384
SWD-1016	833	-82.1519697	33.37449706	997.4008971
SWD-1017	834	-82.23410829	33.37080819	2111.173789
SWD-1018	835	-82.23605246	33.37020006	1426.609453
SWD-1019	836	-82.23674169	33.37063678	815.303097
SWD-1020	837	-82.23041808	33.37502022	2567.075314
SWD-1021	838	-82.23112437	33.37192357	538.4177348
SWD-1022	839	-82.24574827	33.36897366	411.2955834
SWD-1023	840	-82.24345394	33.37021841	973.5540695
SWD-1024	841	-82.24263876	33.37099809	72.56383569
SWD-1025	842	-82.2438976	33.37023286	666.6222361
SWD-1026	843	-82.24138074	33.36667356	2346.299647
SWD-1027	844	-82.24554362	33.36859912	532.2002371
SWD-1028	845	-82.24160537	33.36988971	1079.337612
SWD-1029	846	-82.21658467	33.34158089	408.7815866
SWD-1030	847	-82.21590415	33.34160952	36.29996996
SWD-1031	848	-82.21669413	33.34062376	727.9732451
SWD-1032	849	-82.2161421	33.34328841	2205.349751
SWD-1033	850	-82.2157774	33.34405872	2146.979413
SWD-1034	851	-82.21332905	33.34545553	188.518209
SWD-1035	852	-82.210862	33.34565827	1192.416971
SWD-1036	853	-82.20791106	33.34584565	1313.688141
SWD-1037	854	-82.21132328	33.34517442	796.551897
SWD-1038	855	-82.20939496	33.3457003	71.07743631
SWD-1039	856	-82.20421511	33.34725797	1649.690046
SWD-1040	857	-82.20359641	33.34894053	582.7488596
SWD-1041	858	-82.20264142	33.34778761	770.5271613
SWD-1042	859	-82.21864424	33.34808789	1324.020833
SWD-1043	860	-82.21885209	33.34825332	53.46433555
SWD-1044	861	-82.21665962	33.3477373	1467.232016
SWD-1045	862	-82.21734962	33.34830836	226.1574509
SWD-1046	863	-82.21327326	33.3469137	617.7086821
SWD-1047	864	-82.21462128	33.34631902	888.5018661
SWD-1048	865	-82.21361839	33.34583226	60.07240037
SWD-1049	866	-82.21341914	33.3456854	57.79007416
SWD-1050	867	-82.21301613	33.34662491	588.5144421
SWD-1051	868	-82.21209086	33.34624015	497.7763621
SWD-1052	869	-82.21280148	33.34855099	504.8399094

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SWD-1053	870	-82.21553411	33.34870708	1411.524454
SWD-1054	871	-82.21342168	33.34838593	379.8275003
SWD-1055	872	-82.20747431	33.34757475	1794.448062
SWD-1056	873	-82.21022821	33.34684129	518.1769551
SWD-1057	874	-82.21156423	33.34725543	242.3665428
SWD-1058	875	-82.24813124	33.36669531	378.5865825
SWD-1059	876	-82.25094796	33.36548043	1576.422044
SWD-1060	877	-82.24967508	33.36415559	2706.430096
SWD-1061	878	-82.24835629	33.36337859	2123.480017
SWD-1062	879	-82.25165875	33.36181554	188.3030709
SWD-1063	880	-82.24672692	33.36378093	362.6555638
SWD-1064	881	-82.24742585	33.36209105	1657.31607
SWD-1065	882	-82.2474622	33.36253454	1243.08517
SWD-1066	883	-82.24381416	33.35743542	2189.512764
SWD-1067	884	-82.24220816	33.36292142	3545.721517
SWD-1068	885	-82.24747323	33.36692898	261.3462501
SWD-1069	886	-82.24253433	33.37105725	17.18113405
SWD-1070	887	-82.24346978	33.37192539	833.0784616
SWD-1072	888	-82.14647122	33.43435552	17.64354164
SWD-1074	889	-82.18356289	33.40638945	1054.309411
SWD-1075	890	-82.11131693	33.40273982	1041.255607
SWD-1076	891	-82.11028805	33.40275522	1680.594974
SWD-1077	892	-82.11076581	33.40312842	100.7193116
SWD-1078	893	-82.13416457	33.39464837	569.2253688
SWD-1079	894	-82.13589552	33.39399187	599.3701954
SWD-1080	895	-82.13787767	33.39402965	620.1276376
SWD-1083	896	-82.17789326	33.36463419	589.7680575
SWD-1084	897	-82.17771092	33.36377129	133.9287782
SWD-1085	898	-82.17775149	33.36267966	772.7606018
SWD-1086	899	-82.17636343	33.36324245	719.0944778
SWD-1087	900	-82.17672793	33.36421852	335.0688778
SWD-1088	901	-82.17644355	33.36424414	157.0570678
SWD-1089	902	-82.1740499	33.36473698	1679.531009
SWD-1090	903	-82.17317488	33.36573517	111.9013231
SWD-1091	904	-82.20388845	33.4073473	425.9869767
SWD-1092	905	-82.20329883	33.40749799	75.60986332
SWD-1093	906	-82.20386252	33.40832329	749.2037954
SWD-1094	907	-82.20334954	33.41019729	1744.624182
SWD-1095	908	-82.20310035	33.40866834	1104.647414
SWD-1096	909	-82.18600987	33.3610612	1908.015573
SWD-1097	910	-82.18759075	33.36066664	947.4950594
SWD-1104	911	-82.15874296	33.36189427	680.7390245
SWD-1108	912	-82.16477872	33.40537907	257.6951375
SWD-1109	913	-82.18375943	33.41721925	10.7525037
SWD-1110	914	-82.18844792	33.42044482	43.3748776
SWD-1111	915	-82.17890323	33.40409036	573.4418914
SWD-1112	916	-82.15262874	33.37594197	93.0689369
SWD-1113	917	-82.15258689	33.37591051	5.850314441
SWD-1114	918	-82.15054044	33.37790826	2050.060505
SWD-1115	919	-82.15414464	33.37645255	426.0352261
SWD-1116	920	-82.15348913	33.3760811	449.0310808
SWD-1117	921	-82.1551494	33.37649475	600.4535224
SWD-1118	922	-82.1560776	33.37667531	747.8655732
SWD-1119	923	-82.25315265	33.35296496	162.1919019
SWD-1120	924	-82.2527091	33.35252149	307.3780006
SWD-1121	925	-82.2518221	33.35285702	218.8131166
SWD-1122	926	-82.25113134	33.35348885	227.9901164
SWD-1123	927	-82.10260634	33.42727187	964.2485708

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SWD-1124	928	-82.10360065	33.4277253	894.3537953
SWD-1125	929	-82.1019988	33.42609915	460.8752986
SWD-1130	930	-82.23258017	33.35636082	978.9486496
SWD-1131	931	-82.1675881	33.40733859	32.28987785
SWD-1132	932	-82.17191887	33.40401232	107.3939648
SWD-1133	933	-82.17682483	33.4063807	156.6620244
SWD-1134	934	-82.17278774	33.42471657	195.7896088
SWD-1135	935	-82.23025355	33.3777645	67.30128777
SWD-1137	936	-82.18167532	33.4189628	55.45854369
SWD-1140	937	-82.12018193	33.40055495	268.5781991
SWD-1142	938	-82.176957	33.42724071	176.7303884
SWD-1143	939	-82.17880527	33.42597745	293.8409752
SWD-1144	940	-82.17682172	33.36426411	95.82849697
SWD-1145	941	-82.18186572	33.4206862	289.2955524
SWD-1146	942	-82.18176612	33.41624099	144.1739024
SWD-1147	943	-82.17622368	33.41116107	387.8449407
SWD-1148	944	-82.17642385	33.40880493	151.8180025
SWD-1149	945	-82.17299075	33.41510679	81.70744202
SWD-1150	946	-82.17316558	33.4069903	156.1846464
SWD-1151	947	-82.17291999	33.42717496	123.6247351
SWD-1153	948	-82.17801061	33.42451538	65.84519169
SWD-1154	949	-82.13313211	33.41753662	130.166372
SWD-1155	950	-82.16652512	33.42582329	1006.804465
SWD-1156	951	-82.18411389	33.4190106	23.9348841
SWD-1157	952	-82.17767224	33.4273972	180.2127101
SWD-1158	953	-82.17359514	33.4148287	363.9569895
SWD-1159	954	-82.17978131	33.42536708	111.6658955
SWD-1161	955	-82.17972031	33.42676734	48.34606476
SWD-1162	956	-82.13011348	33.40720652	183.7945637
SWD-1163	957	-82.18056896	33.43089421	417.6335913
SWD-1165	958	-82.12869846	33.40320673	1277.68199
SWD-1166	959	-82.18367898	33.42397007	116.8650777
SWD-1167	960	-82.24338502	33.36707743	147.6118937
SWD-1168	961	-82.24535604	33.36790096	154.041306
SWD-1169	962	-82.24360689	33.36707023	1374.638388
SWD-1170	963	-82.24194385	33.36800522	44.43999371
SWD-1171	964	-82.17982468	33.41277155	505.1218283
SWD-1172	965	-82.15720291	33.41430025	7.670984642
SWD-1173	966	-82.13237283	33.39580052	47.40060332
SWD-1175	967	-82.1870797	33.41409549	379.9642008
SWD-1176	968	-82.18772154	33.41412142	19.26937629
SWD-1177	969	-82.16751938	33.41629028	418.2632984
SWD-1178	970	-82.15504001	33.41043448	75.13151712
SWD-1179	971	-82.13313182	33.40809572	158.2277391
SWD-1180	972	-82.17759616	33.40653851	139.8353198
SWD-1181	973	-82.18996024	33.4137035	257.9938261
SWD-1182	974	-82.18798155	33.41668336	94.28746482
SWD-1183	975	-82.19078561	33.41352658	277.7227185
SWD-1184	976	-82.13379399	33.42509632	98.85950488
SWD-1186	977	-82.18862407	33.41107839	125.0069692
SWD-1188	978	-82.17621015	33.41181388	38.44445198
SWD-1189	979	-82.17840341	33.4136555	91.10127463
SWD-1192	980	-82.17262204	33.41973464	21.621098
SWD-1194	981	-82.18375487	33.41899931	130.2872663
SWD-1195	982	-82.15931992	33.41888116	142.8462132
SWD-1196	983	-82.15683949	33.41884578	249.8632021
SWD-1197	984	-82.14220463	33.41577991	145.294336
SWD-1198	985	-82.17747981	33.42757236	378.1677994

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SWD-1199	986	-82.17508566	33.43012448	61.37183665
SWD-1200	987	-82.17817919	33.4259719	31.34048416
SWD-1201	988	-82.17308674	33.42988439	463.2717339
SWD-1202	989	-82.17409698	33.42592444	173.6461509
SWD-1203	990	-82.14625237	33.41583336	340.6120442
SWD-1206	991	-82.15613393	33.41358	63.41971032
SWD-1207	992	-82.13667305	33.41901947	259.138902
SWD-1208	993	-82.14052401	33.41570203	40.76908298
SWD-1209	994	-82.15238484	33.41465428	41.92197739
SWD-1210	995	-82.17424984	33.41627287	188.8837506
SWD-1212	996	-82.18892645	33.41097604	139.867133
SWD-1213	997	-82.16409376	33.42909538	61.55676897
SWD-1215	998	-82.16763398	33.40789756	179.4996356
SWD-1219	999	-82.12886165	33.40548544	527.3228823
SWD-1221	1000	-82.17696913	33.43509433	156.1610822
SWD-1222	1001	-82.1851661	33.4295494	142.9294648
SWD-1225	1002	-82.17981288	33.42384524	43.80879947
SWD-1226	1003	-82.1756373	33.4232485	297.5061974
SWD-1227	1004	-82.17293816	33.40559456	14.04167344
SWD-1228	1005	-82.17802611	33.42345253	7.770074572
SWD-1229	1006	-82.18341033	33.42766094	885.4986689
SWD-1236	1007	-82.14362981	33.41468036	21.0172552
SWD-1237	1008	-82.18067375	33.42753436	121.399632
SWD-1241	1009	-82.1439396	33.41468482	20.56211777
SWD-1242	1010	-82.14394094	33.41509504	20.45524449
SWD-1244	1011	-82.15913732	33.42683352	311.9344901
SWD-1245	1012	-82.21584162	33.34163325	19.65384686
SWD-1246	1013	-82.17452969	33.42323224	83.6714478
SWD-1247	1014	-82.18174669	33.42624748	161.4178612
SWD-1248	1015	-82.18394079	33.42321837	19.27673342
SWD-1249	1016	-82.17617206	33.41354049	30.18490738
SWD-1250	1017	-82.17599418	33.41370667	139.7403999
SWD-1251	1018	-82.17721555	33.4088377	226.0023171
SWD-1252	1019	-82.17963785	33.43105947	130.7192151
SWD-1253	1020	-82.17645802	33.43132816	147.3182246
SWD-1254	1021	-82.17398259	33.43129405	224.5872558
SWD-1256	1022	-82.1715949	33.43619907	238.8561588
SWD-1258	1023	-82.1709175	33.43115234	80.58955298
SWD-1259	1024	-82.16158376	33.42916085	6.933298229
SWD-1260	1025	-82.18739116	33.41805644	120.4860719
SWD-1261	1026	-82.17810275	33.41772235	125.0064326
SWD-1262	1027	-82.18013682	33.41746666	25.15532393
SWD-1263	1028	-82.1302946	33.41272446	218.7788271
SWD-1264	1029	-82.12349331	33.4098223	690.4640675
SWD-1265	1030	-82.12279193	33.39926027	732.236467
SWD-1266	1031	-82.12674934	33.4020723	401.502136
SWD-1267	1032	-82.11410757	33.39715081	2811.910967
SWD-1268	1033	-82.16344228	33.40078018	526.78405
SWD-1269	1034	-82.16057168	33.41521642	253.7181952
SWD-1270	1035	-82.15615725	33.4178554	120.0002936
SWD-1271	1036	-82.16119945	33.42014981	373.9150961
SWD-1273	1037	-82.13122745	33.41870391	376.8851242
SWD-1275	1038	-82.11000211	33.41866483	1308.640521
SWD-1276	1039	-82.15343717	33.41108685	1072.458729
SWD-1279	1040	-82.15337551	33.40947263	73.09644563
SWD-1280	1041	-82.19048913	33.41923341	1457.777173
SWD-1281	1042	-82.18948707	33.41522648	215.1937387
SWD-1282	1043	-82.18993557	33.41664766	588.786288

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SWD-1283	1044	-82.19317856	33.41208177	385.4907101
SWD-1285	1045	-82.16758805	33.40738846	40.62094513
SWD-1286	1046	-82.14627573	33.39605981	2381.440459
SWD-1287	1047	-82.15540637	33.39836401	329.9801214
SWD-1288	1048	-82.16304082	33.39967468	533.4422746
SWD-1289	1049	-82.16337202	33.39609278	113.1260083
SWD-1290	1050	-82.11710093	33.39380619	745.1400632
SWD-1291	1051	-82.11519063	33.39608584	36.72430458
SWD-1294	1052	-82.11686368	33.40279783	551.8396219
SWD-1295	1053	-82.12087829	33.42786698	129.8936477
SWD-1296	1054	-82.13575304	33.42533056	118.6905363
SWD-1297	1055	-82.13413311	33.42203948	214.6439479
SWD-1299	1056	-82.11830165	33.43327394	27.46394351
SWD-1300	1057	-82.11869767	33.42983368	50.33812932
SWD-1301	1058	-82.13228039	33.41371271	20.5084285
SWD-1302	1059	-82.14162273	33.41483945	259.7202438
SWD-1303	1060	-82.2116847	33.34759749	110.6001147
SWD-1304	1061	-82.25131735	33.36175054	318.1870766
SWD-1305	1062	-82.24217645	33.36076041	246.9968628
SWD-1306	1063	-82.1698512	33.43447445	62.3517953
SWD-1307	1064	-82.11237129	33.40099423	680.2695372
SWD-1308	1065	-82.15691519	33.37677729	727.527714
SWD-1309	1066	-82.15039179	33.3749805	23.42704625
SWD-1310	1067	-82.2338514	33.37369971	1303.807597
SWD-1311	1068	-82.24070351	33.36881229	3546.334323
SWD-1312	1069	-82.15309984	33.37586957	243.6961637
SWD-1315	1070	-82.17913276	33.36322586	759.6235731
SWD-1316	1071	-82.2038319	33.40924659	501.566201
SWD-1317	1072	-82.15737813	33.36484865	1154.429091
SWD-1318	1073	-82.17112445	33.4204897	939.4151187
SWD-1319	1074	-82.1776174	33.40442169	225.2811083
SWD-1320	1075	-82.15508916	33.37642615	61.53269357
SWD-1321	1076	-82.2531649	33.35279398	66.78354412
SWD-1322	1077	-82.1432745	33.40111315	1900.283741
SWD-1323	1078	-82.24329243	33.36736559	403.3565441
SWD-1324	1079	-82.15719986	33.41430189	7.130125954
SWD-1325	1080	-82.16387322	33.40595305	657.8563456
SWD-1326	1081	-82.14039083	33.39440071	916.5434032
SWD-1329	1082	-82.14362131	33.41508876	19.69467797
SWD-1330	1083	-82.16403497	33.41669395	1488.236869
SWD-1331	1084	-82.13465236	33.42102905	116.3575034
SWD-1332	1085	-82.13450976	33.42000149	16.56360831
SWD-1333	1086	-82.15240987	33.42452101	87.37357678
SWD-1334	1087	-82.14024462	33.43080453	772.5817376
SWD-1335	1088	-82.32167678	33.34983285	1134.285964
SWD-1336	1089	-82.1355565	33.42128469	18.83422014
SWD-1337	1090	-82.13677832	33.42198323	105.7380536
SWD-1338	1091	-82.14748113	33.41529398	39.67475062
SWD-1339	1092	-82.14698856	33.41525949	28.88914412
SWD-1340	1093	-82.14698352	33.41538254	31.65627469
SWD-1341	1094	-82.1438173	33.41864328	206.1499697
SWD-1342	1095	-82.15349742	33.41879131	371.2933701
SWD-1343	1096	-82.36088473	33.33443792	1433.698896
SWD-1344	1097	-82.24573366	33.3740357	653.8305606
SWD-1345	1098	-82.2829266	33.35455987	4599.072621
SWD-1346	1099	-82.23923627	33.37768878	348.3665082
SWD-1347	1100	-82.23990196	33.3773317	316.0482909
SWD-1348	1101	-82.17403916	33.36616227	1433.068495

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SWD-1349	1102	-82.14880564	33.4343473	17.19225914
SWD-1350	1103	-82.14644761	33.43487066	375.2109906
SWD-1351	1104	-82.146298	33.43547907	546.9272189
SWD-1352	1105	-82.1577161	33.43095959	201.7931088
SWD-1353	1106	-82.16248952	33.42918593	508.2205994
SWD-1354	1107	-82.1414392	33.43501257	193.9856145
SWD-1356	1108	-82.24609248	33.36793297	1225.302162
SWD-1357	1109	-82.28815913	33.32943596	112.5154179
SWD-1358	1110	-82.28276626	33.32945534	322.7581025
SWD-1359	1111	-82.23464242	33.31392266	225.4608699
SWD-1360	1112	-82.23713541	33.31460788	546.477178
SWD-1361	1113	-82.25257335	33.35339749	318.4478796
SWD-1362	1114	-82.28442981	33.32993251	104.843504
SWD-1363	1115	-82.24852832	33.38833733	249.1971492
SWD-1364	1116	-82.20597522	33.34075686	2968.029937
SWD-1365	1117	-82.20915343	33.34063822	33.55818107
SWD-1366	1118	-82.21272526	33.34533022	414.1219713
SWD-1367	1119	-82.20405714	33.3475794	199.2780721
SWD-1368	1120	-82.21694565	33.34756335	1684.255026
SWD-1370	1121	-82.17006423	33.4115045	50.08615503
SWD-1371	1122	-82.17030668	33.41181932	71.44539145
SWD-1372	1123	-82.16835547	33.40748161	463.1649409
SWD-1373	1124	-82.16400511	33.40857892	819.3086948
SWD-1375	1125	-82.16903793	33.41481075	828.0113819
SWD-1376	1126	-82.16949973	33.41558471	698.3821297
SWD-1377	1127	-82.16982654	33.41527485	51.08692507
SWD-1378	1128	-82.16927267	33.41097575	105.3435462
SWD-1379	1129	-82.12739024	33.41676714	119.9614372
SWD-1380	1130	-82.1271323	33.41660709	10.94266825
SWD-1381	1131	-82.12750888	33.41620501	45.19470434
SWD-1382	1132	-82.12760571	33.41638387	46.01258187
SWD-1383	1133	-82.12776352	33.41640188	61.51189287
SWD-1384	1134	-82.13636677	33.42880656	213.8513183
SWD-1386	1135	-82.13543919	33.42976554	223.2032381
SWD-1387	1136	-82.13613311	33.42940728	290.7793419
SWD-1389	1137	-82.13320235	33.40771061	4.910299298
SWD-1390	1138	-82.13317247	33.40783348	5.417618536
SWD-1391	1139	-82.135435	33.40931999	8.464833264
SWD-1392	1140	-82.1721266	33.4174074	83.4548356
SWD-1393	1141	-82.17242363	33.41708314	19.62812123
SWD-1395	1142	-82.17230069	33.4171825	19.47497623
SWD-1396	1143	-82.1707672	33.41699945	38.24916837
SWD-1397	1144	-82.17092292	33.41712948	37.81244465
SWD-1398	1145	-82.17105247	33.41724159	36.53155164
SWD-1399	1146	-82.14776897	33.41435003	47.54767723
SWD-1400	1147	-82.13134279	33.42553334	36.46574086
SWD-1401	1148	-82.13102946	33.42556098	26.88464792
SWD-1402	1149	-82.13072134	33.42555301	27.43259578
SWD-1404	1150	-82.1317343	33.42644789	18.5870603
SWD-1409	1151	-82.13144015	33.42550415	299.4187007
SWD-1410	1152	-82.12605917	33.42805561	219.4199797
SWD-1411	1153	-82.12594102	33.42846188	75.74088268
SWD-1412	1154	-82.12586973	33.42898215	11.70376613
SWD-1413	1155	-82.16402125	33.42930208	28.98984361
SWD-1414	1156	-82.17889657	33.42329773	121.7374716
SWD-1415	1157	-82.17956701	33.42332191	102.3789086
SWD-1416	1158	-82.17690561	33.42324316	16.07334537
SWD-1417	1159	-82.16890618	33.4082487	285.2896856

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SWD-1418	1160	-82.16850041	33.40827938	157.3716925
SWD-1419	1161	-82.16894043	33.40785021	50.20660574
SWD-1420	1162	-82.16900852	33.40999872	60.67575637
SWD-1421	1163	-82.13842683	33.41499837	25.58456391
SWD-1422	1164	-82.13725542	33.41624693	73.71131419
SWD-1423	1165	-82.13742124	33.41633656	23.61866096
SWD-1424	1166	-82.13813718	33.41686389	18.45229514
SWD-1425	1167	-82.13815589	33.41730883	204.0191388
SWD-1427	1168	-82.13460901	33.41605134	43.29910258
SWD-1428	1169	-82.13166707	33.40862953	19.26215651
SWD-1429	1170	-82.12541681	33.40403319	24.84037648
SWD-1430	1171	-82.1661459	33.41669784	16.77435639
SWD-1431	1172	-82.16874494	33.4151028	43.40280033
SWD-1432	1173	-82.16667957	33.41516525	368.1764016
SWD-1433	1174	-82.1676428	33.40718708	20.25735693
SWD-1434	1175	-82.1643533	33.40472783	713.5535275
SWD-1435	1176	-82.16608793	33.40548784	269.3579826
SWD-1436	1177	-82.15277895	33.41270273	146.2850048
SWD-1437	1178	-82.11396658	33.42321464	98.17359953
SWD-1438	1179	-82.12175773	33.41799377	114.0341087
SWD-1439	1180	-82.12180394	33.41779413	139.7407115
SWD-1440	1181	-82.12209444	33.41773592	91.33455445
SWD-1441	1182	-82.12428276	33.41762724	55.70084559
SWD-1442	1183	-82.12632091	33.41944361	94.52564507
SWD-1443	1184	-82.1272434	33.42132021	10.92630853
SWD-1444	1185	-82.12446794	33.42211536	49.03213539
SWD-1445	1186	-82.12024386	33.41956586	175.3721185
SWD-1446	1187	-82.12143265	33.41797401	124.6093279
SWD-1447	1188	-82.12720117	33.40835868	43.77065796
SWD-1448	1189	-82.12742417	33.40860595	69.77573662
SWD-1449	1190	-82.12763251	33.40884206	47.80876024
SWD-1450	1191	-82.12741735	33.4085627	15.09026035
SWD-1451	1192	-82.1273473	33.40854949	14.15906161
SWD-1452	1193	-82.12718336	33.40836953	13.48242561
SWD-1453	1194	-82.12713253	33.40830868	22.50997499
SWD-1454	1195	-82.12719235	33.40831335	15.6718177
SWD-1455	1196	-82.1269433	33.40807327	73.92305197
SWD-1456	1197	-82.12697981	33.40814304	14.80075797
SWD-1457	1198	-82.12632186	33.40739072	344.905506
SWD-1458	1199	-82.12666394	33.40780188	35.54997756
SWD-1459	1200	-82.12731983	33.40171024	16.64494008
SWD-1461	1201	-82.12528364	33.40889402	15.0989959
SWD-1462	1202	-82.12817726	33.40702697	118.6115466
SWD-1463	1203	-82.12745911	33.4074749	247.3290307
SWD-1464	1204	-82.13057515	33.41295205	9.244152503
SWD-1465	1205	-82.13064848	33.41304322	22.71416051
SWD-1466	1206	-82.12936614	33.41362981	12.43770569
SWD-1468	1207	-82.1540703	33.42404778	52.05887405
SWD-1469	1208	-82.15406436	33.42428174	24.5702591
SWD-1470	1209	-82.15418682	33.42407236	16.52250725
SWD-1471	1210	-82.15418071	33.42425004	15.30908024
SWD-1472	1211	-82.1540571	33.42463593	19.26825931
SWD-1473	1212	-82.15239829	33.42501401	11.81085245
SWD-1474	1213	-82.15242895	33.4242547	44.27344491
SWD-1475	1214	-82.15242846	33.42381377	184.1510029
SWD-1476	1215	-82.1564093	33.42708181	271.9267063
SWD-1477	1216	-82.16358481	33.42265644	152.7685637
SWD-1478	1217	-82.1625183	33.4229213	24.27539508

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SWD-1479	1218	-82.16149367	33.42838834	473.2254044
SWD-1480	1219	-82.16072402	33.41759959	114.3853054
SWD-1481	1220	-82.16052856	33.41628152	14.54417137
SWD-1482	1221	-82.15806153	33.41188975	199.0841623
SWD-1483	1222	-82.1579493	33.41164648	381.3342836
SWD-1485	1223	-82.15415906	33.4190585	78.54297613
SWD-1486	1224	-82.13878748	33.41375636	48.70999942
SWD-1487	1225	-82.12652422	33.40325421	473.3239876
SWD-1488	1226	-82.17383803	33.42590295	30.09230557
SWD-1489	1227	-82.17368303	33.42571516	53.83484933
SWD-1490	1228	-82.17283827	33.42478579	45.79129437
SWD-1491	1229	-82.17344076	33.42428053	92.5250477
SWD-1492	1230	-82.17345826	33.42385811	18.22154819
SWD-1494	1231	-82.1728842	33.41883364	20.83780603
SWD-1495	1232	-82.17616539	33.41395507	50.70760742
SWD-1496	1233	-82.18372727	33.42163327	47.3089605
SWD-1497	1234	-82.18371658	33.42137784	30.27989839
SWD-1499	1235	-82.17820733	33.41518965	102.153079
SWD-1500	1236	-82.16829754	33.41457377	427.3506468
SWD-1501	1237	-82.16643448	33.40734633	15.79096757
SWD-1502	1238	-82.144801	33.41864033	13.54636455
SWD-1504	1239	-82.13992203	33.4183038	34.94914161
SWD-1505	1240	-82.13978213	33.41778371	416.6185504
SWD-1506	1241	-82.13847998	33.41857444	6.483343199
SWD-1507	1242	-82.13919451	33.41856682	11.21995583
SWD-1508	1243	-82.13934961	33.41856712	10.90356732
SWD-1513	1244	-82.13239431	33.40970941	92.15374916
SWD-1514	1245	-82.13318098	33.41022158	21.53916929
SWD-1515	1246	-82.13339829	33.41046513	19.18972554
SWD-1516	1247	-82.12823105	33.40993824	154.6182199
SWD-1517	1248	-82.13073558	33.41225928	142.5378159
SWD-1518	1249	-82.12641355	33.41368898	66.25187032
SWD-1519	1250	-82.12614916	33.41364135	86.01892101
SWD-1520	1251	-82.12592475	33.41340068	95.28696915
SWD-1521	1252	-82.12554233	33.41297043	274.84531
SWD-1522	1253	-82.12628952	33.41203696	101.5619927
SWD-1523	1254	-82.12591834	33.41226659	164.2097097
SWD-1524	1255	-82.12561959	33.41246092	49.39479248
SWD-1525	1256	-82.12529553	33.4125059	45.84104037
SWD-1526	1257	-82.12548365	33.41238557	80.90927632
SWD-1527	1258	-82.12571823	33.41223459	81.21562261
SWD-1528	1259	-82.12608202	33.41200131	182.2766594
SWD-1529	1260	-82.12645106	33.41176861	82.2962472
SWD-1530	1261	-82.1267617	33.41157158	139.4004674
SWD-1531	1262	-82.12666113	33.41352957	101.463778
SWD-1532	1263	-82.12707404	33.41326648	199.3925165
SWD-1533	1264	-82.12721988	33.41481233	110.3500893
SWD-1534	1265	-82.1268478	33.41440778	222.4634204
SWD-1535	1266	-82.12649948	33.41402182	87.04236768
SWD-1536	1267	-82.12638591	33.41388173	14.70324255
SWD-1537	1268	-82.12661477	33.41372397	100.0840447
SWD-1538	1269	-82.12689916	33.4135396	100.5160596
SWD-1539	1270	-82.12724581	33.41332062	141.8505711
SWD-1540	1271	-82.12702436	33.40812726	15.14563925
SWD-1541	1272	-82.11556231	33.39577309	8.288074415
SWD-1542	1273	-82.11557778	33.39576331	8.602287566
SWD-1543	1274	-82.12609187	33.4000413	122.369159
SWD-1544	1275	-82.1258566	33.4045408	24.18517936

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SWD-1545	1276	-82.12597486	33.40446756	65.52568464
SWD-1546	1277	-82.13479441	33.40967783	6.782230399
SWD-1547	1278	-82.13386409	33.41841702	16.78874754
SWD-1548	1279	-82.13538065	33.4207079	53.21187658
SWD-1549	1280	-82.11378327	33.42737303	34.39635726
SWD-1550	1281	-82.11069562	33.42417676	12.63578962
SWD-1551	1282	-82.11850967	33.43278608	118.9535942
SWD-1552	1283	-82.11863095	33.4327567	79.87571949
SWD-1553	1284	-82.12601189	33.42758514	37.20632422
SWD-1554	1285	-82.14379954	33.42840292	63.69183011
SWD-1555	1286	-82.12593379	33.41692125	36.72666581
SWD-1556	1287	-82.12562019	33.4140508	240.2864129
SWD-1558	1288	-82.12884464	33.42978303	24.00927131
SWD-1559	1289	-82.12898788	33.42966102	30.46818491
SWD-1560	1290	-82.13631054	33.42876436	38.95283766
SWD-1561	1291	-82.12031662	33.41985536	97.00627553
SWD-1562	1292	-82.13762422	33.41837738	107.7411701
SWD-1563	1293	-82.13944251	33.41573569	168.74063
SWD-1566	1294	-82.13275944	33.41012358	175.9545514
SWD-1567	1295	-82.12366519	33.42841811	24.60840092
SWD-1568	1296	-82.13235797	33.41613183	29.98979453
SWD-1569	1297	-82.13209913	33.41614951	30.00791152
SWD-1570	1298	-82.13297876	33.41473521	26.02384349
SWD-1571	1299	-82.12535071	33.40413367	12.48510712
SWD-1572	1300	-82.12645924	33.40928431	153.2261634
SWD-1573	1301	-82.12723121	33.40155566	16.92328348
SWD-1574	1302	-82.17817067	33.42694581	11.46769941
SWD-1575	1303	-82.17640516	33.42824036	68.86780822
SWD-1576	1304	-82.17640006	33.4289695	76.64042962
SWD-1578	1305	-82.17681301	33.41631008	41.9674289
SWD-1579	1306	-82.17636003	33.41656556	22.27394222
SWD-1580	1307	-82.17416719	33.41910033	9.255656576
SWD-1582	1308	-82.13003415	33.42832521	23.92766114
SWD-1583	1309	-82.13185487	33.42876482	153.9383624
SWD-1584	1310	-82.18080673	33.4191953	241.4031492
SWD-1585	1311	-82.18135432	33.41921069	42.76764272
SWD-1586	1312	-82.17293518	33.40680721	268.6047773
SWD-1587	1313	-82.16270346	33.40475401	155.0311963
SWD-1588	1314	-82.17308398	33.41404052	16.74888008
SWD-1589	1315	-82.16075056	33.41930609	234.9442275
SWD-1590	1316	-82.16103861	33.41685153	470.5145752
SWD-1593	1317	-82.1695718	33.41596784	58.13432428
SWD-1594	1318	-82.16939537	33.41589989	68.37044988
SWD-1595	1319	-82.1556362	33.42689942	51.7989158
SWD-1596	1320	-82.15533992	33.42690723	52.37567803
SWD-1597	1321	-82.152209	33.42561259	14.81530765
SWD-1598	1322	-82.12994568	33.41812516	13.41707204
SWD-1599	1323	-82.12943164	33.41812364	22.78573474
SWD-1600	1324	-82.15138423	33.42685146	487.6122293
SWD-1601	1325	-82.12962797	33.41555677	19.98170196
SWD-1602	1326	-82.12957469	33.41542044	19.41073317
SWD-1603	1327	-82.12813367	33.41608577	6.671010639
SWD-1604	1328	-82.12807382	33.41598467	11.92122547
SWD-1605	1329	-82.13170683	33.41522561	111.4280654
SWD-1606	1330	-82.13248224	33.40996449	66.62510179
SWD-1607	1331	-82.14461541	33.43548051	107.3864486
SWD-1608	1332	-82.14809154	33.43548869	484.3498523
SWD-1609	1333	-82.12739416	33.41984241	104.0351335

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SWD-1610	1334	-82.1576663	33.42771119	134.4377711
SWD-1611	1335	-82.11268874	33.42694739	27.37881069
SWD-1612	1336	-82.13324581	33.43010143	54.8932391
SWD-1613	1337	-82.13518647	33.40713387	183.7310238
SWD-1614	1338	-82.18178837	33.42362747	11.8562381
SWD-1615	1339	-82.18178318	33.42448259	134.4139262
SWD-1616	1340	-82.18366738	33.42460889	78.12594294
SWD-1617	1341	-82.17915793	33.40668734	31.04348976
SWD-1621	1342	-82.12949712	33.40618096	31.20700724
SWD-1622	1343	-82.13679581	33.42004382	99.1617271
SWD-1623	1344	-82.13686116	33.41991499	22.86818767
SWD-1624	1345	-82.13020494	33.41526723	9.758724785
SWD-1625	1346	-82.12754317	33.41296918	141.7395801
SWD-1626	1347	-82.12779168	33.41281659	27.2977053
SWD-1627	1348	-82.1276377	33.41307132	142.8643218
SWD-1628	1349	-82.12791273	33.41289647	51.74979789
SWD-1629	1350	-82.13169728	33.41537152	15.79214687
SWD-1630	1351	-82.13611853	33.42127505	305.3740425
SWD-1632	1352	-82.13239088	33.40986214	68.86905083
SWD-1633	1353	-82.11953238	33.39589442	562.2600441
SWD-1634	1354	-82.13496629	33.42986751	118.6009673
SWD-1635	1355	-82.13153839	33.42940752	21.38956792
SWD-1636	1356	-82.13935329	33.41656531	319.3005038
SWD-1637	1357	-82.12591568	33.42865494	24.66355513
SWD-1638	1358	-82.17277424	33.42413752	21.0054763
SWD-1639	1359	-82.17277173	33.42425019	19.49965195
SWD-1640	1360	-82.18348858	33.41749449	17.459408
SWD-1641	1361	-82.1837856	33.4190554	30.68440748
SWD-1642	1362	-82.18249588	33.41904913	35.8998596
SWD-1643	1363	-82.1542948	33.41598737	20.31182948
SWD-1644	1364	-82.14720402	33.41459874	12.8523432
SWD-1648	1365	-82.14721162	33.41420796	33.06282684
SWD-1650	1366	-82.16228929	33.41300846	144.1855808
SWD-1651	1367	-82.17086508	33.40259	275.399188
SWD-1652	1368	-82.13660924	33.42146144	132.7629397
SWD-1653	1369	-82.12750591	33.41628038	15.84799055
SWD-1657	1370	-82.13294186	33.42488982	51.81182494
SWD-1658	1371	-82.12816763	33.41976958	164.0632572
SWD-1660	1372	-82.15289207	33.41449854	134.4712418
SWD-1661	1373	-82.16075214	33.42830942	265.4522724
SWD-1662	1374	-82.17585399	33.41349656	57.14991645
SWD-1663	1375	-82.17967391	33.42599362	36.05411148
SWD-1664	1376	-82.17998737	33.42622819	23.68942733
SWD-1665	1377	-82.1817642	33.41536881	25.45508236
SWD-1667	1378	-82.1345932	33.40838242	24.71868908
SWD-1668	1379	-82.13445268	33.40822924	24.37503674
SWD-1671	1380	-82.13474582	33.40856478	18.17964223
SWD-1673	1381	-82.12365838	33.416337	402.6259795
SWD-1675	1382	-82.14157932	33.41813071	164.2216893
SWD-1676	1383	-82.12939362	33.40245388	124.2023014
SWD-1677	1384	-82.13074138	33.40375631	307.4965934
SWD-1678	1385	-82.13020536	33.40453984	418.7317703
SWD-1679	1386	-82.13664788	33.41975757	3.609632652
SWD-1680	1387	-82.15394704	33.42291725	88.51499564
SWD-1683	1388	-82.15367785	33.4042982	426.3963276
SWD-1684	1389	-82.15377997	33.40508253	56.301552
SWD-1685	1390	-82.13031928	33.42557592	44.0266681
SWD-1686	1391	-82.13232633	33.4297405	126.8985398

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SWD-1687	1392	-82.13234441	33.42885797	546.1131628
SWD-1689	1393	-82.13512349	33.42936261	46.03273153
SWD-1690	1394	-82.16361788	33.42246597	110.0278391
SWD-1691	1395	-82.1635561	33.42255066	130.7845386
SWD-1693	1396	-82.13387969	33.40720387	51.63348031
SWD-1694	1397	-82.13370989	33.40731229	21.46701037
SWD-1695	1398	-82.17597634	33.41350554	18.78821487
SWD-1697	1399	-82.16464677	33.42308996	113.2996489
SWD-1698	1400	-82.15758517	33.41421525	202.7892568
SWD-1699	1401	-82.15431672	33.4159584	13.71165906
SWD-1700	1402	-82.17276036	33.43125578	22.48399339
SWD-1701	1403	-82.16460807	33.40567557	280.0955018
SWD-1702	1404	-82.13538432	33.41974027	12.70191824
SWD-1704	1405	-82.15428417	33.42292184	22.92145797
SWD-1711	1406	-82.11843337	33.42931243	19.07040589
SWD-1712	1407	-82.13682822	33.41976299	3.381648612
SWD-1713	1408	-82.18616079	33.42927083	56.45804105
SWD-1714	1409	-82.16074647	33.41792782	33.71846392
SWD-1716	1410	-82.15520677	33.41882907	10.19975001
SWD-1717	1411	-82.1639016	33.41938098	213.9753711
SWD-1718	1412	-82.10771355	33.42485355	73.73541126
SWD-1719	1413	-82.1450646	33.41864374	13.30207442
SWD-1720	1414	-82.1490262	33.42795534	27.1677345
SWD-1721	1415	-82.13368303	33.4310293	801.8454502
SWD-1722	1416	-82.13328039	33.43083535	624.654532
SWD-1723	1417	-82.13070791	33.43055413	1161.877871
SWD-1724	1418	-82.13129836	33.42980866	398.2124106
SWD-1725	1419	-82.13555529	33.42089607	28.94273836
SWD-1726	1420	-82.13556006	33.42056706	156.6131411
SWD-1727	1421	-82.15796229	33.41667306	18.15374452
SWD-1728	1422	-82.17274164	33.4253917	20.61623174
SWD-1729	1423	-82.15761494	33.4257034	8.656969268
SWD-1730	1424	-82.13368702	33.4184917	33.65366654
SWD-1732	1425	-82.14905821	33.42768868	27.99370463
SWD-1733	1426	-82.15758442	33.42696608	13.00807285
SWD-1734	1427	-82.15398392	33.42605212	8.051803522
SWD-1735	1428	-82.16170067	33.42692646	9.528146481
SWD-1736	1429	-82.16154872	33.4269247	8.939320989
SWD-1737	1430	-82.16142898	33.42692144	9.517133376
SWD-1738	1431	-82.16195444	33.4269282	8.448474879
SWD-1739	1432	-82.1610453	33.42691555	9.962639265
SWD-1740	1433	-82.16074781	33.42691357	8.502630575
SWD-1741	1434	-82.16045603	33.42690634	7.673070868
SWD-1742	1435	-82.16015608	33.42690237	8.035625219
SWD-1743	1436	-82.15986278	33.42689642	5.967786054
SWD-1744	1437	-82.15740507	33.42685966	9.084938279
SWD-1745	1438	-82.15720396	33.42685784	7.393462997
SWD-1746	1439	-82.15698563	33.42685609	9.666297712
SWD-1747	1440	-82.15675482	33.42685344	8.217206471
SWD-1748	1441	-82.15650222	33.42685115	9.693452362
SWD-1749	1442	-82.15622633	33.42684657	7.005866273
SWD-1750	1443	-82.15570467	33.42683988	7.434075052
SWD-1751	1444	-82.15561105	33.42683802	9.720074304
SWD-1752	1445	-82.15533999	33.42683292	7.705354775
SWD-1753	1446	-82.15510493	33.42683069	8.589209132
SWD-1754	1447	-82.1347712	33.42427788	46.35390798
SWD-1756	1448	-82.18077543	33.42755676	1.592001784
SWD-1757	1449	-82.18067902	33.42603783	20.08856479

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SWD-1758	1450	-82.1809949	33.42604177	19.3066376
SWD-1759	1451	-82.18142944	33.42830276	42.16278179
SWD-1760	1452	-82.18161111	33.42407787	46.14624063
SWD-1762	1453	-82.17262347	33.43119223	22.86067781
SWD-1763	1454	-82.17271013	33.43102726	37.97352908
SWD-1764	1455	-82.18163955	33.42383526	16.16335831
SWD-1765	1456	-82.18176563	33.42381296	20.41321581
SWD-1766	1457	-82.18458746	33.42324854	7.176904953
SWD-1767	1458	-82.18443355	33.42300597	12.4537432
SWD-1768	1459	-82.18181758	33.41531528	17.62107943
SWD-1769	1460	-82.18176385	33.41524487	21.12305518
SWD-1770	1461	-82.17286635	33.41977862	22.58263781
SWD-1771	1462	-82.17607963	33.42592331	18.06514978
SWD-1772	1463	-82.17576976	33.42591311	24.41778074
SWD-1773	1464	-82.17615926	33.42607445	101.1663058
SWD-1774	1465	-82.17617815	33.4261075	15.15694592
SWD-1775	1466	-82.17631609	33.42612578	15.63287649
SWD-1776	1467	-82.1763241	33.42597289	9.783790726
SWD-1777	1468	-82.1767816	33.42739372	4.355440881
SWD-1778	1469	-82.1726996	33.42881327	84.39997254
SWD-1779	1470	-82.17246464	33.42902877	50.01711348
SWD-1780	1471	-82.17275124	33.42818606	18.76691262
SWD-1781	1472	-82.17270067	33.42828843	74.97149825
SWD-1782	1473	-82.17634346	33.42741391	28.16099341
SWD-1783	1474	-82.18369945	33.41821626	18.76750961
SWD-1784	1475	-82.17678874	33.41355029	27.19440291
SWD-1785	1476	-82.17163055	33.40395899	25.81285087
SWD-1786	1477	-82.17271823	33.43022259	20.33907652
SWD-1787	1478	-82.17831325	33.4107379	21.43854677
SWD-1788	1479	-82.16486095	33.4251474	120.7515103
SWD-1789	1480	-82.14067822	33.41476301	6.181089999
SWD-1793	1481	-82.15137474	33.43548063	18.41057229
SWD-1794	1482	-82.24151012	33.36866026	24.95458439
SWD-1795	1483	-82.24159002	33.36976921	507.736361
SWD-1796	1484	-82.1537687	33.37397494	59.71864414
SWD-1797	1485	-82.15632695	33.41598598	16.00736741
SWD-1798	1486	-82.16023621	33.41384553	8.163185427
SWD-1799	1487	-82.1598954	33.41386469	6.863304629
SWD-1800	1488	-82.15953731	33.41388343	5.941866699
SWD-1801	1489	-82.15918614	33.41391563	9.201761014
SWD-1802	1490	-82.16221321	33.41647483	48.30099006
SWD-1803	1491	-82.16460507	33.416539	456.289669
SWD-1804	1492	-82.17014635	33.41580119	39.15941708
SWD-1805	1493	-82.15868376	33.41603353	29.55550985
SWD-1807	1494	-82.1452071	33.41454364	4.800299445
SWD-1808	1495	-82.12557681	33.40423113	9.526767211
SWD-1810	1496	-82.16045564	33.4138386	9.914218008
SWD-1811	1497	-82.16050004	33.4140006	9.144545105
SWD-1812	1498	-82.16049709	33.41426467	6.587900918
SWD-1813	1499	-82.16049009	33.41454842	7.861635224
SWD-1814	1500	-82.16060277	33.41468342	13.87336772
SWD-1815	1501	-82.16036267	33.416399	5.400505441
SWD-1816	1502	-82.13402439	33.40882809	8.527946367
SWD-1819	1503	-82.17995546	33.42829931	19.66494328
SWD-1820	1504	-82.17440203	33.42324998	13.94969569
SWD-1821	1505	-82.17789658	33.42609484	50.96393196
SWD-1822	1506	-82.18175826	33.4264844	11.52494873
SWD-1823	1507	-82.12363361	33.4302193	33.31747805

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SWD-1824	1508	-82.15835895	33.42689288	9.352660504
SWD-1825	1509	-82.16298751	33.4223962	17.95711453
SWD-1826	1510	-82.14158935	33.41768704	97.65267089
SWD-1827	1511	-82.18371253	33.42355657	16.4229
SWD-1828	1512	-82.12701646	33.39338248	298.9279268
SWD-1833	1513	-82.17588477	33.413336	73.63645764
SWD-1835	1514	-82.13486279	33.42398803	6.901983897
SWD-1837	1515	-82.13802537	33.42097418	5.521658094
SWD-1838	1516	-82.13809006	33.42098107	5.692205931
SWD-1839	1517	-82.15243339	33.41463745	12.62088252
SWD-1842	1518	-82.1548914	33.39821367	10.03356179
SWD-1844	1519	-82.12017617	33.42715808	2.651715636
SWD-1845	1520	-82.15959646	33.41864156	65.28192885
SWD-1846	1521	-82.13870204	33.41198599	14.94624506
SWD-1847	1522	-82.13680549	33.42195911	20.56124802
SWD-1849	1523	-82.16539752	33.40626249	463.6858898
SWD-1850	1524	-82.16600964	33.40695095	174.590695
SWD-1851	1525	-82.17078534	33.40384053	581.6444794
SWD-1852	1526	-82.17330934	33.41467771	18.69620289
SWD-1854	1527	-82.16489883	33.4246621	19.50706243
SWD-1855	1528	-82.16488767	33.42510697	20.44094857
SWD-1856	1529	-82.16491215	33.42403203	17.32389698
SWD-1857	1530	-82.15785299	33.41623303	14.23725272
SWD-1858	1531	-82.15797203	33.416285	16.43065363
SWD-1860	1532	-82.13291469	33.41777973	14.30694883
SWD-1861	1533	-82.14076375	33.40176512	172.7560662
SWD-1862	1534	-82.14077456	33.40196693	220.1626053
SWD-1863	1535	-82.18180536	33.42602754	35.50630121
SWD-1864	1536	-82.17635615	33.42593369	13.27095636
SWD-5000	1537	-82.16682349	33.43336055	86.52166077
SWD-5001	1538	-82.16670709	33.43312914	26.19022973
SWD-5002	1539	-82.16673316	33.43269212	56.12369439
SWD-5003	1540	-82.16807649	33.43581605	293.6261217
SWD-5011	1541	-82.15370929	33.43325038	571.5416171
SWD-5004	1542	-82.15377831	33.43287647	331.5953517
SWD-5005	1543	-82.15566026	33.43169669	1098.157731
SWD-5007	1544	-82.16180397	33.42701899	233.1331843
SWD-5008	1545	-82.15913004	33.42699805	191.2767503
SWD-6000	1546	-82.15764217	33.42573781	277.4999676
SWD-6002	1547	-82.15873906	33.42574617	393.7838014
SWD-6001	1548	-82.16619144	33.43407302	98.2276743
SWD-7001	1549	-82.14708747	33.41431763	77.06752483
SWD-5010	1550	-82.16489147	33.42309554	8.801945015
SWD-7002	1551	-82.14681973	33.41442854	107.6562395
SWD-7010	1552	-82.14498947	33.41468923	11.90794501
SWD-0697	1553	-82.14278785	33.4143504	267.9317569
SWD-1152	1554	-82.13178246	33.41315936	482.9439955
SWD-7033	1555	-82.13187858	33.41350813	522.6872278
SWD-1164	1556	-82.13401019	33.41092758	54.78346007
SWD-7034	1557	-82.13388282	33.41101139	63.2198464
SWD-7035	1558	-82.13376388	33.41090275	15.77672884
SWD-5071	1559	-82.16154389	33.42354652	34.91853283
SWD-1589	1560	-82.13825952	33.41181027	7.242751868
SWD-0695	1561	-82.13832592	33.41163466	223.9804099
SWD-5020	1562	-82.1379833	33.41145378	45.34208478
SWD-5055	1563	-82.13926022	33.41227952	171.6245834
SWD-7056	1564	-82.13989305	33.41260696	289.5083217
SWD-5119	1565	-82.15784503	33.41554398	10.01544542

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SWD-5120	1566	-82.15786296	33.41510256	10.85199281
SWD-7107	1567	-82.12911982	33.41338295	66.11464015
SWD-7108	1568	-82.12890159	33.4131392	136.134393
SWD-7112	1569	-82.12614817	33.4136738	15.92734044
SWD-7113	1570	-82.1259621	33.41346478	15.08498229
SWD-7130	1571	-82.12699716	33.41139766	35.21827239
SWD-7133	1572	-82.12655114	33.41187868	77.06954578
SWD-7134	1573	-82.1267944	33.41172055	91.87114462
SWD-0154	1574	-82.12178181	33.41073573	279.9955333
SWD-5193	1575	-82.14162162	33.41659812	377.4640431
SWD-0713	1576	-82.12497936	33.40888713	492.4509668
SWD-7192	1577	-82.12772158	33.4047559	139.2915248
SWD-1220	1578	-82.12279854	33.40350182	638.9101869
SWD-7200	1579	-82.12729666	33.40162784	18.33346531
SWD-0211	1580	-82.12777803	33.40429128	470.0889827
SWD-0153	1581	-82.1267519	33.40318811	550.4070272
SWD-7214	1582	-82.11608596	33.40124484	46.39347838
SWD-7219	1583	-82.1519506	33.39743704	398.105165
SWD-7224	1584	-82.1491933	33.39634837	127.6466965
SWD-7230	1585	-82.1464019	33.38887156	97.64136321
SWD-7231	1586	-82.14641914	33.38969452	460.5571841
SWD-7236	1587	-82.12980456	33.39743347	13.3239803
SWD-7247	1588	-82.12527644	33.40061429	383.9383564
SWD-5283	1589	-82.13770358	33.42599567	12.44677343
SWD-5284	1590	-82.13537193	33.42531489	12.40307334
SWD-5285	1591	-82.13515084	33.42530612	9.713469776
SWD-5286	1592	-82.13462552	33.42529896	8.794273626
SWD-5289	1593	-82.13544572	33.42513851	11.25396812
SWD-5291	1594	-82.13567088	33.42513845	15.11191352
SWD-5292	1595	-82.13617425	33.42516742	15.66759231
SWD-5293	1596	-82.13606381	33.42518321	260.2243406
SWD-5294	1597	-82.13528718	33.42514188	8.333703362
SWD-5297	1598	-82.13501365	33.42510243	26.20204824
SWD-5300	1599	-82.13475888	33.4250906	17.64496014
SWD-5301	1600	-82.13462043	33.42515754	11.59840238
SWD-5306	1601	-82.13603472	33.42500177	274.8185986
SWD-5307	1602	-82.136347	33.42504777	8.121121181
SWD-7300	1603	-82.12738386	33.3933023	25.61667188
SWD-7301	1604	-82.16892657	33.43267288	120.2769736
SWD-0064	1605	-82.16888645	33.43224472	538.224638
SWD-5316	1606	-82.13110089	33.42378679	357.1269228
SWD-5317	1607	-82.12911292	33.42274278	817.479923
SWD-7306	1608	-82.17259447	33.43147654	117.9267312
SWD-7309	1609	-82.17988723	33.43106621	143.1427542
SWD-7315	1610	-82.1765245	33.43155085	109.8420979
SWD-7314	1611	-82.17729248	33.43155845	126.7034527
SWD-7316	1612	-82.18028207	33.42923256	234.1224213
SWD-7324	1613	-82.1763917	33.43016415	87.4776773
SWD-7325	1614	-82.17629265	33.42978084	124.8732418
SWD-7330	1615	-82.17400083	33.43012215	59.67330457
SWD-7335	1616	-82.17272825	33.42890166	18.34666583
SWD-7341	1617	-82.18623636	33.42917804	23.13148539
SWD-7350	1618	-82.17971938	33.42705606	20.15510442
SWD-7353	1619	-82.17973552	33.426553	62.00542367
SWD-7358	1620	-82.1805022	33.42604797	29.4649972
SWD-7363	1621	-82.18180718	33.42510709	38.05611396
SWD-7372	1622	-82.18433739	33.42378282	52.67772809
SWD-7382	1623	-82.18239162	33.42405374	127.5458547

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SWD-7386	1624	-82.17926411	33.42331365	22.29441674
SWD-5302	1625	-82.13718126	33.41839607	104.5848268
SWD-7390	1626	-82.17795914	33.42315446	30.52526574
SWD-7393	1627	-82.17741439	33.42314853	254.6227143
SWD-1577	1628	-82.17256677	33.42304136	17.81774361
SWD-5351	1629	-82.13445428	33.41740354	201.2827668
SWD-7403	1630	-82.17327319	33.41896132	23.50740661
SWD-7417	1631	-82.17329816	33.41675734	780.2541955
SWD-7418	1632	-82.17297292	33.41666509	17.18539942
SWD-7419	1633	-82.17296236	33.41704694	18.01317972
SWD-1394	1634	-82.17247584	33.41697841	9.146931686
SWD-7435	1635	-82.17302511	33.41551699	31.80834377
SWD-7447	1636	-82.17420206	33.4164355	7.430427751
SWD-7448	1637	-82.17371078	33.41642863	7.340803942
SWD-7449	1638	-82.17321258	33.41641616	7.191949503
SWD-0469	1639	-82.18028575	33.41513566	20.19822011
SWD-7451	1640	-82.18080809	33.41509308	318.8323296
SWD-7452	1641	-82.18076359	33.41512951	27.94187388
SWD-7453	1642	-82.18143603	33.41514131	27.21734583
SWD-7454	1643	-82.18156788	33.41511618	146.6960822
SWD-7465	1644	-82.17837025	33.41367741	24.37031878
SWD-7474	1645	-82.16029958	33.41343335	171.6090243
SWD-5414	1646	-82.12932806	33.42942844	119.214559
SWD-7477	1647	-82.156168	33.42422851	164.5440776
SWD-5441	1648	-82.11809965	33.43832577	418.7613045
SWD-7505	1649	-82.17317084	33.42331569	246.2176157
SWD-7506	1650	-82.17297872	33.42361961	12.1747969
SWD-7513	1651	-82.1741256	33.42446506	117.12345
SWD-7513	1652	-82.1741326	33.42408452	159.8920884
SWD-0421	1653	-82.19182935	33.41179995	402.212215
SWD-0639	1654	-82.19335772	33.41259486	831.3741839
SWD-7530	1655	-82.19152259	33.41397574	435.5644417
SWD-7531	1656	-82.19116963	33.4153984	552.40076
SWD-0315	1657	-82.19097913	33.41440179	702.1703747
SWD-7539	1658	-82.19034154	33.41146367	538.5302935
SWD-1218	1659	-82.18555768	33.40878207	634.5804881
SWD-7544	1660	-82.17830726	33.40793032	22.87445048
SWD-7547	1661	-82.17604416	33.41128938	406.0255813
SWD-1682	1662	-82.18975942	33.41797696	593.2428639
SWD-7582	1663	-82.19008263	33.41745582	91.49764923
SWD-7587	1664	-82.18910044	33.41265964	196.1433752
SWD-7600	1665	-82.16676826	33.41065398	159.3397463
SWD-7610	1666	-82.16764319	33.41397709	218.1359112
SWD-7617	1667	-82.16756789	33.41489432	86.31804884
SWD-7619	1668	-82.1676674	33.41489524	19.75420064
SWD-7629	1669	-82.16971908	33.41370143	19.87011453
SWD-5507	1670	-82.16330089	33.40980398	1562.671965
SWD-7630	1671	-82.12798294	33.4124946	96.95609812
SWD-7631	1672	-82.12723454	33.41167779	97.23351669
SWD-7632	1673	-82.1524542	33.42266552	39.12598291
SWD-7633	1674	-82.27504845	33.35600111	197.6199075
SWD-7634	1675	-82.27495514	33.35582255	174.2659228
SWD-7635	1676	-82.2781994	33.3585707	2512.766478
SWD-7636	1677	-82.27662789	33.35541831	580.9505336
SWD-7637	1678	-82.27514557	33.3552835	336.6274072
SWD-7638	1679	-82.274964	33.35533874	292.3797991
SWD-7639	1680	-82.13676743	33.3979651	653.5499697
SWD-7640	1681	-82.12980515	33.43098807	334.8174837

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SWD-7642	1682	-82.12990682	33.41477774	15.86615609
SWD-7643	1683	-82.13577549	33.40907139	41.07817568
SWD-7644	1684	-82.13814054	33.41794807	68.61911713
SWD-7645	1685	-82.13813542	33.41825122	52.67027726
SWD-7646	1686	-82.14093377	33.40938409	181.9349845
SWD-7647	1687	-82.14128359	33.40929107	122.8518988
SWD-7648	1688	-82.14095706	33.40868119	178.2780805
SWD-7649	1689	-82.1412331	33.40896149	170.0174215
SWD-7650	1690	-82.14161363	33.4091815	112.1568152
SWD-7651	1691	-82.12854188	33.43063667	71.50506303
SWD-7652	1692	-82.10736829	33.4219886	70.71351912
SWD-7653	1693	-82.10707477	33.42216791	95.0117534
SWD-7654	1694	-82.10671312	33.4220824	70.14434961
SWD-7655	1695	-82.10697199	33.4219114	70.09335537
SWD-7656	1696	-82.10607641	33.42224054	70.60917989
SWD-7657	1697	-82.17725581	33.4172366	136.5046949
SWD-7658	1698	-82.1822512	33.4273822	99.92762534
SWD-7659	1699	-82.18224842	33.42700563	97.92572665
SWD-7660	1700	-82.10643324	33.42227473	73.17987876
SWD-7661	1701	-82.11388198	33.42869684	53.6460267
SWD-7662	1702	-82.11390707	33.42901976	57.79696106
SWD-7663	1703	-82.1135093	33.42908749	58.75795425
SWD-7664	1704	-82.11311228	33.4291191	57.32376578
SWD-7665	1705	-82.11310304	33.42880345	45.62653804
SWD-7666	1706	-82.11348446	33.42872527	59.49768257
SWD-7667	1707	-82.11430736	33.42897151	77.83173149
SWD-7668	1708	-82.1960321	33.42068031	697.5902876
SWD-7669	1709	-82.19668227	33.4212112	290.1041873
SWD-7670	1710	-82.19618535	33.42023825	486.8927586
SWD-7671	1711	-82.1944745	33.41909552	821.1105493
SWD-7672	1712	-82.19261441	33.41697135	1137.084328
SWD-7673	1713	-82.19267032	33.4162254	279.9847447
SWD-7674	1714	-82.19285664	33.41472086	252.0060131
SWD-7675	1715	-82.19220582	33.41372265	577.1710986
SWD-7676	1716	-82.19105975	33.41244369	604.4403146
SWD-7677	1717	-82.18838606	33.41161116	1199.794779
SWD-7678	1718	-82.19311151	33.41574112	150.5783075
SWD-7679	1719	-82.1929021	33.41531861	182.3402237
SWD-7680	1720	-82.19263213	33.41478646	238.4296153
SWD-7681	1721	-82.19201476	33.41488637	343.4399693
SWD-7682	1722	-82.19171405	33.41383312	462.9987442
SWD-7683	1723	-82.19173474	33.41387891	931.8293519
SWD-7684	1724	-82.19108249	33.41309773	216.0542328
SWD-7685	1725	-82.19000336	33.41232327	684.048736
SWD-7686	1726	-82.18994685	33.41243814	675.443054
SWD-7687	1727	-82.18793701	33.41191682	625.7934366
SWD-7688	1728	-82.18774224	33.41182269	768.6481616
SWD-7689	1729	-82.18539608	33.41174488	631.1074113
SWD-7690	1730	-82.18538831	33.41184402	631.6822685
SWD-7691	1731	-82.18535677	33.41142515	610.5321405
SWD-7692	1732	-82.18333878	33.41131246	629.8711237
SWD-7693	1733	-82.18327136	33.41159437	674.8347908
SWD-7694	1734	-82.18365403	33.41175395	433.982837
SWD-7695	1735	-82.16678182	33.43497364	85.72892193
SWD-7696	1736	-82.18058023	33.41057996	1146.421535
SWD-7697	1737	-82.17858601	33.41001525	229.4442118
SWD-7698	1738	-82.18080846	33.41090914	916.8107784
SWD-7699	1739	-82.17450829	33.41058032	960.8182773

2025 Fort Gordon Ditch Inventory

SWD-7700	1740	-82.1733452	33.41006932	292.5552916
SWD-7702	1741	-82.15670207	33.41794679	230.4252498
SWD-7705	1742	-82.13184004	33.42619339	243.9633619
SWD-7706	1743	-82.13173448	33.42628534	64.63153236
SWD-7707	1744	-82.13232004	33.4260982	320.5869971
SWD-7708	1745	-82.15709686	33.42199209	260.8927299
SWD-7710	1746	-82.11791201	33.43867248	101.3432453
SWD-7711	1747	-82.11801708	33.43895436	189.7837332
SWD-7714	1748	-82.15759111	33.4211489	265.9148182
SWD-7715	1749	-82.15715924	33.42114474	264.1753659
SWD-7716	1750	-82.18388486	33.41121478	236.9860748
SWD-7717	1751	-82.15302009	33.41592093	57.44244025
SWD-7718	1752	-82.1533765	33.41619453	260.0282203
SWD-7719	1753	-82.13176886	33.42566828	50.88129607
SWD-7720	1754	-82.18042182	33.41401233	244.9812286
SWD-7721	1755	-82.13079631	33.42833414	177.8971927
SWD-7722	1756	-82.13073387	33.42826369	90.57978752
SWD-7723	1757	-82.16357245	33.41656861	15.2065501
SWD-7724	1758	-82.11231987	33.42640585	96.69897272
SWD-7725	1759	-82.11884763	33.43888088	156.1285185
Total Ditch Count:	**1759**		**Total Linear Feet:**	**552,436.8**

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Structure ID	GEOS ID	X	Y
SWP-0001	1	-82.18272758	33.42335086
SWP-0002	2	-82.18196747	33.42318912
SWP-0003	3	-82.18293204	33.42259184
SWP-0004	4	-82.18162357	33.42325474
SWP-0005	5	-82.18180666	33.42326754
SWP-0006	6	-82.18368673	33.42372033
SWP-0007	7	-82.18366539	33.41734118
SWP-0008	8	-82.18378701	33.41875129
SWP-0009	9	-82.18281957	33.41908387
SWP-0010	10	-82.18394132	33.42121108
SWP-0011	11	-82.18397194	33.42019351
SWP-0012	12	-82.14754392	33.42698852
SWP-0014	13	-82.14644404	33.41645875
SWP-0016	14	-82.14352483	33.41745557
SWP-0017	15	-82.14319367	33.41773564
SWP-0018	16	-82.14256762	33.4177265
SWP-0019	17	-82.14218864	33.41832997
SWP-0020	18	-82.14251964	33.41801853
SWP-0021	19	-82.14253583	33.41750838
SWP-0022	20	-82.12722693	33.42942364
SWP-0023	21	-82.1844636	33.42305442
SWP-0024	22	-82.18450643	33.42305228
SWP-0027	23	-82.1855218	33.41954791
SWP-0028	24	-82.18215076	33.42732433
SWP-0030	25	-82.1850897	33.41985385
SWP-0031	26	-82.18549886	33.42223494
SWP-0032	27	-82.18449467	33.423421
SWP-0033	28	-82.18500319	33.42375454
SWP-0034	29	-82.18406592	33.42320217
SWP-0035	30	-82.18402209	33.42347383
SWP-0036	31	-82.18334697	33.42335855
SWP-0037	32	-82.37312796	33.31961748
SWP-0038	33	-82.18373378	33.42020474
SWP-0039	34	-82.18404926	33.41914783
SWP-0040	35	-82.18389795	33.41914125
SWP-0041	36	-82.18388433	33.41912943
SWP-0042	37	-82.18338156	33.41923928
SWP-0043	38	-82.18338886	33.42153437
SWP-0044	39	-82.18298176	33.42055503
SWP-0045	40	-82.18278797	33.42028791
SWP-0046	41	-82.18220585	33.41977772
SWP-0047	42	-82.18206809	33.41923501
SWP-0048	43	-82.18187656	33.42017723
SWP-0049	44	-82.12729033	33.42952027
SWP-0050	45	-82.13970004	33.43115866
SWP-0051	46	-82.14389911	33.43187051
SWP-0052	47	-82.14495516	33.429321
SWP-0053	48	-82.14659033	33.43534174
SWP-0055	49	-82.12787302	33.42901693
SWP-0056	50	-82.17843609	33.43133744
SWP-0057	51	-82.18592573	33.42937894
SWP-0058	52	-82.18455506	33.42956469
SWP-0059	53	-82.18378835	33.42976544
SWP-0060	54	-82.17843116	33.43150217
SWP-0061	55	-82.17976383	33.43088274
SWP-0062	56	-82.17615088	33.43045004
SWP-0063	57	-82.17597735	33.43015213

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SWP-0064	58	-82.17319337	33.43068705
SWP-0065	59	-82.17270142	33.43110745
SWP-0066	60	-82.17286204	33.43146845
SWP-0067	61	-82.1712106	33.43133348
SWP-0068	62	-82.17006069	33.43055095
SWP-0069	63	-82.1700694	33.43049085
SWP-0070	64	-82.17116696	33.43133884
SWP-0072	65	-82.16878276	33.4313648
SWP-0073	66	-82.17268108	33.42946799
SWP-0074	67	-82.17282247	33.42934201
SWP-0075	68	-82.17978184	33.42958597
SWP-0076	69	-82.17626426	33.42930905
SWP-0077	70	-82.17512467	33.43131757
SWP-0078	71	-82.17989517	33.42938847
SWP-0079	72	-82.15754361	33.43060283
SWP-0080	73	-82.15451669	33.43222798
SWP-0081	74	-82.1530005	33.43446681
SWP-0082	75	-82.15849848	33.42912428
SWP-0083	76	-82.16406554	33.429234
SWP-0084	77	-82.16625029	33.43158223
SWP-0086	78	-82.14681739	33.4353363
SWP-0087	79	-82.14614513	33.43305225
SWP-0088	80	-82.14539854	33.43490628
SWP-0089	81	-82.14724576	33.43548936
SWP-0090	82	-82.14174942	33.43596158
SWP-0091	83	-82.14145497	33.43538528
SWP-0092	84	-82.12728922	33.43089546
SWP-0093	85	-82.12728895	33.4303339
SWP-0094	86	-82.12803968	33.43068094
SWP-0095	87	-82.13952678	33.42965182
SWP-0096	88	-82.10872706	33.43378572
SWP-0097	89	-82.12409513	33.42915257
SWP-0098	90	-82.12412941	33.42943304
SWP-0099	91	-82.12674239	33.43191694
SWP-0100	92	-82.12629203	33.43211175
SWP-0101	93	-82.1260885	33.43215992
SWP-0102	94	-82.12590878	33.43262966
SWP-0103	95	-82.12567256	33.43216029
SWP-0104	96	-82.1254549	33.43211876
SWP-0105	97	-82.12526729	33.43204434
SWP-0106	98	-82.12503919	33.43192618
SWP-0107	99	-82.12719175	33.42969097
SWP-0108	100	-82.1266344	33.42960052
SWP-0109	101	-82.1268827	33.43189437
SWP-0110	102	-82.12620527	33.43220498
SWP-0111	103	-82.12665096	33.43204829
SWP-0112	104	-82.1248832	33.43190153
SWP-0113	105	-82.12440591	33.43130189
SWP-0114	106	-82.12384912	33.42906246
SWP-0115	107	-82.12377443	33.42912788
SWP-0116	108	-82.12707641	33.42923433
SWP-0117	109	-82.11834998	33.42917604
SWP-0118	110	-82.18994112	33.41751085
SWP-0119	111	-82.18978797	33.41708528
SWP-0120	112	-82.18882612	33.42020803
SWP-0121	113	-82.18786573	33.41485344
SWP-0122	114	-82.18782676	33.41662369
SWP-0123	115	-82.18765928	33.4177524

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SWP-0124	116	-82.18981224	33.41531382
SWP-0125	117	-82.18998873	33.4157901
SWP-0126	118	-82.18908805	33.41998272
SWP-0127	119	-82.15194908	33.4188636
SWP-0128	120	-82.15249183	33.4169098
SWP-0129	121	-82.15158301	33.41776661
SWP-0130	122	-82.15134699	33.41686613
SWP-0131	123	-82.15027073	33.41637383
SWP-0132	124	-82.14906294	33.41676584
SWP-0133	125	-82.14931512	33.41717226
SWP-0134	126	-82.15023894	33.41748227
SWP-0136	127	-82.14989899	33.41872737
SWP-0137	128	-82.15031626	33.41892484
SWP-0139	129	-82.15053757	33.41850498
SWP-0140	130	-82.15009393	33.41839583
SWP-0141	131	-82.15008835	33.4186655
SWP-0142	132	-82.14939517	33.41901244
SWP-0143	133	-82.1534788	33.41571261
SWP-0144	134	-82.14748815	33.4151808
SWP-0145	135	-82.14787684	33.41515861
SWP-0146	136	-82.14782804	33.4164567
SWP-0147	137	-82.1474417	33.41611266
SWP-0148	138	-82.16490585	33.42332166
SWP-0149	139	-82.16489422	33.42371486
SWP-0150	140	-82.1587594	33.42549001
SWP-0151	141	-82.15887443	33.4254004
SWP-0153	142	-82.17202818	33.4283716
SWP-0154	143	-82.171435	33.42831658
SWP-0155	144	-82.17175176	33.42759251
SWP-0156	145	-82.17148378	33.42787496
SWP-0157	146	-82.18185546	33.42120546
SWP-0158	147	-82.18179606	33.42369369
SWP-0159	148	-82.18178617	33.42423068
SWP-0160	149	-82.18178077	33.42471667
SWP-0161	150	-82.18081719	33.42830001
SWP-0162	151	-82.1774042	33.4280685
SWP-0163	152	-82.17665176	33.4280541
SWP-0164	153	-82.1681101	33.42571528
SWP-0165	154	-82.17813721	33.42514589
SWP-0166	155	-82.17813304	33.42554543
SWP-0167	156	-82.1779904	33.42554096
SWP-0168	157	-82.17827711	33.42597336
SWP-0169	158	-82.17766742	33.42596448
SWP-0170	159	-82.17802589	33.42596963
SWP-0171	160	-82.17812894	33.42587294
SWP-0173	161	-82.1788018	33.42315534
SWP-0174	162	-82.17990376	33.42379405
SWP-0175	163	-82.17980851	33.42393895
SWP-0176	164	-82.17980418	33.42435111
SWP-0177	165	-82.17978415	33.42517717
SWP-0178	166	-82.17995867	33.42517034
SWP-0179	167	-82.1799533	33.42555966
SWP-0180	168	-82.17996799	33.42473648
SWP-0181	169	-82.17979489	33.42473318
SWP-0182	170	-82.17998423	33.42436899
SWP-0183	171	-82.17996821	33.42610394
SWP-0184	172	-82.1797271	33.42666942
SWP-0185	173	-82.17954687	33.4272801

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SWP-0186	174	-82.1798281	33.42728196
SWP-0187	175	-82.17970346	33.42735648
SWP-0188	176	-82.18025504	33.42728685
SWP-0189	177	-82.1809706	33.4275031
SWP-0190	178	-82.18146885	33.42731206
SWP-0191	179	-82.16192339	33.42563285
SWP-0192	180	-82.1611746	33.42562147
SWP-0193	181	-82.16049563	33.42561151
SWP-0194	182	-82.16216692	33.42556332
SWP-0195	183	-82.15977387	33.42550498
SWP-0196	184	-82.17835534	33.4074072
SWP-0197	185	-82.17312232	33.40885477
SWP-0199	186	-82.1731574	33.40734269
SWP-0200	187	-82.17315978	33.40723459
SWP-0201	188	-82.17807982	33.40502614
SWP-0202	189	-82.1767626	33.40575511
SWP-0203	190	-82.13442464	33.40539249
SWP-0204	191	-82.13437347	33.40593648
SWP-0205	192	-82.13485116	33.40660993
SWP-0206	193	-82.13437616	33.40689878
SWP-0207	194	-82.1338826	33.40709635
SWP-0208	195	-82.13473573	33.40655252
SWP-0209	196	-82.13508739	33.4067991
SWP-0211	197	-82.1727894	33.42845337
SWP-0212	198	-82.17627968	33.42878427
SWP-0213	199	-82.179909	33.42882387
SWP-0216	200	-82.16065641	33.4161446
SWP-0217	201	-82.1605635	33.41562302
SWP-0218	202	-82.16058349	33.41478333
SWP-0219	203	-82.1601933	33.41625103
SWP-0220	204	-82.15978124	33.41632897
SWP-0221	205	-82.15904604	33.4188809
SWP-0222	206	-82.15820793	33.41886748
SWP-0223	207	-82.15728865	33.41885379
SWP-0224	208	-82.15796451	33.41738032
SWP-0225	209	-82.16487557	33.42455263
SWP-0226	210	-82.16486471	33.42494892
SWP-0227	211	-82.16401045	33.42584997
SWP-0228	212	-82.16318123	33.42778198
SWP-0229	213	-82.16181935	33.42693756
SWP-0230	214	-82.16118287	33.42533805
SWP-0231	215	-82.17043351	33.41489309
SWP-0232	216	-82.1730016	33.41477651
SWP-0233	217	-82.17060057	33.41621893
SWP-0234	218	-82.16837472	33.41609246
SWP-0235	219	-82.16668357	33.41653641
SWP-0236	220	-82.16665025	33.41655113
SWP-0240	221	-82.17903681	33.41484499
SWP-0241	222	-82.17928926	33.41496046
SWP-0242	223	-82.17669329	33.41630699
SWP-0243	224	-82.17645615	33.41626116
SWP-0244	225	-82.17791331	33.41521965
SWP-0245	226	-82.1731778	33.41908421
SWP-0246	227	-82.17275721	33.41895346
SWP-0247	228	-82.174106	33.41909985
SWP-0248	229	-82.17813048	33.41713143
SWP-0249	230	-82.18000544	33.41500657
SWP-0250	231	-82.18006989	33.41558595

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SWP-0251	232	-82.1799894	33.41548811
SWP-0252	233	-82.18179681	33.41545583
SWP-0253	234	-82.1817823	33.41597069
SWP-0254	235	-82.18177012	33.41647306
SWP-0255	236	-82.18148662	33.41637972
SWP-0256	237	-82.18010021	33.41795951
SWP-0257	238	-82.18008304	33.41837021
SWP-0258	239	-82.18008042	33.41875633
SWP-0259	240	-82.17810365	33.41908399
SWP-0260	241	-82.17994225	33.41909262
SWP-0261	242	-82.18166377	33.41913015
SWP-0262	243	-82.18174925	33.42593078
SWP-0263	244	-82.18009934	33.42600022
SWP-0264	245	-82.17997244	33.42589873
SWP-0265	246	-82.17985421	33.42600199
SWP-0266	247	-82.17679243	33.42054869
SWP-0267	248	-82.17444517	33.42202002
SWP-0268	249	-82.17262681	33.42111693
SWP-0269	250	-82.17271303	33.42304944
SWP-0270	251	-82.17411435	33.42308008
SWP-0271	252	-82.17281132	33.42343647
SWP-0272	253	-82.17276822	33.42546209
SWP-0273	254	-82.17277782	33.42506324
SWP-0274	255	-82.17265304	33.42435351
SWP-0275	256	-82.16973442	33.4227826
SWP-0276	257	-82.17435559	33.42656025
SWP-0277	258	-82.17434184	33.42656947
SWP-0278	259	-82.17454957	33.42591991
SWP-0279	260	-82.17585075	33.42593744
SWP-0280	261	-82.17550477	33.42721183
SWP-0281	262	-82.17548852	33.42736785
SWP-0282	263	-82.1749105	33.42728741
SWP-0283	264	-82.17216053	33.42720114
SWP-0284	265	-82.1724875	33.42775639
SWP-0285	266	-82.17260073	33.42818857
SWP-0286	267	-82.17620603	33.42721987
SWP-0287	268	-82.17662305	33.4272359
SWP-0288	269	-82.17733676	33.42724642
SWP-0289	270	-82.17780344	33.42724439
SWP-0290	271	-82.17631694	33.42689204
SWP-0291	272	-82.17633124	33.42630857
SWP-0292	273	-82.17624988	33.425943
SWP-0293	274	-82.17803529	33.42321819
SWP-0294	275	-82.17817217	33.42352002
SWP-0295	276	-82.17803454	33.42351645
SWP-0296	277	-82.17816233	33.42391652
SWP-0297	278	-82.17802235	33.42391567
SWP-0298	279	-82.17801431	33.4244045
SWP-0299	280	-82.17814899	33.42466681
SWP-0300	281	-82.17800762	33.42469221
SWP-0301	282	-82.14276066	33.41676084
SWP-0302	283	-82.14324975	33.41701565
SWP-0303	284	-82.14466353	33.41664415
SWP-0304	285	-82.1459546	33.41755052
SWP-0305	286	-82.14557318	33.41797343
SWP-0306	287	-82.14493622	33.41791945
SWP-0307	288	-82.1460642	33.4183135
SWP-0308	289	-82.14623347	33.41806985

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SWP-0309	290	-82.14518625	33.41890464
SWP-0310	291	-82.1440193	33.41591875
SWP-0311	292	-82.14330706	33.4160503
SWP-0312	293	-82.14444907	33.4150776
SWP-0313	294	-82.14445342	33.41470153
SWP-0314	295	-82.14560108	33.41583256
SWP-0315	296	-82.29327016	33.29197512
SWP-0316	297	-82.29444152	33.29587999
SWP-0317	298	-82.31420123	33.28768824
SWP-0318	299	-82.31330142	33.29424909
SWP-0319	300	-82.31097704	33.29235615
SWP-0320	301	-82.32273107	33.30645021
SWP-0321	302	-82.33128228	33.30331443
SWP-0322	303	-82.33317195	33.30435566
SWP-0323	304	-82.33649027	33.30549844
SWP-0324	305	-82.3502954	33.30128521
SWP-0325	306	-82.36011792	33.30717608
SWP-0326	307	-82.37389007	33.30599626
SWP-0329	308	-82.15261717	33.41877802
SWP-0331	309	-82.24723123	33.32402591
SWP-0332	310	-82.25030677	33.32322756
SWP-0333	311	-82.25091502	33.32294654
SWP-0334	312	-82.24875325	33.32490317
SWP-0335	313	-82.24992435	33.32510688
SWP-0336	314	-82.21353656	33.33666385
SWP-0337	315	-82.2177525	33.33072673
SWP-0338	316	-82.21980196	33.330711
SWP-0339	317	-82.21695973	33.31251815
SWP-0341	318	-82.24400171	33.324479
SWP-0342	319	-82.24465284	33.32961385
SWP-0343	320	-82.24732978	33.32926905
SWP-0344	321	-82.24680829	33.32815477
SWP-0345	322	-82.24799342	33.32829027
SWP-0346	323	-82.26615178	33.33602896
SWP-0347	324	-82.26654656	33.33610942
SWP-0348	325	-82.24332285	33.3428178
SWP-0349	326	-82.25183719	33.35676681
SWP-0350	327	-82.13506523	33.40554298
SWP-0351	328	-82.13650637	33.40467942
SWP-0352	329	-82.13528625	33.4043503
SWP-0353	330	-82.13557841	33.40464512
SWP-0354	331	-82.13491906	33.40481784
SWP-0355	332	-82.13522927	33.40514075
SWP-0356	333	-82.13464973	33.4055188
SWP-0357	334	-82.1293448	33.41393308
SWP-0358	335	-82.12890747	33.41355816
SWP-0359	336	-82.24493428	33.37514605
SWP-0360	337	-82.24744742	33.37502564
SWP-0361	338	-82.25408451	33.3747804
SWP-0362	339	-82.24985279	33.38195884
SWP-0363	340	-82.24879461	33.38186332
SWP-0364	341	-82.25026751	33.38399798
SWP-0365	342	-82.24929557	33.3847408
SWP-0366	343	-82.24903183	33.38482559
SWP-0367	344	-82.23185616	33.38214323
SWP-0368	345	-82.24805058	33.3837819
SWP-0369	346	-82.26048572	33.38513798
SWP-0370	347	-82.2540909	33.38692738

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SWP-0371	348	-82.25387931	33.3926875
SWP-0372	349	-82.1522946	33.42360219
SWP-0373	350	-82.15223096	33.42295662
SWP-0374	351	-82.15153851	33.42381323
SWP-0375	352	-82.15157674	33.42424876
SWP-0376	353	-82.15221687	33.42434287
SWP-0377	354	-82.26046261	33.37556887
SWP-0378	355	-82.26087657	33.3719562
SWP-0379	356	-82.27571619	33.38228949
SWP-0382	357	-82.24599477	33.39514584
SWP-0383	358	-82.21305294	33.34578513
SWP-0384	359	-82.21349483	33.34600423
SWP-0385	360	-82.15427485	33.41534286
SWP-0386	361	-82.15283333	33.41635833
SWP-0387	362	-82.15618504	33.41666283
SWP-0388	363	-82.15615373	33.41805482
SWP-0389	364	-82.15614579	33.41845086
SWP-0390	365	-82.1556797	33.41789739
SWP-0393	366	-82.15448074	33.41837759
SWP-0394	367	-82.15456533	33.41780301
SWP-0395	368	-82.15491286	33.4162016
SWP-0396	369	-82.15436475	33.4160461
SWP-0397	370	-82.15438818	33.41604618
SWP-0398	371	-82.1543458	33.41605322
SWP-0399	372	-82.15431237	33.41673867
SWP-0400	373	-82.1543451	33.41671703
SWP-0402	374	-82.15343218	33.41777217
SWP-0403	375	-82.15336774	33.41699262
SWP-0404	376	-82.1531661	33.41669068
SWP-0405	377	-82.1572645	33.41620878
SWP-0406	378	-82.15423733	33.41753515
SWP-0407	379	-82.15580662	33.41800032
SWP-0408	380	-82.13606416	33.42533595
SWP-0409	381	-82.13547173	33.42505373
SWP-0410	382	-82.13395545	33.42520687
SWP-0411	383	-82.13816847	33.40507432
SWP-0412	384	-82.1366258	33.40606296
SWP-0413	385	-82.13723762	33.40561838
SWP-0414	386	-82.13681367	33.40631868
SWP-0415	387	-82.13724977	33.40632519
SWP-0416	388	-82.13761067	33.40612009
SWP-0417	389	-82.13781932	33.40624233
SWP-0418	390	-82.13786391	33.40643808
SWP-0419	391	-82.13778022	33.40605627
SWP-0420	392	-82.13717238	33.40690311
SWP-0421	393	-82.13688367	33.40655814
SWP-0422	394	-82.13622352	33.40649082
SWP-0423	395	-82.13620563	33.40635931
SWP-0424	396	-82.13615486	33.40630235
SWP-0425	397	-82.13611511	33.40655883
SWP-0426	398	-82.16081584	33.42447962
SWP-0428	399	-82.15902955	33.42343923
SWP-0429	400	-82.15877578	33.42429256
SWP-0430	401	-82.16059481	33.42691919
SWP-0431	402	-82.15973722	33.42629152
SWP-0432	403	-82.15957906	33.42605257
SWP-0433	404	-82.15947406	33.42707916
SWP-0434	405	-82.15957544	33.42709967

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SWP-0435	406	-82.15952784	33.42640097
SWP-0436	407	-82.15857307	33.42662074
SWP-0437	408	-82.1581708	33.42297679
SWP-0438	409	-82.15667628	33.4227978
SWP-0439	410	-82.1473991	33.41811841
SWP-0440	411	-82.14706083	33.41792665
SWP-0441	412	-82.14788896	33.41720129
SWP-0442	413	-82.14824006	33.41749003
SWP-0443	414	-82.14742631	33.41848532
SWP-0444	415	-82.1472096	33.41642353
SWP-0445	416	-82.14725636	33.41726061
SWP-0446	417	-82.14691592	33.41727642
SWP-0447	418	-82.14720034	33.41548348
SWP-0448	419	-82.14702602	33.41560794
SWP-0449	420	-82.14738372	33.41585959
SWP-0450	421	-82.14890512	33.41588256
SWP-0451	422	-82.15216999	33.41593024
SWP-0452	423	-82.16390179	33.41552924
SWP-0453	424	-82.16175308	33.42067512
SWP-0454	425	-82.16264559	33.42146793
SWP-0455	426	-82.16345967	33.42230433
SWP-0456	427	-82.16320023	33.42257881
SWP-0457	428	-82.16321927	33.42296572
SWP-0458	429	-82.15936926	33.42288604
SWP-0459	430	-82.15972072	33.42285746
SWP-0460	431	-82.15974211	33.42293427
SWP-0461	432	-82.1601729	33.42319468
SWP-0462	433	-82.16002245	33.42342103
SWP-0463	434	-82.16483108	33.42271333
SWP-0464	435	-82.1357537	33.40728784
SWP-0465	436	-82.1361563	33.40755714
SWP-0466	437	-82.13584934	33.40722884
SWP-0467	438	-82.13670717	33.40712417
SWP-0468	439	-82.13736619	33.40783846
SWP-0469	440	-82.13798162	33.40790004
SWP-0470	441	-82.13962431	33.40778953
SWP-0471	442	-82.14060274	33.40803722
SWP-0474	443	-82.13711003	33.40854157
SWP-0475	444	-82.13705682	33.408728
SWP-0476	445	-82.13696762	33.40897253
SWP-0477	446	-82.13648143	33.40905766
SWP-0478	447	-82.13623675	33.408994
SWP-0479	448	-82.13596477	33.40892505
SWP-0480	449	-82.13722376	33.40898695
SWP-0481	450	-82.13774146	33.40917972
SWP-0482	451	-82.13636904	33.40925092
SWP-0483	452	-82.13594748	33.40972594
SWP-0484	453	-82.12262946	33.4020261
SWP-0485	454	-82.12256684	33.40181073
SWP-0486	455	-82.11627144	33.40053344
SWP-0487	456	-82.11597728	33.400469
SWP-0488	457	-82.11610774	33.40081158
SWP-0490	458	-82.16570765	33.40000195
SWP-0491	459	-82.15492136	33.39811592
SWP-0492	460	-82.15715374	33.3999339
SWP-0493	461	-82.16357719	33.396467
SWP-0494	462	-82.16323322	33.39566855
SWP-0495	463	-82.16291724	33.39519661

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SWP-0496	464	-82.16210159	33.39680916
SWP-0497	465	-82.16180579	33.39587173
SWP-0498	466	-82.15784304	33.41519329
SWP-0499	467	-82.15783521	33.41558984
SWP-0500	468	-82.15648852	33.41600128
SWP-0502	469	-82.15645488	33.41493535
SWP-0503	470	-82.13984045	33.42456943
SWP-0504	471	-82.13872407	33.4246348
SWP-0505	472	-82.14009238	33.42465864
SWP-0506	473	-82.14188188	33.42452806
SWP-0507	474	-82.14112272	33.42452225
SWP-0508	475	-82.14068317	33.42466837
SWP-0509	476	-82.14163279	33.42523374
SWP-0510	477	-82.14086632	33.42522308
SWP-0511	478	-82.13872433	33.4251724
SWP-0512	479	-82.13969692	33.42492515
SWP-0513	480	-82.14033007	33.42546829
SWP-0514	481	-82.14008614	33.42608859
SWP-0515	482	-82.14072723	33.42702965
SWP-0516	483	-82.13971233	33.4268961
SWP-0517	484	-82.13942587	33.42714838
SWP-0518	485	-82.14237757	33.42578662
SWP-0519	486	-82.13446039	33.42091767
SWP-0520	487	-82.13445924	33.42007037
SWP-0521	488	-82.13549064	33.41973928
SWP-0522	489	-82.13682759	33.41983838
SWP-0523	490	-82.13664683	33.41983422
SWP-0524	491	-82.13673962	33.4197581
SWP-0525	492	-82.13665819	33.41940885
SWP-0526	493	-82.13765764	33.42129882
SWP-0527	494	-82.13671019	33.42113396
SWP-0528	495	-82.13677398	33.42216541
SWP-0529	496	-82.13677987	33.42180179
SWP-0530	497	-82.15139377	33.42472124
SWP-0531	498	-82.15129699	33.42475904
SWP-0532	499	-82.152485	33.42477639
SWP-0535	500	-82.15568033	33.42563803
SWP-0536	501	-82.15579112	33.42554363
SWP-0537	502	-82.15637311	33.42685763
SWP-0538	503	-82.15523054	33.42684068
SWP-0539	504	-82.15432748	33.42561121
SWP-0540	505	-82.15510054	33.42553325
SWP-0541	506	-82.15717274	33.4254452
SWP-0542	507	-82.15396181	33.42551648
SWP-0543	508	-82.15359048	33.4262807
SWP-0545	509	-82.15103039	33.42616602
SWP-0546	510	-82.14971662	33.42599351
SWP-0547	511	-82.15059742	33.42616662
SWP-0548	512	-82.15047089	33.42684181
SWP-0549	513	-82.15123044	33.42280422
SWP-0550	514	-82.15059114	33.42245478
SWP-0551	515	-82.15068907	33.42284901
SWP-0552	516	-82.14987194	33.42270613
SWP-0553	517	-82.14979576	33.42379486
SWP-0555	518	-82.15404478	33.42513552
SWP-0556	519	-82.15405395	33.42474108
SWP-0557	520	-82.1540718	33.42394862
SWP-0558	521	-82.15421634	33.42394913

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SWP-0559	522	-82.15407736	33.42350694
SWP-0560	523	-82.1546106	33.42434045
SWP-0561	524	-82.15447225	33.42426703
SWP-0562	525	-82.15572324	33.42427999
SWP-0563	526	-82.15584141	33.42427417
SWP-0564	527	-82.1566343	33.42422523
SWP-0565	528	-82.15606543	33.42479968
SWP-0566	529	-82.15520622	33.4247867
SWP-0567	530	-82.15444489	33.42333455
SWP-0568	531	-82.15788092	33.42386877
SWP-0569	532	-82.15728445	33.42434188
SWP-0570	533	-82.15781211	33.42462753
SWP-0571	534	-82.15654048	33.42433928
SWP-0572	535	-82.15781498	33.42545629
SWP-0573	536	-82.15662929	33.42555521
SWP-0575	537	-82.15762597	33.42578785
SWP-0576	538	-82.13405007	33.40484296
SWP-0577	539	-82.13466809	33.4051904
SWP-0579	540	-82.17521733	33.42005777
SWP-0580	541	-82.17452154	33.41998179
SWP-0581	542	-82.17379978	33.41999472
SWP-0582	543	-82.17491147	33.42061506
SWP-0583	544	-82.17457843	33.42042649
SWP-0584	545	-82.17450858	33.42031981
SWP-0585	546	-82.17464305	33.42122854
SWP-0586	547	-82.1751045	33.42076126
SWP-0587	548	-82.17429713	33.42045868
SWP-0588	549	-82.17425216	33.42023639
SWP-0589	550	-82.17405366	33.42007633
SWP-0590	551	-82.17412065	33.42019088
SWP-0591	552	-82.17462769	33.4217575
SWP-0592	553	-82.17445705	33.42162833
SWP-0593	554	-82.17416021	33.42142919
SWP-0594	555	-82.17393226	33.42119184
SWP-0595	556	-82.17393405	33.42090588
SWP-0596	557	-82.17414965	33.42068753
SWP-0597	558	-82.17420413	33.420893
SWP-0598	559	-82.17544394	33.42154922
SWP-0599	560	-82.17516885	33.42144998
SWP-0600	561	-82.17567627	33.42119612
SWP-0601	562	-82.17549832	33.42106225
SWP-0602	563	-82.17619981	33.42164522
SWP-0603	564	-82.17574764	33.42164964
SWP-0604	565	-82.17595341	33.42143481
SWP-0605	566	-82.17634692	33.42232205
SWP-0606	567	-82.17606595	33.42251099
SWP-0607	568	-82.17582296	33.42251352
SWP-0608	569	-82.17616942	33.42272646
SWP-0609	570	-82.17571955	33.42294574
SWP-0610	571	-82.17487889	33.42279571
SWP-0611	572	-82.17455236	33.42267748
SWP-0613	573	-82.1737956	33.42147525
SWP-0614	574	-82.17301907	33.42168718
SWP-0615	575	-82.17294548	33.4207819
SWP-0616	576	-82.17295984	33.42045616
SWP-0617	577	-82.17277901	33.41973514
SWP-0618	578	-82.23296982	33.37264848
SWP-0619	579	-82.23116858	33.37821182

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SWP-0620	580	-82.23017141	33.37829603
SWP-0621	581	-82.23023544	33.37788446
SWP-0622	582	-82.23027255	33.37763403
SWP-0623	583	-82.2427221	33.36791075
SWP-0624	584	-82.24269962	33.3677503
SWP-0625	585	-82.24209453	33.36809233
SWP-0626	586	-82.12039492	33.42724035
SWP-0627	587	-82.12130463	33.42641241
SWP-0628	588	-82.15685263	33.41445733
SWP-0629	589	-82.15721224	33.41432679
SWP-0630	590	-82.1512239	33.43491986
SWP-0631	591	-82.13986683	33.42267459
SWP-0632	592	-82.13897687	33.42239148
SWP-0633	593	-82.13872477	33.42223011
SWP-0634	594	-82.13841097	33.42260939
SWP-0635	595	-82.13887719	33.42318621
SWP-0636	596	-82.1386889	33.42318512
SWP-0637	597	-82.1383376	33.42317488
SWP-0638	598	-82.13823048	33.42310952
SWP-0639	599	-82.13920708	33.42344644
SWP-0640	600	-82.13887503	33.42363472
SWP-0641	601	-82.13852511	33.42361571
SWP-0642	602	-82.1381701	33.42360104
SWP-0644	603	-82.13371941	33.40521258
SWP-0645	604	-82.13555415	33.40528595
SWP-0646	605	-82.13402351	33.4056205
SWP-0647	606	-82.13777731	33.4038142
SWP-0648	607	-82.13863195	33.4038519
SWP-0649	608	-82.13854471	33.40492128
SWP-0650	609	-82.13874755	33.40461779
SWP-0651	610	-82.13564919	33.40676978
SWP-0652	611	-82.13140712	33.40463277
SWP-0653	612	-82.13161514	33.40854249
SWP-0654	613	-82.12874328	33.41332434
SWP-0657	614	-82.15592045	33.42330451
SWP-0658	615	-82.15703919	33.42380885
SWP-0659	616	-82.15475761	33.42281672
SWP-0660	617	-82.15458848	33.42311189
SWP-0661	618	-82.15494946	33.42290428
SWP-0662	619	-82.1563895	33.41883854
SWP-0663	620	-82.1541792	33.41872657
SWP-0664	621	-82.15416277	33.41872849
SWP-0665	622	-82.15368469	33.42279953
SWP-0666	623	-82.15327446	33.42283541
SWP-0667	624	-82.15414743	33.42019155
SWP-0668	625	-82.15184305	33.42213589
SWP-0669	626	-82.15240806	33.42086014
SWP-0670	627	-82.12895239	33.42719301
SWP-0671	628	-82.14562331	33.42612886
SWP-0672	629	-82.14538319	33.42585662
SWP-0673	630	-82.14571945	33.42649221
SWP-0674	631	-82.14561398	33.42566005
SWP-0675	632	-82.14656267	33.42650512
SWP-0676	633	-82.14646244	33.42653557
SWP-0677	634	-82.14675679	33.42649314
SWP-0678	635	-82.14562082	33.42690896
SWP-0679	636	-82.1460329	33.42796784
SWP-0680	637	-82.14624057	33.42776624

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SWP-0682	638	-82.14544088	33.42807663
SWP-0683	639	-82.12816941	33.4289689
SWP-0684	640	-82.12823608	33.42891256
SWP-0685	641	-82.12804142	33.42895083
SWP-0686	642	-82.12770891	33.42845822
SWP-0687	643	-82.12775661	33.42660646
SWP-0688	644	-82.12759993	33.42709858
SWP-0689	645	-82.13357623	33.42472857
SWP-0690	646	-82.13006652	33.42401782
SWP-0691	647	-82.12867458	33.42122133
SWP-0692	648	-82.12884519	33.42040022
SWP-0693	649	-82.13551849	33.42256667
SWP-0694	650	-82.13486508	33.42235919
SWP-0695	651	-82.14132556	33.42363643
SWP-0696	652	-82.14087766	33.42357565
SWP-0697	653	-82.14049369	33.42362793
SWP-0698	654	-82.13983246	33.42344455
SWP-0699	655	-82.14011673	33.42362064
SWP-0700	656	-82.1422258	33.42396676
SWP-0701	657	-82.13981414	33.42386554
SWP-0702	658	-82.13959249	33.42462754
SWP-0703	659	-82.13927111	33.41857924
SWP-0706	660	-82.1463166	33.42278551
SWP-0707	661	-82.14525844	33.42278361
SWP-0708	662	-82.14591908	33.42323792
SWP-0709	663	-82.14622739	33.42447496
SWP-0711	664	-82.14537217	33.42431753
SWP-0712	665	-82.14562785	33.42473866
SWP-0713	666	-82.14512994	33.42463697
SWP-0714	667	-82.14506817	33.42406277
SWP-0715	668	-82.14296588	33.42264358
SWP-0717	669	-82.14380356	33.42321657
SWP-0718	670	-82.14358985	33.42325178
SWP-0720	671	-82.14367584	33.42369936
SWP-0721	672	-82.16627323	33.40723866
SWP-0722	673	-82.15367697	33.4049067
SWP-0723	674	-82.15289939	33.41248431
SWP-0724	675	-82.1588444	33.41387315
SWP-0725	676	-82.15794621	33.41407152
SWP-0726	677	-82.1549032	33.41037805
SWP-0727	678	-82.16051592	33.40301597
SWP-0728	679	-82.15993644	33.40264429
SWP-0729	680	-82.1569951	33.41165842
SWP-0730	681	-82.15305256	33.41453336
SWP-0731	682	-82.15519006	33.41044264
SWP-0732	683	-82.14722086	33.4146971
SWP-0733	684	-82.12834101	33.4014192
SWP-0734	685	-82.12819548	33.40121908
SWP-0735	686	-82.12806239	33.40112577
SWP-0736	687	-82.12791731	33.40108773
SWP-0737	688	-82.12776546	33.40102106
SWP-0738	689	-82.12772611	33.40088363
SWP-0739	690	-82.14755831	33.41449539
SWP-0740	691	-82.14327444	33.4236822
SWP-0741	692	-82.14368273	33.42409724
SWP-0742	693	-82.142997	33.42468353
SWP-0743	694	-82.14297883	33.42525415
SWP-0744	695	-82.14606959	33.42614198

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SWP-0745	696	-82.14563108	33.42577342
SWP-0746	697	-82.1429773	33.42845269
SWP-0747	698	-82.12384774	33.42797157
SWP-0748	699	-82.12258006	33.42657339
SWP-0749	700	-82.12240837	33.42633694
SWP-0750	701	-82.12110337	33.42669627
SWP-0751	702	-82.12133756	33.42697792
SWP-0752	703	-82.11754115	33.42849766
SWP-0753	704	-82.11412902	33.4288854
SWP-0754	705	-82.11695807	33.42855685
SWP-0755	706	-82.10853172	33.42210217
SWP-0756	707	-82.10924902	33.42161019
SWP-0757	708	-82.109584	33.42109217
SWP-0763	709	-82.11069088	33.42409851
SWP-0764	710	-82.11590648	33.42725794
SWP-0765	711	-82.12385177	33.42851563
SWP-0767	712	-82.11521709	33.42882213
SWP-0768	713	-82.17235441	33.40417184
SWP-0769	714	-82.17302096	33.40493976
SWP-0770	715	-82.17366157	33.40586368
SWP-0772	716	-82.17317155	33.40668784
SWP-0773	717	-82.17636879	33.4059822
SWP-0774	718	-82.17160369	33.40485748
SWP-0775	719	-82.16027488	33.41338197
SWP-0776	720	-82.14725974	33.41459701
SWP-0778	721	-82.14704919	33.41448389
SWP-0779	722	-82.14702007	33.41448315
SWP-0780	723	-82.13728925	33.42251438
SWP-0782	724	-82.14258633	33.42238577
SWP-0783	725	-82.14098046	33.4226801
SWP-0784	726	-82.14008626	33.42194689
SWP-0785	727	-82.14024047	33.42213456
SWP-0786	728	-82.13954105	33.42294341
SWP-0787	729	-82.14137622	33.42326389
SWP-0788	730	-82.14173249	33.42324003
SWP-0789	731	-82.14087412	33.42323698
SWP-0790	732	-82.14227538	33.42336014
SWP-0791	733	-82.14016103	33.42320434
SWP-0792	734	-82.14174259	33.42366608
SWP-0793	735	-82.14904031	33.42277096
SWP-0794	736	-82.14917466	33.42339825
SWP-0795	737	-82.14860677	33.42423017
SWP-0796	738	-82.15028215	33.42481531
SWP-0797	739	-82.15006306	33.42481133
SWP-0798	740	-82.14909931	33.4242196
SWP-0799	741	-82.14723454	33.42265376
SWP-0800	742	-82.14844879	33.4233347
SWP-0801	743	-82.1476023	33.42374812
SWP-0802	744	-82.1475683	33.42417607
SWP-0803	745	-82.14714423	33.42351717
SWP-0804	746	-82.14766382	33.42462835
SWP-0805	747	-82.14739746	33.42476796
SWP-0806	748	-82.14834472	33.42673019
SWP-0807	749	-82.14880803	33.42664434
SWP-0808	750	-82.14798395	33.42676894
SWP-0809	751	-82.14762992	33.42576398
SWP-0810	752	-82.1478431	33.42606517
SWP-0811	753	-82.14705122	33.42580282

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SWP-0812	754	-82.14704731	33.41470996
SWP-0813	755	-82.15253836	33.41465447
SWP-0815	756	-82.14701489	33.41595105
SWP-0816	757	-82.14669147	33.41643721
SWP-0817	758	-82.14697332	33.41713046
SWP-0818	759	-82.14691451	33.41582885
SWP-0819	760	-82.14764281	33.42326436
SWP-0820	761	-82.14759756	33.42281504
SWP-0821	762	-82.14679558	33.425852
SWP-0822	763	-82.14530606	33.41583105
SWP-0823	764	-82.14488551	33.41582477
SWP-0824	765	-82.1434988	33.41580096
SWP-0825	766	-82.14285798	33.41579137
SWP-0826	767	-82.14251991	33.4186291
SWP-0827	768	-82.14312478	33.41863659
SWP-0828	769	-82.14343881	33.41863852
SWP-0829	770	-82.14420683	33.41865215
SWP-0830	771	-82.14493066	33.41866149
SWP-0831	772	-82.13469934	33.4159943
SWP-0832	773	-82.1336483	33.41716072
SWP-0833	774	-82.1298581	33.41562606
SWP-0834	775	-82.13073686	33.41749911
SWP-0835	776	-82.13020506	33.41802278
SWP-0836	777	-82.13042927	33.41768093
SWP-0837	778	-82.13146549	33.41649801
SWP-0838	779	-82.13129918	33.41713971
SWP-0839	780	-82.13164642	33.41780494
SWP-0840	781	-82.13130339	33.41769129
SWP-0841	782	-82.13282584	33.41778189
SWP-0842	783	-82.13184385	33.41840157
SWP-0843	784	-82.13182662	33.41838231
SWP-0844	785	-82.13052701	33.41902871
SWP-0845	786	-82.13051989	33.41901359
SWP-0846	787	-82.13383545	33.41837136
SWP-0847	788	-82.13812838	33.41849623
SWP-0848	789	-82.13828888	33.41857689
SWP-0849	790	-82.13404005	33.41834118
SWP-0850	791	-82.13814588	33.41772148
SWP-0851	792	-82.13031084	33.39896169
SWP-0852	793	-82.12984348	33.39890217
SWP-0853	794	-82.13071782	33.3993468
SWP-0854	795	-82.13057734	33.40019768
SWP-0855	796	-82.14224042	33.39479962
SWP-0856	797	-82.12866266	33.39809865
SWP-0857	798	-82.13492577	33.39411037
SWP-0858	799	-82.12972129	33.40095192
SWP-0859	800	-82.12917061	33.40056084
SWP-0860	801	-82.13072947	33.40094812
SWP-0861	802	-82.13296787	33.40120615
SWP-0862	803	-82.13202418	33.40113968
SWP-0863	804	-82.13043345	33.40130937
SWP-0864	805	-82.12971593	33.40140481
SWP-0865	806	-82.12888216	33.40152347
SWP-0866	807	-82.12809953	33.40163356
SWP-0867	808	-82.12751977	33.40175168
SWP-0868	809	-82.12741622	33.40181729
SWP-0869	810	-82.13836624	33.40333702
SWP-0870	811	-82.13802105	33.40322409

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SWP-0871	812	-82.13730523	33.40385098
SWP-0872	813	-82.13696262	33.40355228
SWP-0873	814	-82.13688498	33.40330562
SWP-0874	815	-82.13666308	33.40344741
SWP-0875	816	-82.13720451	33.40362524
SWP-0876	817	-82.13810268	33.40366024
SWP-0877	818	-82.1605043	33.41440268
SWP-0878	819	-82.16051065	33.41412905
SWP-0879	820	-82.16051959	33.41389459
SWP-0880	821	-82.1611132	33.41329581
SWP-0881	822	-82.16038292	33.41381435
SWP-0882	823	-82.16007039	33.41384556
SWP-0883	824	-82.15971907	33.41386577
SWP-0884	825	-82.15936444	33.41388949
SWP-0885	826	-82.16044323	33.41375677
SWP-0886	827	-82.16049686	33.41381189
SWP-0887	828	-82.15799088	33.41210823
SWP-0888	829	-82.15800305	33.41211927
SWP-0889	830	-82.15801258	33.41212236
SWP-0890	831	-82.15802277	33.41212704
SWP-0891	832	-82.10256504	33.42769931
SWP-0892	833	-82.10052947	33.42348691
SWP-0896	834	-82.19070689	33.41316345
SWP-0897	835	-82.18933478	33.41243224
SWP-0898	836	-82.18831276	33.41345596
SWP-0902	837	-82.1705418	33.40297603
SWP-0903	838	-82.17173855	33.40186595
SWP-0905	839	-82.18226596	33.40723256
SWP-0906	840	-82.17840022	33.41393025
SWP-0907	841	-82.17885749	33.413396
SWP-0908	842	-82.17616831	33.41373367
SWP-0909	843	-82.17617417	33.41342876
SWP-0910	844	-82.17617776	33.41322198
SWP-0912	845	-82.17600521	33.41342427
SWP-0913	846	-82.17826456	33.41194039
SWP-0914	847	-82.17827159	33.41044977
SWP-0915	848	-82.18129667	33.4093556
SWP-0916	849	-82.17769461	33.40884408
SWP-0917	850	-82.17620312	33.41210436
SWP-0918	851	-82.17620741	33.41191721
SWP-0919	852	-82.17621055	33.41172753
SWP-0920	853	-82.17604068	33.41191077
SWP-0921	854	-82.17634344	33.41100536
SWP-0922	855	-82.17601669	33.41146496
SWP-0923	856	-82.17623475	33.41059413
SWP-0926	857	-82.1674931	33.40733692
SWP-0927	858	-82.138498	33.42664053
SWP-0928	859	-82.1379229	33.42609324
SWP-0929	860	-82.14179966	33.42843286
SWP-0930	861	-82.13962462	33.42745048
SWP-0931	862	-82.14009474	33.4276019
SWP-0932	863	-82.14410629	33.42838197
SWP-0933	864	-82.14337535	33.42857579
SWP-0934	865	-82.14495668	33.42723246
SWP-0935	866	-82.14337416	33.42734846
SWP-0937	867	-82.14390322	33.42726584
SWP-0938	868	-82.14471463	33.42710517
SWP-0939	869	-82.14477016	33.42792004

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SWP-0940	870	-82.14618024	33.41616419
SWP-0941	871	-82.14539715	33.41696564
SWP-0943	872	-82.14686826	33.42313472
SWP-0944	873	-82.14309771	33.42330839
SWP-0945	874	-82.14652485	33.42578594
SWP-0946	875	-82.14643138	33.42694068
SWP-0947	876	-82.14494338	33.42829287
SWP-0948	877	-82.1282729	33.42874715
SWP-0949	878	-82.12787885	33.42893532
SWP-0950	879	-82.12879371	33.42819327
SWP-0951	880	-82.13973101	33.42859163
SWP-0952	881	-82.12048491	33.41235283
SWP-0953	882	-82.12013542	33.41170868
SWP-0954	883	-82.12034713	33.41262379
SWP-0955	884	-82.11614294	33.41106283
SWP-0956	885	-82.11582422	33.41048568
SWP-0957	886	-82.11756408	33.41154597
SWP-0958	887	-82.11828059	33.41334435
SWP-0959	888	-82.11669552	33.41250204
SWP-0960	889	-82.11700585	33.41207134
SWP-0961	890	-82.1194306	33.41028368
SWP-0962	891	-82.12119994	33.41103859
SWP-0964	892	-82.12559741	33.40395848
SWP-0965	893	-82.12361099	33.402976
SWP-0966	894	-82.12346157	33.40185894
SWP-0967	895	-82.12275456	33.40295028
SWP-0968	896	-82.11592107	33.40054843
SWP-0969	897	-82.11749877	33.40140426
SWP-0970	898	-82.1176782	33.40155666
SWP-0971	899	-82.11727481	33.40195159
SWP-0972	900	-82.12057511	33.4016123
SWP-0973	901	-82.12022775	33.40178011
SWP-0974	902	-82.1200393	33.40176293
SWP-0975	903	-82.11963905	33.40176952
SWP-0976	904	-82.12055968	33.39851067
SWP-0977	905	-82.12045147	33.39861927
SWP-0978	906	-82.12022348	33.39893462
SWP-0979	907	-82.11990226	33.39935438
SWP-0981	908	-82.1191591	33.39975944
SWP-0982	909	-82.12007804	33.39967792
SWP-0983	910	-82.11950286	33.39994261
SWP-0984	911	-82.12019962	33.40001669
SWP-0985	912	-82.12016877	33.40013893
SWP-0986	913	-82.12537058	33.3995254
SWP-0987	914	-82.11558079	33.40033781
SWP-0988	915	-82.1925198	33.41193436
SWP-0989	916	-82.17162402	33.40385785
SWP-0990	917	-82.15582954	33.40860153
SWP-0992	918	-82.15356725	33.40951452
SWP-0993	919	-82.15065337	33.40006158
SWP-0994	920	-82.13292097	33.41466986
SWP-0995	921	-82.1324371	33.4141301
SWP-0996	922	-82.13124613	33.41257334
SWP-0997	923	-82.11912717	33.4015642
SWP-0998	924	-82.11942973	33.40147391
SWP-0999	925	-82.11928828	33.40185631
SWP-1000	926	-82.11921188	33.40238661
SWP-1002	927	-82.12457754	33.40067733

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SWP-1003	928	-82.12455794	33.40091851
SWP-1004	929	-82.11600856	33.41240668
SWP-1005	930	-82.11575826	33.41234395
SWP-1006	931	-82.1275788	33.40458082
SWP-1007	932	-82.12330366	33.40157644
SWP-1008	933	-82.16475291	33.3999273
SWP-1009	934	-82.16396699	33.39981085
SWP-1010	935	-82.16207679	33.39953077
SWP-1012	936	-82.15598221	33.39852341
SWP-1013	937	-82.1526121	33.39753221
SWP-1014	938	-82.12805511	33.39866966
SWP-1015	939	-82.11980258	33.39706352
SWP-1016	940	-82.12008445	33.39732361
SWP-1017	941	-82.12046983	33.39797516
SWP-1018	942	-82.12036626	33.39753057
SWP-1019	943	-82.12079251	33.39838751
SWP-1020	944	-82.12268161	33.39901157
SWP-1021	945	-82.12202336	33.39789365
SWP-1022	946	-82.12144893	33.39732093
SWP-1023	947	-82.11927185	33.3974705
SWP-1024	948	-82.11921344	33.39781391
SWP-1025	949	-82.11805062	33.3979491
SWP-1026	950	-82.11784317	33.39782148
SWP-1027	951	-82.11554212	33.39756209
SWP-1028	952	-82.11489884	33.39801481
SWP-1029	953	-82.11427405	33.39806464
SWP-1030	954	-82.11506217	33.39728805
SWP-1031	955	-82.11604022	33.39689665
SWP-1032	956	-82.11672151	33.39686882
SWP-1033	957	-82.11630631	33.39618625
SWP-1034	958	-82.11562517	33.39639151
SWP-1035	959	-82.12635617	33.39998013
SWP-1036	960	-82.1257472	33.39995757
SWP-1037	961	-82.11636711	33.40011919
SWP-1038	962	-82.17470344	33.42558123
SWP-1039	963	-82.17470556	33.42540602
SWP-1040	964	-82.1761226	33.42340128
SWP-1041	965	-82.17569484	33.42537629
SWP-1042	966	-82.17309518	33.41697838
SWP-1043	967	-82.17309109	33.41714394
SWP-1044	968	-82.17308687	33.41737366
SWP-1045	969	-82.17304147	33.41758908
SWP-1046	970	-82.17297974	33.41773751
SWP-1047	971	-82.17570755	33.41855994
SWP-1048	972	-82.17545438	33.41849866
SWP-1049	973	-82.17531012	33.41824268
SWP-1051	974	-82.17594565	33.41844883
SWP-1052	975	-82.17571639	33.41832187
SWP-1053	976	-82.17581399	33.4179577
SWP-1054	977	-82.175077	33.41783174
SWP-1055	978	-82.17506551	33.41815665
SWP-1056	979	-82.17575759	33.41766722
SWP-1057	980	-82.1756961	33.41739666
SWP-1058	981	-82.17562471	33.41692555
SWP-1059	982	-82.17506119	33.41681248
SWP-1060	983	-82.17492669	33.41699392
SWP-1061	984	-82.11657047	33.39960589
SWP-1062	985	-82.11505391	33.3996276

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SWP-1063	986	-82.11517142	33.39991504
SWP-1064	987	-82.11607801	33.40043822
SWP-1065	988	-82.11518786	33.40019306
SWP-1066	989	-82.11798695	33.39869426
SWP-1067	990	-82.11790401	33.39864694
SWP-1068	991	-82.11765266	33.39876868
SWP-1069	992	-82.1195914	33.3973042
SWP-1070	993	-82.11923103	33.39760793
SWP-1071	994	-82.18161617	33.42370556
SWP-1072	995	-82.18161992	33.42357184
SWP-1073	996	-82.18176059	33.42548469
SWP-1074	997	-82.18175665	33.42566544
SWP-1075	998	-82.18156704	33.42356751
SWP-1076	999	-82.17596156	33.42062115
SWP-1077	1000	-82.17572908	33.42044263
SWP-1078	1001	-82.1765	33.42109508
SWP-1079	1002	-82.17620328	33.42081016
SWP-1080	1003	-82.17558184	33.4203277
SWP-1081	1004	-82.17255389	33.41961059
SWP-1082	1005	-82.17256065	33.41922128
SWP-1083	1006	-82.17291605	33.41894292
SWP-1084	1007	-82.17328034	33.41895909
SWP-1085	1008	-82.17454662	33.41897002
SWP-1086	1009	-82.17386177	33.41896179
SWP-1087	1010	-82.17452431	33.41859856
SWP-1088	1011	-82.17469073	33.41802232
SWP-1089	1012	-82.17461528	33.41802162
SWP-1090	1013	-82.17453954	33.41802078
SWP-1091	1014	-82.17439642	33.41808845
SWP-1092	1015	-82.17433258	33.41824855
SWP-1093	1016	-82.17542255	33.41667051
SWP-1094	1017	-82.18330428	33.41909426
SWP-1095	1018	-82.17326699	33.41497449
SWP-1096	1019	-82.17827261	33.4116962
SWP-1097	1020	-82.17766664	33.41029501
SWP-1098	1021	-82.17578211	33.40908244
SWP-1099	1022	-82.17655489	33.40908224
SWP-1100	1023	-82.17543848	33.41026556
SWP-1101	1024	-82.17706347	33.41028788
SWP-1102	1025	-82.17461874	33.41025052
SWP-1103	1026	-82.17385606	33.41010684
SWP-1104	1027	-82.17501043	33.40907429
SWP-1105	1028	-82.17436621	33.40893319
SWP-1106	1029	-82.17537898	33.408909
SWP-1107	1030	-82.17824797	33.40972712
SWP-1108	1031	-82.17858046	33.41055541
SWP-1109	1032	-82.17913518	33.41122502
SWP-1110	1033	-82.17259049	33.41579029
SWP-1111	1034	-82.16301273	33.41270835
SWP-1112	1035	-82.1887628	33.41342731
SWP-1113	1036	-82.18908354	33.41363851
SWP-1114	1037	-82.18781754	33.41840065
SWP-1115	1038	-82.20290408	33.41170625
SWP-1117	1039	-82.1743734	33.41865011
SWP-1118	1040	-82.17436708	33.41841484
SWP-1119	1041	-82.17466525	33.41709623
SWP-1120	1042	-82.17444152	33.41722333
SWP-1121	1043	-82.17400357	33.41740425

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SWP-1122	1044	-82.17414479	33.41759015
SWP-1123	1045	-82.17436133	33.41772764
SWP-1124	1046	-82.17454711	33.41763042
SWP-1125	1047	-82.13941279	33.40395439
SWP-1126	1048	-82.13911091	33.40360581
SWP-1127	1049	-82.13951494	33.40369503
SWP-1128	1050	-82.13916928	33.40384967
SWP-1129	1051	-82.13891911	33.40395372
SWP-1130	1052	-82.13841299	33.40527237
SWP-1131	1053	-82.13874508	33.40559546
SWP-1132	1054	-82.13905177	33.40569166
SWP-1133	1055	-82.13881874	33.40583376
SWP-1134	1056	-82.13873002	33.40536643
SWP-1135	1057	-82.13911302	33.40521026
SWP-1136	1058	-82.13844773	33.40552955
SWP-1137	1059	-82.12941828	33.41371584
SWP-1138	1060	-82.12933258	33.41357503
SWP-1139	1061	-82.12926482	33.4135485
SWP-1142	1062	-82.12942653	33.41343642
SWP-1143	1063	-82.12879649	33.41300803
SWP-1144	1064	-82.12857936	33.41311263
SWP-1145	1065	-82.13084779	33.41327298
SWP-1146	1066	-82.13102196	33.41366707
SWP-1147	1067	-82.13233805	33.41378072
SWP-1148	1068	-82.13401846	33.41119126
SWP-1149	1069	-82.13379426	33.41094366
SWP-1150	1070	-82.13158758	33.40883047
SWP-1151	1071	-82.13226548	33.40941567
SWP-1152	1072	-82.12956008	33.40796171
SWP-1153	1073	-82.12852803	33.40982194
SWP-1154	1074	-82.12845549	33.40978867
SWP-1155	1075	-82.13109291	33.41264897
SWP-1156	1076	-82.13347478	33.40916924
SWP-1157	1077	-82.13277724	33.40956026
SWP-1161	1078	-82.1326645	33.40986332
SWP-1164	1079	-82.13886757	33.41413484
SWP-1165	1080	-82.1386518	33.41393616
SWP-1166	1081	-82.13813938	33.41352533
SWP-1168	1082	-82.1387617	33.41392109
SWP-1169	1083	-82.13786758	33.41320893
SWP-1171	1084	-82.13793424	33.41269122
SWP-1172	1085	-82.13814815	33.41229338
SWP-1173	1086	-82.13787757	33.41228934
SWP-1174	1087	-82.13673263	33.41271234
SWP-1175	1088	-82.13702727	33.41238054
SWP-1176	1089	-82.13684842	33.41231597
SWP-1177	1090	-82.13556455	33.41103072
SWP-1178	1091	-82.13588417	33.41123842
SWP-1179	1092	-82.13608856	33.41124991
SWP-1180	1093	-82.1365207	33.41156487
SWP-1181	1094	-82.13720739	33.4124507
SWP-1182	1095	-82.13759736	33.41231122
SWP-1183	1096	-82.13803679	33.41217783
SWP-1184	1097	-82.13914351	33.41184553
SWP-1185	1098	-82.13904222	33.41144424
SWP-1186	1099	-82.13733249	33.41041375
SWP-1187	1100	-82.13009036	33.4075399
SWP-1188	1101	-82.12942994	33.40613036

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SWP-1189	1102	-82.14353306	33.41451625
SWP-1190	1103	-82.13063329	33.40042402
SWP-1191	1104	-82.13296485	33.41459277
SWP-1192	1105	-82.12174565	33.40074426
SWP-1193	1106	-82.11979208	33.39690027
SWP-1194	1107	-82.11975726	33.3969846
SWP-1195	1108	-82.13831911	33.41185035
SWP-1196	1109	-82.13950335	33.41159347
SWP-1197	1110	-82.13985469	33.41110807
SWP-1198	1111	-82.140243	33.4105114
SWP-1199	1112	-82.11765793	33.41157667
SWP-1200	1113	-82.11808387	33.41417677
SWP-1201	1114	-82.11990362	33.42248127
SWP-1202	1115	-82.11208386	33.42586389
SWP-1203	1116	-82.12767434	33.43050105
SWP-1204	1117	-82.12833435	33.43035469
SWP-1205	1118	-82.11846375	33.43880284
SWP-1206	1119	-82.11845867	33.43884611
SWP-1207	1120	-82.11845367	33.43889447
SWP-1208	1121	-82.12723725	33.43676701
SWP-1209	1122	-82.11805129	33.43040778
SWP-1210	1123	-82.11788769	33.43100083
SWP-1211	1124	-82.11791434	33.43092218
SWP-1212	1125	-82.11785991	33.43083543
SWP-1214	1126	-82.13173324	33.42388789
SWP-1215	1127	-82.13537641	33.4208175
SWP-1216	1128	-82.14248587	33.41578406
SWP-1217	1129	-82.13877388	33.41821237
SWP-1218	1130	-82.13851175	33.41825727
SWP-1219	1131	-82.11884893	33.39792505
SWP-1220	1132	-82.11835799	33.398386
SWP-1221	1133	-82.1180877	33.39866544
SWP-1222	1134	-82.12370047	33.40449304
SWP-1223	1135	-82.12346671	33.40423005
SWP-1224	1136	-82.12464672	33.40553805
SWP-1225	1137	-82.12436031	33.40521742
SWP-1226	1138	-82.12397594	33.40209581
SWP-1227	1139	-82.12362634	33.40233088
SWP-1228	1140	-82.12563735	33.40195754
SWP-1229	1141	-82.1244979	33.40928081
SWP-1231	1142	-82.13891876	33.39406048
SWP-1232	1143	-82.160285	33.39916404
SWP-1233	1144	-82.14664373	33.39595212
SWP-1234	1145	-82.14906583	33.39666841
SWP-1235	1146	-82.10964134	33.42113215
SWP-1236	1147	-82.1094057	33.42105975
SWP-1237	1148	-82.18165215	33.43061825
SWP-1238	1149	-82.18097251	33.42737566
SWP-1239	1150	-82.18052802	33.4274199
SWP-1240	1151	-82.18087392	33.42755414
SWP-1241	1152	-82.17707972	33.42746602
SWP-1242	1153	-82.17379564	33.430111
SWP-1243	1154	-82.17449447	33.43011847
SWP-1244	1155	-82.17489709	33.43012055
SWP-1245	1156	-82.17532203	33.43013133
SWP-1246	1157	-82.17815978	33.42608347
SWP-1247	1158	-82.17765426	33.42694008
SWP-1248	1159	-82.17800705	33.42694459

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SWP-1249	1160	-82.17716369	33.42693282
SWP-1250	1161	-82.17657931	33.42684637
SWP-1251	1162	-82.17375595	33.42790062
SWP-1252	1163	-82.17343489	33.42791133
SWP-1253	1164	-82.17357064	33.42792932
SWP-1254	1165	-82.17307308	33.42749808
SWP-1255	1166	-82.17284165	33.42744161
SWP-1256	1167	-82.17554092	33.4270005
SWP-1257	1168	-82.17328515	33.42589879
SWP-1258	1169	-82.17373998	33.42579782
SWP-1259	1170	-82.17285239	33.42445216
SWP-1260	1171	-82.17314439	33.42412159
SWP-1261	1172	-82.17341694	33.42414069
SWP-1262	1173	-82.17342423	33.42388837
SWP-1263	1174	-82.17339749	33.42401189
SWP-1264	1175	-82.17775583	33.42351632
SWP-1265	1176	-82.17749156	33.42380668
SWP-1266	1177	-82.17732438	33.42537894
SWP-1267	1178	-82.17747047	33.42476657
SWP-1268	1179	-82.17653078	33.4253581
SWP-1269	1180	-82.1767929	33.42426059
SWP-1270	1181	-82.17680156	33.42379567
SWP-1271	1182	-82.17646284	33.42355985
SWP-1272	1183	-82.17610395	33.42425056
SWP-1273	1184	-82.176115	33.42378541
SWP-1274	1185	-82.17541476	33.4242428
SWP-1275	1186	-82.17542577	33.42377745
SWP-1276	1187	-82.1757762	33.42354942
SWP-1277	1188	-82.17508704	33.42353912
SWP-1278	1189	-82.17473586	33.42376485
SWP-1279	1190	-82.17472591	33.42422939
SWP-1280	1191	-82.1746178	33.42468721
SWP-1281	1192	-82.175199	33.42550101
SWP-1282	1193	-82.1727619	33.41488599
SWP-1283	1194	-82.17154613	33.41522812
SWP-1284	1195	-82.17198961	33.41523018
SWP-1285	1196	-82.17240981	33.41525695
SWP-1286	1197	-82.1637732	33.41208721
SWP-1287	1198	-82.16132926	33.41132289
SWP-1288	1199	-82.17259709	33.41544025
SWP-1289	1200	-82.15743325	33.41412938
SWP-1290	1201	-82.15658639	33.41382193
SWP-1291	1202	-82.13045737	33.39704959
SWP-1292	1203	-82.18763801	33.41408312
SWP-1293	1204	-82.16672973	33.41634888
SWP-1294	1205	-82.24234752	33.37109155
SWP-1295	1206	-82.24256369	33.37114747
SWP-1296	1207	-82.14644791	33.43430477
SWP-1298	1208	-82.1344438	33.40064968
SWP-1299	1209	-82.12514753	33.39899644
SWP-1300	1210	-82.11887691	33.39617447
SWP-1301	1211	-82.18696632	33.34673091
SWP-1302	1212	-82.15929648	33.36110743
SWP-1303	1213	-82.1985498	33.3722004
SWP-1304	1214	-82.18328548	33.3611831
SWP-1305	1215	-82.17748417	33.3694965
SWP-1306	1216	-82.30225546	33.27805619
SWP-1307	1217	-82.30879685	33.27560013

2025 Fort Gordon Pipe Inventory

SWP-1308	1218	-82.30889335	33.27541434
SWP-1310	1219	-82.37004905	33.32590697
SWP-1311	1220	-82.36882218	33.32702066
SWP-1312	1221	-82.36412155	33.31621037
SWP-1313	1222	-82.36476782	33.31796018
SWP-1314	1223	-82.35594134	33.33013064
SWP-1315	1224	-82.36244558	33.33287892
SWP-1317	1225	-82.35861058	33.33638816
SWP-1318	1226	-82.34592536	33.3388676
SWP-1320	1227	-82.28887002	33.32937206
SWP-1321	1228	-82.28051488	33.3059309
SWP-1322	1229	-82.27992724	33.30788756
SWP-1323	1230	-82.2649216	33.30644222
SWP-1324	1231	-82.26788758	33.3082662
SWP-1325	1232	-82.26983107	33.30908506
SWP-1326	1233	-82.26870994	33.31012155
SWP-1327	1234	-82.27562286	33.3178134
SWP-1328	1235	-82.29436099	33.36474489
SWP-1329	1236	-82.29560189	33.36277682
SWP-1330	1237	-82.29918834	33.37328674
SWP-1331	1238	-82.3010799	33.3631869
SWP-1332	1239	-82.24848727	33.30061353
SWP-1333	1240	-82.24963873	33.30120433
SWP-1334	1241	-82.25337922	33.29972159
SWP-1335	1242	-82.25543465	33.32466028
SWP-1336	1243	-82.2077246	33.33203113
SWP-1337	1244	-82.21390251	33.33278349
SWP-1338	1245	-82.2168998	33.32161401
SWP-1339	1246	-82.21913195	33.3235986
SWP-1340	1247	-82.22050437	33.32451681
SWP-1341	1248	-82.2272113	33.32649861
SWP-1342	1249	-82.23216484	33.32505399
SWP-1343	1250	-82.23103683	33.31759606
SWP-1344	1251	-82.2278814	33.31618209
SWP-1345	1252	-82.22560002	33.31470615
SWP-1346	1253	-82.21378873	33.31412092
SWP-1347	1254	-82.23560244	33.31750606
SWP-1348	1255	-82.24037722	33.3157452
SWP-1349	1256	-82.24152251	33.31548155
SWP-1351	1257	-82.2172921	33.30760314
SWP-1352	1258	-82.21747876	33.30866308
SWP-1353	1259	-82.2192349	33.30931799
SWP-1354	1260	-82.2207066	33.30998965
SWP-1355	1261	-82.27672678	33.31620615
SWP-1356	1262	-82.27776886	33.31417032
SWP-1357	1263	-82.27582755	33.34036044
SWP-1358	1264	-82.27629697	33.33990377
SWP-1359	1265	-82.27574161	33.34149864
SWP-1360	1266	-82.27693804	33.34349223
SWP-1361	1267	-82.30881999	33.34455249
SWP-1362	1268	-82.30933681	33.34377075
SWP-1363	1269	-82.31708282	33.33875959
SWP-1364	1270	-82.31281041	33.35158424
SWP-1365	1271	-82.32163207	33.35287498
SWP-1366	1272	-82.3227184	33.35239683
SWP-1367	1273	-82.32690289	33.34732437
SWP-1368	1274	-82.32329677	33.34539635
SWP-1369	1275	-82.32284444	33.3472174

2025 Fort Gordon Pipe Inventory

SWP-1370	1276	-82.31416012	33.35135287
SWP-1371	1277	-82.30897487	33.34942206
SWP-1372	1278	-82.28547414	33.37061479
SWP-1373	1279	-82.28210176	33.36877188
SWP-1374	1280	-82.28151457	33.36715683
SWP-1375	1281	-82.28148634	33.36510971
SWP-1376	1282	-82.28116074	33.36425298
SWP-1377	1283	-82.2907254	33.35544242
SWP-1378	1284	-82.28434337	33.36191709
SWP-1379	1285	-82.28358301	33.36109337
SWP-1380	1286	-82.32073102	33.36202164
SWP-1381	1287	-82.30822222	33.36163129
SWP-1382	1288	-82.1801104	33.41365222
SWP-1383	1289	-82.14805068	33.38079429
SWP-1384	1290	-82.14083072	33.38059319
SWP-1385	1291	-82.14079868	33.38211476
SWP-1386	1292	-82.14082797	33.38305112
SWP-1387	1293	-82.14136565	33.38773647
SWP-1388	1294	-82.13981209	33.3863419
SWP-1389	1295	-82.13907602	33.38660642
SWP-1390	1296	-82.1863932	33.39532713
SWP-1391	1297	-82.15277737	33.38379599
SWP-1392	1298	-82.15381635	33.37690682
SWP-1393	1299	-82.1603457	33.37801628
SWP-1394	1300	-82.16741654	33.38063101
SWP-1395	1301	-82.16632139	33.38106309
SWP-1396	1302	-82.1382717	33.38448899
SWP-1397	1303	-82.13546001	33.39821767
SWP-1398	1304	-82.16330889	33.39589377
SWP-1399	1305	-82.15340643	33.40961204
SWP-1400	1306	-82.12380254	33.39850437
SWP-1401	1307	-82.12345248	33.39999547
SWP-1402	1308	-82.12350123	33.39975198
SWP-1403	1309	-82.12354942	33.39945338
SWP-1404	1310	-82.12359411	33.39861587
SWP-1405	1311	-82.12795692	33.40716578
SWP-1407	1312	-82.124938	33.43045358
SWP-1408	1313	-82.12714228	33.43057588
SWP-1409	1314	-82.13549387	33.42375607
SWP-1410	1315	-82.13624403	33.42268215
SWP-1411	1316	-82.13744201	33.42266843
SWP-1412	1317	-82.15439976	33.41615165
SWP-1413	1318	-82.23929246	33.35867046
SWP-1414	1319	-82.1499825	33.37505288
SWP-1415	1320	-82.15028104	33.3748807
SWP-1416	1321	-82.12103791	33.42728792
SWP-1417	1322	-82.18338179	33.41925408
SWP-1418	1323	-82.18359381	33.41909991
SWP-1419	1324	-82.18161096	33.42397324
SWP-1420	1325	-82.17799541	33.42513995
SWP-1421	1326	-82.17998341	33.42389036
SWP-1422	1327	-82.17977717	33.42555809
SWP-1423	1328	-82.15155625	33.41890319
SWP-1426	1329	-82.12993684	33.41485125
SWP-1427	1330	-82.13247606	33.41499725
SWP-1428	1331	-82.13062595	33.4155512
SWP-1429	1332	-82.13072318	33.41574463
SWP-1430	1333	-82.12735833	33.41497149

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SWP-1431	1334	-82.13347458	33.42157874
SWP-1432	1335	-82.13706453	33.42265857
SWP-1433	1336	-82.10792366	33.41969984
SWP-1434	1337	-82.10780297	33.421878
SWP-1435	1338	-82.10930686	33.42069893
SWP-1436	1339	-82.11891234	33.42781244
SWP-1437	1340	-82.10709297	33.4198225
SWP-1438	1341	-82.10692709	33.4198015
SWP-1439	1342	-82.10643595	33.41991934
SWP-1440	1343	-82.17627799	33.40865773
SWP-1441	1344	-82.13472109	33.40639339
SWP-1442	1345	-82.1620804	33.41829429
SWP-1443	1346	-82.15750457	33.41885669
SWP-1444	1347	-82.16424795	33.42578449
SWP-1445	1348	-82.16860179	33.41621286
SWP-1446	1349	-82.17213221	33.4198235
SWP-1447	1350	-82.18200779	33.41473461
SWP-1448	1351	-82.18013006	33.41755753
SWP-1449	1352	-82.18138159	33.4260207
SWP-1450	1353	-82.17194143	33.42352058
SWP-1451	1354	-82.1731233	33.42475965
SWP-1452	1355	-82.17441684	33.4271985
SWP-1453	1356	-82.13864357	33.40847318
SWP-1454	1357	-82.12146083	33.41318067
SWP-1455	1358	-82.1689842	33.43315743
SWP-1456	1359	-82.18391375	33.41823967
SWP-1457	1360	-82.14709119	33.427918
SWP-1460	1361	-82.18607685	33.42938308
SWP-1461	1362	-82.17268022	33.43041117
SWP-1462	1363	-82.16659009	33.43275537
SWP-1463	1364	-82.17438986	33.43130289
SWP-1464	1365	-82.16157843	33.42915371
SWP-1465	1366	-82.14238366	33.43548413
SWP-1466	1367	-82.12756487	33.43108237
SWP-1467	1368	-82.1265238	33.43204016
SWP-1468	1369	-82.12633373	33.42946084
SWP-1469	1370	-82.12382844	33.4306023
SWP-1470	1371	-82.18972153	33.41885474
SWP-1471	1372	-82.18809611	33.42034441
SWP-1472	1373	-82.18348177	33.42304461
SWP-1473	1374	-82.25210296	33.35311698
SWP-1474	1375	-82.25104311	33.35298178
SWP-1475	1376	-82.15841629	33.36336816
SWP-1476	1377	-82.15932584	33.42716202
SWP-1477	1378	-82.15265343	33.37584066
SWP-1478	1379	-82.15551388	33.37448616
SWP-1479	1380	-82.12663479	33.43089661
SWP-1480	1381	-82.12632465	33.43086601
SWP-1481	1382	-82.12587692	33.43094398
SWP-1482	1383	-82.12523205	33.4307021
SWP-1483	1384	-82.12684208	33.43033984
SWP-1485	1385	-82.13827424	33.41788614
SWP-1486	1386	-82.13870469	33.41749674
SWP-1487	1387	-82.13894084	33.4177267
SWP-1488	1388	-82.14721122	33.41514509
SWP-1489	1389	-82.14803262	33.41586747
SWP-1490	1390	-82.14810863	33.41522554
SWP-1491	1391	-82.14893421	33.41459905

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SWP-1492	1392	-82.1452577	33.41866808
SWP-1493	1393	-82.13903519	33.41742338
SWP-1494	1394	-82.13944876	33.41843211
SWP-1495	1395	-82.15616084	33.41765649
SWP-1496	1396	-82.15798204	33.41673562
SWP-1497	1397	-82.16071883	33.41782335
SWP-1499	1398	-82.13394597	33.4188881
SWP-1500	1399	-82.13425902	33.41888605
SWP-1501	1400	-82.13408655	33.41928657
SWP-1502	1401	-82.13421756	33.4193816
SWP-1503	1402	-82.13447766	33.41958936
SWP-1504	1403	-82.1337229	33.41886549
SWP-1505	1404	-82.13381407	33.41897283
SWP-1506	1405	-82.13386416	33.41921199
SWP-1507	1406	-82.13507089	33.41939092
SWP-1508	1407	-82.13338513	33.41841745
SWP-1509	1408	-82.13353411	33.41861558
SWP-1512	1409	-82.15590864	33.42564169
SWP-1513	1410	-82.15612915	33.42564532
SWP-1514	1411	-82.15765087	33.42609065
SWP-1515	1412	-82.157929	33.42610216
SWP-1516	1413	-82.15917634	33.42617597
SWP-1517	1414	-82.15946694	33.42584586
SWP-1520	1415	-82.14883902	33.43431632
SWP-1521	1416	-82.14218055	33.4342925
SWP-1522	1417	-82.14225384	33.43635273
SWP-1523	1418	-82.16647923	33.43249001
SWP-1524	1419	-82.1663284	33.43216505
SWP-1525	1420	-82.20923697	33.39453919
SWP-1526	1421	-82.20979958	33.38883512
SWP-1528	1422	-82.14910315	33.35976159
SWP-1529	1423	-82.17799395	33.33956364
SWP-1530	1424	-82.18309394	33.33662409
SWP-1531	1425	-82.19080211	33.34188461
SWP-1532	1426	-82.19500829	33.34099699
SWP-1533	1427	-82.18107836	33.3425954
SWP-1534	1428	-82.26113034	33.37808557
SWP-1535	1429	-82.26092469	33.37733599
SWP-1536	1430	-82.27328594	33.37475412
SWP-1537	1431	-82.26921693	33.38945512
SWP-1538	1432	-82.26906528	33.37999751
SWP-1539	1433	-82.24351428	33.37608614
SWP-1540	1434	-82.25400661	33.38940472
SWP-1541	1435	-82.24154468	33.39773888
SWP-1542	1436	-82.24362078	33.39459684
SWP-1543	1437	-82.23462239	33.39595782
SWP-1544	1438	-82.2318869	33.39980294
SWP-1545	1439	-82.22524391	33.39495722
SWP-1546	1440	-82.22770698	33.39739024
SWP-1547	1441	-82.23180007	33.39678329
SWP-1548	1442	-82.23576268	33.39372889
SWP-1549	1443	-82.24196191	33.38974842
SWP-1550	1444	-82.24394249	33.38857737
SWP-1551	1445	-82.24829973	33.38715454
SWP-1552	1446	-82.2464325	33.37424432
SWP-1553	1447	-82.24034121	33.37751649
SWP-1554	1448	-82.24767173	33.38240796
SWP-1555	1449	-82.21636284	33.33844321

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SWP-1556	1450	-82.2157954	33.341632
SWP-1557	1451	-82.34351664	33.33743521
SWP-1558	1452	-82.34250353	33.33721359
SWP-1559	1453	-82.2515126	33.37479657
SWP-1560	1454	-82.24920966	33.38771174
SWP-1561	1455	-82.12760494	33.40653448
SWP-1562	1456	-82.14345652	33.41435923
SWP-1563	1457	-82.09928106	33.42573368
SWP-1564	1458	-82.11895086	33.42805235
SWP-1565	1459	-82.157901	33.42309889
SWP-1566	1460	-82.15076645	33.42539419
SWP-1567	1461	-82.14987792	33.42330382
SWP-1568	1462	-82.15406331	33.42436591
SWP-1569	1463	-82.15580292	33.42511932
SWP-1570	1464	-82.15498079	33.42487398
SWP-1571	1465	-82.13562496	33.40944688
SWP-1572	1466	-82.17445916	33.42109066
SWP-1573	1467	-82.17471581	33.42176006
SWP-1574	1468	-82.17547508	33.42174126
SWP-1575	1469	-82.17617517	33.42148437
SWP-1576	1470	-82.17516666	33.42292712
SWP-1577	1471	-82.17300873	33.41975847
SWP-1578	1472	-82.24162002	33.36858442
SWP-1579	1473	-82.1391878	33.42256949
SWP-1580	1474	-82.13816013	33.42423895
SWP-1581	1475	-82.13881242	33.40469698
SWP-1582	1476	-82.15723215	33.422822
SWP-1583	1477	-82.14560639	33.4265216
SWP-1584	1478	-82.14672102	33.427974
SWP-1585	1479	-82.1292354	33.42685026
SWP-1586	1480	-82.13542796	33.4224883
SWP-1587	1481	-82.14086393	33.4241235
SWP-1588	1482	-82.10612638	33.42010112
SWP-1589	1483	-82.10571759	33.42043308
SWP-1590	1484	-82.12847278	33.4144863
SWP-1591	1485	-82.12932235	33.41440473
SWP-1592	1486	-82.12613134	33.41387634
SWP-1593	1487	-82.12493509	33.41252123
SWP-1593	3995	-82.12520737	33.41255966
SWP-1594	1488	-82.11890803	33.39495197
SWP-1596	1489	-82.12681528	33.40455143
SWP-1597	1490	-82.12676421	33.40465008
SWP-1598	1491	-82.12670297	33.4048419
SWP-1599	1492	-82.12642673	33.40508083
SWP-1600	1493	-82.12611565	33.40518958
SWP-1601	1494	-82.12617407	33.40462854
SWP-1602	1495	-82.12603845	33.40474964
SWP-1603	1496	-82.12572952	33.40434567
SWP-1604	1497	-82.12792525	33.40671947
SWP-1605	1498	-82.1273523	33.40621995
SWP-1606	1499	-82.12750896	33.40634094
SWP-1607	1500	-82.24452617	33.3246344
SWP-1608	1501	-82.26497349	33.33446124
SWP-1609	1502	-82.26956888	33.33809258
SWP-1610	1503	-82.25928271	33.33772735
SWP-1611	1504	-82.25730649	33.33600082
SWP-1612	1505	-82.25630882	33.33452291
SWP-1613	1506	-82.25541053	33.33206747

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SWP-1614	1507	-82.22914647	33.33950334
SWP-1615	1508	-82.24333582	33.34229775
SWP-1616	1509	-82.24631404	33.33957218
SWP-1617	1510	-82.24625866	33.34965908
SWP-1618	1511	-82.21710715	33.35495745
SWP-1619	1512	-82.2164274	33.35322171
SWP-1620	1513	-82.21711833	33.35186812
SWP-1621	1514	-82.21673339	33.35099251
SWP-1622	1515	-82.22377983	33.356818
SWP-1623	1516	-82.22364871	33.35512707
SWP-1624	1517	-82.22304255	33.3509615
SWP-1625	1518	-82.22254937	33.34965377
SWP-1626	1519	-82.2225941	33.34934272
SWP-1627	1520	-82.25045836	33.35453551
SWP-1628	1521	-82.23096527	33.37135065
SWP-1629	1522	-82.24254987	33.35564758
SWP-1630	1523	-82.22422316	33.36396143
SWP-1631	1524	-82.23220802	33.36367066
SWP-1632	1525	-82.25320325	33.36595041
SWP-1633	1526	-82.25904816	33.37031815
SWP-1634	1527	-82.13678505	33.42163526
SWP-1635	1528	-82.14137167	33.42249492
SWP-1636	1529	-82.14055208	33.42321389
SWP-1637	1530	-82.14817917	33.42275777
SWP-1638	1531	-82.14766888	33.42477248
SWP-1639	1532	-82.14730552	33.42680306
SWP-1640	1533	-82.15217177	33.42763556
SWP-1641	1534	-82.14165052	33.41577301
SWP-1642	1535	-82.13469192	33.4163668
SWP-1643	1536	-82.13188564	33.41804821
SWP-1644	1537	-82.1328647	33.41820269
SWP-1645	1538	-82.13983875	33.41858659
SWP-1646	1539	-82.14635779	33.42379587
SWP-1647	1540	-82.14310727	33.42291785
SWP-1648	1541	-82.14347548	33.42363301
SWP-1649	1542	-82.12186727	33.42844984
SWP-1650	1543	-82.10805177	33.41990636
SWP-1652	1544	-82.1054228	33.42135165
SWP-1653	1545	-82.17212497	33.40557692
SWP-1654	1546	-82.13803539	33.41341307
SWP-1655	1547	-82.13696425	33.41206508
SWP-1656	1548	-82.1377363	33.41046967
SWP-1657	1549	-82.14172324	33.41449215
SWP-1658	1550	-82.11931243	33.39657885
SWP-1659	1551	-82.12138979	33.39824297
SWP-1660	1552	-82.11891978	33.39853225
SWP-1661	1553	-82.11679778	33.39596621
SWP-1662	1554	-82.17674541	33.42286935
SWP-1663	1555	-82.18151233	33.4236444
SWP-1664	1556	-82.17544356	33.42022201
SWP-1665	1557	-82.17422415	33.41887497
SWP-1666	1558	-82.18376932	33.41821671
SWP-1667	1559	-82.17791196	33.40911436
SWP-1668	1560	-82.17405547	33.40875802
SWP-1669	1561	-82.17215298	33.41543924
SWP-1670	1562	-82.17444867	33.41849309
SWP-1671	1563	-82.17310153	33.41672069
SWP-1672	1564	-82.17518363	33.41844485

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SWP-1673	1565	-82.1748794	33.41842589
SWP-1674	1566	-82.11656783	33.39971552
SWP-1675	1567	-82.11739881	33.39894946
SWP-1676	1568	-82.17642051	33.40590471
SWP-1677	1569	-82.14758248	33.41449555
SWP-1679	1570	-82.15934237	33.40183955
SWP-1680	1571	-82.1470345	33.41449102
SWP-1681	1572	-82.16069098	33.41363928
SWP-1682	1573	-82.15674063	33.41141558
SWP-1683	1574	-82.18784017	33.41415178
SWP-1684	1575	-82.17603705	33.41201644
SWP-1685	1576	-82.17759475	33.41351929
SWP-1686	1577	-82.18202487	33.40951839
SWP-1687	1578	-82.1767511	33.40882856
SWP-1688	1579	-82.17185107	33.40409172
SWP-1688	3994	-82.17170148	33.40397075
SWP-1689	1580	-82.14190049	33.42852899
SWP-1690	1581	-82.14469922	33.42743619
SWP-1691	1582	-82.14636349	33.42555256
SWP-1692	1583	-82.1175454	33.41098779
SWP-1693	1584	-82.11962541	33.41049319
SWP-1694	1585	-82.11787116	33.40146158
SWP-1695	1586	-82.11915116	33.40174175
SWP-1696	1587	-82.11961072	33.3996473
SWP-1697	1588	-82.1256453	33.40012422
SWP-1698	1589	-82.15345496	33.40936906
SWP-1699	1590	-82.124859	33.40109389
SWP-1700	1591	-82.12413811	33.4020897
SWP-1701	1592	-82.12843161	33.39900166
SWP-1702	1593	-82.12887825	33.40028332
SWP-1703	1594	-82.1292613	33.40054713
SWP-1704	1595	-82.13099593	33.40124046
SWP-1705	1596	-82.13942045	33.40327394
SWP-1706	1597	-82.13698089	33.40376553
SWP-1707	1598	-82.13945515	33.40454956
SWP-1708	1599	-82.12948624	33.41417525
SWP-1709	1600	-82.12909164	33.41331939
SWP-1710	1601	-82.12860819	33.40799652
SWP-1711	1602	-82.13249401	33.40947631
SWP-1712	1603	-82.17611357	33.42731106
SWP-1713	1604	-82.17428834	33.42322938
SWP-1714	1605	-82.17818293	33.4232211
SWP-1715	1606	-82.14397298	33.41672645
SWP-1717	1607	-82.29200655	33.29720916
SWP-1718	1608	-82.32688965	33.31055609
SWP-1719	1609	-82.15233458	33.41908715
SWP-1721	1610	-82.1476649	33.4151152
SWP-1722	1611	-82.15926043	33.42480751
SWP-1723	1612	-82.15874562	33.42387639
SWP-1724	1613	-82.15798518	33.42690458
SWP-1725	1614	-82.14868617	33.41806758
SWP-1726	1615	-82.14690691	33.41651993
SWP-1727	1616	-82.15054219	33.41591699
SWP-1729	1617	-82.13445089	33.40609356
SWP-1730	1618	-82.13874853	33.40771753
SWP-1731	1619	-82.1367346	33.40903516
SWP-1732	1620	-82.1361334	33.40960988
SWP-1733	1621	-82.16316	33.39544861

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SWP-1734	1622	-82.16171993	33.39561581
SWP-1735	1623	-82.15407571	33.42560817
SWP-1736	1624	-82.20784184	33.31576394
SWP-1737	1625	-82.23330656	33.34636204
SWP-1738	1626	-82.2134651	33.34888769
SWP-1739	1627	-82.15617112	33.41721994
SWP-1740	1628	-82.15577189	33.41635277
SWP-1741	1629	-82.15291991	33.41769226
SWP-1742	1630	-82.13727282	33.40567732
SWP-1743	1631	-82.13710318	33.40667535
SWP-1744	1632	-82.13594563	33.40650011
SWP-1745	1633	-82.13436777	33.40519315
SWP-1746	1634	-82.25000487	33.37519386
SWP-1747	1635	-82.2369197	33.3816627
SWP-1748	1636	-82.15160062	33.42333295
SWP-1750	1637	-82.14119607	33.42448549
SWP-1751	1638	-82.14229499	33.42540535
SWP-1752	1639	-82.13409898	33.42079767
SWP-1753	1640	-82.12372627	33.40226317
SWP-1754	1641	-82.17683698	33.4274445
SWP-1755	1642	-82.17821943	33.42628724
SWP-1756	1643	-82.17322865	33.42767968
SWP-1757	1644	-82.17371051	33.42580644
SWP-1758	1645	-82.1774812	33.42427118
SWP-1759	1646	-82.17670242	33.42475386
SWP-1760	1647	-82.17460968	33.42511693
SWP-1761	1648	-82.17245403	33.41564127
SWP-1762	1649	-82.17151944	33.36299508
SWP-1763	1650	-82.29516334	33.288628
SWP-1764	1651	-82.35922628	33.33583388
SWP-1765	1652	-82.28101279	33.30829434
SWP-1766	1653	-82.29769036	33.36025285
SWP-1768	1654	-82.23464545	33.32076366
SWP-1769	1655	-82.240252	33.31540252
SWP-1770	1656	-82.29060456	33.34628409
SWP-1771	1657	-82.32218844	33.34036371
SWP-1772	1658	-82.31701142	33.34816909
SWP-1773	1659	-82.28086422	33.36110838
SWP-1774	1660	-82.14049215	33.37972843
SWP-1775	1661	-82.16410873	33.38705334
SWP-1776	1662	-82.14229938	33.39130898
SWP-1777	1663	-82.12359055	33.39896568
SWP-1780	1664	-82.13433225	33.41975921
SWP-1781	1665	-82.13877926	33.41765397
SWP-1783	1666	-82.15416153	33.42292381
SWP-1784	1667	-82.144841	33.43547779
SWP-1785	1668	-82.18359928	33.33765799
SWP-1786	1669	-82.26727497	33.36812815
SWP-1788	1670	-82.24285092	33.39248944
SWP-1789	1671	-82.21573316	33.34170405
SWP-1790	1672	-82.25102129	33.36209787
SWP-1791	1673	-82.13239601	33.42021945
SWP-1792	1674	-82.12545357	33.43090318
SWP-1793	1675	-82.15167724	33.42632075
SWP-1794	1676	-82.1335352	33.42184592
SWP-1796	1677	-82.26690987	33.33782764
SWP-1797	1678	-82.25412162	33.34270814
SWP-1798	1679	-82.21913365	33.34843538

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SWP-1799	1680	-82.23618511	33.36813945
SWP-1800	1681	-82.17074538	33.41131823
SWP-1801	1682	-82.17082019	33.41008397
SWP-1802	1683	-82.17012729	33.41172299
SWP-1803	1684	-82.17091729	33.4097722
SWP-1804	1685	-82.17212905	33.41261136
SWP-1805	1686	-82.16393231	33.40736031
SWP-1806	1687	-82.16236416	33.40946055
SWP-1807	1688	-82.1622004	33.41069157
SWP-1808	1689	-82.16259315	33.41093067
SWP-1809	1690	-82.16408667	33.40684203
SWP-1811	1691	-82.12761692	33.41627513
SWP-1814	1692	-82.13644535	33.4291004
SWP-1815	1693	-82.1358924	33.42981265
SWP-1816	1694	-82.13479278	33.43008423
SWP-1817	1695	-82.1321084	33.4296829
SWP-1818	1696	-82.16983731	33.41371236
SWP-1819	1697	-82.13068142	33.42545381
SWP-1820	1698	-82.13020095	33.42526053
SWP-1821	1699	-82.1268839	33.42721022
SWP-1822	1700	-82.12634777	33.42780263
SWP-1823	1701	-82.1259517	33.4283311
SWP-1824	1702	-82.12592464	33.42859338
SWP-1825	1703	-82.17864976	33.42329221
SWP-1826	1704	-82.1791626	33.42330487
SWP-1827	1705	-82.1690858	33.41024405
SWP-1828	1706	-82.16964659	33.40982272
SWP-1829	1707	-82.16915384	33.40961244
SWP-1830	1708	-82.1345136	33.41611011
SWP-1831	1709	-82.16540161	33.40524169
SWP-1832	1710	-82.12730093	33.40846737
SWP-1833	1711	-82.12708869	33.40823148
SWP-1834	1712	-82.12753798	33.4087368
SWP-1835	1713	-82.12676547	33.40788122
SWP-1836	1714	-82.11790583	33.39314152
SWP-1837	1715	-82.127296	33.40166367
SWP-1838	1716	-82.13267554	33.40176475
SWP-1839	1717	-82.12554087	33.40895896
SWP-1840	1718	-82.12783862	33.40723989
SWP-1842	1719	-82.15406643	33.42418364
SWP-1843	1720	-82.15405835	33.42457674
SWP-1845	1721	-82.15863925	33.42475686
SWP-1846	1722	-82.14532657	33.41454296
SWP-1847	1723	-82.18372239	33.42149384
SWP-1848	1724	-82.18371388	33.42123997
SWP-1849	1725	-82.16702283	33.40625996
SWP-1850	1726	-82.13992158	33.41839243
SWP-1851	1727	-82.13975273	33.4183927
SWP-1852	1728	-82.13979661	33.41705428
SWP-1853	1729	-82.13948911	33.41690407
SWP-1855	1730	-82.13789163	33.41836892
SWP-1856	1731	-82.13813285	33.41835427
SWP-1857	1732	-82.13849695	33.41894229
SWP-1858	1733	-82.13816248	33.41695117
SWP-1859	1734	-82.13728557	33.41239516
SWP-1860	1735	-82.13276	33.40981026
SWP-1861	1736	-82.12629715	33.41376551
SWP-1862	1737	-82.1262507	33.41376065

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SWP-1863	1738	-82.12604229	33.41352552
SWP-1864	1739	-82.12582211	33.41328404
SWP-1865	1740	-82.12614318	33.41212387
SWP-1866	1741	-82.12569265	33.41241002
SWP-1867	1742	-82.12542933	33.41258572
SWP-1868	1743	-82.12536616	33.41245971
SWP-1869	1744	-82.12560184	33.41231141
SWP-1870	1745	-82.12583248	33.41215809
SWP-1871	1746	-82.12633303	33.41184479
SWP-1872	1747	-82.12656798	33.41169247
SWP-1873	1748	-82.12651385	33.41362335
SWP-1874	1749	-82.12680405	33.41343949
SWP-1875	1750	-82.1270898	33.41467117
SWP-1876	1751	-82.12660725	33.41414022
SWP-1877	1752	-82.12640049	33.41391399
SWP-1878	1753	-82.12643964	33.41383662
SWP-1879	1754	-82.12675621	33.41363248
SWP-1880	1755	-82.12704496	33.41344668
SWP-1881	1756	-82.13264077	33.41477034
SWP-1882	1757	-82.11548339	33.39563857
SWP-1883	1758	-82.11546733	33.39564856
SWP-1884	1759	-82.13739733	33.41447785
SWP-1885	1760	-82.13785916	33.41537326
SWP-1886	1761	-82.13463151	33.41996193
SWP-1887	1762	-82.1180065	33.43285782
SWP-1888	1763	-82.16807056	33.40750593
SWP-1889	1764	-82.1630237	33.40466586
SWP-1890	1765	-82.16733665	33.41500445
SWP-1891	1766	-82.17025186	33.41148692
SWP-1892	1767	-82.17048789	33.41174388
SWP-1894	1768	-82.17098224	33.41575563
SWP-1896	1769	-82.133948	33.4253587
SWP-1897	1770	-82.16946416	33.40825702
SWP-1898	1771	-82.17330512	33.40504838
SWP-1899	1772	-82.13784583	33.41839325
SWP-1902	1773	-82.1624251	33.42301718
SWP-1904	1774	-82.1387616	33.41571467
SWP-1905	1775	-82.1249494	33.42838464
SWP-1906	1776	-82.12596999	33.40461759
SWP-1907	1777	-82.12596021	33.40487074
SWP-1908	1778	-82.12508864	33.40197079
SWP-1909	1779	-82.15962369	33.41728984
SWP-1911	1780	-82.1355289	33.42218336
SWP-1912	1781	-82.11273119	33.42705592
SWP-1913	1782	-82.13113281	33.42579526
SWP-1914	1783	-82.17357596	33.43128484
SWP-1915	1784	-82.17963989	33.41918328
SWP-1916	1785	-82.18154691	33.41921854
SWP-1917	1786	-82.16661319	33.40568367
SWP-1919	1787	-82.16972288	33.40868212
SWP-1920	1788	-82.17028541	33.40838066
SWP-1921	1789	-82.17083067	33.40943508
SWP-1922	1790	-82.17219665	33.40984971
SWP-1923	1791	-82.17225406	33.40875635
SWP-1924	1792	-82.17178753	33.40882518
SWP-1925	1793	-82.17155163	33.41037345
SWP-1926	1794	-82.17135948	33.41219792
SWP-1927	1795	-82.17169792	33.41085271

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SWP-1928	1796	-82.17173112	33.41120134
SWP-1929	1797	-82.17304526	33.41413629
SWP-1930	1798	-82.16070099	33.41886818
SWP-1931	1799	-82.160729	33.41740841
SWP-1932	1800	-82.14272662	33.41600918
SWP-1933	1801	-82.14572167	33.41578354
SWP-1934	1802	-82.16985692	33.41587968
SWP-1935	1803	-82.16935497	33.41576521
SWP-1936	1804	-82.15548901	33.42690138
SWP-1937	1805	-82.13020155	33.41813278
SWP-1938	1806	-82.15422672	33.42351177
SWP-1939	1807	-82.15981511	33.42482761
SWP-1940	1808	-82.14951421	33.42285165
SWP-1941	1809	-82.12815995	33.40662702
SWP-1942	1810	-82.12787062	33.40623037
SWP-1943	1811	-82.12429338	33.40189159
SWP-1944	1812	-82.1682268	33.40932176
SWP-1945	1813	-82.17087039	33.4144184
SWP-1946	1814	-82.17068166	33.41484637
SWP-1947	1815	-82.1452677	33.43547677
SWP-1948	1816	-82.14559954	33.42327987
SWP-1949	1817	-82.12971666	33.42525632
SWP-1950	1818	-82.12731204	33.42560811
SWP-1951	1819	-82.1268825	33.4256458
SWP-1952	1820	-82.12732721	33.42617137
SWP-1953	1821	-82.13158209	33.42892708
SWP-1954	1822	-82.18366817	33.42443659
SWP-1955	1823	-82.13557733	33.4226432
SWP-1956	1824	-82.17181534	33.4075802
SWP-1957	1825	-82.12734516	33.41309269
SWP-1958	1826	-82.12774217	33.41284538
SWP-1959	1827	-82.12744099	33.41319628
SWP-1960	1828	-82.12783466	33.41294601
SWP-1961	1829	-82.13550292	33.42315796
SWP-1962	1830	-82.13559509	33.42126639
SWP-1965	1831	-82.13515355	33.42995499
SWP-1966	1832	-82.13448322	33.4298677
SWP-1967	1833	-82.13298124	33.43003324
SWP-1968	1834	-82.13244037	33.42865901
SWP-1969	1835	-82.12609583	33.42899861
SWP-1970	1836	-82.13604029	33.42669239
SWP-1971	1837	-82.13505667	33.42667485
SWP-1972	1838	-82.13423237	33.42666545
SWP-1973	1839	-82.13336303	33.42664917
SWP-1974	1840	-82.1324596	33.42783644
SWP-1975	1841	-82.13273569	33.42935697
SWP-1976	1842	-82.13339189	33.42992882
SWP-1977	1843	-82.16229825	33.42817366
SWP-1978	1844	-82.16095724	33.42875425
SWP-1979	1845	-82.14890329	33.42781612
SWP-1982	1846	-82.13170706	33.41534485
SWP-1983	1847	-82.14975741	33.41866013
SWP-1986	1848	-82.09928151	33.42508164
SWP-1989	1849	-82.16727257	33.43198362
SWP-1990	1850	-82.16679302	33.43274359
SWP-1991	1851	-82.1712707	33.41522823
SWP-1992	1852	-82.17115496	33.41534523
SWP-1993	1853	-82.17157227	33.41606093

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SWP-1994	1854	-82.17090174	33.41618383
SWP-1995	1855	-82.18987029	33.41957676
SWP-1996	1856	-82.14496187	33.41488912
SWP-1997	1857	-82.1204952	33.39631298
SWP-1998	1858	-82.12010419	33.39625899
SWP-1999	1859	-82.12099296	33.39714534
SWP-2000	1860	-82.12215774	33.39804815
SWP-2001	1861	-82.12263896	33.39861096
SWP-2002	1862	-82.13661948	33.42120621
SWP-2003	1863	-82.16656671	33.41668384
SWP-2004	1864	-82.12673988	33.40825249
SWP-2005	1865	-82.13438791	33.40802295
SWP-2006	1866	-82.12750471	33.42659546
SWP-2007	1867	-82.12722534	33.43019178
SWP-2008	1868	-82.12546269	33.40234707
SWP-2009	1869	-82.12528464	33.40267427
SWP-2010	1870	-82.1242446	33.40374436
SWP-2011	1871	-82.12372403	33.42159997
SWP-2012	1872	-82.12382269	33.42149089
SWP-2013	1873	-82.12411838	33.42176208
SWP-2014	1874	-82.12417124	33.42135937
SWP-2015	1875	-82.12428994	33.42149095
SWP-2016	1876	-82.12404066	33.42139323
SWP-2017	1877	-82.12303412	33.42134396
SWP-2018	1878	-82.12051875	33.42106654
SWP-2019	1879	-82.12280966	33.4171288
SWP-2020	1880	-82.12717018	33.42126804
SWP-2021	1881	-82.12790165	33.42064424
SWP-2022	1882	-82.12716752	33.41974338
SWP-2023	1883	-82.12586297	33.41964308
SWP-2024	1884	-82.12669533	33.41982938
SWP-2025	1885	-82.12506801	33.42158976
SWP-2027	1886	-82.12652811	33.419222
SWP-2028	1887	-82.12626998	33.41847643
SWP-2029	1888	-82.12591169	33.4181382
SWP-2030	1889	-82.12524618	33.41766403
SWP-2031	1890	-82.12492276	33.41738147
SWP-2032	1891	-82.12531953	33.41722116
SWP-2033	1892	-82.1242287	33.41631278
SWP-2034	1893	-82.12548138	33.41642696
SWP-2035	1894	-82.1256398	33.41848576
SWP-2036	1895	-82.1253363	33.41892086
SWP-2037	1896	-82.12418811	33.41917948
SWP-2038	1897	-82.1240206	33.42082958
SWP-2040	1898	-82.12233781	33.42053851
SWP-2041	1899	-82.12241	33.41806899
SWP-2042	1900	-82.12153165	33.42041273
SWP-2043	1901	-82.12410029	33.41872869
SWP-2044	1902	-82.12470856	33.41733435
SWP-2045	3789	-82.12200643	33.42049043
SWP-2046	1903	-82.12601317	33.41968578
SWP-2047	1904	-82.12641278	33.41957679
SWP-2048	1905	-82.13356675	33.4028221
SWP-2049	1906	-82.1298492	33.40201745
SWP-2050	1907	-82.13106296	33.40236932
SWP-2051	1908	-82.13171107	33.40247966
SWP-2052	1909	-82.13161596	33.40415897
SWP-2053	1910	-82.13039298	33.40343878

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SWP-2054	1911	-82.13055108	33.4032192
SWP-2055	1912	-82.12951843	33.40223574
SWP-2056	1913	-82.12921747	33.40214405
SWP-2057	1914	-82.12647839	33.4188476
SWP-2058	1915	-82.11350136	33.42723397
SWP-2059	1916	-82.11249956	33.42770114
SWP-2060	1917	-82.11369633	33.42878799
SWP-2061	1918	-82.11305731	33.42889205
SWP-2062	1919	-82.13000794	33.40395864
SWP-2063	1920	-82.13400452	33.40756126
SWP-2064	1921	-82.13448412	33.40744139
SWP-2066	1922	-82.14733386	33.42556743
SWP-2067	1923	-82.14010192	33.42409142
SWP-2068	1924	-82.13736448	33.41489125
SWP-2069	1925	-82.13719998	33.4150786
SWP-2070	1926	-82.13830023	33.41834489
SWP-2071	1927	-82.16286933	33.42406184
SWP-2072	1928	-82.16299453	33.42460682
SWP-2075	1929	-82.1629092	33.42418545
SWP-2076	1930	-82.16095039	33.42302948
SWP-2077	1931	-82.16248131	33.41861157
SWP-2078	1932	-82.15961206	33.41781216
SWP-2079	1933	-82.17438889	33.42221505
SWP-2081	1934	-82.17997248	33.41592544
SWP-2082	1935	-82.13943111	33.41444709
SWP-2084	1936	-82.13825683	33.41528676
SWP-2085	1937	-82.13740506	33.41469997
SWP-2086	1938	-82.13564669	33.41298598
SWP-2087	1939	-82.13584278	33.41316159
SWP-2088	1940	-82.13679797	33.41465086
SWP-2089	1941	-82.13519559	33.41735162
SWP-2090	1942	-82.13806949	33.41685671
SWP-2091	1943	-82.11999439	33.39694669
SWP-2092	1944	-82.11954439	33.39558591
SWP-2093	1945	-82.11869957	33.39477975
SWP-2094	1946	-82.11832175	33.39490154
SWP-2095	1947	-82.13648361	33.42783413
SWP-2096	1948	-82.13519668	33.42944907
SWP-2097	1949	-82.13510406	33.42933849
SWP-2098	1950	-82.13310058	33.42986649
SWP-2099	1951	-82.13249793	33.42959614
SWP-2100	1952	-82.13330625	33.4293714
SWP-2101	1953	-82.13642624	33.42799083
SWP-2102	1954	-82.13608094	33.42800199
SWP-2103	1955	-82.13628962	33.42787378
SWP-2104	1956	-82.13634204	33.42771678
SWP-2105	1957	-82.13250538	33.42824811
SWP-2106	1958	-82.13366199	33.42858176
SWP-2107	1959	-82.1363775	33.42729121
SWP-2108	1960	-82.13555009	33.42663752
SWP-2109	1961	-82.13524101	33.42678472
SWP-2110	1962	-82.13540017	33.42701752
SWP-2111	1963	-82.13526685	33.42773048
SWP-2112	1964	-82.13476093	33.42789758
SWP-2113	1965	-82.13422869	33.42687776
SWP-2114	1966	-82.13464569	33.42662536
SWP-2115	1967	-82.135136	33.42624885
SWP-2116	1968	-82.1333603	33.42672532

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SWP-2117	1969	-82.13380013	33.42661324
SWP-2118	1970	-82.132358	33.42660872
SWP-2119	1971	-82.13483383	33.42586052
SWP-2120	1972	-82.13415548	33.42584877
SWP-2121	1973	-82.13521396	33.42577429
SWP-2122	1974	-82.1351745	33.42568063
SWP-2123	1975	-82.13282396	33.42590963
SWP-2125	1976	-82.13551647	33.42955216
SWP-2126	1977	-82.13576164	33.42948638
SWP-2128	1978	-82.16441537	33.42242533
SWP-2129	1979	-82.16631264	33.42210225
SWP-2130	1980	-82.16319158	33.41786005
SWP-2131	1981	-82.16267302	33.41822036
SWP-2132	1982	-82.16217512	33.41804768
SWP-2134	1983	-82.13542141	33.40695102
SWP-2135	1984	-82.13629323	33.40793688
SWP-2136	1985	-82.16451498	33.41753985
SWP-2137	1986	-82.1415742	33.4183726
SWP-2138	1987	-82.135556	33.42081929
SWP-2139	1988	-82.12754298	33.43167777
SWP-2140	1989	-82.1537723	33.42319102
SWP-2141	1990	-82.1540817	33.42321435
SWP-2144	1991	-82.1544851	33.42368949
SWP-2146	1992	-82.11822744	33.43000164
SWP-2147	1993	-82.11851421	33.42943916
SWP-2148	1994	-82.13230183	33.41532548
SWP-2150	1995	-82.1862934	33.42911318
SWP-2151	1996	-82.13468754	33.41974866
SWP-2153	1997	-82.16314802	33.41660501
SWP-2154	1998	-82.13726267	33.42728721
SWP-2155	1999	-82.13545236	33.41179883
SWP-2156	2000	-82.12972285	33.41338487
SWP-2157	2001	-82.1262586	33.40403869
SWP-2159	2002	-82.13580008	33.40907019
SWP-2160	2003	-82.1343796	33.40859758
SWP-2161	2004	-82.13735961	33.42318494
SWP-2162	2005	-82.13564239	33.42411853
SWP-2163	2006	-82.1366626	33.42381224
SWP-2164	2007	-82.136826	33.42384578
SWP-2165	2008	-82.13770773	33.42365612
SWP-2166	2009	-82.13739997	33.42280827
SWP-2167	2010	-82.13556898	33.42383524
SWP-2168	2011	-82.13711525	33.4229955
SWP-2169	2012	-82.13707137	33.42283029
SWP-2170	2013	-82.13761141	33.4238651
SWP-2173	2014	-82.13774872	33.42356076
SWP-2174	2015	-82.13628499	33.42344267
SWP-2175	2016	-82.15472729	33.41750728
SWP-2177	2017	-82.1231568	33.40262572
SWP-2178	2018	-82.12458068	33.4030104
SWP-2179	2019	-82.1554005	33.42207413
SWP-2180	2020	-82.15373907	33.42419459
SWP-2181	2021	-82.15375404	33.42371379
SWP-2182	2022	-82.15224094	33.42287523
SWP-2183	2023	-82.14133849	33.42408194
SWP-2184	2024	-82.13663136	33.41224287
SWP-2185	2025	-82.13666644	33.4125322
SWP-2186	2026	-82.15660723	33.4248981

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SWP-2187	2027	-82.16027285	33.42445312
SWP-2188	2028	-82.1596629	33.42522064
SWP-2189	2029	-82.1601739	33.42467536
SWP-2190	2030	-82.16024634	33.42433804
SWP-2193	2031	-82.17433856	33.41910172
SWP-2194	2032	-82.17265881	33.43113846
SWP-2195	2033	-82.18295144	33.4231668
SWP-2196	2034	-82.18453193	33.42316431
SWP-2198	2035	-82.17260248	33.42910581
SWP-2199	2036	-82.17270325	33.42865933
SWP-2204	2037	-82.13773317	33.41544256
SWP-2205	2038	-82.13835725	33.41581519
SWP-2206	2039	-82.13739244	33.41615517
SWP-2208	2040	-82.13761781	33.41513755
SWP-2209	2041	-82.13677091	33.41420815
SWP-2210	2042	-82.17440051	33.39734587
SWP-2211	2043	-82.23014106	33.33748595
SWP-2212	2044	-82.23289552	33.33530567
SWP-2213	2045	-82.28594245	33.3437481
SWP-2214	2046	-82.24140567	33.36877585
SWP-2215	2047	-82.24135187	33.36898299
SWP-2217	2048	-82.16042195	33.41632845
SWP-2218	2049	-82.15835271	33.41602826
SWP-2219	2050	-82.17244697	33.41250897
SWP-2220	2051	-82.17225438	33.41084153
SWP-2221	2052	-82.12485475	33.40318208
SWP-2222	2053	-82.12475402	33.40333851
SWP-2223	2054	-82.12447321	33.40354548
SWP-2225	2055	-82.12470155	33.4030473
SWP-2228	2056	-82.12360864	33.4303294
SWP-2229	2057	-82.15404756	33.42061009
SWP-2231	2058	-82.15382628	33.420797
SWP-2235	2059	-82.14158434	33.417863
SWP-2236	2060	-82.14791367	33.41818024
SWP-2240	2061	-82.13621129	33.41355067
SWP-2241	2062	-82.1361541	33.41396791
SWP-2242	2063	-82.1360104	33.4137696
SWP-2244	2064	-82.13979356	33.42262937
SWP-2245	2065	-82.13985873	33.42255498
SWP-2247	2066	-82.12973303	33.42613802
SWP-2248	2067	-82.13805763	33.42097732
SWP-2249	2068	-82.14404619	33.42411803
SWP-2251	2069	-82.13752188	33.4240755
SWP-2252	2070	-82.15756664	33.4256658
SWP-2253	2071	-82.15423885	33.42292428
SWP-2256	2072	-82.12453536	33.42198194
SWP-2260	2073	-82.17046513	33.41418633
SWP-2261	2074	-82.16944029	33.40948972
SWP-2262	2075	-82.17179902	33.40825418
SWP-2263	2076	-82.13122919	33.42648772
SWP-2264	2077	-82.1289426	33.43008241
SWP-2265	2078	-82.12590103	33.4286819
SWP-2266	2079	-82.1223846	33.42842252
SWP-2267	2080	-82.12313558	33.42861564
SWP-2268	2081	-82.16583351	33.40675192
SWP-2269	2082	-82.17337874	33.41431648
SWP-2271	2083	-82.15661828	33.42571673
SWP-2272	2084	-82.13899908	33.4261688

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SWP-2273	2085	-82.15792279	33.41574278
SWP-2274	2086	-82.13674436	33.40782121
SWP-2276	2087	-82.12614144	33.4086886
SWP-2279	2088	-82.13907898	33.37364944
SWP-2280	2089	-82.18329577	33.42321006
SWP-2281	2090	-82.18272122	33.42320001
SWP-2282	2091	-82.18232651	33.42319474
SWP-2283	2092	-82.18171857	33.42318114
SWP-2284	2093	-82.18292299	33.42301895
SWP-2285	2094	-82.18293854	33.4222486
SWP-2286	2095	-82.18354847	33.41746868
SWP-2287	2096	-82.14710607	33.42695714
SWP-2288	2097	-82.14781959	33.42701636
SWP-2289	2098	-82.14790251	33.42702974
SWP-2290	2099	-82.14734948	33.42663516
SWP-2291	2100	-82.14567555	33.41657793
SWP-2292	2101	-82.14668704	33.41613207
SWP-2293	2102	-82.14702957	33.4163591
SWP-2294	2103	-82.14715291	33.41623012
SWP-2295	2104	-82.14714267	33.4166674
SWP-2297	2105	-82.14712406	33.41745642
SWP-2298	2106	-82.1471785	33.41802265
SWP-2299	2107	-82.14723957	33.41820325
SWP-2300	2108	-82.14776946	33.41848938
SWP-2301	2109	-82.14763943	33.41812198
SWP-2302	2110	-82.14778378	33.41815017
SWP-2303	2111	-82.14798354	33.41822485
SWP-2304	2112	-82.14838094	33.41863865
SWP-2305	2113	-82.14845466	33.41837665
SWP-2306	2114	-82.14832403	33.41790652
SWP-2307	2115	-82.14910242	33.41797078
SWP-2308	2116	-82.14893028	33.41796861
SWP-2309	2117	-82.14813525	33.41756413
SWP-2310	2118	-82.14815524	33.41741814
SWP-2311	2119	-82.14817515	33.41728522
SWP-2312	2120	-82.14742384	33.41719276
SWP-2313	2121	-82.14725775	33.41715547
SWP-2314	2122	-82.14708103	33.41701802
SWP-2315	2123	-82.14672805	33.41720858
SWP-2316	2124	-82.14635818	33.4172031
SWP-2317	2125	-82.14612297	33.41734961
SWP-2318	2126	-82.14606116	33.41763731
SWP-2319	2127	-82.14528741	33.41848834
SWP-2320	2128	-82.14539192	33.41826908
SWP-2321	2129	-82.14517515	33.41860211
SWP-2322	2130	-82.14593189	33.41777247
SWP-2323	2131	-82.14555461	33.41775681
SWP-2324	2132	-82.14520534	33.41783133
SWP-2325	2133	-82.14580474	33.41787336
SWP-2326	2134	-82.14606355	33.41789887
SWP-2327	2135	-82.14607062	33.41804587
SWP-2328	2136	-82.14628796	33.41856276
SWP-2329	2137	-82.14651984	33.41861036
SWP-2330	2138	-82.14246732	33.41854824
SWP-2331	2139	-82.14250641	33.4183851
SWP-2332	2140	-82.1417622	33.41839303
SWP-2333	2141	-82.14164267	33.41838941
SWP-2334	2142	-82.14255263	33.41812267

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SWP-2335	2143	-82.14166564	33.41732297
SWP-2336	2144	-82.14175504	33.41734156
SWP-2338	2145	-82.14209004	33.41737603
SWP-2339	2146	-82.14248127	33.41743335
SWP-2341	2147	-82.14294481	33.41772051
SWP-2342	2148	-82.14308549	33.41756737
SWP-2343	2149	-82.14384364	33.41797042
SWP-2344	2150	-82.14390649	33.41756208
SWP-2346	2151	-82.1443151	33.41725723
SWP-2347	2152	-82.14459519	33.41725794
SWP-2348	2153	-82.14485394	33.41724265
SWP-2349	2154	-82.14494308	33.41716056
SWP-2350	2155	-82.14494501	33.41706827
SWP-2351	2156	-82.14510538	33.41703547
SWP-2352	2157	-82.14487942	33.41704504
SWP-2353	2158	-82.1446882	33.41700315
SWP-2354	2159	-82.14447212	33.41689848
SWP-2355	2160	-82.14425217	33.41687599
SWP-2356	2161	-82.14368525	33.41695377
SWP-2357	2162	-82.14300402	33.41698104
SWP-2358	2163	-82.14540587	33.41667861
SWP-2359	2164	-82.14397902	33.41636606
SWP-2360	2165	-82.14405806	33.41664059
SWP-2361	2166	-82.14397453	33.41664003
SWP-2362	2167	-82.14523493	33.41591998
SWP-2365	2168	-82.18528142	33.42219522
SWP-2366	2169	-82.18418484	33.42348368
SWP-2367	2170	-82.18382559	33.42330071
SWP-2368	2171	-82.18081807	33.42317058
SWP-2369	2172	-82.17971497	33.42316086
SWP-2370	2173	-82.17810703	33.42315506
SWP-2371	2174	-82.17999808	33.42324741
SWP-2372	2175	-82.17998562	33.42338252
SWP-2373	2176	-82.17994369	33.42736379
SWP-2374	2177	-82.17993346	33.42777179
SWP-2375	2178	-82.1799247	33.42820306
SWP-2376	2179	-82.17991761	33.42846451
SWP-2377	2180	-82.17991168	33.42864761
SWP-2378	2181	-82.17990561	33.42899915
SWP-2379	2182	-82.17990132	33.42912518
SWP-2380	2183	-82.17989329	33.42962434
SWP-2381	2184	-82.17989275	33.42956707
SWP-2382	2185	-82.18027529	33.42829235
SWP-2383	2186	-82.18048008	33.42829416
SWP-2384	2187	-82.18118811	33.4283029
SWP-2385	2188	-82.18182041	33.43020101
SWP-2386	2189	-82.18236107	33.42994613
SWP-2387	2190	-82.18311169	33.42985166
SWP-2388	2191	-82.18420786	33.42975765
SWP-2389	2192	-82.18415847	33.42973965
SWP-2390	2193	-82.18457169	33.4296475
SWP-2391	2194	-82.18456181	33.42960359
SWP-2392	2195	-82.18603928	33.42947315
SWP-2393	2196	-82.18582288	33.4292962
SWP-2394	2197	-82.17631657	33.42730589
SWP-2395	2198	-82.17630524	33.42771282
SWP-2396	2199	-82.17629299	33.42814534
SWP-2397	2200	-82.17628844	33.42840983

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SWP-2398	2201	-82.17628353	33.42859298
SWP-2399	2202	-82.17627112	33.42906243
SWP-2400	2203	-82.17626132	33.42957367
SWP-2401	2204	-82.17626258	33.42947091
SWP-2402	2205	-82.17626183	33.42951329
SWP-2403	2206	-82.17250726	33.43093322
SWP-2404	2207	-82.17280452	33.43086381
SWP-2405	2208	-82.17275737	33.429173
SWP-2406	2209	-82.17282673	33.42947013
SWP-2407	2210	-82.17282529	33.42952174
SWP-2408	2211	-82.17012522	33.42649896
SWP-2409	2212	-82.17069193	33.42663642
SWP-2410	2213	-82.17142506	33.42692062
SWP-2411	2214	-82.17261393	33.42732607
SWP-2412	2215	-82.17247606	33.42841035
SWP-2413	2216	-82.17246829	33.42879688
SWP-2414	2217	-82.17258891	33.42862756
SWP-2415	2218	-82.17277282	33.42859845
SWP-2416	2219	-82.17283931	33.42854769
SWP-2417	2220	-82.1728422	33.42849905
SWP-2418	2221	-82.17202306	33.42852555
SWP-2419	2222	-82.17142364	33.42851414
SWP-2420	2223	-82.17177129	33.42777948
SWP-2421	2224	-82.17150299	33.42756354
SWP-2422	2225	-82.17509026	33.42713267
SWP-2423	2226	-82.17357636	33.42549416
SWP-2424	2227	-82.17345564	33.42512188
SWP-2425	2228	-82.17336797	33.42483996
SWP-2426	2229	-82.1729052	33.42460597
SWP-2427	2230	-82.17228346	33.42316413
SWP-2429	2231	-82.17208041	33.42335207
SWP-2430	2232	-82.17182523	33.42372
SWP-2431	2233	-82.1739446	33.42249039
SWP-2432	2234	-82.17383495	33.42157087
SWP-2433	2235	-82.17358444	33.42151044
SWP-2434	2236	-82.17324676	33.42150795
SWP-2435	2237	-82.17285049	33.42149943
SWP-2436	2238	-82.17256749	33.4206763
SWP-2437	2239	-82.1760044	33.42163911
SWP-2438	2240	-82.17588414	33.42036666
SWP-2439	2241	-82.1778562	33.42081832
SWP-2440	2242	-82.178366	33.41916544
SWP-2441	2243	-82.17898105	33.4191739
SWP-2442	2244	-82.18017599	33.41919008
SWP-2443	2245	-82.18281337	33.41924595
SWP-2444	2246	-82.18241071	33.41923994
SWP-2445	2247	-82.18180011	33.41922938
SWP-2446	2248	-82.18300588	33.41941534
SWP-2447	2249	-82.18299757	33.41983224
SWP-2448	2250	-82.18299145	33.42019274
SWP-2449	2251	-82.18297127	33.42105016
SWP-2450	2252	-82.18215444	33.42147785
SWP-2451	2253	-82.18217012	33.4209778
SWP-2452	2254	-82.18215715	33.42122793
SWP-2453	2255	-82.18217936	33.42053937
SWP-2454	2256	-82.18219839	33.42012256
SWP-2455	2257	-82.18220452	33.41940461
SWP-2456	2258	-82.18363197	33.41942032

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SWP-2457	2259	-82.18348119	33.41984819
SWP-2458	2260	-82.18344741	33.42021138
SWP-2459	2261	-82.1834364	33.42068352
SWP-2461	2262	-82.18341058	33.4211917
SWP-2462	2263	-82.17992107	33.41627552
SWP-2463	2264	-82.17645098	33.41653675
SWP-2464	2265	-82.17654548	33.41640024
SWP-2465	2266	-82.17654472	33.41610968
SWP-2466	2267	-82.1769471	33.4157361
SWP-2467	2268	-82.17748989	33.41545075
SWP-2468	2269	-82.17820296	33.41495061
SWP-2469	2270	-82.17843859	33.41483583
SWP-2470	2271	-82.17873443	33.41482271
SWP-2471	2272	-82.17937119	33.41477885
SWP-2472	2273	-82.17290622	33.43725307
SWP-2473	2274	-82.14578889	33.43424271
SWP-2474	2275	-82.14513668	33.43604139
SWP-2475	2276	-82.14212571	33.43653748
SWP-2476	2277	-82.14093481	33.43530392
SWP-2477	2278	-82.16304606	33.42405515
SWP-2478	2279	-82.16268196	33.42409241
SWP-2479	2280	-82.16298684	33.42449787
SWP-2480	2281	-82.16233704	33.42448387
SWP-2481	2282	-82.16303824	33.42452073
SWP-2482	2283	-82.16339888	33.42284517
SWP-2483	2284	-82.16306624	33.42274077
SWP-2484	2285	-82.16280925	33.42289911
SWP-2485	2286	-82.16302955	33.42247905
SWP-2486	2287	-82.16296585	33.42304213
SWP-2487	2288	-82.16192886	33.42288114
SWP-2488	2289	-82.16128834	33.42289071
SWP-2489	2290	-82.16099868	33.4229108
SWP-2490	2291	-82.1604961	33.4229033
SWP-2491	2292	-82.15999226	33.42289534
SWP-2492	2293	-82.15899815	33.42284704
SWP-2494	2294	-82.15874989	33.4233346
SWP-2495	2295	-82.15879427	33.42343685
SWP-2496	2296	-82.15883732	33.42365415
SWP-2497	2297	-82.1588276	33.42407969
SWP-2498	2298	-82.15873533	33.42485218
SWP-2500	2299	-82.15951463	33.42485178
SWP-2501	2300	-82.15955061	33.42490314
SWP-2502	2301	-82.15960617	33.42550189
SWP-2503	2302	-82.15933784	33.42547579
SWP-2504	2303	-82.15911838	33.42547283
SWP-2505	2304	-82.1589572	33.42546993
SWP-2506	2305	-82.15903563	33.42559001
SWP-2508	2306	-82.16011889	33.42553228
SWP-2509	2307	-82.16064114	33.4255404
SWP-2510	2308	-82.16097923	33.42554555
SWP-2511	2309	-82.16130345	33.42555027
SWP-2512	2310	-82.16167233	33.42555578
SWP-2513	2311	-82.16266101	33.4255707
SWP-2514	2312	-82.15973984	33.42560008
SWP-2515	2313	-82.15973852	33.4257212
SWP-2516	2314	-82.15969683	33.42685746
SWP-2517	2315	-82.15964592	33.42691803
SWP-2518	2316	-82.15945552	33.42698289

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SWP-2519	2317	-82.15946868	33.4269438
SWP-2520	2318	-82.15946071	33.42685994
SWP-2521	2319	-82.15932934	33.42680521
SWP-2522	2320	-82.15907955	33.42684675
SWP-2523	2321	-82.15879039	33.42683631
SWP-2524	2322	-82.15856818	33.42686128
SWP-2525	2323	-82.1584343	33.42690025
SWP-2526	2324	-82.15827682	33.42690528
SWP-2527	2325	-82.15812264	33.42690501
SWP-2528	2326	-82.15786447	33.42690411
SWP-2529	2327	-82.15963858	33.42696802
SWP-2530	2328	-82.15974565	33.42691018
SWP-2531	2329	-82.16000715	33.42690871
SWP-2532	2330	-82.16030141	33.42691379
SWP-2533	2331	-82.16088836	33.42692508
SWP-2534	2332	-82.16128988	33.4270958
SWP-2535	2333	-82.16141035	33.42696927
SWP-2536	2334	-82.16148086	33.42693384
SWP-2537	2335	-82.16161611	33.42693602
SWP-2538	2336	-82.15955851	33.42662355
SWP-2539	2337	-82.15960712	33.42644055
SWP-2540	2338	-82.15956272	33.42632319
SWP-2541	2339	-82.15759139	33.42756025
SWP-2542	2340	-82.1575928	33.42691495
SWP-2543	2341	-82.15750418	33.42687506
SWP-2544	2342	-82.15731261	33.42686781
SWP-2545	2343	-82.15710275	33.4268666
SWP-2546	2344	-82.15687765	33.42686532
SWP-2547	2345	-82.15663655	33.42686249
SWP-2548	2346	-82.15769124	33.42649446
SWP-2549	2347	-82.15784607	33.42594991
SWP-2550	2348	-82.15775977	33.42574154
SWP-2551	2349	-82.1576249	33.4255874
SWP-2552	2350	-82.15761723	33.42546135
SWP-2553	2351	-82.15760198	33.42536827
SWP-2554	2352	-82.15760574	33.42520479
SWP-2555	2353	-82.15760841	33.42501621
SWP-2556	2354	-82.15762162	33.42485196
SWP-2557	2355	-82.15765907	33.42467652
SWP-2558	2356	-82.15768445	33.42441203
SWP-2559	2357	-82.1576914	33.42408498
SWP-2560	2358	-82.15766028	33.42386477
SWP-2561	2359	-82.15762184	33.42361607
SWP-2562	2360	-82.15766721	33.42332385
SWP-2563	2361	-82.15775975	33.42323669
SWP-2564	2362	-82.15783862	33.42322158
SWP-2565	2363	-82.15774534	33.42391525
SWP-2566	2364	-82.15743875	33.4238132
SWP-2567	2365	-82.1568022	33.42428622
SWP-2568	2366	-82.15754029	33.4242992
SWP-2569	2367	-82.15773118	33.42456682
SWP-2570	2368	-82.15746088	33.42491598
SWP-2571	2369	-82.15707423	33.42488123
SWP-2572	2370	-82.15644927	33.42484509
SWP-2573	2371	-82.15593003	33.42486274
SWP-2574	2372	-82.15564964	33.42488413
SWP-2575	2373	-82.15535212	33.42487977
SWP-2576	2374	-82.15683689	33.42481165

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SWP-2577	2375	-82.15681907	33.42487529
SWP-2578	2376	-82.15539946	33.42429838
SWP-2579	2377	-82.15566684	33.42434422
SWP-2580	2378	-82.1560564	33.4243338
SWP-2582	2379	-82.15746134	33.42341452
SWP-2583	2380	-82.15696841	33.42340474
SWP-2584	2381	-82.15644804	33.42331242
SWP-2585	2382	-82.15614221	33.42312059
SWP-2586	2383	-82.15596881	33.42296647
SWP-2587	2384	-82.1565036	33.42292744
SWP-2588	2385	-82.15703414	33.42293547
SWP-2589	2386	-82.1576692	33.42296916
SWP-2590	2387	-82.15841241	33.42291326
SWP-2591	2388	-82.15738127	33.42289786
SWP-2592	2389	-82.1566613	33.42288742
SWP-2593	2390	-82.15669723	33.42271373
SWP-2594	2391	-82.1542656	33.42203671
SWP-2595	2392	-82.15409058	33.42297343
SWP-2596	2393	-82.15409351	33.42290958
SWP-2597	2394	-82.15409527	33.42285134
SWP-2600	2395	-82.15409488	33.42241916
SWP-2601	2396	-82.15411711	33.42139211
SWP-2604	2397	-82.15415809	33.41929073
SWP-2605	2398	-82.15416727	33.41887713
SWP-2607	2399	-82.15407792	33.41864992
SWP-2608	2400	-82.15400495	33.4182941
SWP-2609	2401	-82.15412367	33.41777933
SWP-2610	2402	-82.15449391	33.41765244
SWP-2611	2403	-82.15463016	33.41795894
SWP-2612	2404	-82.15472542	33.41824409
SWP-2614	2405	-82.15492385	33.41796626
SWP-2615	2406	-82.15545091	33.41830448
SWP-2616	2407	-82.15573018	33.41824813
SWP-2617	2408	-82.1554485	33.4175291
SWP-2618	2409	-82.15557099	33.4177128
SWP-2619	2410	-82.15521791	33.41746868
SWP-2620	2411	-82.15437303	33.4174012
SWP-2621	2412	-82.15561447	33.41715089
SWP-2622	2413	-82.15566326	33.41701822
SWP-2623	2414	-82.15574566	33.41686413
SWP-2624	2415	-82.15584446	33.41666613
SWP-2626	2416	-82.1562004	33.41632892
SWP-2628	2417	-82.15290734	33.41619566
SWP-2630	2418	-82.15339417	33.41632474
SWP-2631	2419	-82.15339234	33.4165974
SWP-2632	2420	-82.15347894	33.4167739
SWP-2633	2421	-82.15364691	33.41615523
SWP-2634	2422	-82.15405085	33.41616232
SWP-2636	2423	-82.15430501	33.41616719
SWP-2637	2424	-82.15464597	33.41617252
SWP-2642	2425	-82.15624393	33.41619093
SWP-2643	2426	-82.15648152	33.41619481
SWP-2644	2427	-82.15792623	33.41621878
SWP-2645	2428	-82.1537651	33.41738523
SWP-2646	2429	-82.15342252	33.41738235
SWP-2647	2430	-82.15279575	33.41725468
SWP-2648	2431	-82.15311333	33.41752305
SWP-2649	2432	-82.15318955	33.41765289

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SWP-2651	2433	-82.15360147	33.41831407
SWP-2653	2434	-82.15303489	33.41996952
SWP-2655	2435	-82.15225426	33.42210825
SWP-2657	2436	-82.1505889	33.42284745
SWP-2658	2437	-82.15056123	33.42279418
SWP-2659	2438	-82.15056168	33.42270912
SWP-2660	2439	-82.15086039	33.42224792
SWP-2661	2440	-82.15123268	33.42285815
SWP-2662	2441	-82.15240365	33.42289567
SWP-2663	2442	-82.15175311	33.42287888
SWP-2664	2443	-82.15092408	33.42286376
SWP-2665	2444	-82.15039805	33.42285492
SWP-2666	2445	-82.14984583	33.42284481
SWP-2667	2446	-82.14937514	33.42283844
SWP-2668	2447	-82.1491833	33.42283922
SWP-2669	2448	-82.14908395	33.42282642
SWP-2670	2449	-82.14957885	33.42266104
SWP-2671	2450	-82.15013055	33.42278866
SWP-2672	2451	-82.15018041	33.42284155
SWP-2673	2452	-82.14912607	33.42312038
SWP-2674	2453	-82.14911428	33.42370494
SWP-2675	2454	-82.1490633	33.42348901
SWP-2676	2455	-82.14882282	33.42366695
SWP-2677	2456	-82.14859767	33.42387553
SWP-2678	2457	-82.1490587	33.42468125
SWP-2679	2458	-82.14909401	33.4245153
SWP-2680	2459	-82.14905644	33.42479069
SWP-2681	2460	-82.14817167	33.42427385
SWP-2682	2461	-82.14800312	33.42418041
SWP-2683	2462	-82.14731084	33.42427154
SWP-2686	2463	-82.14757518	33.42469886
SWP-2687	2464	-82.14757292	33.42475435
SWP-2688	2465	-82.14713311	33.42476411
SWP-2689	2466	-82.14725639	33.42407738
SWP-2690	2467	-82.14717387	33.4238624
SWP-2691	2468	-82.14722984	33.42327446
SWP-2692	2469	-82.14727865	33.42374512
SWP-2693	2470	-82.14797316	33.42375393
SWP-2694	2471	-82.14645569	33.42288885
SWP-2695	2472	-82.1470108	33.42273968
SWP-2696	2473	-82.14666831	33.42280242
SWP-2697	2474	-82.14579254	33.42280443
SWP-2699	2475	-82.14432814	33.42281702
SWP-2701	2476	-82.14400307	33.42269445
SWP-2703	2477	-82.14319034	33.42275367
SWP-2705	2478	-82.14326268	33.42291967
SWP-2706	2479	-82.14313572	33.42292906
SWP-2707	2480	-82.14334622	33.42315626
SWP-2709	2481	-82.14407581	33.42371064
SWP-2710	2482	-82.1438774	33.42365405
SWP-2711	2483	-82.14324924	33.42359806
SWP-2712	2484	-82.14405113	33.42424526
SWP-2713	2485	-82.14385853	33.42411454
SWP-2714	2486	-82.14339452	33.42414392
SWP-2715	2487	-82.14291097	33.42423731
SWP-2716	2488	-82.14240536	33.42412395
SWP-2717	2489	-82.14192237	33.42402597
SWP-2718	2490	-82.14153812	33.42401602

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SWP-2719	2491	-82.14110278	33.42400425
SWP-2720	2492	-82.14067777	33.42399741
SWP-2721	2493	-82.14029804	33.42398799
SWP-2722	2494	-82.13921809	33.42385901
SWP-2723	2495	-82.13873872	33.42397652
SWP-2724	2496	-82.13837572	33.42398834
SWP-2725	2497	-82.13818051	33.42405284
SWP-2726	2498	-82.13835066	33.42354777
SWP-2727	2499	-82.13870302	33.42355672
SWP-2728	2500	-82.13952969	33.42354097
SWP-2729	2501	-82.13953627	33.42321773
SWP-2730	2502	-82.13947395	33.42268435
SWP-2731	2503	-82.13918343	33.42295407
SWP-2732	2504	-82.13864967	33.42311847
SWP-2733	2505	-82.13986837	33.42312303
SWP-2734	2506	-82.14038413	33.42314652
SWP-2735	2507	-82.14072295	33.42317288
SWP-2736	2508	-82.14112833	33.42320361
SWP-2737	2509	-82.14154963	33.42319048
SWP-2738	2510	-82.14185736	33.42317204
SWP-2739	2511	-82.14206657	33.42324344
SWP-2740	2512	-82.14215287	33.42365211
SWP-2741	2513	-82.1419407	33.42359421
SWP-2742	2514	-82.14152469	33.42358112
SWP-2743	2515	-82.14109137	33.42354781
SWP-2744	2516	-82.14068663	33.42357933
SWP-2745	2517	-82.14031272	33.42355705
SWP-2746	2518	-82.14283581	33.42262905
SWP-2747	2519	-82.14215835	33.42260872
SWP-2748	2520	-82.14155722	33.42260135
SWP-2749	2521	-82.14125935	33.42260804
SWP-2750	2522	-82.14106641	33.42260723
SWP-2751	2523	-82.14064727	33.42260024
SWP-2752	2524	-82.14027406	33.42258833
SWP-2753	2525	-82.14004458	33.42258444
SWP-2754	2526	-82.13963078	33.42258466
SWP-2755	2527	-82.13883256	33.42254992
SWP-2756	2528	-82.14023091	33.42245009
SWP-2757	2529	-82.14040735	33.42195115
SWP-2758	2530	-82.14138526	33.42265814
SWP-2759	2531	-82.14525075	33.42302372
SWP-2760	2532	-82.14523043	33.42347342
SWP-2761	2533	-82.14519575	33.42384337
SWP-2762	2534	-82.14527145	33.42406256
SWP-2763	2535	-82.14556531	33.42415185
SWP-2764	2536	-82.14593051	33.42415778
SWP-2765	2537	-82.14614	33.42423625
SWP-2767	2538	-82.1462805	33.42467706
SWP-2768	2539	-82.14507093	33.42339208
SWP-2769	2540	-82.14541267	33.42323485
SWP-2770	2541	-82.14637652	33.4233424
SWP-2771	2542	-82.14536636	33.42371199
SWP-2772	2543	-82.14567028	33.42371648
SWP-2773	2544	-82.14600803	33.42372209
SWP-2774	2545	-82.14511858	33.42397382
SWP-2775	2546	-82.14518511	33.42416614
SWP-2776	2547	-82.14536761	33.42451762
SWP-2777	2548	-82.14520457	33.42448765

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SWP-2778	2549	-82.14521814	33.42465962
SWP-2779	2550	-82.14523108	33.42471569
SWP-2780	2551	-82.1453288	33.42473357
SWP-2781	2552	-82.14602462	33.42474503
SWP-2782	2553	-82.14504256	33.41509008
SWP-2783	2554	-82.14378186	33.41506431
SWP-2784	2555	-82.14505341	33.41468805
SWP-2785	2556	-82.14378445	33.41471116
SWP-2788	2557	-82.170983	33.41549695
SWP-2789	2558	-82.17099519	33.41597927
SWP-2791	2559	-82.12357411	33.42987734
SWP-2792	2560	-82.12361632	33.42939001
SWP-2793	2561	-82.12364012	33.42925684
SWP-2794	2562	-82.12375603	33.42915902
SWP-2795	2563	-82.12385153	33.42870291
SWP-2796	2564	-82.12385125	33.42888408
SWP-2797	2565	-82.12373894	33.42841997
SWP-2798	2566	-82.12385146	33.42833192
SWP-2799	2567	-82.12384919	33.42815315
SWP-2800	2568	-82.12384959	33.4278026
SWP-2801	2569	-82.1240286	33.42841119
SWP-2802	2570	-82.12567038	33.42837857
SWP-2803	2571	-82.12464278	33.42938989
SWP-2804	2572	-82.12587806	33.4294898
SWP-2805	2573	-82.12697648	33.42947564
SWP-2806	2574	-82.12717914	33.42995596
SWP-2808	2575	-82.12729124	33.42856485
SWP-2809	2576	-82.1274435	33.42847902
SWP-2810	2577	-82.12797621	33.4284837
SWP-2811	2578	-82.12757849	33.42881073
SWP-2812	2579	-82.12765616	33.42890997
SWP-2813	2580	-82.12778336	33.42897054
SWP-2814	2581	-82.12796008	33.4289695
SWP-2815	2582	-82.12832508	33.42889438
SWP-2816	2583	-82.12829405	33.42902376
SWP-2817	2584	-82.1282942	33.42915579
SWP-2818	2585	-82.12829409	33.42931491
SWP-2819	2586	-82.12853862	33.42961003
SWP-2820	2587	-82.12847399	33.42994429
SWP-2821	2588	-82.12830431	33.43055985
SWP-2822	2589	-82.12797491	33.43100532
SWP-2824	2590	-82.12589107	33.43233327
SWP-2825	2591	-82.12588334	33.4321847
SWP-2826	2592	-82.12576603	33.43223671
SWP-2827	2593	-82.12586957	33.43224096
SWP-2828	2594	-82.12598737	33.43223418
SWP-2829	2595	-82.12643034	33.43214549
SWP-2830	2596	-82.12557291	33.43221225
SWP-2831	2597	-82.12536174	33.43215812
SWP-2832	2598	-82.12514009	33.43206693
SWP-2833	2599	-82.12348213	33.4303246
SWP-2834	2600	-82.12520072	33.43086202
SWP-2835	2601	-82.12539642	33.43084938
SWP-2836	2602	-82.12566156	33.43087247
SWP-2837	2603	-82.12609358	33.43089356
SWP-2838	2604	-82.12708578	33.43090652
SWP-2839	2605	-82.12718979	33.43042581
SWP-2840	2606	-82.12079086	33.4285943

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SWP-2841	2607	-82.12019421	33.4287029
SWP-2842	2608	-82.12273949	33.42851339
SWP-2843	2609	-82.12142796	33.42864936
SWP-2844	2610	-82.12152056	33.42881769
SWP-2845	2611	-82.1212082	33.42814823
SWP-2846	2612	-82.12100377	33.42772931
SWP-2847	2613	-82.12083349	33.42755859
SWP-2848	2614	-82.12066462	33.42737948
SWP-2849	2615	-82.12162764	33.42671195
SWP-2850	2616	-82.12214794	33.42653782
SWP-2851	2617	-82.12124223	33.42675554
SWP-2852	2618	-82.12116267	33.42665052
SWP-2853	2619	-82.11839977	33.42947425
SWP-2854	2620	-82.1181431	33.42892342
SWP-2855	2621	-82.11784152	33.42870391
SWP-2856	2622	-82.11751261	33.42861385
SWP-2857	2623	-82.11715675	33.42861192
SWP-2858	2624	-82.11665204	33.42865963
SWP-2859	2625	-82.11623692	33.42871432
SWP-2860	2626	-82.1159515	33.42875715
SWP-2861	2627	-82.11556859	33.42880373
SWP-2862	2628	-82.11498659	33.42882222
SWP-2863	2629	-82.11516687	33.42870583
SWP-2864	2630	-82.115448	33.42869256
SWP-2865	2631	-82.11575255	33.42866784
SWP-2866	2632	-82.11609552	33.42861761
SWP-2867	2633	-82.1165033	33.42855244
SWP-2868	2634	-82.11681381	33.42851042
SWP-2869	2635	-82.11715951	33.42849154
SWP-2870	2636	-82.11786763	33.42852134
SWP-2871	2637	-82.11391515	33.42883475
SWP-2872	2638	-82.11442002	33.42886129
SWP-2873	2639	-82.11434346	33.42874133
SWP-2874	2640	-82.11404345	33.42875725
SWP-2875	2641	-82.11321421	33.42882445
SWP-2876	2642	-82.11280463	33.42877033
SWP-2877	2643	-82.11253765	33.42849964
SWP-2878	2644	-82.11251428	33.42810751
SWP-2879	2645	-82.11265702	33.42746259
SWP-2880	2646	-82.11282013	33.42736285
SWP-2881	2647	-82.11304194	33.42726285
SWP-2882	2648	-82.11374432	33.42727882
SWP-2883	2649	-82.10681474	33.42481543
SWP-2884	2650	-82.09920264	33.42394022
SWP-2885	2651	-82.0997506	33.42349583
SWP-2886	2652	-82.16388975	33.42584908
SWP-2887	2653	-82.16478766	33.42577686
SWP-2888	2654	-82.16457136	33.42578095
SWP-2889	2655	-82.16464798	33.42577922
SWP-2890	2656	-82.16192124	33.42554621
SWP-2891	2657	-82.16046245	33.42447361
SWP-2892	2658	-82.16009199	33.42474061
SWP-2893	2659	-82.15620072	33.42793458
SWP-2894	2660	-82.15571468	33.42737954
SWP-2895	2661	-82.15576007	33.42699945
SWP-2896	2662	-82.15571218	33.42688351
SWP-2897	2663	-82.15566579	33.42684867
SWP-2898	2664	-82.15555589	33.4268476

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SWP-2899	2665	-82.15541901	33.42684414
SWP-2900	2666	-82.15277743	33.42626901
SWP-2901	2667	-82.15302187	33.42634965
SWP-2902	2668	-82.15342552	33.42635565
SWP-2903	2669	-82.1538076	33.42619992
SWP-2904	2670	-82.15399131	33.42588976
SWP-2905	2671	-82.15399704	33.42567328
SWP-2907	2672	-82.15356202	33.42543828
SWP-2908	2673	-82.1545348	33.42545164
SWP-2909	2674	-82.15544993	33.42546531
SWP-2910	2675	-82.15622395	33.42547655
SWP-2911	2676	-82.15682106	33.42546215
SWP-2912	2677	-82.15747764	33.42544401
SWP-2913	2678	-82.15757571	33.42548874
SWP-2914	2679	-82.15764656	33.42547272
SWP-2916	2680	-82.15663118	33.42545986
SWP-2917	2681	-82.15580103	33.42495925
SWP-2918	2682	-82.15376697	33.42559495
SWP-2921	2683	-82.15229896	33.42559218
SWP-2922	2684	-82.15158653	33.4255767
SWP-2923	2685	-82.15090728	33.42556013
SWP-2924	2686	-82.15096143	33.4255521
SWP-2925	2687	-82.15095897	33.42547034
SWP-2926	2688	-82.15047257	33.42538992
SWP-2927	2689	-82.15049183	33.42555139
SWP-2928	2690	-82.15037079	33.42554458
SWP-2929	2691	-82.15021071	33.42554779
SWP-2930	2692	-82.14990218	33.42564585
SWP-2931	2693	-82.15078871	33.42560449
SWP-2932	2694	-82.15067975	33.42576428
SWP-2933	2695	-82.15061281	33.42595442
SWP-2934	2696	-82.15195777	33.42632394
SWP-2936	2697	-82.15165301	33.4261763
SWP-2937	2698	-82.15134964	33.42617149
SWP-2938	2699	-82.15085358	33.42618038
SWP-2939	2700	-82.15116193	33.42630556
SWP-2941	2701	-82.1514861	33.42631182
SWP-2942	2702	-82.1518092	33.42631659
SWP-2943	2703	-82.15207246	33.42624819
SWP-2944	2704	-82.15207572	33.42631993
SWP-2945	2705	-82.15213193	33.42650176
SWP-2946	2706	-82.15218561	33.42676938
SWP-2947	2707	-82.15214001	33.42890054
SWP-2949	2708	-82.15217771	33.42426732
SWP-2950	2709	-82.15192816	33.42425457
SWP-2952	2710	-82.15092923	33.42482518
SWP-2953	2711	-82.15117444	33.42482886
SWP-2954	2712	-82.15141892	33.42483314
SWP-2955	2713	-82.15165157	33.42483743
SWP-2956	2714	-82.15187201	33.42484094
SWP-2957	2715	-82.15212109	33.42484181
SWP-2958	2716	-82.15226933	33.42455918
SWP-2959	2717	-82.1522831	33.42406332
SWP-2960	2718	-82.15228735	33.42312163
SWP-2961	2719	-82.15212121	33.42334644
SWP-2962	2720	-82.15203882	33.42383287
SWP-2963	2721	-82.15061562	33.42304751
SWP-2964	2722	-82.15061598	33.42327422

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SWP-2965	2723	-82.15041154	33.42331008
SWP-2966	2724	-82.15060962	33.42355886
SWP-2967	2725	-82.15040071	33.42379804
SWP-2968	2726	-82.15040247	33.42400161
SWP-2969	2727	-82.15019523	33.42430445
SWP-2970	2728	-82.15018898	33.42455688
SWP-2971	2729	-82.15018698	33.42475779
SWP-2972	2730	-82.1503842	33.42480067
SWP-2973	2731	-82.15237078	33.41886647
SWP-2974	2732	-82.15150361	33.41886061
SWP-2975	2733	-82.15160519	33.41761892
SWP-2976	2734	-82.15247654	33.41749325
SWP-2977	2735	-82.1522532	33.4175311
SWP-2978	2736	-82.1519806	33.41756573
SWP-2979	2737	-82.15177996	33.41756323
SWP-2980	2738	-82.1513962	33.41758224
SWP-2981	2739	-82.15073496	33.41781343
SWP-2982	2740	-82.15042571	33.41820311
SWP-2983	2741	-82.15057888	33.4186735
SWP-2984	2742	-82.15057753	33.41873064
SWP-2986	2743	-82.15116828	33.41938472
SWP-2987	2744	-82.15081316	33.41923234
SWP-2988	2745	-82.15081777	33.41903332
SWP-2989	2746	-82.15081938	33.41884077
SWP-2990	2747	-82.15069828	33.41874559
SWP-2991	2748	-82.1504485	33.4187415
SWP-2992	2749	-82.15020339	33.4187238
SWP-2993	2750	-82.14937475	33.41873331
SWP-2994	2751	-82.14962589	33.41877914
SWP-2995	2752	-82.14917318	33.41922407
SWP-2996	2753	-82.15034482	33.4183325
SWP-2997	2754	-82.15064216	33.4159993
SWP-2998	2755	-82.15070161	33.41622722
SWP-2999	2756	-82.1510651	33.41647347
SWP-3000	2757	-82.15138687	33.41657252
SWP-3001	2758	-82.15092206	33.41712725
SWP-3002	2759	-82.15071281	33.41591641
SWP-3003	2760	-82.15011287	33.41779893
SWP-3004	2761	-82.150121	33.41748372
SWP-3005	2762	-82.15001278	33.41729681
SWP-3006	2763	-82.14998882	33.41698072
SWP-3007	2764	-82.1500831	33.41665157
SWP-3008	2765	-82.1500961	33.41646236
SWP-3009	2766	-82.15006521	33.4163208
SWP-3010	2767	-82.149969	33.41624813
SWP-3011	2768	-82.14969134	33.4162037
SWP-3012	2769	-82.14926426	33.41617716
SWP-3013	2770	-82.14884951	33.41616827
SWP-3014	2771	-82.14911761	33.41598424
SWP-3016	2772	-82.14848129	33.41714642
SWP-3017	2773	-82.14868561	33.41708964
SWP-3018	2774	-82.14900574	33.41713852
SWP-3019	2775	-82.14856159	33.41691475
SWP-3020	2776	-82.14863186	33.41646159
SWP-3021	2777	-82.14827121	33.41614332
SWP-3023	2778	-82.14781347	33.41611832
SWP-3026	2779	-82.14703014	33.41606612
SWP-3027	2780	-82.14749666	33.4166416

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SWP-3028	2781	-82.14759462	33.41640964
SWP-3029	2782	-82.1476619	33.41621786
SWP-3030	2783	-82.14772878	33.41600713
SWP-3031	2784	-82.14756742	33.41572679
SWP-3032	2785	-82.14742792	33.41533109
SWP-3033	2786	-82.14804522	33.41568603
SWP-3034	2787	-82.14801528	33.41544189
SWP-3035	2788	-82.14797958	33.41517636
SWP-3036	2789	-82.14698688	33.41606109
SWP-3037	2790	-82.14701875	33.41584745
SWP-3038	2791	-82.15246729	33.41806793
SWP-3039	2792	-82.1524213	33.41777951
SWP-3040	2793	-82.15242778	33.41723816
SWP-3041	2794	-82.15233573	33.41653346
SWP-3042	2795	-82.15262309	33.41600577
SWP-3043	2796	-82.15396275	33.41560623
SWP-3044	2797	-82.13465334	33.40646076
SWP-3045	2798	-82.16136307	33.41808612
SWP-3046	2799	-82.1611962	33.41799868
SWP-3047	2800	-82.15966671	33.41856432
SWP-3048	2801	-82.15960026	33.41839358
SWP-3049	2802	-82.15960413	33.41818937
SWP-3050	2803	-82.16094462	33.41594044
SWP-3051	2804	-82.16070515	33.4186652
SWP-3052	2805	-82.17299625	33.4149046
SWP-3053	2806	-82.17288114	33.41481143
SWP-3054	2807	-82.17243394	33.41480324
SWP-3055	2808	-82.17171243	33.41479425
SWP-3056	2809	-82.17112586	33.41478632
SWP-3057	2810	-82.17088761	33.41478219
SWP-3058	2811	-82.17074988	33.41478089
SWP-3059	2812	-82.17075859	33.41491339
SWP-3060	2813	-82.17004059	33.41511183
SWP-3061	2814	-82.17113013	33.41407821
SWP-3062	2815	-82.16918512	33.41617797
SWP-3063	2816	-82.16939811	33.4161072
SWP-3064	2817	-82.16945227	33.41600334
SWP-3067	2818	-82.16611396	33.41714562
SWP-3068	2819	-82.16261559	33.41850308
SWP-3069	2820	-82.15627495	33.4152107
SWP-3070	2821	-82.17054261	33.4232144
SWP-3071	2822	-82.17018485	33.42302551
SWP-3072	2823	-82.14601113	33.4174869
SWP-3073	2824	-82.13663352	33.40454509
SWP-3074	2825	-82.13628686	33.40476634
SWP-3075	2826	-82.13580957	33.40506957
SWP-3076	2827	-82.13547043	33.40528485
SWP-3077	2828	-82.13536755	33.40535075
SWP-3078	2829	-82.1345863	33.4058477
SWP-3079	2830	-82.13512859	33.40491386
SWP-3080	2831	-82.13485593	33.40463731
SWP-3081	2832	-82.13644616	33.40626726
SWP-3082	2833	-82.13697536	33.40592638
SWP-3083	2834	-82.1375625	33.4055463
SWP-3084	2835	-82.13804009	33.40524316
SWP-3085	2836	-82.13902575	33.40461393
SWP-3086	2837	-82.13900405	33.40426237
SWP-3087	2838	-82.1383843	33.40357815

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SWP-3088	2839	-82.13983772	33.40369714
SWP-3089	2840	-82.13965998	33.40350091
SWP-3090	2841	-82.13818622	33.40355464
SWP-3091	2842	-82.13844231	33.41093064
SWP-3092	2843	-82.13814256	33.410752
SWP-3093	2844	-82.13803767	33.41070283
SWP-3094	2845	-82.13785924	33.41061909
SWP-3095	2846	-82.13758908	33.41051646
SWP-3096	2847	-82.13716878	33.41033229
SWP-3097	2848	-82.13662639	33.41006371
SWP-3098	2849	-82.13645149	33.40997834
SWP-3099	2850	-82.13627672	33.40989166
SWP-3100	2851	-82.13611217	33.40980851
SWP-3101	2852	-82.13571559	33.40953605
SWP-3102	2853	-82.13540543	33.40900864
SWP-3104	2854	-82.13473493	33.40850362
SWP-3105	2855	-82.1345825	33.40831686
SWP-3106	2856	-82.13422016	33.40765155
SWP-3107	2857	-82.13380483	33.40743522
SWP-3108	2858	-82.12917564	33.41379739
SWP-3109	2859	-82.12909161	33.4137071
SWP-3110	2860	-82.12897737	33.41358024
SWP-3111	2861	-82.13194494	33.4155757
SWP-3112	2862	-82.13163917	33.41561122
SWP-3113	2863	-82.13124718	33.4156546
SWP-3114	2864	-82.13096257	33.41569227
SWP-3115	2865	-82.13092548	33.41624566
SWP-3116	2866	-82.13108482	33.41625018
SWP-3117	2867	-82.13135985	33.41627013
SWP-3118	2868	-82.13158071	33.41632611
SWP-3119	2869	-82.13167314	33.41646808
SWP-3120	2870	-82.13170411	33.41672345
SWP-3121	2871	-82.13156141	33.4170168
SWP-3122	2872	-82.13107993	33.41713674
SWP-3123	2873	-82.13153951	33.4172928
SWP-3124	2874	-82.13166421	33.41754619
SWP-3125	2875	-82.13174281	33.41776001
SWP-3126	2876	-82.13133202	33.41748014
SWP-3127	2877	-82.13036927	33.4174725
SWP-3128	2878	-82.13020347	33.41736651
SWP-3129	2879	-82.13019674	33.41756186
SWP-3130	2880	-82.13018825	33.41778136
SWP-3131	2881	-82.13020462	33.41820873
SWP-3132	2882	-82.13433631	33.41677243
SWP-3133	2883	-82.13472959	33.41655912
SWP-3134	2884	-82.1371315	33.41625166
SWP-3135	2885	-82.13678053	33.41654568
SWP-3136	2886	-82.13607945	33.41699216
SWP-3137	2887	-82.13568418	33.41724564
SWP-3138	2888	-82.13540689	33.41821424
SWP-3139	2889	-82.13740164	33.41838811
SWP-3140	2890	-82.13627035	33.41838091
SWP-3141	2891	-82.135514	33.41836782
SWP-3142	2892	-82.13518631	33.41836257
SWP-3143	2893	-82.13476053	33.41835471
SWP-3144	2894	-82.13441313	33.41834404
SWP-3145	2895	-82.13353388	33.4182968
SWP-3146	2896	-82.13855163	33.4225544

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SWP-3147	2897	-82.13826723	33.4225469
SWP-3148	2898	-82.13701075	33.42252064
SWP-3149	2899	-82.13576784	33.42249589
SWP-3150	2900	-82.13668181	33.42251731
SWP-3151	2901	-82.13716944	33.42265781
SWP-3152	2902	-82.13713136	33.42273405
SWP-3153	2903	-82.13715042	33.42280846
SWP-3154	2904	-82.13772824	33.42270811
SWP-3155	2905	-82.13714117	33.42318083
SWP-3156	2906	-82.13769956	33.42379188
SWP-3157	2907	-82.13638291	33.42380877
SWP-3158	2908	-82.13627588	33.42376271
SWP-3159	2909	-82.13629232	33.42292394
SWP-3160	2910	-82.13632838	33.42266817
SWP-3161	2911	-82.13537305	33.42513204
SWP-3162	2912	-82.13554633	33.42150157
SWP-3163	2913	-82.13553919	33.42178495
SWP-3164	2914	-82.13679295	33.42139412
SWP-3165	2915	-82.13670707	33.42128348
SWP-3166	2916	-82.13697803	33.42128664
SWP-3167	2917	-82.1373279	33.42129249
SWP-3168	2918	-82.13795431	33.42130356
SWP-3169	2919	-82.13487215	33.42246029
SWP-3170	2920	-82.13191229	33.42109915
SWP-3171	2921	-82.13245634	33.42125928
SWP-3172	2922	-82.13148214	33.42094865
SWP-3173	2923	-82.13185494	33.42102065
SWP-3174	2924	-82.13267625	33.42123065
SWP-3175	2925	-82.13376115	33.42084322
SWP-3176	2926	-82.13502957	33.41975757
SWP-3178	2927	-82.16328938	33.422231
SWP-3179	2928	-82.11638446	33.40066092
SWP-3180	2929	-82.11669976	33.39976433
SWP-3181	2930	-82.1192643	33.39796079
SWP-3182	2931	-82.11916839	33.39745491
SWP-3183	2932	-82.11853077	33.39812526
SWP-3184	2933	-82.11839044	33.39799023
SWP-3185	2934	-82.11761644	33.39803876
SWP-3186	2935	-82.11738498	33.39809174
SWP-3187	2936	-82.11789488	33.3975955
SWP-3188	2937	-82.11871802	33.3982593
SWP-3189	2938	-82.11697602	33.39759324
SWP-3190	2939	-82.11666694	33.39733824
SWP-3191	2940	-82.11633964	33.39717697
SWP-3192	2941	-82.11702406	33.39658333
SWP-3193	2942	-82.11635574	33.3970861
SWP-3194	2943	-82.11573609	33.3967732
SWP-3195	2944	-82.11545398	33.39704431
SWP-3196	2945	-82.11584736	33.39787791
SWP-3197	2946	-82.11516381	33.39730999
SWP-3198	2947	-82.11487048	33.39756024
SWP-3199	2948	-82.1145758	33.39780972
SWP-3200	2949	-82.11397385	33.39831892
SWP-3201	2950	-82.11514708	33.39828296
SWP-3202	2951	-82.11581064	33.39652862
SWP-3203	2952	-82.11580741	33.39664671
SWP-3204	2953	-82.11674441	33.39577264
SWP-3205	2954	-82.11881044	33.39507894

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SWP-3206	2955	-82.11863785	33.39507069
SWP-3207	2956	-82.11901203	33.3948306
SWP-3208	2957	-82.11885838	33.39500353
SWP-3209	2958	-82.11832911	33.39459381
SWP-3210	2959	-82.11961899	33.39540423
SWP-3211	2960	-82.11977415	33.39592986
SWP-3212	2961	-82.12019977	33.39647001
SWP-3213	2962	-82.12186628	33.39794662
SWP-3214	2963	-82.12189372	33.39813924
SWP-3215	2964	-82.12206512	33.39832982
SWP-3216	2965	-82.12226981	33.39855619
SWP-3217	2966	-82.12281856	33.39883491
SWP-3218	2967	-82.12246944	33.39844989
SWP-3219	2968	-82.12225423	33.39821261
SWP-3220	2969	-82.12183238	33.39774645
SWP-3221	2970	-82.12154582	33.39775568
SWP-3222	2971	-82.12122157	33.3973984
SWP-3223	2972	-82.12076614	33.39689926
SWP-3224	2973	-82.13201819	33.39604366
SWP-3225	2974	-82.13128732	33.39651897
SWP-3226	2975	-82.12979563	33.39747007
SWP-3227	2976	-82.13015882	33.3976621
SWP-3228	2977	-82.13008855	33.39813007
SWP-3229	2978	-82.12992771	33.39844856
SWP-3230	2979	-82.13083304	33.39920254
SWP-3231	2980	-82.12836606	33.39878229
SWP-3232	2981	-82.12819205	33.39868231
SWP-3233	2982	-82.12789618	33.3985775
SWP-3234	2983	-82.12826603	33.39915794
SWP-3235	2984	-82.12590498	33.39984426
SWP-3236	2985	-82.12767255	33.4016873
SWP-3237	2986	-82.13199798	33.40237778
SWP-3238	2987	-82.13147796	33.4022675
SWP-3239	2988	-82.13082049	33.40211872
SWP-3240	2989	-82.13035969	33.40201632
SWP-3241	2990	-82.12881069	33.40228902
SWP-3242	2991	-82.12861428	33.40240086
SWP-3243	2992	-82.12954919	33.40211372
SWP-3244	2993	-82.1296124	33.40229818
SWP-3245	2994	-82.12979992	33.40256318
SWP-3246	2995	-82.13020392	33.40291152
SWP-3247	2996	-82.13046063	33.40327843
SWP-3248	2997	-82.13034073	33.40363914
SWP-3249	2998	-82.1305203	33.40411987
SWP-3250	2999	-82.13110208	33.40435715
SWP-3251	3000	-82.13141775	33.40436615
SWP-3252	3001	-82.13139028	33.40487914
SWP-3253	3002	-82.1322217	33.40242937
SWP-3254	3003	-82.13247647	33.40248983
SWP-3255	3004	-82.13285416	33.40256652
SWP-3256	3005	-82.13324142	33.4026342
SWP-3257	3006	-82.12822058	33.40650428
SWP-3258	3007	-82.12774456	33.40703881
SWP-3259	3008	-82.12784977	33.40715881
SWP-3260	3009	-82.12798341	33.40730749
SWP-3261	3010	-82.12820168	33.4075482
SWP-3262	3011	-82.12919943	33.40810871
SWP-3263	3012	-82.12969717	33.40779195

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SWP-3264	3013	-82.13057002	33.40770963
SWP-3265	3014	-82.13111596	33.40831142
SWP-3266	3015	-82.13197947	33.40926181
SWP-3267	3016	-82.13310487	33.40941163
SWP-3268	3017	-82.13376759	33.40897417
SWP-3269	3018	-82.13394406	33.40886248
SWP-3270	3019	-82.13405822	33.4087979
SWP-3271	3020	-82.13418152	33.40872592
SWP-3272	3021	-82.13982997	33.42463054
SWP-3273	3022	-82.13976914	33.42466763
SWP-3274	3023	-82.13963878	33.4246659
SWP-3275	3024	-82.13930925	33.42464471
SWP-3276	3025	-82.14164298	33.42466121
SWP-3277	3026	-82.14170865	33.42460033
SWP-3278	3027	-82.14358346	33.42465364
SWP-3279	3028	-82.14328985	33.42470962
SWP-3280	3029	-82.14279317	33.42470269
SWP-3281	3030	-82.14239898	33.42469642
SWP-3282	3031	-82.14192849	33.42468823
SWP-3283	3032	-82.14133275	33.42467828
SWP-3284	3033	-82.14108181	33.42465114
SWP-3285	3034	-82.14117112	33.424592
SWP-3286	3035	-82.14262905	33.42523184
SWP-3287	3036	-82.14195836	33.42522259
SWP-3288	3037	-82.14125232	33.4252122
SWP-3289	3038	-82.14060355	33.42520308
SWP-3290	3039	-82.14007763	33.42519454
SWP-3291	3040	-82.13975347	33.42517884
SWP-3292	3041	-82.13962793	33.42517595
SWP-3293	3042	-82.13930306	33.42518071
SWP-3294	3043	-82.13841051	33.42527382
SWP-3295	3044	-82.13841172	33.42552976
SWP-3296	3045	-82.13859121	33.42574985
SWP-3297	3046	-82.13890384	33.42582664
SWP-3298	3047	-82.13903794	33.42605971
SWP-3299	3048	-82.13903174	33.42636842
SWP-3300	3049	-82.13903913	33.42669115
SWP-3301	3050	-82.13923692	33.42705915
SWP-3302	3051	-82.13977559	33.42776726
SWP-3303	3052	-82.13980652	33.42769917
SWP-3304	3053	-82.13869576	33.42735386
SWP-3305	3054	-82.139572	33.4276987
SWP-3306	3055	-82.13915658	33.42749259
SWP-3307	3056	-82.13835899	33.42723865
SWP-3308	3057	-82.13826253	33.42715923
SWP-3309	3058	-82.13780837	33.42698268
SWP-3310	3059	-82.13790336	33.42679713
SWP-3311	3060	-82.13809477	33.42663425
SWP-3312	3061	-82.13790942	33.4264978
SWP-3313	3062	-82.13926555	33.42689297
SWP-3314	3063	-82.14007765	33.42690897
SWP-3315	3064	-82.13996105	33.4279392
SWP-3316	3065	-82.14024126	33.42805697
SWP-3317	3066	-82.14059395	33.42819821
SWP-3318	3067	-82.14110441	33.42837255
SWP-3319	3068	-82.14143018	33.42844882
SWP-3320	3069	-82.14161108	33.42847904
SWP-3321	3070	-82.1417505	33.42845998

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SWP-3322	3071	-82.14203461	33.42670971
SWP-3323	3072	-82.14082306	33.42755565
SWP-3324	3073	-82.14148806	33.42750445
SWP-3325	3074	-82.1416863	33.42729263
SWP-3326	3075	-82.14167959	33.42693136
SWP-3327	3076	-82.14036661	33.42727509
SWP-3328	3077	-82.1403732	33.42686628
SWP-3329	3078	-82.14035074	33.42641196
SWP-3330	3079	-82.14061213	33.42595116
SWP-3331	3080	-82.14132449	33.42575868
SWP-3332	3081	-82.14088334	33.42563077
SWP-3333	3082	-82.14124134	33.42538945
SWP-3335	3083	-82.14335819	33.42640374
SWP-3336	3084	-82.14299398	33.42662762
SWP-3337	3085	-82.1433124	33.42701596
SWP-3338	3086	-82.14381817	33.42717351
SWP-3339	3087	-82.14420196	33.42717285
SWP-3340	3088	-82.1445467	33.42720621
SWP-3342	3089	-82.14426495	33.42660237
SWP-3343	3090	-82.14448847	33.42693636
SWP-3344	3091	-82.14488468	33.42693499
SWP-3345	3092	-82.14517662	33.42689974
SWP-3346	3093	-82.14541092	33.42690471
SWP-3347	3094	-82.14530762	33.42679292
SWP-3348	3095	-82.14543939	33.42658632
SWP-3349	3096	-82.14558778	33.42630883
SWP-3350	3097	-82.14559985	33.42595402
SWP-3351	3098	-82.14564656	33.42538418
SWP-3352	3099	-82.14563009	33.42551054
SWP-3353	3100	-82.14547302	33.42554486
SWP-3354	3101	-82.14710066	33.42540695
SWP-3355	3102	-82.14710117	33.42552159
SWP-3356	3103	-82.1470807	33.42561958
SWP-3357	3104	-82.14704183	33.42599419
SWP-3358	3105	-82.15129667	33.42481462
SWP-3359	3106	-82.15520365	33.42485206
SWP-3360	3107	-82.15441721	33.42458467
SWP-3361	3108	-82.154431	33.42397696
SWP-3362	3109	-82.15443739	33.42289603
SWP-3363	3110	-82.15473914	33.42334827
SWP-3364	3111	-82.15453319	33.42294036
SWP-3365	3112	-82.15513219	33.42279757
SWP-3369	3113	-82.15327579	33.42289057
SWP-3370	3114	-82.13550544	33.4093702
SWP-3371	3115	-82.15131448	33.43549011
SWP-3372	3116	-82.15115048	33.43423615
SWP-3373	3117	-82.1289507	33.42753829
SWP-3374	3118	-82.12894937	33.42685229
SWP-3375	3119	-82.12897061	33.42669915
SWP-3376	3120	-82.12937903	33.4266369
SWP-3377	3121	-82.12966102	33.42664219
SWP-3378	3122	-82.12910961	33.42663102
SWP-3379	3123	-82.12918607	33.42658894
SWP-3380	3124	-82.12857689	33.42660779
SWP-3381	3125	-82.12805145	33.42659521
SWP-3382	3126	-82.12739585	33.42661279
SWP-3383	3127	-82.1272912	33.42664777
SWP-3384	3128	-82.12748253	33.42639242

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SWP-3385	3129	-82.1274752	33.42584027
SWP-3386	3130	-82.12717352	33.42568279
SWP-3387	3131	-82.12707836	33.42563259
SWP-3388	3132	-82.1275073	33.42553751
SWP-3389	3133	-82.12765361	33.4254672
SWP-3390	3134	-82.1280495	33.4253767
SWP-3391	3135	-82.12872233	33.42529765
SWP-3392	3136	-82.12928564	33.42526123
SWP-3393	3137	-82.12998049	33.42515227
SWP-3394	3138	-82.13000071	33.42525807
SWP-3395	3139	-82.1303697	33.42536479
SWP-3396	3140	-82.12998705	33.42502187
SWP-3397	3141	-82.12999874	33.42475411
SWP-3398	3142	-82.13001683	33.42449374
SWP-3399	3143	-82.13012338	33.42347789
SWP-3400	3144	-82.12666333	33.4275722
SWP-3401	3145	-82.12910561	33.42892796
SWP-3402	3146	-82.12912924	33.42852653
SWP-3403	3147	-82.12850142	33.42852104
SWP-3404	3148	-82.12847657	33.42824339
SWP-3405	3149	-82.14547629	33.42648379
SWP-3406	3150	-82.14537378	33.42631632
SWP-3407	3151	-82.14537534	33.42605741
SWP-3408	3152	-82.14588947	33.42652768
SWP-3409	3153	-82.14628531	33.42650081
SWP-3410	3154	-82.14666608	33.42614738
SWP-3411	3155	-82.14648132	33.42614649
SWP-3412	3156	-82.14624632	33.42614502
SWP-3413	3157	-82.14604109	33.42578229
SWP-3414	3158	-82.14628304	33.42578641
SWP-3415	3159	-82.14678765	33.42582782
SWP-3416	3160	-82.14667517	33.42578368
SWP-3417	3161	-82.14670153	33.42596599
SWP-3418	3162	-82.1467	33.42632727
SWP-3419	3163	-82.14670099	33.42657721
SWP-3420	3164	-82.14669825	33.42672665
SWP-3421	3165	-82.14659498	33.42687613
SWP-3422	3166	-82.14622164	33.42701573
SWP-3425	3167	-82.14681918	33.42791427
SWP-3426	3168	-82.14651787	33.42792546
SWP-3427	3169	-82.14627596	33.42788913
SWP-3428	3170	-82.14612814	33.42788592
SWP-3429	3171	-82.14590331	33.42792742
SWP-3430	3172	-82.1455861	33.42798373
SWP-3431	3173	-82.14511175	33.42811707
SWP-3432	3174	-82.14464579	33.42832344
SWP-3433	3175	-82.1443818	33.42841142
SWP-3434	3176	-82.14418391	33.42848921
SWP-3435	3177	-82.14364752	33.42853357
SWP-3436	3178	-82.14326601	33.42848002
SWP-3437	3179	-82.14275686	33.42847507
SWP-3438	3180	-82.14270811	33.42844921
SWP-3439	3181	-82.14472843	33.43085935
SWP-3440	3182	-82.1462567	33.42764287
SWP-3441	3183	-82.13395641	33.42499448
SWP-3442	3184	-82.13294409	33.42440073
SWP-3443	3185	-82.17398501	33.40587367
SWP-3444	3186	-82.17328826	33.40566486

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SWP-3445	3187	-82.17307812	33.40559553
SWP-3446	3188	-82.17276409	33.40558684
SWP-3447	3189	-82.17248792	33.4054839
SWP-3448	3190	-82.17218874	33.40530322
SWP-3449	3191	-82.17192798	33.40513853
SWP-3450	3192	-82.17129385	33.40457843
SWP-3451	3193	-82.14839021	33.42379731
SWP-3452	3194	-82.14843885	33.4237749
SWP-3453	3195	-82.14817799	33.42281184
SWP-3454	3196	-82.1483182	33.42287048
SWP-3455	3197	-82.14701566	33.42279458
SWP-3456	3198	-82.14767084	33.4255615
SWP-3457	3199	-82.1478531	33.4255553
SWP-3458	3200	-82.14793899	33.42557784
SWP-3459	3201	-82.14793854	33.42567438
SWP-3460	3202	-82.1479402	33.42584036
SWP-3461	3203	-82.14795101	33.4263203
SWP-3463	3204	-82.14886499	33.42679865
SWP-3464	3205	-82.14783134	33.42650578
SWP-3465	3206	-82.1477851	33.4262849
SWP-3466	3207	-82.14773913	33.42606553
SWP-3467	3208	-82.14774123	33.42596955
SWP-3468	3209	-82.14766805	33.42585383
SWP-3469	3210	-82.1475909	33.42563225
SWP-3470	3211	-82.14875795	33.42765495
SWP-3471	3212	-82.14758288	33.42782937
SWP-3472	3213	-82.14738319	33.42791275
SWP-3473	3214	-82.14487984	33.42822858
SWP-3474	3215	-82.14288859	33.42754294
SWP-3475	3216	-82.1783251	33.4135292
SWP-3476	3217	-82.1761137	33.41229949
SWP-3477	3218	-82.1765454	33.41230409
SWP-3478	3219	-82.17722064	33.41226734
SWP-3479	3220	-82.17764258	33.41221863
SWP-3480	3221	-82.17799053	33.41222201
SWP-3481	3222	-82.17841144	33.41218206
SWP-3483	3223	-82.17986427	33.41226785
SWP-3484	3224	-82.17177126	33.41229835
SWP-3485	3225	-82.17159639	33.41170242
SWP-3486	3226	-82.17176595	33.41102326
SWP-3487	3227	-82.17173223	33.41070863
SWP-3488	3228	-82.17165716	33.41053035
SWP-3489	3229	-82.17120113	33.41017601
SWP-3490	3230	-82.17097465	33.41041328
SWP-3491	3231	-82.17108655	33.41082208
SWP-3492	3232	-82.17084007	33.41103748
SWP-3493	3233	-82.17277633	33.41186436
SWP-3494	3234	-82.17278533	33.41142728
SWP-3495	3235	-82.17096346	33.40915544
SWP-3496	3236	-82.17126789	33.40948725
SWP-3497	3237	-82.1719887	33.409531
SWP-3498	3238	-82.17138735	33.40874348
SWP-3499	3239	-82.17178726	33.40876624
SWP-3500	3240	-82.1709913	33.40881328
SWP-3501	3241	-82.17099062	33.40875402
SWP-3502	3242	-82.17094659	33.40875214
SWP-3503	3243	-82.17084687	33.40873126
SWP-3504	3244	-82.1700828	33.40863571

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SWP-3506	3245	-82.16851348	33.4085914
SWP-3508	3246	-82.1687825	33.40878114
SWP-3509	3247	-82.16849629	33.40882173
SWP-3510	3248	-82.1679652	33.4095497
SWP-3511	3249	-82.16875162	33.4092016
SWP-3512	3250	-82.16882217	33.40931749
SWP-3513	3251	-82.16901009	33.4098813
SWP-3514	3252	-82.16913577	33.4097565
SWP-3515	3253	-82.16908878	33.40980696
SWP-3516	3254	-82.16954484	33.41019086
SWP-3517	3255	-82.1705426	33.41164527
SWP-3518	3256	-82.1703906	33.41147742
SWP-3519	3257	-82.16939352	33.40841496
SWP-3520	3258	-82.17181909	33.40733333
SWP-3521	3259	-82.16763913	33.40725476
SWP-3522	3260	-82.16764458	33.40705398
SWP-3523	3261	-82.16760757	33.40680887
SWP-3524	3262	-82.16749936	33.40661935
SWP-3525	3263	-82.16727066	33.40647512
SWP-3526	3264	-82.16691451	33.40605509
SWP-3527	3265	-82.17088403	33.41008653
SWP-3528	3266	-82.17091191	33.40944576
SWP-3529	3267	-82.17847659	33.40885756
SWP-3531	3268	-82.17933149	33.40887394
SWP-3532	3269	-82.18041278	33.40896065
SWP-3533	3270	-82.18097381	33.40917271
SWP-3534	3271	-82.12026153	33.41123309
SWP-3535	3272	-82.12019357	33.41134632
SWP-3536	3273	-82.1201716	33.41155841
SWP-3537	3274	-82.12030925	33.41177407
SWP-3538	3275	-82.1204999	33.41197554
SWP-3539	3276	-82.12062052	33.41213504
SWP-3540	3277	-82.12015448	33.41243516
SWP-3541	3278	-82.11852724	33.41236957
SWP-3542	3279	-82.11849403	33.41251744
SWP-3543	3280	-82.11840502	33.41281166
SWP-3544	3281	-82.11788415	33.41282773
SWP-3545	3282	-82.11728116	33.41256882
SWP-3546	3283	-82.11706241	33.4124674
SWP-3547	3284	-82.11629391	33.41250132
SWP-3548	3285	-82.11689462	33.41164342
SWP-3549	3286	-82.11683927	33.41168142
SWP-3550	3287	-82.11696744	33.41168471
SWP-3551	3288	-82.11659602	33.41154967
SWP-3552	3289	-82.11626439	33.41148809
SWP-3553	3290	-82.11623094	33.41035605
SWP-3554	3291	-82.11555817	33.41028908
SWP-3555	3292	-82.11727318	33.41161661
SWP-3556	3293	-82.1188308	33.41086419
SWP-3557	3294	-82.11926687	33.41059838
SWP-3558	3295	-82.11983547	33.41053463
SWP-3559	3296	-82.1194826	33.41057129
SWP-3560	3297	-82.1219989	33.41083116
SWP-3561	3298	-82.12179138	33.41088918
SWP-3562	3299	-82.1259046	33.40393144
SWP-3563	3300	-82.12549225	33.40408447
SWP-3564	3301	-82.12515377	33.40371146
SWP-3565	3302	-82.12488083	33.40341104

2025 Fort Gordon Pipe Inventory

SWP-3566	3303	-82.1248228	33.40334717
SWP-3567	3304	-82.12465921	33.40316598
SWP-3568	3305	-82.12453525	33.40305371
SWP-3569	3306	-82.12444923	33.40293435
SWP-3570	3307	-82.12413108	33.40259399
SWP-3571	3308	-82.12387632	33.40240746
SWP-3572	3309	-82.12386931	33.40231551
SWP-3573	3310	-82.12381559	33.4022448
SWP-3574	3311	-82.12374253	33.40215645
SWP-3575	3312	-82.12315507	33.40152232
SWP-3576	3313	-82.12368954	33.40241345
SWP-3577	3314	-82.12351892	33.40271257
SWP-3578	3315	-82.12452722	33.40183629
SWP-3579	3316	-82.12488987	33.40186572
SWP-3580	3317	-82.12526884	33.40216958
SWP-3581	3318	-82.12528524	33.40234481
SWP-3582	3319	-82.1252431	33.40250292
SWP-3583	3320	-82.11983374	33.40022463
SWP-3584	3321	-82.11970555	33.40011539
SWP-3585	3322	-82.13286432	33.41460826
SWP-3586	3323	-82.12657587	33.40005701
SWP-3587	3324	-82.17422882	33.41896344
SWP-3589	3325	-82.13063596	33.41302463
SWP-3590	3326	-82.13054567	33.41290851
SWP-3591	3327	-82.13133068	33.4129122
SWP-3592	3328	-82.13258029	33.40992492
SWP-3593	3329	-82.138281	33.41366605
SWP-3594	3330	-82.13846391	33.4138054
SWP-3595	3331	-82.13829628	33.41380289
SWP-3596	3332	-82.13874395	33.41455173
SWP-3597	3333	-82.13845855	33.4149427
SWP-3598	3334	-82.13798341	33.41569752
SWP-3599	3335	-82.13774338	33.41593085
SWP-3602	3336	-82.13859111	33.41516367
SWP-3603	3337	-82.13878125	33.41485078
SWP-3604	3338	-82.13904454	33.41459591
SWP-3605	3339	-82.13807854	33.4125213
SWP-3606	3340	-82.13842199	33.41205849
SWP-3607	3341	-82.13880089	33.4119391
SWP-3608	3342	-82.13602148	33.41339736
SWP-3609	3343	-82.13583756	33.41360807
SWP-3610	3344	-82.13608134	33.41386951
SWP-3611	3345	-82.13628207	33.41409027
SWP-3612	3346	-82.13634997	33.4137351
SWP-3613	3347	-82.13718962	33.41471011
SWP-3614	3348	-82.13741129	33.41529886
SWP-3615	3349	-82.15777835	33.41405543
SWP-3616	3350	-82.13549621	33.42369122
SWP-3618	3351	-82.1398398	33.41843241
SWP-3619	3352	-82.1399603	33.41843436
SWP-3620	3353	-82.13451836	33.41618394
SWP-3621	3354	-82.17632975	33.40601137
SWP-3622	3355	-82.17203188	33.4042855
SWP-3623	3356	-82.15234559	33.41881941
SWP-3624	3357	-82.15233067	33.41942452
SWP-3625	3358	-82.15232697	33.41934752
SWP-3626	3359	-82.1602513	33.42294153
SWP-3629	3360	-82.14931355	33.4088399

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SWP-3630	3361	-82.14955553	33.40945112
SWP-3631	3362	-82.14950237	33.4103347
SWP-3632	3363	-82.14883823	33.41115619
SWP-3633	3364	-82.14809533	33.41169769
SWP-3634	3365	-82.13638484	33.42909925
SWP-3635	3366	-82.13580303	33.42968075
SWP-3636	3367	-82.13583902	33.42973352
SWP-3637	3368	-82.13630783	33.42801124
SWP-3638	3369	-82.13574092	33.427967
SWP-3639	3370	-82.1363193	33.42793096
SWP-3640	3371	-82.13647992	33.4275176
SWP-3641	3372	-82.1364018	33.42753833
SWP-3642	3373	-82.13531965	33.42733157
SWP-3643	3374	-82.13524724	33.42752347
SWP-3644	3375	-82.13421639	33.42818449
SWP-3645	3376	-82.13848368	33.41866354
SWP-3647	3377	-82.13129128	33.42623159
SWP-3648	3378	-82.13155007	33.42922913
SWP-3649	3379	-82.13515603	33.42990461
SWP-3650	3380	-82.13434805	33.42992682
SWP-3651	3381	-82.1346957	33.42986948
SWP-3652	3382	-82.13252042	33.42865977
SWP-3653	3383	-82.13249118	33.42900529
SWP-3654	3384	-82.13423053	33.4267405
SWP-3655	3385	-82.13505488	33.42673835
SWP-3656	3386	-82.13242707	33.42935114
SWP-3659	3387	-82.17116784	33.41605981
SWP-3660	3388	-82.17218787	33.41603207
SWP-3661	3389	-82.12709267	33.42032076
SWP-3662	3390	-82.12699076	33.41998016
SWP-3663	3391	-82.12684662	33.41985525
SWP-3664	3392	-82.12664843	33.41969895
SWP-3665	3393	-82.12638651	33.41960931
SWP-3666	3394	-82.12649919	33.41959682
SWP-3667	3395	-82.12578676	33.41818753
SWP-3668	3396	-82.12514499	33.41897345
SWP-3669	3397	-82.12541172	33.41882155
SWP-3670	3398	-82.12555205	33.41809213
SWP-3671	3399	-82.12453939	33.41732927
SWP-3672	3400	-82.1242767	33.41708361
SWP-3673	3401	-82.12414456	33.41671212
SWP-3674	3402	-82.1254935	33.41687174
SWP-3675	3403	-82.1233064	33.42017172
SWP-3676	3404	-82.12281738	33.4204846
SWP-3677	3405	-82.12166382	33.42051582
SWP-3678	3406	-82.12191555	33.42054589
SWP-3679	3407	-82.12126563	33.42032752
SWP-3680	3408	-82.1209245	33.41997049
SWP-3681	3409	-82.12081401	33.41953923
SWP-3682	3410	-82.12094506	33.41904755
SWP-3683	3411	-82.12145275	33.41868848
SWP-3684	3412	-82.1220016	33.41841359
SWP-3685	3791	-82.12131414	33.42086006
SWP-3686	3413	-82.13339612	33.42885594
SWP-3687	3414	-82.13406637	33.42842879
SWP-3688	3415	-82.13513863	33.42949866
SWP-3689	3416	-82.13280206	33.42992197
SWP-3690	3417	-82.13280345	33.42982939

2025 Fort Gordon Pipe Inventory

SWP-3691	3418	-82.13265727	33.42984537
SWP-3692	3419	-82.13427066	33.43010938
SWP-3693	3420	-82.13553578	33.42998954
SWP-3694	3421	-82.13629802	33.40847825
SWP-3695	3422	-82.13644995	33.40823213
SWP-3696	3423	-82.13801146	33.41839595
SWP-3697	3424	-82.16388413	33.42251515
SWP-3698	3425	-82.16533013	33.42230008
SWP-3700	3426	-82.14158294	33.41838868
SWP-3701	3427	-82.12950444	33.39766128
SWP-3702	3428	-82.12739947	33.43493616
SWP-3703	3429	-82.12638196	33.43306458
SWP-3704	3430	-82.17823462	33.43044928
SWP-3705	3431	-82.1780021	33.43040165
SWP-3706	3432	-82.13983897	33.43089472
SWP-3707	3433	-82.13977832	33.42803693
SWP-3708	3434	-82.15425837	33.41572755
SWP-3709	3435	-82.13604663	33.40762594
SWP-3711	3436	-82.15689519	33.42569461
SWP-3713	3437	-82.14681935	33.4269262
SWP-3714	3438	-82.11753556	33.40167212
SWP-3715	3439	-82.18179921	33.4150525
SWP-3716	3440	-82.14915596	33.4276145
SWP-3717	3441	-82.13718168	33.41229725
SWP-3718	3442	-82.17724851	33.40910502
SWP-3720	3443	-82.13217278	33.40229739
SWP-3721	3444	-82.13372055	33.40119935
SWP-3723	3445	-82.17006818	33.41579504
SWP-3725	3446	-82.14504793	33.41460956
SWP-3728	3447	-82.12393182	33.42107934
SWP-3729	3448	-82.13233817	33.42744133
SWP-3730	3449	-82.13634802	33.40789493
SWP-3731	3450	-82.15410221	33.42302527
SWP-4998	3452	-82.16659981	33.43317025
SWP-4999	3993	-82.13906672	33.41650592
SWP-5000	3451	-82.16676987	33.43317388
SWP-5001	3454	-82.15964554	33.42700309
SWP-5002	3455	-82.16802955	33.42584355
SWP-5003	3456	-82.16809613	33.42562467
SWP-5004	3457	-82.16485467	33.42438927
SWP-5005	3458	-82.16480449	33.42440743
SWP-5006	3460	-82.16294607	33.42440865
SWP-5007	3459	-82.16484629	33.42411661
SWP-5008	3463	-82.16024427	33.42446661
SWP-5009	3461	-82.16062937	33.42455577
SWP-5010	3462	-82.16027238	33.42448521
SWP-5011	3464	-82.16017058	33.42474791
SWP-5012	3465	-82.16022171	33.42462475
SWP-5013	3468	-82.15870131	33.42663027
SWP-5014	3469	-82.15869642	33.4268708
SWP-5015	3470	-82.15980081	33.42661892
SWP-5016	3471	-82.16046286	33.42424846
SWP-5017	3472	-82.16094071	33.4242604
SWP-5018	3473	-82.16130689	33.42433333
SWP-5019	3474	-82.16153045	33.42440091
SWP-5020	3475	-82.16210975	33.42546233
SWP-5021	3476	-82.16143264	33.42550367
SWP-5022	3477	-82.16164454	33.4254579

2025 Fort Gordon Pipe Inventory

SWP-5023	3478	-82.16117922	33.42512299
SWP-5024	3479	-82.16116668	33.42507931
SWP-5025	3480	-82.16181656	33.42504886
SWP-5026	3481	-82.16161617	33.42497896
SWP-5027	3482	-82.16137602	33.42497493
SWP-5028	3483	-82.16122903	33.42504982
SWP-5029	3484	-82.15903572	33.42549401
SWP-5030	3485	-82.16047123	33.42548997
SWP-5031	3486	-82.16081671	33.4252848
SWP-5032	3487	-82.16034827	33.42544025
SWP-5033	3488	-82.15920306	33.42491007
SWP-5034	3489	-82.15882049	33.42459892
SWP-5035	3490	-82.15887074	33.4242913
SWP-5036	3491	-82.15869024	33.42429833
SWP-5037	3492	-82.15887845	33.42385752
SWP-5038	3493	-82.15909905	33.42385221
SWP-5039	3495	-82.15679348	33.42436804
SWP-5040	3496	-82.15676268	33.42454823
SWP-5041	3497	-82.15679938	33.42473406
SWP-5042	3498	-82.1576971	33.42546406
SWP-5043	3499	-82.1576205	33.42570942
SWP-5044	3500	-82.157271	33.42568007
SWP-5045	3501	-82.15956508	33.42575685
SWP-5046	3502	-82.15316088	33.42551362
SWP-5047	3503	-82.15260982	33.42634027
SWP-5048	3509	-82.16602467	33.43411162
SWP-5049	3511	-82.16327249	33.42304229
SWP-5051	3522	-82.16252762	33.41964806
SWP-5052	3510	-82.16406499	33.4228135
SWP-5053	3523	-82.16238167	33.41934129
SWP-5054	3524	-82.16288156	33.42306163
SWP-5055	3525	-82.16199685	33.42305133
SWP-5056	3526	-82.16146336	33.42300369
SWP-5057	3527	-82.16127379	33.42284103
SWP-5058	3528	-82.16059907	33.4229902
SWP-5059	3530	-82.16095468	33.42316455
SWP-5060	3531	-82.16073632	33.42294216
SWP-5061	3494	-82.1595018	33.42386217
SWP-5062	3532	-82.1602599	33.4230172
SWP-5063	3453	-82.15629287	33.42763552
SWP-5064	3534	-82.16295003	33.42314894
SWP-5065	3535	-82.16302864	33.42355806
SWP-5067	3536	-82.16207927	33.42318537
SWP-5068	3537	-82.16219253	33.4233923
SWP-5069	3538	-82.16206351	33.42334861
SWP-5070	3466	-82.16128411	33.4244808
SWP-5071	3467	-82.16185262	33.42447926
SWP-5073	3539	-82.16116846	33.42356669
SWP-5074	3540	-82.16095151	33.42359208
SWP-5075	3541	-82.16103019	33.4233611
SWP-5078	3542	-82.16131757	33.42364651
SWP-5079	3569	-82.13118671	33.40874768
SWP-5080	3544	-82.15793505	33.42298122
SWP-5081	3547	-82.15675298	33.42254093
SWP-5083	3548	-82.156857	33.42225021
SWP-5085	3549	-82.15567403	33.42247861
SWP-5087	3550	-82.15561791	33.42217226
SWP-5088	3551	-82.15594982	33.42205571

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SWP-5090	3554	-82.15481327	33.42205977
SWP-5092	3555	-82.15431074	33.42280844
SWP-5094	3556	-82.15322185	33.42276687
SWP-5097	3557	-82.15423743	33.42295283
SWP-5098	3558	-82.15422514	33.42298124
SWP-5099	3559	-82.15423666	33.42319832
SWP-5100	3560	-82.15337294	33.4225674
SWP-5101	3561	-82.15379583	33.42076181
SWP-5102	3562	-82.15386606	33.42063603
SWP-5103	3565	-82.15399657	33.42012671
SWP-5104	3566	-82.15411378	33.41958481
SWP-5105	3567	-82.15388359	33.41934703
SWP-5107	3568	-82.15228786	33.4219545
SWP-5108	3570	-82.15327331	33.42291125
SWP-5108	3571	-82.15219854	33.42294354
SWP-5110	3581	-82.16174988	33.41819676
SWP-5112	3582	-82.16050634	33.41743485
SWP-5113	3583	-82.16047864	33.41793361
SWP-5115	3585	-82.15977087	33.41745514
SWP-5118	3586	-82.15980579	33.41640064
SWP-5121	3587	-82.15795789	33.41799762
SWP-5122	3588	-82.1579452	33.41863191
SWP-5123	3589	-82.15839134	33.41871866
SWP-5124	3590	-82.15812187	33.41855794
SWP-5127	3591	-82.15968956	33.41889217
SWP-5128	3595	-82.15588559	33.41766919
SWP-5129	3592	-82.15612649	33.41588501
SWP-5130	3593	-82.1560827	33.41533334
SWP-5131	3596	-82.15521361	33.4182909
SWP-5135	3598	-82.15366169	33.41869282
SWP-5136	3599	-82.15373781	33.41815865
SWP-5137	3600	-82.15396544	33.4179314
SWP-5138	3601	-82.15401635	33.41754771
SWP-5140	3602	-82.15315729	33.41743034
SWP-5141	3603	-82.1530052	33.41736253
SWP-5142	3597	-82.1540777	33.41865712
SWP-5143	3604	-82.15398863	33.41822175
SWP-5144	3607	-82.15231552	33.41877981
SWP-5144A	3605	-82.154121	33.41776768
SWP-5145	3606	-82.15421463	33.41753404
SWP-5146	3608	-82.15230403	33.41932062
SWP-5147	3609	-82.15225486	33.41932937
SWP-5148	3610	-82.15148795	33.41934005
SWP-5148	3611	-82.1498751	33.41856235
SWP-5149	3613	-82.15021331	33.41921772
SWP-5152	3614	-82.14905442	33.41924203
SWP-5154	3617	-82.14517172	33.4186604
SWP-5155	3618	-82.14517907	33.41869831
SWP-5157	3619	-82.14526778	33.41912545
SWP-5158	3620	-82.14472776	33.41907161
SWP-5160	3621	-82.14418946	33.41906645
SWP-5162	3622	-82.1442729	33.41869163
SWP-5163	3623	-82.14480227	33.41860634
SWP-5165	3626	-82.13859665	33.41941761
SWP-5167	3627	-82.13857826	33.4192585
SWP-5168	3628	-82.1385626	33.41879498
SWP-5170	3630	-82.13975495	33.4185063
SWP-5172	3631	-82.13915338	33.41828776

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SWP-5173	3632	-82.13864095	33.41840921
SWP-5174	3633	-82.15224895	33.41781669
SWP-5175	3634	-82.15216078	33.41724836
SWP-5176	3640	-82.14719678	33.41705335
SWP-5178	3641	-82.14747622	33.41676895
SWP-5180	3642	-82.14744391	33.4168431
SWP-5182	3643	-82.1475523	33.41654227
SWP-5183	3652	-82.14639071	33.41662858
SWP-5184	3653	-82.14610007	33.41668374
SWP-5185	3656	-82.14571448	33.4167609
SWP-5186	3658	-82.14572751	33.41806485
SWP-5187	3659	-82.14429635	33.41735278
SWP-5188	3660	-82.14353653	33.41831555
SWP-5192	3661	-82.14161329	33.41733423
SWP-5194	3662	-82.1386955	33.41652552
SWP-5195	3663	-82.13846931	33.41668318
SWP-5197	3664	-82.13854733	33.41684224
SWP-5198	3666	-82.14741093	33.41562235
SWP-5200	3731	-82.13997842	33.4243647
SWP-5201	3667	-82.14837837	33.41609966
SWP-5202	3668	-82.14720037	33.41593399
SWP-5203	3669	-82.14908602	33.41610831
SWP-5205	3673	-82.1452391	33.41584306
SWP-5206	3674	-82.14517877	33.41603474
SWP-5208	3675	-82.14452565	33.41607192
SWP-5210	3682	-82.14397177	33.41602792
SWP-5211	3683	-82.14274996	33.41590256
SWP-5213	3685	-82.13877592	33.41531518
SWP-5216	3686	-82.13818792	33.41613033
SWP-5217	3687	-82.13821595	33.41618518
SWP-5218	3688	-82.13817332	33.41653254
SWP-5219	3689	-82.13799134	33.41545862
SWP-5221	3692	-82.14145655	33.43550802
SWP-5226	3698	-82.15215257	33.42846755
SWP-5226	3699	-82.14027342	33.42683082
SWP-5227	3701	-82.14662313	33.42692818
SWP-5228	3702	-82.14908374	33.42767716
SWP-5229	3703	-82.15134	33.42631545
SWP-5230	3704	-82.15102175	33.42633456
SWP-5232	3706	-82.15193394	33.42618052
SWP-5233	3707	-82.15206904	33.42615323
SWP-5235	3708	-82.15057975	33.42547728
SWP-5236	3709	-82.15071805	33.42556155
SWP-5237	3710	-82.14938787	33.42444695
SWP-5239	3711	-82.14925759	33.4241087
SWP-5241	3712	-82.14942338	33.424277
SWP-5242	3713	-82.149529	33.4241832
SWP-5243	3715	-82.15139847	33.42480021
SWP-5245	3716	-82.15124313	33.42472114
SWP-5248	3717	-82.1512915	33.42459084
SWP-5249	3718	-82.14757742	33.42463548
SWP-5251	3721	-82.14564056	33.42546849
SWP-5252	3722	-82.14259191	33.42463703
SWP-5253	3723	-82.14425041	33.42589998
SWP-5255	3725	-82.13975847	33.42541307
SWP-5256	3726	-82.13980606	33.42534577
SWP-5257	3728	-82.13957595	33.4252017
SWP-5258	3727	-82.14086221	33.42543042

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SWP-5259	3729	-82.13981696	33.42521092
SWP-5262	3735	-82.14583358	33.42376232
SWP-5264	3736	-82.1455094	33.42368612
SWP-5266	3737	-82.14527196	33.42281942
SWP-5268	3738	-82.14316045	33.42354761
SWP-5269	3740	-82.14283787	33.4231093
SWP-5270	3741	-82.14482567	33.42279781
SWP-5271	3742	-82.14438087	33.42280107
SWP-5274	3743	-82.14419556	33.42277782
SWP-5275	3744	-82.14360727	33.4227608
SWP-5276	3745	-82.14400491	33.42275393
SWP-5278	3746	-82.1435236	33.42240525
SWP-5280	3753	-82.14171724	33.42409883
SWP-5281	3759	-82.14087444	33.42365013
SWP-5282	3764	-82.13773573	33.42631352
SWP-5286	3767	-82.13513117	33.42569901
SWP-5287	3779	-82.13513779	33.42569949
SWP-5288	3768	-82.13555005	33.42514252
SWP-5295	3769	-82.13514857	33.42513468
SWP-5298	3770	-82.13485447	33.42513205
SWP-5304	3773	-82.13553241	33.42497752
SWP-5305	3774	-82.13547244	33.42490715
SWP-5308	3775	-82.13328384	33.42557541
SWP-5309	3776	-82.13359776	33.42564465
SWP-5311	3777	-82.13509483	33.42568014
SWP-5313	3778	-82.13460052	33.42512319
SWP-5314	3780	-82.12910946	33.42529045
SWP-5315	3781	-82.12722078	33.4259433
SWP-5318	3782	-82.13233122	33.42133722
SWP-5319	3783	-82.13250704	33.42106818
SWP-5320	3790	-82.12179971	33.42068245
SWP-5322	3797	-82.13581353	33.42251993
SWP-5324	3800	-82.13645029	33.42252076
SWP-5325	3801	-82.1363022	33.42259758
SWP-5326	3802	-82.1371382	33.4225897
SWP-5329	3803	-82.13555736	33.42291442
SWP-5331	3806	-82.13762615	33.42319964
SWP-5333	3807	-82.13778867	33.42364624
SWP-5334	3808	-82.13778814	33.4238393
SWP-5335	3809	-82.13777762	33.42314684
SWP-5337	3811	-82.13624181	33.42317531
SWP-5339	3813	-82.1356584	33.42301611
SWP-5340	3820	-82.13611579	33.41974579
SWP-5341	3814	-82.13631651	33.42318083
SWP-5342	3815	-82.13652977	33.42318808
SWP-5343	3828	-82.13636975	33.41837977
SWP-5346	3829	-82.13565761	33.41837213
SWP-5349	3832	-82.13637613	33.41677405
SWP-5353	3834	-82.1336925	33.41739803
SWP-5355	3835	-82.13147688	33.41766352
SWP-5356	3836	-82.13143069	33.41767952
SWP-5357	3837	-82.13129646	33.41760682
SWP-5359	3838	-82.13103035	33.41750315
SWP-5360	3857	-82.13042984	33.41538331
SWP-5361	3865	-82.12762261	33.41627324
SWP-5362	3839	-82.12460078	33.41919504
SWP-5363	3840	-82.12392429	33.4196161
SWP-5371	3844	-82.10587749	33.42206807

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SWP-5372	3845	-82.10582383	33.42194951
SWP-5373	3846	-82.10575696	33.4218645
SWP-5374	3866	-82.10370249	33.42412449
SWP-5376	3847	-82.10564969	33.42453109
SWP-5377	3867	-82.10200638	33.42378011
SWP-5378	3868	-82.09921966	33.42525768
SWP-5383	3869	-82.12747515	33.41509145
SWP-5385	3870	-82.12746297	33.41515315
SWP-5386	3871	-82.13758248	33.42714876
SWP-5387	3872	-82.13764221	33.42671271
SWP-5390	3873	-82.13732247	33.42667134
SWP-5392	3874	-82.13609022	33.42829172
SWP-5393	3875	-82.13554747	33.42808733
SWP-5395	3877	-82.13527855	33.42829129
SWP-5396	3878	-82.13506665	33.42809662
SWP-5399	3879	-82.13485191	33.42823808
SWP-5401	3885	-82.12451233	33.42846544
SWP-5402	3886	-82.12538979	33.42844012
SWP-5403	3887	-82.12539328	33.42806487
SWP-5407	3889	-82.12708506	33.42885488
SWP-5409	3890	-82.12847021	33.42837173
SWP-5411	3892	-82.12912864	33.42903671
SWP-5412	3893	-82.12925978	33.42917222
SWP-5417	3894	-82.12879164	33.42986631
SWP-5418	3895	-82.12867238	33.42995207
SWP-5420	3899	-82.12634418	33.43092442
SWP-5422	3902	-82.12356136	33.43035781
SWP-5425	3903	-82.11768859	33.43056214
SWP-5426	3920	-82.11776218	33.43461056
SWP-5427	3919	-82.11801372	33.43636809
SWP-5428	3918	-82.11793119	33.43660638
SWP-5430	3914	-82.11817135	33.43750365
SWP-5431	3915	-82.11807594	33.43759496
SWP-5433	3913	-82.11819556	33.43763551
SWP-5435	3917	-82.11847225	33.43737721
SWP-5436	3916	-82.11835996	33.43742885
SWP-5437	3911	-82.11841605	33.43770045
SWP-5438	3910	-82.11847613	33.43818047
SWP-5439	3912	-82.11818409	33.43807282
SWP-5443	3909	-82.11815283	33.43889747
SWP-5444	3904	-82.11830955	33.44039444
SWP-5446	3905	-82.11848156	33.44029355
SWP-5447	3907	-82.11796909	33.44009938
SWP-5448	3906	-82.11801319	33.44019372
SWP-5450	3908	-82.11781293	33.43998588
SWP-5452	3921	-82.1274692	33.43503495
SWP-5454	3922	-82.127376	33.43479541
SWP-5456	3923	-82.17340918	33.40578881
SWP-5473	3945	-82.18820496	33.41668065
SWP-5474	3946	-82.18772405	33.41892915
SWP-5477	3948	-82.18825843	33.41494858
SWP-5502	3986	-82.17221278	33.41519474
SWP-5504	3987	-82.17114639	33.4154284
SWP-5505	3988	-82.17106884	33.41538137
SWP-7000	3504	-82.147832	33.41315509
SWP-7001	3505	-82.14793643	33.41293184
SWP-7002	3506	-82.14792349	33.41235315
SWP-7003	3507	-82.14786297	33.4137512

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SWP-7004	3508	-82.14762951	33.41476987
SWP-7012	3512	-82.14047108	33.41334951
SWP-7014	3513	-82.14063412	33.41310497
SWP-7015	3514	-82.14090088	33.41270568
SWP-7019	3515	-82.13803667	33.4132623
SWP-7020	3516	-82.13811173	33.41328906
SWP-7022	3517	-82.13795056	33.41331373
SWP-7024	3518	-82.13772823	33.41304262
SWP-7025	3519	-82.1378658	33.41333971
SWP-7027	3520	-82.13705528	33.41453041
SWP-7030	3521	-82.13641096	33.41421194
SWP-7036	3529	-82.13360804	33.41106434
SWP-7037	3533	-82.13550647	33.41185551
SWP-7038	3543	-82.13600668	33.41211045
SWP-7044	3545	-82.13289143	33.41032213
SWP-7045	3546	-82.13252864	33.40986526
SWP-7046	3552	-82.13547526	33.40932169
SWP-7047	3553	-82.13579182	33.40962234
SWP-7053	3563	-82.13955884	33.41230908
SWP-7054	3564	-82.13948921	33.41201023
SWP-7059	3572	-82.13420702	33.4089946
SWP-7060	3573	-82.13416493	33.40888006
SWP-7062	3574	-82.13390952	33.40861283
SWP-7064	3575	-82.13568093	33.40888333
SWP-7067	3576	-82.13516067	33.40888063
SWP-7068	3577	-82.13560817	33.4088603
SWP-7069	3578	-82.13605515	33.4087262
SWP-7071	3579	-82.13445337	33.40879697
SWP-7074	3580	-82.13432332	33.40713955
SWP-7077	3584	-82.13596488	33.40764236
SWP-7081	3594	-82.13824302	33.40495028
SWP-7104	3612	-82.12904496	33.41330018
SWP-7105	3694	-82.12499728	33.40259122
SWP-7109	3615	-82.12875373	33.41297898
SWP-7111	3616	-82.12948523	33.41391853
SWP-7116	3624	-82.12597445	33.41340687
SWP-7120	3625	-82.12556824	33.41296714
SWP-7124	3629	-82.12643674	33.41194874
SWP-7129	3635	-82.12696797	33.41145246
SWP-7132	3636	-82.1249706	33.41261151
SWP-7135	3637	-82.12666525	33.41180772
SWP-7137	3638	-82.12075036	33.41111109
SWP-7139	3639	-82.12089342	33.41102149
SWP-7151	3644	-82.12113428	33.41242745
SWP-7152	3645	-82.1209456	33.41224787
SWP-7153	3646	-82.12086658	33.41167602
SWP-7154	3647	-82.12095382	33.41168345
SWP-7155	3648	-82.12105814	33.41173611
SWP-7156	3649	-82.12076645	33.41131093
SWP-7157	3650	-82.1209161	33.41149255
SWP-7158	3651	-82.12113969	33.41155549
SWP-7161	3654	-82.12005967	33.41226496
SWP-7162	3655	-82.11999252	33.41221058
SWP-7166	3657	-82.1193641	33.41073759
SWP-7170	3665	-82.11991476	33.41069671
SWP-7179	3670	-82.12801846	33.40583374
SWP-7180	3671	-82.12788117	33.40555824
SWP-7181	3672	-82.12765128	33.40552493

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SWP-7183	3676	-82.12638081	33.40559418
SWP-7184	3677	-82.12616656	33.40539541
SWP-7186	3678	-82.12662865	33.40572041
SWP-7188	3679	-82.12633356	33.40527169
SWP-7191	3680	-82.12675606	33.40537425
SWP-7192	3681	-82.12659088	33.40534574
SWP-7194	3684	-82.12634173	33.40450312
SWP-7196	3690	-82.12578847	33.4039079
SWP-7198	3691	-82.12603733	33.40393843
SWP-7203	3693	-82.12513721	33.40249327
SWP-7207	3695	-82.12421923	33.40230969
SWP-7209	3696	-82.12433101	33.40245699
SWP-7210	3697	-82.12363472	33.40256299
SWP-7217	3700	-82.11615229	33.40176682
SWP-7221	3705	-82.14313435	33.39142036
SWP-7223	3714	-82.14920566	33.39662334
SWP-7226	3719	-82.14758475	33.39427622
SWP-7229	3720	-82.14640731	33.38903422
SWP-7235	3724	-82.12703803	33.40004804
SWP-7239	3730	-82.12814008	33.39917018
SWP-7241	3732	-82.12865001	33.39879812
SWP-7244	3733	-82.12600353	33.39974925
SWP-7248	3734	-82.12583791	33.40022634
SWP-7253	3739	-82.1219408	33.39801959
SWP-7260	3747	-82.11888174	33.39995406
SWP-7264	3748	-82.11883468	33.40043534
SWP-7265	3749	-82.11882082	33.40033788
SWP-7266	3750	-82.11880972	33.40025732
SWP-7267	3751	-82.11880972	33.40025732
SWP-7268	3752	-82.12006462	33.40020219
SWP-7272	3754	-82.11977915	33.39980726
SWP-7273	3755	-82.11990055	33.39991288
SWP-7275	3756	-82.11975331	33.39971424
SWP-7279	3757	-82.12016721	33.39854629
SWP-7280	3758	-82.12034209	33.39855462
SWP-7281	3760	-82.11979171	33.39719442
SWP-7285	3761	-82.11935099	33.39700202
SWP-7286	3762	-82.11960314	33.39701486
SWP-7287	3763	-82.12215167	33.40244484
SWP-7292	3765	-82.11570362	33.39698823
SWP-7293	3766	-82.11535092	33.39598542
SWP-7295	3772	-82.12025259	33.39646548
SWP-7297	3771	-82.12064065	33.39680669
SWP-7305	3784	-82.17233717	33.43148226
SWP-7310	3785	-82.17954229	33.43140251
SWP-7313	3786	-82.17689295	33.43155007
SWP-7322	3787	-82.18127657	33.43089703
SWP-7323	3788	-82.18147553	33.43076217
SWP-7329	3792	-82.17410911	33.43012871
SWP-7332	3793	-82.17236127	33.42896654
SWP-7333	3794	-82.17246447	33.42900987
SWP-7334	3795	-82.17223252	33.42870831
SWP-7336	3796	-82.17274729	33.42736198
SWP-7338	3798	-82.17489651	33.42720082
SWP-7339	3799	-82.17489734	33.4272003
SWP-7342	3804	-82.17632406	33.42710311
SWP-7343	3805	-82.17622424	33.42739724
SWP-7345	3810	-82.1799948	33.42829801

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SWP-7349	3812	-82.17972383	33.42694308
SWP-7354	3816	-82.17973619	33.42638421
SWP-7357	3817	-82.17969016	33.42616999
SWP-7361	3818	-82.18174556	33.42663714
SWP-7364	3819	-82.18186611	33.42518311
SWP-7367	3821	-82.16941289	33.42586998
SWP-7371	3822	-82.1835343	33.42410757
SWP-7374	3823	-82.18437509	33.42364551
SWP-7377	3824	-82.18188781	33.42405363
SWP-7379	3826	-82.1820491	33.42405142
SWP-7381	3825	-82.18215269	33.42405232
SWP-7385	3827	-82.17934838	33.42332258
SWP-7388	3830	-82.1780202	33.4231543
SWP-7392	3831	-82.17787023	33.42315477
SWP-7395	3833	-82.17247464	33.42304389
SWP-7401	3841	-82.17261408	33.41955189
SWP-7406	3842	-82.1800355	33.41899875
SWP-7407	3843	-82.18091773	33.41920221
SWP-7414	3848	-82.18836108	33.42035981
SWP-7415	3849	-82.18824686	33.42042738
SWP-7416	3850	-82.18807433	33.420539
SWP-7421	3851	-82.17086795	33.41630425
SWP-7422	3852	-82.17132682	33.41623552
SWP-7425	3853	-82.1717802	33.41624285
SWP-7426	3854	-82.17218808	33.41624525
SWP-7428	3855	-82.17177691	33.41632876
SWP-7431	3856	-82.17283754	33.41551441
SWP-7434	3858	-82.17295397	33.41551396
SWP-7436	3859	-82.17298184	33.41583692
SWP-7439	3860	-82.17298775	33.41620485
SWP-7441	3861	-82.1730325	33.41624545
SWP-7443	3862	-82.17345396	33.41626569
SWP-7445	3863	-82.17388492	33.41628092
SWP-7446	3864	-82.17279081	33.41624485
SWP-7455	3876	-82.13085915	33.42740989
SWP-7457	3880	-82.1290009	33.42663354
SWP-7458	3881	-82.12922546	33.42633395
SWP-7461	3882	-82.13350499	33.42986999
SWP-7463	3883	-82.13253304	33.42935283
SWP-7467	3884	-82.1760055	33.41330201
SWP-7472	3888	-82.16015064	33.4135615
SWP-7476	3891	-82.15893809	33.41386412
SWP-7480	3896	-82.16048999	33.41627881
SWP-7481	3897	-82.17335448	33.42753673
SWP-7484	3898	-82.17348806	33.42541555
SWP-7488	3900	-82.17413239	33.42247038
SWP-7490	3901	-82.1596814	33.41814839
SWP-7511	3924	-82.17401545	33.4243044
SWP-7512	3925	-82.17377653	33.42430089
SWP-7517	3926	-82.15392989	33.4250771
SWP-7518	3927	-82.1540532	33.4250176
SWP-7521	3928	-82.15405819	33.4248925
SWP-7525	3929	-82.15382864	33.42498986
SWP-7526	3930	-82.15254358	33.42484973
SWP-7529	3931	-82.15471727	33.4237416
SWP-7531	3932	-82.15511751	33.42378816
SWP-7534	3933	-82.19205101	33.41176885
SWP-7535	3934	-82.19209042	33.41162181

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SWP-7538	3935	-82.18950988	33.41120783
SWP-7541	3936	-82.17815905	33.41152016
SWP-7546	3937	-82.17598626	33.41230687
SWP-7561	3940	-82.12714837	33.43293263
SWP-7562	3938	-82.12603584	33.43298294
SWP-7563	3939	-82.12624117	33.43312766
SWP-7564	3941	-82.12738903	33.43213887
SWP-7565	3942	-82.12743924	33.43223568
SWP-7566	3943	-82.12739582	33.4334982
SWP-7569	3949	-82.12749581	33.43406057
SWP-7581	3944	-82.18980907	33.42000563
SWP-7585	3947	-82.19011098	33.41397982
SWP-7593	3950	-82.16825618	33.41056262
SWP-7594	3951	-82.16795424	33.4102748
SWP-7596	3952	-82.16711312	33.41055558
SWP-7599	3953	-82.16684563	33.41055828
SWP-7602	3954	-82.16763501	33.41359507
SWP-7605	3955	-82.16777858	33.4134891
SWP-7608	3956	-82.1675177	33.41374831
SWP-7614	3957	-82.16703808	33.4142568
SWP-7615	3958	-82.16727206	33.41398039
SWP-7616	3959	-82.16766747	33.4136768
SWP-7620	3960	-82.16739307	33.41414733
SWP-7621	3961	-82.16809983	33.41408922
SWP-7633	3962	-82.16930391	33.41300625
SWP-7644	3963	-82.1689707	33.41401923
SWP-7645	3964	-82.1692191	33.41386469
SWP-7646	3965	-82.16921718	33.41352733
SWP-7647	3966	-82.16919289	33.41318813
SWP-7648	3967	-82.16924581	33.4129393
SWP-7649	3968	-82.16894665	33.41249719
SWP-7650	3969	-82.16913749	33.41274139
SWP-7651	3970	-82.16868268	33.41460557
SWP-7652	3971	-82.16941894	33.4144714
SWP-7653	3972	-82.17032111	33.4144308
SWP-7654	3973	-82.16905662	33.41117812
SWP-7655	3975	-82.15387974	33.42403447
SWP-7656	3976	-82.15393824	33.42357258
SWP-7657	3974	-82.16905662	33.41117812
SWP-7658	3977	-82.15388926	33.42379979
SWP-7660	3978	-82.15393295	33.42386226
SWP-7661	3979	-82.15397086	33.42330777
SWP-7662	3980	-82.1526344	33.42375633
SWP-7667	3981	-82.16796396	33.40983214
SWP-7670	3982	-82.17096514	33.40867501
SWP-7673	3983	-82.16878092	33.40888298
SWP-7680	3984	-82.17220372	33.41038259
SWP-7681	3985	-82.17168957	33.40952679
SWP-9000	3989	-82.17874115	33.4148583
SWP-9002	3990	-82.17809849	33.41894382
SWP-9003	3992	-82.16256977	33.41802666
SWP-9004	3991	-82.17797765	33.41887099
SWP-9005	3996	-82.13674365	33.41913411
SWP-9006	3997	-82.14779944	33.41665363
SWP-9007	3998	-82.14822196	33.42710012
SWP-9008	3999	-82.15075549	33.42602952
SWP-9009	4000	-82.15124039	33.42479923
SWP-9010	4001	-82.17660101	33.4209171

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SWP-9011	4002	-82.15410223	33.42276678
SWP-9012	4003	-82.15314082	33.42234
SWP-9013	4004	-82.15242645	33.42254594
SWP-9014	4005	-82.27525541	33.35577376
SWP-9015	4006	-82.27534943	33.35584953
SWP-9016	4007	-82.27546365	33.35589876
SWP-9017	4008	-82.27560198	33.35587187
SWP-9018	4009	-82.27571037	33.35585546
SWP-9019	4010	-82.27574571	33.35585046
SWP-9020	4011	-82.2756594	33.35577858
SWP-9021	4012	-82.27554474	33.3556712
SWP-9022	4013	-82.27539035	33.35592274
SWP-9023	4014	-82.27554097	33.35590561
SWP-9024	4015	-82.27574577	33.35587739
SWP-9025	4016	-82.14050511	33.41363794
SWP-9026	4017	-82.1405878	33.41388896
SWP-9027	4018	-82.14053639	33.41401846
SWP-9028	4019	-82.14047926	33.4141081
SWP-9029	4020	-82.14014901	33.41355558
SWP-9030	4021	-82.12395657	33.43061186
SWP-9031	4022	-82.12409532	33.43079556
SWP-9032	4023	-82.12443191	33.43057102
SWP-9033	4024	-82.12493881	33.43033549
SWP-9034	4025	-82.12481403	33.43054879
SWP-9035	4026	-82.1247254	33.43045744
SWP-9036	4027	-82.13390745	33.40783018
SWP-9037	4028	-82.13400925	33.40795777
SWP-9038	4029	-82.13413358	33.4080949
SWP-9039	4030	-82.13425905	33.40822959
SWP-9040	4031	-82.13441036	33.40825481
SWP-9041	4032	-82.13489027	33.40891887
SWP-9042	4033	-82.13499173	33.40903074
SWP-9043	4034	-82.13515714	33.40912583
SWP-9044	4035	-82.13542774	33.40910012
SWP-9045	4036	-82.13556827	33.40720221
SWP-9046	4037	-82.13522517	33.40723348
SWP-9047	4038	-82.1344144	33.40919971
SWP-9048	4039	-82.1332561	33.40922009
SWP-9049	4040	-82.13313772	33.40912695
SWP-9050	4041	-82.13307823	33.40902531
SWP-9051	4042	-82.1331863	33.40923271
SWP-9052	4043	-82.13254738	33.40946292
SWP-9053	4044	-82.1326565	33.40951642
SWP-9054	4045	-82.13309892	33.40929058
SWP-9055	4046	-82.13298706	33.40936516
SWP-9056	4047	-82.13274825	33.40950074
SWP-9057	4048	-82.12754064	33.4343666
SWP-9058	4049	-82.12747364	33.43462626
SWP-9059	4050	-82.13559193	33.42187306
SWP-9060	4051	-82.1355905	33.42170221
SWP-9061	4052	-82.13289609	33.40949178
SWP-9062	4053	-82.13293898	33.40953545
SWP-9063	4054	-82.13291176	33.40964192
SWP-9064	4055	-82.13281313	33.40977265
SWP-9065	4056	-82.13359312	33.40926839
SWP-9066	4057	-82.1333549	33.40941538
SWP-9067	4058	-82.13315294	33.4095415
SWP-9068	4059	-82.13295712	33.40966703

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SWP-9069	4060	-82.13302238	33.40977074
SWP-9070	4061	-82.13318737	33.40995097
SWP-9071	4062	-82.13345566	33.41024328
SWP-9072	4063	-82.13369188	33.4104558
SWP-9073	4064	-82.13384412	33.41039874
SWP-9074	4065	-82.13402172	33.41028477
SWP-9075	4066	-82.13419556	33.410174
SWP-9076	4067	-82.13391047	33.41029338
SWP-9077	4068	-82.13381214	33.41018448
SWP-9078	4069	-82.13378157	33.41009922
SWP-9079	4070	-82.13366673	33.41001932
SWP-9080	4071	-82.1340633	33.41019541
SWP-9081	4072	-82.13410718	33.41010091
SWP-9082	4073	-82.13412571	33.40998592
SWP-9083	4074	-82.13403424	33.40994253
SWP-9084	4075	-82.13385926	33.40974711
SWP-9085	4076	-82.13298822	33.40958265
SWP-9086	4077	-82.1340278	33.40988416
SWP-9087	4078	-82.13394132	33.40978465
SWP-9088	4079	-82.13361828	33.40990156
SWP-9089	4080	-82.13356475	33.40935361
SWP-9090	4081	-82.13372044	33.40937194
SWP-9091	4082	-82.13357177	33.40944662
SWP-9092	4083	-82.13355467	33.40951703
SWP-9093	4084	-82.133842	33.40935679
SWP-9094	4085	-82.13333903	33.40955774
SWP-9095	4086	-82.13314641	33.4098336
SWP-9096	4087	-82.13351045	33.41021812
SWP-9097	4088	-82.13338227	33.41007774
SWP-9098	4089	-82.13329462	33.41002374
SWP-9099	4090	-82.13373243	33.41012372
SWP-9100	4091	-82.13373536	33.4101531
SWP-9101	4092	-82.13367049	33.41008202
SWP-9102	4093	-82.1335695	33.40990645
SWP-9103	4094	-82.13353037	33.40988928
SWP-9104	4095	-82.13358063	33.40987299
SWP-9105	4096	-82.1339451	33.40971772
SWP-9106	4097	-82.1340176	33.40979713
SWP-9107	4098	-82.13400838	33.40982548
SWP-9108	4099	-82.13408248	33.40986818
SWP-9109	4100	-82.13425259	33.40974313
SWP-9110	4101	-82.13414787	33.40962842
SWP-9111	4102	-82.13408424	33.40955875
SWP-9112	4103	-82.13395997	33.40935918
SWP-9113	4104	-82.1341812	33.40953778
SWP-9114	4105	-82.14122157	33.42183544
SWP-9115	4106	-82.14085459	33.42180661
SWP-9116	4107	-82.14020937	33.42179685
SWP-9117	4108	-82.13969267	33.42181865
SWP-9118	4109	-82.13887911	33.42189693
SWP-9119	4110	-82.14121173	33.40826687
SWP-9120	4111	-82.14163291	33.40855272
SWP-9121	4112	-82.1419063	33.40874971
SWP-9122	4113	-82.1419957	33.40881472
SWP-9123	4114	-82.14059925	33.41001465
SWP-9124	4115	-82.14036256	33.40850949
SWP-9125	4116	-82.14071636	33.40867042
SWP-9126	4117	-82.14093351	33.40878271

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SWP-9127	4118	-82.140871	33.40975759
SWP-9128	4119	-82.14101367	33.40965746
SWP-9129	4120	-82.1411098	33.4095467
SWP-9130	4121	-82.13827272	33.41807163
SWP-9131	4122	-82.13827322	33.41810666
SWP-9132	4123	-82.13841414	33.41816787
SWP-9133	4124	-82.12867637	33.43074207
SWP-9134	4125	-82.12883081	33.43094419
SWP-9135	4126	-82.1284344	33.43055003
SWP-9136	4127	-82.12841325	33.43048314
SWP-9137	4128	-82.10713535	33.42200775
SWP-9138	4129	-82.10681053	33.4220669
SWP-9139	4130	-82.10655516	33.42206064
SWP-9140	4131	-82.10646351	33.42196757
SWP-9141	4132	-82.10649003	33.42214766
SWP-9142	4133	-82.10593792	33.42220418
SWP-9143	4134	-82.10668312	33.42196961
SWP-9144	4135	-82.17746439	33.41862777
SWP-9145	4136	-82.17719229	33.418628
SWP-9146	4137	-82.1769202	33.4186281
SWP-9147	4138	-82.17679145	33.41870896
SWP-9148	4139	-82.17648492	33.41886491
SWP-9149	4140	-82.17642162	33.41885931
SWP-9150	4141	-82.1765906	33.41784958
SWP-9151	4142	-82.17644153	33.4178877
SWP-9152	4143	-82.17678216	33.41781179
SWP-9153	4144	-82.17757154	33.41781677
SWP-9154	4145	-82.17785599	33.41835656
SWP-9155	4146	-82.17687217	33.41768099
SWP-9156	4147	-82.17685321	33.4175063
SWP-9157	4148	-82.11391501	33.42892041
SWP-9158	4149	-82.11330021	33.42902402
SWP-9159	4150	-82.11307916	33.42899703
SWP-9200	4151	-82.11343285	33.42881229
SWP-9201	4152	-82.19546167	33.41970142
SWP-9202	4153	-82.19564632	33.41957968
SWP-9203	4154	-82.19535417	33.41907917
SWP-9204	4155	-82.19558578	33.4188463
SWP-9205	4156	-82.19551325	33.41888394
SWP-9206	4157	-82.19557417	33.41866155
SWP-9207	4158	-82.19564546	33.41840706
SWP-9208	4159	-82.19562564	33.41814286
SWP-9209	4160	-82.19549408	33.4179079
SWP-9210	4161	-82.19529464	33.41758059
SWP-9211	4162	-82.1950351	33.41715133
SWP-9212	4163	-82.19517848	33.41887169
SWP-9213	4164	-82.19488327	33.41846084
SWP-9214	4165	-82.19461621	33.41811367
SWP-9215	4166	-82.19492285	33.4180795
SWP-9216	4167	-82.1946846	33.41794797
SWP-9217	4168	-82.19443851	33.41804919
SWP-9218	4169	-82.19354865	33.41820661
SWP-9219	4170	-82.19369698	33.41808957
SWP-9220	4171	-82.19387188	33.41812604
SWP-9221	4172	-82.19410294	33.41790667
SWP-9222	4173	-82.19433017	33.41782247
SWP-9223	4174	-82.19427066	33.4176451
SWP-9224	4175	-82.19414692	33.41749725

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SWP-9225	4176	-82.19409777	33.41760476
SWP-9226	4177	-82.19348654	33.41760703
SWP-9227	4178	-82.19455952	33.41734515
SWP-9228	4179	-82.19395146	33.41746029
SWP-9229	4180	-82.19407754	33.41734662
SWP-9230	4181	-82.193962	33.41728586
SWP-9231	4182	-82.19449477	33.41713748
SWP-9232	4183	-82.19478172	33.41698447
SWP-9233	4184	-82.19390392	33.41705609
SWP-9234	4185	-82.19378856	33.41693006
SWP-9235	4186	-82.1936044	33.41724328
SWP-9236	4187	-82.19372184	33.41713578
SWP-9237	4188	-82.19374761	33.41702289
SWP-9238	4189	-82.19332771	33.41730877
SWP-9239	4190	-82.19330276	33.41721409
SWP-9240	4191	-82.19324326	33.41719877
SWP-9241	4192	-82.19351686	33.41704208
SWP-9242	4193	-82.19302622	33.41697916
SWP-9243	4194	-82.19298574	33.41691798
SWP-9244	4195	-82.19312465	33.41706926
SWP-9245	4196	-82.19314861	33.41678028
SWP-9246	4197	-82.19308144	33.41662938
SWP-9247	4198	-82.19331442	33.41655497
SWP-9248	4199	-82.19352333	33.41645699
SWP-9249	4200	-82.19373404	33.41636536
SWP-9250	4201	-82.19411206	33.41643485
SWP-9251	4202	-82.19432822	33.41695641
SWP-9252	4203	-82.194795	33.41674588
SWP-9253	4204	-82.19460745	33.4165931
SWP-9254	4205	-82.19411196	33.41615044
SWP-9255	4206	-82.19305826	33.41600796
SWP-9256	4207	-82.19308311	33.41586255
SWP-9257	4208	-82.19341321	33.41582877
SWP-9258	4209	-82.19325708	33.41556323
SWP-9259	4210	-82.1932057	33.41548569
SWP-9260	4211	-82.19302081	33.41555048
SWP-9261	4212	-82.19293936	33.41541599
SWP-9262	4213	-82.19288431	33.41527229
SWP-9263	4214	-82.19279842	33.41536763
SWP-9264	4215	-82.19231108	33.41549545
SWP-9265	4216	-82.1930287	33.41520557
SWP-9266	4217	-82.1924926	33.4144783
SWP-9267	4218	-82.19255925	33.41446234
SWP-9268	4219	-82.19262855	33.41443855
SWP-9269	4220	-82.19228756	33.41437339
SWP-9270	4221	-82.19278881	33.41415468
SWP-9271	4222	-82.19155712	33.41314989
SWP-9272	4223	-82.19177319	33.41283073
SWP-9273	4224	-82.18646599	33.4114839
SWP-9274	4225	-82.18629693	33.4114799
SWP-9275	4226	-82.18606403	33.41147452
SWP-9276	4227	-82.18591707	33.41144421
SWP-9277	4228	-82.18645965	33.41174199
SWP-9278	4229	-82.18629098	33.41173766
SWP-9279	4230	-82.18620503	33.4117616
SWP-9280	4231	-82.16624458	33.43500928
SWP-9281	4232	-82.16623943	33.43490745
SWP-9283	4233	-82.16606522	33.43471317

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SWP-9284	4234	-82.17625895	33.41027796
SWP-9285	4235	-82.17843272	33.41076486
SWP-9286	4236	-82.17816623	33.4103367
SWP-9287	4237	-82.17861103	33.41032389
SWP-9288	4238	-82.15233537	33.41695541
SWP-9289	4239	-82.15285511	33.41586484
SWP-9300	4240	-82.15307028	33.41586677
SWP-9301	4241	-82.15324316	33.41583078
SWP-9302	4242	-82.15313772	33.41577759
SWP-9305	4243	-82.15664435	33.41788558
SWP-9306	4244	-82.15641762	33.4180864
SWP-9307	4245	-82.15631758	33.41843596
SWP-9308	4246	-82.15675794	33.41863253
SWP-9309	4247	-82.15643672	33.41782885
SWP-9310	4248	-82.1775586	33.42344571
SWP-9311	4249	-82.13813793	33.41811061
SWP-9312	4250	-82.13837643	33.42131829
SWP-9313	4251	-82.1541042	33.4167105
SWP-9314	4252	-82.15393106	33.41722108
SWP-9315	4253	-82.15430109	33.41626279
SWP-9316	4254	-82.19296603	33.41655794
SWP-9317	4255	-82.13175041	33.42554178
SWP-9318	4256	-82.13185602	33.42596996
SWP-9319	4257	-82.15578257	33.42271995
SWP-9320	4258	-82.15443698	33.41491845
SWP-9321	4259	-82.1545974	33.41467728
SWP-9322	4260	-82.15471839	33.41458671
SWP-9323	4261	-82.15480908	33.41451812
SWP-9324	4262	-82.1765505	33.41887019
SWP-9325	4263	-82.176504	33.41882834
SWP-9326	4264	-82.1766516	33.41878812
SWP-9327	4265	-82.17699484	33.41878998
SWP-9328	4266	-82.17738553	33.41879037
SWP-9329	4267	-82.17780672	33.41782332
SWP-9330	4268	-82.14606117	33.42713027
SWP-9331	4269	-82.14604624	33.42725827
SWP-9332	4270	-82.14603627	33.42746403
SWP-9333	4271	-82.14597316	33.42757055
SWP-9334	4272	-82.14592326	33.42745413
SWP-9335	4273	-82.14593302	33.42724699
SWP-9336	4274	-82.1459393	33.42705617
SWP-9337	4275	-82.14578896	33.42792911
SWP-9338	4276	-82.14582949	33.4279101
SWP-9339	4277	-82.14593408	33.42779452
SWP-9340	4278	-82.14601422	33.42763223
SWP-9341	4279	-82.14519223	33.42804732
SWP-9342	4280	-82.1449334	33.4281397
SWP-9343	4281	-82.14469081	33.42824085
SWP-9344	4282	-82.14446108	33.4283194
SWP-9345	4283	-82.14428133	33.42833215
SWP-9346	4284	-82.14420284	33.42825305
SWP-9347	4285	-82.14436784	33.42830479
SWP-9348	4286	-82.14438135	33.42827161
SWP-9349	4287	-82.14446672	33.42805604
SWP-9350	4288	-82.14463198	33.42802167
SWP-9351	4289	-82.15108772	33.42214969
SWP-9352	4290	-82.25549653	33.36996274
SWP-9353	4291	-82.2556094	33.37019398

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SWP-9354	4292	-82.1391321	33.41807056
SWP-9355	4293	-82.1783923	33.41648473
SWP-9356	4294	-82.17872052	33.41644476
SWP-9357	4295	-82.17849032	33.41637874
SWP-9358	4296	-82.17834707	33.41610306
SWP-9359	4297	-82.17826758	33.41581695
SWP-9360	4298	-82.17829216	33.41512118
SWP-9361	4299	-82.17820531	33.41546319
SWP-9362	4300	-82.17821595	33.41508643
SWP-9363	4301	-82.17836069	33.41394318
SWP-9364	4302	-82.17831029	33.41376705
SWP-9365	4303	-82.17826651	33.41335673
SWP-9366	4304	-82.17828221	33.41259881
SWP-9367	4305	-82.17835219	33.41224961
SWP-9368	4306	-82.1784781	33.41228143
SWP-9369	4307	-82.13642184	33.38724137
SWP-9370	4308	-82.13621375	33.38786892
SWP-9371	4309	-82.13695914	33.38453404
SWP-9372	4310	-82.13112227	33.38618036
SWP-9373	4311	-82.25476935	33.36691828
SWP-9374	4312	-82.13559412	33.38267604
SWP-9375	4313	-82.13550794	33.38265642
SWP-9376	4314	-82.13560602	33.38294105
SWP-9377	4315	-82.13589824	33.38273343
SWP-9378	4316	-82.13590953	33.38262881
SWP-9379	4317	-82.13611047	33.38273802
SWP-9380	4318	-82.13637217	33.38291567
SWP-9381	4319	-82.13625456	33.38326459
SWP-9382	4320	-82.13604235	33.38326204
SWP-9383	4321	-82.13578061	33.38308113
SWP-9384	4322	-82.1365208	33.38283278
SWP-9385	4323	-82.1744939	33.41470796
SWP-9386	4324	-82.17599838	33.41442137
SWP-9387	4325	-82.17612408	33.41442966
SWP-9388	4326	-82.18065985	33.41081331
SWP-9389	4327	-82.1809617	33.41058152
SWP-9390	4328	-82.18319268	33.41146893
SWP-9391	4329	-82.17338707	33.41024888
SWP-9392	4330	-82.17316381	33.41026406
SWP-9393	4331	-82.17297009	33.41026384
SWP-9394	4332	-82.17323535	33.41049913
SWP-9395	4333	-82.17300476	33.41079168
SWP-9396	4334	-82.15317445	33.41614649
SWP-9397	4335	-82.17965854	33.41466588
SWP-9398	4336	-82.17997686	33.41481115
SWP-9399	4337	-82.18012487	33.41438616
SWP-9400	4338	-82.17889454	33.41239769
SWP-9401	4339	-82.17017629	33.41620781
SWP-9402	4340	-82.16935233	33.41631954
SWP-9403	4341	-82.16877056	33.41629122
SWP-9404	4342	-82.16749985	33.41646597
SWP-9405	4343	-82.16692038	33.41648066
SWP-9407	4344	-82.16614938	33.41665036
SWP-9408	4345	-82.16597885	33.41662683
SWP-9409	4346	-82.16595559	33.4165532
SWP-9411	4347	-82.16526995	33.4167239
SWP-9412	4348	-82.16431126	33.41672992
SWP-9413	4349	-82.16432813	33.41661695

2025 Fort Gordon Pipe Inventory

SWP-9414	4350	-82.16436456	33.4164442
SWP-9415	4351	-82.16410879	33.41651853
SWP-9416	4352	-82.16373414	33.41651669
SWP-9417	4353	-82.16356205	33.41660982
SWP-9418	4354	-82.16685445	33.41639365
SWP-9419	4355	-82.1632179	33.41647658
SWP-9420	4356	-82.16526738	33.41662572
SWP-9421	4357	-82.13796669	33.42252439
SWP-9422	4358	-82.12314799	33.38725994
SWP-9423	4359	-82.12671135	33.38528595
SWP-9424	4360	-82.1336593	33.38279623
SWP-9425	4361	-82.13707855	33.3847318
SWP-9426	4362	-82.13705183	33.38432476
SWP-9427	4363	-82.12854912	33.38651666
SWP-9428	4364	-82.12708342	33.38761079
SWP-9429	4365	-82.13677585	33.38824291
SWP-9430	4366	-82.13197249	33.38940064
SWP-9431	4367	-82.12929304	33.38432744
SWP-9432	4368	-82.13109775	33.38330591
SWP-9433	4369	-82.12662628	33.3882056
SWP-9434	4370	-82.16306184	33.41664473
SWP-9435	4371	-82.16811074	33.41636135
SWP-9436	4372	-82.17825426	33.41220962
SWP-9437	4373	-82.17825849	33.41210784
SWP-9438	4374	-82.13065538	33.42810718
SWP-9439	4375	-82.1686938	33.41616532
SWP-9440	4376	-82.1621965	33.4164003
SWP-9441	4377	-82.15243919	33.42312975
SWP-9442	4378	-82.15243421	33.42341298
SWP-9443	4379	-82.15243364	33.42352831
SWP-9444	4380	-82.15243244	33.42412866
SWP-9445	4381	-82.15241512	33.42435762
SWP-9446	4382	-82.15240506	33.42469573
SWP-9447	4383	-82.15239925	33.42497205
SWP-9448	4384	-82.18441891	33.40804847
SWP-9449	4385	-82.18670373	33.40960303
SWP-9450	4386	-82.18671054	33.40961261
SWP-9451	4387	-82.18671697	33.40962078
SWP-9452	4388	-82.19508263	33.41238945
SWP-9453	4389	-82.19513146	33.4123782
SWP-9454	4390	-82.12439986	33.42982767
SWP-9455	4391	-82.12935007	33.43069771
SWP-9456	4392	-82.13974393	33.41574046
SWP-9457	4393	-82.1409913	33.38754352
SWP-9458	4394	-82.16376703	33.42303765
SWP-9459	4395	-82.12291672	33.40134704
SWP-9460	4396	-82.16331951	33.42313693
SWP-9461	4397	-82.13788814	33.4121551
SWP-9462	4398	-82.13784635	33.41206879
SWP-9463	4399	-82.16246988	33.42540164
SWP-9464	4400	-82.16250838	33.42457089
SWP-9465	4401	-82.15446916	33.42055474
SWP-9466	4402	-82.15446067	33.42091351
SWP-9467	4403	-82.15435535	33.42070057
SWP-9468	4404	-82.15421844	33.42069042
SWP-9469	4405	-82.19417743	33.41660943
SWP-9470	4406	-82.19435649	33.41655014
SWP-9471	4407	-82.12701917	33.4065389

2025 Fort Gordon Pipe Inventory

SWP-9472	4408	-82.13673011	33.41827908
SWP-9473	4409	-82.14110183	33.41852396
SWP-9474	4410	-82.18182743	33.42585618
SWP-9475	4411	-82.17197689	33.40419233
SWP-9476	4412	-82.14723632	33.42402288
SWP-9477	4413	-82.15477764	33.41710701
SWP-9478	4414	-82.14259425	33.42454289
SWP-9479	4415	-82.17247779	33.40522793
SWP-9480	4416	-82.17205276	33.4052188
SWP-9481	4417	-82.14420787	33.42785003
SWP-9482	4418	-82.14458321	33.4280615
SWP-9483	4419	-82.14747035	33.42696153
SWP-9484	4420	-82.13668124	33.40912506
SWP-9485	4421	-82.10639706	33.42191033
SWP-9486	4422	-82.1392487	33.41703332
SWP-9487	4423	-82.15227404	33.42686305
SWP-9488	4424	-82.15185451	33.42686313
SWP-9489	4425	-82.14784646	33.41655724
SWP-9490	4426	-82.12546973	33.39985283
SWP-9491	4427	-82.14827331	33.42558961
SWP-9492	4428	-82.14887611	33.42558265
SWP-9493	4429	-82.14933193	33.4255825
SWP-9494	4430	-82.14961841	33.42566378
SWP-9495	4431	-82.16035605	33.4185871
SWP-9496	4432	-82.14216014	33.42402274
SWP-9497	4433	-82.12743573	33.4142172
SWP-9498	4434	-82.12731065	33.41413077
SWP-9499	4435	-82.12718242	33.41413393
		Total Pipe Count: 4435	

2025 Fort Gordon Inlet Inventory

Structure ID	GEOS ID	X	Y	Feature Type
SWI-0001	1	-82.14769265	33.4258738	Curb Inlet
SWI-0002	2	-82.14768845	33.42606576	Curb Inlet
SWI-0003	3	-82.1470403	33.42605747	Single-Wing
SWI-0004	4	-82.14704336	33.42593091	Single-Wing
SWI-0005	5	-82.1367794	33.42176568	Weir Trap
SWI-0006	6	-82.14624895	33.42324308	Curb Inlet
SWI-0008	7	-82.14618351	33.4237253	Grate Inlet
SWI-0009	8	-82.14583256	33.42371888	Grate Inlet
SWI-0010	9	-82.14537612	33.42414828	Grate Trap
SWI-0011	10	-82.14610651	33.42416015	Grate Inlet
SWI-0012	11	-82.14640534	33.42578941	Grate Inlet
SWI-0013	12	-82.14616074	33.42578341	Grate Inlet
SWI-0014	13	-82.14592144	33.42578117	Grate Inlet
SWI-0015	14	-82.14538984	33.42575253	Curb Inlet
SWI-0016	15	-82.14597407	33.42613922	Grate Trap
SWI-0017	16	-82.1461651	33.42614473	Grate Trap
SWI-0018	17	-82.14632754	33.42614531	Stormwater Inlet
SWI-0019	18	-82.14623777	33.42785559	Single-Wing
SWI-0023	19	-82.12532098	33.43086281	Grate Inlet
SWI-0024	20	-82.14912493	33.42340137	Single-Wing
SWI-0025	21	-82.15018873	33.42441191	Grate Trap
SWI-0026	22	-82.15215541	33.42440854	Grate Trap
SWI-0027	23	-82.15398704	33.42604137	Single-Wing
SWI-0028	24	-82.15399851	33.42560839	Grate Trap
SWI-0030	25	-82.15059314	33.42603014	Single-Wing
SWI-0031	26	-82.1506017	33.4263031	Double-Wing
SWI-0032	27	-82.15273399	33.42619154	Curb Inlet
SWI-0033	28	-82.14815504	33.42375717	Grate Inlet
SWI-0034	29	-82.14779094	33.42374984	Grate Trap
SWI-0035	30	-82.14782794	33.42417792	Grate Inlet
SWI-0036	31	-82.14730865	33.42417422	Grate Inlet
SWI-0037	32	-82.14775118	33.42459745	Grate Trap
SWI-0038	33	-82.14705908	33.42567472	Single-Wing
SWI-0039	34	-82.1476164	33.4256941	Single-Wing
SWI-0040	35	-82.14686932	33.42587075	Grate Trap
SWI-0041	36	-82.12547186	33.43083595	Grate Inlet
SWI-0042	37	-82.12590257	33.43097897	Single-Wing
SWI-0043	38	-82.12585126	33.43090899	Single-Wing
SWI-0044	39	-82.1263134	33.43085389	Grate Trap
SWI-0047	40	-82.15751748	33.42564008	Curb Inlet
SWI-0049	41	-82.16382236	33.42590942	Grate Inlet
SWI-0051	42	-82.15710952	33.4227887	Curb Inlet
SWI-0052	43	-82.15602325	33.42301436	Grate Inlet
SWI-0053	44	-82.15762293	33.42381455	Stormwater Inlet
SWI-0054	45	-82.15796881	33.42382204	Stormwater Inlet
SWI-0056	46	-82.15994583	33.42343629	Single-Wing
SWI-0058	47	-82.1586581	33.42388585	Curb Inlet
SWI-0059	48	-82.16192927	33.42553307	Stormwater Inlet
SWI-0062	49	-82.15944338	33.42700705	Stormwater Inlet
SWI-0065	50	-82.15735479	33.42544861	Curb Inlet
SWI-0066	51	-82.15760883	33.42491998	Curb Inlet
SWI-0067	52	-82.15763441	33.42478394	Curb Inlet
SWI-0068	53	-82.15777865	33.42456454	Curb Inlet
SWI-0073	54	-82.15679573	33.42423526	Stormwater Inlet
SWI-0074	55	-82.15647286	33.42421519	Stormwater Inlet
SWI-0077	56	-82.15491584	33.42337235	Curb Inlet
SWI-0078	57	-82.1550923	33.42282251	Single-Wing

2025 Fort Gordon Inlet Inventory

SWI-0079	58	-82.15517209	33.42277263	Curb Inlet
SWI-0080	59	-82.15442293	33.42281092	Grate Trap
SWI-0083	60	-82.15019822	33.42379043	Stormwater Inlet
SWI-0084	61	-82.14939332	33.42379983	Grate Trap
SWI-0094	62	-82.14260718	33.42214935	Single-Wing
SWI-0098	63	-82.13982518	33.42768013	Grate Trap
SWI-0100	64	-82.1390498	33.42689749	Stormwater Inlet
SWI-0102	65	-82.13828747	33.42663673	Stormwater Inlet
SWI-0103	66	-82.12086285	33.39700064	Curb Inlet
SWI-0104	67	-82.12112307	33.39729003	Curb Inlet
SWI-0105	68	-82.12119406	33.3970376	Curb Inlet
SWI-0106	69	-82.12132007	33.39750676	Curb Inlet
SWI-0107	70	-82.11876828	33.39514716	Curb Inlet
SWI-0108	71	-82.11813608	33.39480885	Curb Inlet
SWI-0109	72	-82.11844722	33.39465191	Curb Inlet
SWI-0110	73	-82.11752783	33.39448264	Curb Inlet
SWI-0111	74	-82.118211	33.3945357	Curb Inlet
SWI-0112	75	-82.11946776	33.39539278	Catch Basin Inlet
SWI-0116	76	-82.11962101	33.39577904	Curb Inlet
SWI-0117	77	-82.1217038	33.39760426	Curb Inlet
SWI-0118	78	-82.12220377	33.39815736	Curb Inlet
SWI-0119	79	-82.11796072	33.43272112	Curb Inlet
SWI-0120	80	-82.12998207	33.42499708	Weir Trap
SWI-0121	81	-82.13001824	33.42447634	Weir Trap
SWI-0122	82	-82.13395599	33.42490635	Catch Basin Inlet
SWI-0124	83	-82.13564734	33.42386521	Curb Inlet
SWI-0125	84	-82.13549062	33.42380526	Curb Inlet
SWI-0126	85	-82.13628373	33.42371734	Curb Inlet
SWI-0127	86	-82.13626803	33.42380809	Curb Inlet
SWI-0128	87	-82.13649779	33.42380945	Curb Inlet
SWI-0129	88	-82.13563744	33.42437186	Curb Inlet
SWI-0130	89	-82.1375269	33.42388878	Curb Inlet
SWI-0131	90	-82.13751687	33.42426222	Curb Inlet
SWI-0132	91	-82.13769593	33.42384141	Curb Inlet
SWI-0133	92	-82.13682741	33.42381503	Curb Inlet
SWI-0134	93	-82.13682458	33.42387653	Curb Inlet
SWI-0135	94	-82.13754575	33.42318747	Curb Inlet
SWI-0136	95	-82.13717346	33.42318241	Curb Inlet
SWI-0137	96	-82.13777008	33.42274206	Grate Inlet
SWI-0138	97	-82.15007706	33.41674864	Single-Wing
SWI-0139	98	-82.15008916	33.41655451	Single-Wing
SWI-0140	99	-82.15163523	33.41785863	Single-Wing
SWI-0141	100	-82.15019533	33.41828442	Grate Inlet
SWI-0142	101	-82.14975719	33.41870291	Curb Inlet
SWI-0143	102	-82.14850203	33.41707107	None
SWI-0144	103	-82.14726974	33.41649736	Grate Inlet
SWI-0145	104	-82.14690968	33.41636851	Grate Inlet
SWI-0146	105	-82.14641123	33.41617013	Grate Trap
SWI-0147	106	-82.14574117	33.41644523	Grate Trap
SWI-0148	107	-82.14476946	33.4172583	Grate Trap
SWI-0149	108	-82.14526299	33.41697682	Grate Trap
SWI-0150	109	-82.1443844	33.41683832	Grate Inlet
SWI-0151	110	-82.14838352	33.41859628	Single-Wing
SWI-0152	111	-82.14725488	33.41733184	Curb Inlet
SWI-0153	112	-82.14595705	33.41747357	Grate Trap
SWI-0156	113	-82.14539879	33.41843178	Grate Inlet
SWI-0157	114	-82.14605716	33.41855861	Curb Inlet
SWI-0158	115	-82.14480345	33.41855383	Grate Inlet

2025 Fort Gordon Inlet Inventory

SWI-0159	116	-82.13768641	33.42267415	Grate Inlet
SWI-0160	117	-82.13719777	33.42265928	Grate Inlet
SWI-0161	118	-82.13714111	33.42265635	Curb Inlet
SWI-0162	119	-82.13698795	33.4226608	Curb Inlet
SWI-0163	120	-82.13712162	33.42281174	Curb Inlet
SWI-0164	121	-82.13629838	33.42267988	Curb Inlet
SWI-0165	122	-82.13618968	33.42268441	Curb Inlet
SWI-0166	123	-82.13628625	33.42316799	Curb Inlet
SWI-0167	124	-82.13778411	33.42393774	Grate Inlet
SWI-0168	125	-82.13778516	33.42355162	Grate Inlet
SWI-0170	126	-82.13239673	33.42145172	Weir Trap
SWI-0171	127	-82.13264717	33.42129582	Weir Trap
SWI-0172	128	-82.13271856	33.42100317	Weir Trap
SWI-0173	129	-82.1338849	33.42183824	Weir Trap
SWI-0174	130	-82.13812486	33.41860752	Catch Basin Inlet
SWI-0175	131	-82.13852578	33.41527058	Grate Trap
SWI-0176	132	-82.13890606	33.4146448	Grate Inlet
SWI-0177	133	-82.12230469	33.39826787	Curb Inlet
SWI-0178	134	-82.12211437	33.39838577	Curb Inlet
SWI-0179	135	-82.12263419	33.39863191	Curb Inlet
SWI-0180	136	-82.12242524	33.39872661	Curb Inlet
SWI-0181	137	-82.12264373	33.39859001	Grate Inlet
SWI-0182	138	-82.12293799	33.39929654	Curb Inlet
SWI-0183	139	-82.13569268	33.40921752	Grate Inlet
SWI-0184	140	-82.13540293	33.40925481	Grate Inlet
SWI-0185	141	-82.1371635	33.41630152	Catch Basin Inlet
SWI-0186	142	-82.13639756	33.41678985	Catch Basin Inlet
SWI-0187	143	-82.13066683	33.41768999	Grate Trap
SWI-0188	144	-82.13020517	33.41728115	Grate Trap
SWI-0189	145	-82.13144302	33.41714031	Grate Inlet
SWI-0190	146	-82.13115534	33.4171391	Catch Basin Inlet
SWI-0191	147	-82.13100452	33.41713438	Catch Basin Inlet
SWI-0192	148	-82.13161786	33.41638257	Grate Inlet
SWI-0193	149	-82.13154357	33.41626964	Grate Trap
SWI-0194	150	-82.1309935	33.41622975	Grate Trap
SWI-0195	151	-82.13085745	33.41626156	Grate Inlet
SWI-0196	152	-82.13120257	33.41644241	Grate Trap
SWI-0197	153	-82.13167981	33.4168933	Grate Trap
SWI-0198	154	-82.13172842	33.4165536	Other
SWI-0203	155	-82.13255748	33.41508806	Catch Basin Inlet
SWI-0204	156	-82.13239464	33.41490644	Catch Basin Inlet
SWI-0205	157	-82.13038647	33.41539313	Grate Trap
SWI-0206	158	-82.13058093	33.41578	Single-Wing
SWI-0207	159	-82.13086543	33.41570927	Grate Trap
SWI-0208	160	-82.13105972	33.41567527	Grate Inlet
SWI-0209	161	-82.11885249	33.42803004	Grate Inlet
SWI-0210	162	-82.12362492	33.42842	Weir Trap
SWI-0211	163	-82.1271422	33.43063432	Catch Basin Inlet
SWI-0214	164	-82.1280386	33.42893344	Grate Trap
SWI-0216	165	-82.1182482	33.44052226	Grate Inlet
SWI-0217	166	-82.1183709	33.44026659	Grate Trap
SWI-0218	167	-82.11804015	33.4402056	Grate Inlet
SWI-0219	168	-82.11798633	33.44018186	Grate Inlet
SWI-0222	169	-82.11823569	33.43806067	Grate Trap
SWI-0223	170	-82.11820497	33.43770218	Grate Inlet
SWI-0224	171	-82.11818613	33.43756886	Grate Inlet
SWI-0225	172	-82.11777185	33.43483033	Grate Inlet
SWI-0226	173	-82.11775251	33.43439081	Grate Inlet

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SWI-0227	174	-82.14669906	33.42664698	Grate Trap
SWI-0228	175	-82.14670292	33.42650745	Curb Inlet
SWI-0229	176	-82.14537343	33.42647852	Single-Wing
SWI-0230	177	-82.1453156	33.42690226	Grate Inlet
SWI-0231	178	-82.14550623	33.42690716	Grate Inlet
SWI-0233	179	-82.10941186	33.42068975	Weir Trap
SWI-0234	180	-82.11904924	33.42807466	Grate Inlet
SWI-0237	181	-82.15533372	33.41832829	Grate Inlet
SWI-0239	182	-82.15476719	33.41810837	Grate Trap
SWI-0240	183	-82.15508084	33.41782405	Grate Trap
SWI-0242	184	-82.15449469	33.41749537	Grate Trap
SWI-0244	185	-82.15402405	33.41779539	Grate Trap
SWI-0245	186	-82.14784213	33.41817563	Grate Trap
SWI-0246	187	-82.1524255	33.41749395	Curb Inlet
SWI-0247	188	-82.1524171	33.41806506	Single-Wing
SWI-0248	189	-82.15243006	33.41698236	Single-Wing
SWI-0252	190	-82.15621	33.41517814	Headwall
SWI-0254	191	-82.1414073	33.42270884	Single-Wing
SWI-0257	192	-82.18514011	33.41982627	Headwall
SWI-0258	193	-82.18503828	33.41988317	Headwall
SWI-0259	194	-82.18532914	33.42220316	Weir Trap
SWI-0260	195	-82.18523369	33.42218727	Weir Trap
SWI-0261	196	-82.18444443	33.42302046	Weir Trap
SWI-0263	197	-82.18397416	33.42338218	None
SWI-0264	198	-82.1836487	33.42336251	Catch Basin Inlet
SWI-0265	199	-82.18367701	33.42321925	Catch Basin Inlet
SWI-0266	200	-82.18291453	33.42320087	Weir Trap
SWI-0267	201	-82.18293145	33.42283702	Grate Trap
SWI-0268	202	-82.1821251	33.42319034	Weir Trap
SWI-0269	203	-82.18293262	33.42234665	Grate Trap
SWI-0270	204	-82.18180983	33.4231879	Weir Trap
SWI-0271	205	-82.1816273	33.42317439	Weir Trap
SWI-0272	206	-82.18358143	33.41745099	Catch Basin Inlet
SWI-0273	207	-82.18380843	33.41821726	Catch Basin Inlet
SWI-0274	208	-82.18399391	33.4192531	Weir Trap
SWI-0275	209	-82.18375284	33.4192458	Single-Wing
SWI-0276	210	-82.18301071	33.41924751	Headwall
SWI-0277	211	-82.18351111	33.41959484	Other
SWI-0278	212	-82.18345128	33.42010155	Grate Trap
SWI-0279	213	-82.18299409	33.42008131	Single-Wing
SWI-0280	214	-82.18297471	33.42080588	Grate Trap
SWI-0282	215	-82.15794965	33.41855522	Weir Trap
SWI-0283	216	-82.15794096	33.41870826	Catch Basin Inlet
SWI-0284	217	-82.15884133	33.41872911	Weir Trap
SWI-0285	218	-82.15960329	33.4182348	Catch Basin Inlet
SWI-0286	219	-82.15959723	33.41855236	Catch Basin Inlet
SWI-0287	220	-82.15973619	33.41857627	Grate Inlet
SWI-0288	221	-82.15961916	33.41748039	Catch Basin Inlet
SWI-0289	222	-82.16049745	33.41751681	Grate Inlet
SWI-0290	223	-82.16035582	33.41860876	Grate Inlet
SWI-0292	224	-82.14034879	33.42466444	Curb Inlet
SWI-0293	225	-82.14198446	33.42449361	Grate Inlet
SWI-0294	226	-82.14358227	33.42471451	Curb Inlet
SWI-0295	227	-82.14299744	33.42470473	Single-Wing
SWI-0296	228	-82.14299657	33.42466235	Single-Wing
SWI-0297	229	-82.14259378	33.42457796	Single-Wing
SWI-0299	230	-82.1389118	33.42397098	Grate Inlet
SWI-0300	231	-82.14056906	33.42314754	Single-Wing

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SWI-0302	232	-82.14174421	33.42361914	Grate Trap
SWI-0303	233	-82.14213787	33.42331477	Grate Trap
SWI-0304	234	-82.14199528	33.42317211	Single-Wing
SWI-0305	235	-82.14171943	33.42317196	Single-Wing
SWI-0306	236	-82.13852333	33.42367595	Grate Inlet
SWI-0307	237	-82.13887091	33.42371147	Grate Trap
SWI-0308	238	-82.13887916	33.42355797	Grate Trap
SWI-0309	239	-82.13852688	33.42355547	Grate Trap
SWI-0310	240	-82.14086449	33.42424413	Grate Inlet
SWI-0311	241	-82.14405237	33.42429706	Grate Inlet
SWI-0312	242	-82.14366722	33.42403545	Grate Inlet
SWI-0313	243	-82.1427	33.42422235	Grate Inlet
SWI-0315	244	-82.14309529	33.42351489	Grate Trap
SWI-0316	245	-82.14401482	33.42322251	Single-Wing
SWI-0317	246	-82.14359231	33.42321063	Curb Inlet
SWI-0318	247	-82.14299891	33.42291619	Grate Inlet
SWI-0319	248	-82.14330973	33.42291982	Curb Inlet
SWI-0320	249	-82.14000476	33.42267729	Single-Wing
SWI-0321	250	-82.13898147	33.42222642	Single-Wing
SWI-0324	251	-82.14238836	33.4267207	Grate Trap
SWI-0325	252	-82.14265715	33.42756512	Grate Inlet
SWI-0326	253	-82.14372495	33.42640799	Grate Inlet
SWI-0327	254	-82.14469754	33.42723757	Grate Trap
SWI-0328	255	-82.14429551	33.42590118	Grate Trap
SWI-0331	256	-82.14691677	33.42790028	Grate Trap
SWI-0332	257	-82.18191971	33.43000131	Weir Trap
SWI-0333	258	-82.17624844	33.43016471	Headwall
SWI-0334	259	-82.17266532	33.43093521	Weir Trap
SWI-0335	260	-82.17344303	33.43058169	Other
SWI-0336	261	-82.17273752	33.43127968	Weir Trap
SWI-0337	262	-82.16299525	33.42320101	Grate Trap
SWI-0338	263	-82.16199161	33.42300965	Single-Wing
SWI-0341	264	-82.15256911	33.42375895	Grate Inlet
SWI-0343	265	-82.13929154	33.43086186	Daylight
SWI-0344	266	-82.17282514	33.42954624	Weir Trap
SWI-0345	267	-82.17282543	33.42949723	Weir Trap
SWI-0346	268	-82.17282803	33.42944302	Weir Trap
SWI-0347	269	-82.17281691	33.42924099	Other
SWI-0348	270	-82.17269783	33.42910501	Weir Trap
SWI-0349	271	-82.1796711	33.42958446	Weir Trap
SWI-0350	272	-82.17989257	33.42958749	Weir Trap
SWI-0351	273	-82.17989292	33.42954666	Weir Trap
SWI-0352	274	-82.17989742	33.42923029	Weir Trap
SWI-0353	275	-82.17626148	33.42953309	Weir Trap
SWI-0354	276	-82.17626115	33.42961425	Weir Trap
SWI-0355	277	-82.17626618	33.42916981	Headwall
SWI-0356	278	-82.17626218	33.4294935	Weir Trap
SWI-0357	279	-82.12651164	33.4319718	Grate Trap
SWI-0358	280	-82.12625932	33.43204105	Grate Trap
SWI-0359	281	-82.14631415	33.42792267	Single-Wing
SWI-0360	282	-82.14672159	33.42792825	Single-Wing
SWI-0361	283	-82.14672046	33.42801976	Single-Wing
SWI-0364	284	-82.14445215	33.42844161	Curb Inlet
SWI-0366	285	-82.16310829	33.42405426	Curb Inlet
SWI-0368	286	-82.16252934	33.42448709	Grate Trap
SWI-0369	287	-82.16297015	33.42467463	Grate Trap
SWI-0370	288	-82.16301891	33.42453901	Grate Trap
SWI-0371	289	-82.16298383	33.42405604	Grate Trap

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SWI-0372	290	-82.18583873	33.42926515	Grate Trap
SWI-0373	291	-82.18580749	33.42932726	Weir Trap
SWI-0374	292	-82.18455278	33.42954453	Weir Trap
SWI-0375	293	-82.18455734	33.42958485	Weir Trap
SWI-0376	294	-82.18456628	33.42962233	Weir Trap
SWI-0377	295	-82.18416117	33.42976079	Weir Trap
SWI-0378	296	-82.18342094	33.42981238	Weir Trap
SWI-0379	297	-82.18280244	33.42989094	Weir Trap
SWI-0380	298	-82.1500879	33.41870825	Single-Wing
SWI-0383	299	-82.15328215	33.41774688	Grate Trap
SWI-0385	300	-82.15341105	33.41669633	Grate Trap
SWI-0386	301	-82.15337362	33.41649848	Grate Trap
SWI-0388	302	-82.15585434	33.41650966	Grate Trap
SWI-0390	2876	-82.15438744	33.4161692	Grate Inlet
SWI-0391	303	-82.15453226	33.42369101	Daylight
SWI-0392	304	-82.15443793	33.42368796	Single-Wing
SWI-0393	305	-82.15456244	33.42332419	Single-Wing
SWI-0394	306	-82.1552844	33.42290897	Single-Wing
SWI-0395	307	-82.15461452	33.42289958	Single-Wing
SWI-0396	308	-82.15423106	33.42292524	Weir Trap
SWI-0397	309	-82.15422321	33.42275465	Single-Wing
SWI-0398	310	-82.154092	33.42292239	Weir Trap
SWI-0399	311	-82.15409551	33.42280592	Single-Wing
SWI-0400	312	-82.15409068	33.4220319	Weir Trap
SWI-0401	313	-82.15327347	33.42246838	Weir Trap
SWI-0402	314	-82.15327504	33.42287768	Single-Wing
SWI-0403	315	-82.15202525	33.42211054	Single-Wing
SWI-0404	316	-82.15061892	33.42224286	None
SWI-0405	317	-82.15122835	33.42276157	Single-Wing
SWI-0406	318	-82.15123253	33.42284687	Single-Wing
SWI-0407	319	-82.15227833	33.4242772	Single-Wing
SWI-0408	320	-82.15198184	33.42484246	Single-Wing
SWI-0409	321	-82.15176218	33.42483942	Single-Wing
SWI-0410	322	-82.15154095	33.42483543	Double-Wing
SWI-0411	323	-82.15149002	33.42472279	Single-Wing
SWI-0412	324	-82.15129688	33.42483084	Double-Wing
SWI-0413	325	-82.15129753	33.42471968	Single-Wing
SWI-0414	326	-82.151052	33.42482688	Double-Wing
SWI-0415	327	-82.15080647	33.42482349	Single-Wing
SWI-0416	328	-82.15038883	33.42478446	Single-Wing
SWI-0417	329	-82.15018474	33.42481373	Single-Wing
SWI-0418	330	-82.18344354	33.42032121	Grate Trap
SWI-0419	331	-82.18218864	33.42026341	Grate Trap
SWI-0420	332	-82.18220807	33.4199817	Other
SWI-0421	333	-82.17363229	33.42566038	Weir Trap
SWI-0422	334	-82.17491286	33.42721355	Weir Trap
SWI-0423	335	-82.17609667	33.42721011	Other
SWI-0424	336	-82.17490813	33.42736127	Weir Trap
SWI-0425	337	-82.1763192	33.42697452	Weir Trap
SWI-0426	338	-82.17818249	33.42315574	Weir Trap
SWI-0427	339	-82.17803158	33.42315438	Weir Trap
SWI-0428	340	-82.17812783	33.42597151	Weir Trap
SWI-0430	341	-82.17998278	33.42379679	Weir Trap
SWI-0431	342	-82.17998731	33.42332805	Weir Trap
SWI-0432	343	-82.1809698	33.4275514	Grate Trap
SWI-0433	344	-82.17381413	33.4259462	Weir Trap
SWI-0434	345	-82.15670399	33.42267617	Single-Wing

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SWI-0435	346	-82.1524625	33.42275521	Weir Trap
SWI-0437	347	-82.16453876	33.42578024	Grate Trap
SWI-0438	348	-82.16460396	33.42578165	Single-Wing
SWI-0439	349	-82.164692	33.42577678	Single-Wing
SWI-0440	350	-82.16338234	33.42225372	Weir Trap
SWI-0441	351	-82.16319643	33.42220829	Weir Trap
SWI-0442	352	-82.16300306	33.42237946	Weir Trap
SWI-0443	353	-82.16305605	33.42257865	Weir Trap
SWI-0444	354	-82.16285859	33.4230247	Single-Wing
SWI-0445	355	-82.16254207	33.42289531	Grate Trap
SWI-0446	356	-82.16131565	33.42286696	Grate Trap
SWI-0447	357	-82.16126104	33.42291446	Single-Wing
SWI-0448	358	-82.16073631	33.42290713	Single-Wing
SWI-0449	359	-82.16025588	33.42289947	Single-Wing
SWI-0450	360	-82.16024672	33.42298359	Single-Wing
SWI-0451	361	-82.15900554	33.42480298	Single-Wing
SWI-0452	362	-82.16004293	33.42474046	Single-Wing
SWI-0453	363	-82.16014106	33.42474077	Single-Wing
SWI-0454	364	-82.16290139	33.42557412	Single-Wing
SWI-0455	365	-82.16191321	33.42555936	Single-Wing
SWI-0456	366	-82.16193358	33.42570633	Single-Wing
SWI-0457	367	-82.16143145	33.4255522	Single-Wing
SWI-0458	368	-82.16117375	33.4256946	Single-Wing
SWI-0459	369	-82.160783	33.42554276	Single-Wing
SWI-0460	370	-82.16049199	33.42568497	Single-Wing
SWI-0461	371	-82.16049927	33.42553804	Single-Wing
SWI-0462	372	-82.15973851	33.42552652	Single-Wing
SWI-0463	373	-82.15974118	33.42567364	Single-Wing
SWI-0464	374	-82.15973586	33.42576876	Grate Trap
SWI-0465	375	-82.15947382	33.42547727	Double-Wing
SWI-0466	376	-82.15903491	33.42547135	Single-Wing
SWI-0467	377	-82.15903654	33.42551667	Single-Wing
SWI-0468	378	-82.15903473	33.42566335	Single-Wing
SWI-0469	379	-82.1586393	33.42551151	Single-Wing
SWI-0470	380	-82.15886937	33.42533229	Single-Wing
SWI-0471	381	-82.16194749	33.42693824	Weir Trap
SWI-0472	382	-82.16169121	33.42693688	Weir Trap
SWI-0473	383	-82.16154102	33.42693516	Weir Trap
SWI-0474	384	-82.16140001	33.42700601	Weir Trap
SWI-0475	385	-82.16015519	33.42691338	Weir Trap
SWI-0476	386	-82.15965509	33.42690062	Grate Trap
SWI-0477	387	-82.15966274	33.42648533	Single-Wing
SWI-0478	388	-82.15950416	33.42640617	Double-Wing
SWI-0479	389	-82.15972864	33.4228912	Single-Wing
SWI-0480	390	-82.15971281	33.42282372	Grate Trap
SWI-0481	391	-82.15900987	33.42288088	Single-Wing
SWI-0482	392	-82.15898643	33.4228132	Grate Trap
SWI-0483	393	-82.15841098	33.42295569	Single-Wing
SWI-0484	394	-82.15785209	33.42286229	Single-Wing
SWI-0485	395	-82.15735477	33.42285531	Single-Wing
SWI-0486	396	-82.15669049	33.4227513	Single-Wing
SWI-0487	397	-82.15666208	33.4228443	Single-Wing
SWI-0488	398	-82.15634668	33.42292435	Single-Wing
SWI-0489	399	-82.15591436	33.42291859	Single-Wing
SWI-0490	400	-82.15626117	33.42322682	Other
SWI-0491	401	-82.15663492	33.42339803	Single-Wing
SWI-0492	402	-82.15725458	33.42381185	Grate Trap
SWI-0493	403	-82.15730191	33.42341145	Single-Wing

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SWI-0494	404	-82.15780586	33.42324328	Single-Wing
SWI-0495	405	-82.15771365	33.42323011	Single-Wing
SWI-0496	406	-82.15874704	33.42343234	Single-Wing
SWI-0497	407	-82.1592176	33.4234371	Single-Wing
SWI-0498	408	-82.15883314	33.42386694	Single-Wing
SWI-0499	409	-82.15769764	33.42391499	Single-Wing
SWI-0500	410	-82.16062396	33.4244755	Grate Trap
SWI-0501	411	-82.16030095	33.42447172	Hoodback Trap
SWI-0502	412	-82.1587295	33.42429269	Single-Wing
SWI-0504	413	-82.15865175	33.42479919	Single-Wing
SWI-0505	414	-82.18261602	33.41924439	Weir Trap
SWI-0506	415	-82.18217097	33.42081537	Grate Trap
SWI-0507	416	-82.18216927	33.42114024	Grate Trap
SWI-0508	417	-82.18339191	33.42133755	Grate Trap
SWI-0509	418	-82.18296784	33.42129444	Grate Trap
SWI-0510	419	-82.18258713	33.42027163	Single-Wing
SWI-0511	420	-82.18298881	33.42030418	Single-Wing
SWI-0512	421	-82.18214503	33.42131563	Grate Trap
SWI-0513	422	-82.1822054	33.41923549	Weir Trap
SWI-0514	423	-82.18193077	33.41923454	Other
SWI-0515	424	-82.18166945	33.41922422	Other
SWI-0516	425	-82.17246506	33.42896003	Weir Trap
SWI-0517	426	-82.17247153	33.42863374	Weir Trap
SWI-0518	427	-82.17248059	33.42818697	Weir Trap
SWI-0519	428	-82.17273367	33.42842851	Other
SWI-0520	429	-82.17284514	33.42847823	Weir Trap
SWI-0521	430	-82.17283926	33.42851988	Weir Trap
SWI-0522	431	-82.17270629	33.42862139	Other
SWI-0523	432	-82.17199383	33.42878274	Grate Trap
SWI-0524	433	-82.17202167	33.42855569	Other
SWI-0525	434	-82.17202446	33.42849602	Other
SWI-0526	435	-82.17142448	33.42854241	Other
SWI-0527	436	-82.17144783	33.42803282	Other
SWI-0528	437	-82.17178629	33.42782662	Other
SWI-0529	438	-82.17175629	33.42773233	Other
SWI-0530	439	-82.17151973	33.4277171	Other
SWI-0531	440	-82.17102347	33.42676476	Weir Trap
SWI-0532	441	-82.17273345	33.42732634	Weir Trap
SWI-0533	442	-82.17036039	33.42650807	Weir Trap
SWI-0534	443	-82.17991138	33.42862571	Weir Trap
SWI-0535	444	-82.17992385	33.42830332	Weir Trap
SWI-0536	445	-82.17992556	33.42810281	Weir Trap
SWI-0537	446	-82.18101588	33.42830203	Grate Trap
SWI-0538	447	-82.18034165	33.42829033	Grate Trap
SWI-0539	448	-82.17994135	33.42744077	Weir Trap
SWI-0540	449	-82.17994604	33.4272868	Weir Trap
SWI-0541	450	-82.17628342	33.42861349	Headwall
SWI-0542	451	-82.17629325	33.42824719	Weir Trap
SWI-0543	452	-82.17631775	33.42738216	Weir Trap
SWI-0544	453	-82.17613047	33.42741201	Weir Trap
SWI-0545	454	-82.17629274	33.42804348	Weir Trap
SWI-0546	455	-82.17276333	33.41480818	Weir Trap
SWI-0547	456	-82.17299894	33.41481469	Weir Trap
SWI-0548	457	-82.17299355	33.41499452	Weir Trap
SWI-0549	458	-82.17132031	33.4147902	
SWI-0550	459	-82.17065594	33.41477982	
SWI-0551	460	-82.17084381	33.41478195	
SWI-0552	461	-82.17087364	33.41621784	Single-Wing

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SWI-0553	462	-82.16936857	33.41616857	
SWI-0554	463	-82.16947689	33.41596085	
SWI-0555	464	-82.16838262	33.4160269	
SWI-0556	465	-82.17927588	33.41486757	Weir Trap
SWI-0557	466	-82.17820606	33.41484864	Headwall
SWI-0558	467	-82.17762675	33.41538672	Weir Trap
SWI-0559	468	-82.17735304	33.41551477	Grate Trap
SWI-0560	469	-82.17654116	33.41595744	Grate Trap
SWI-0561	470	-82.17636403	33.41626039	Weir Trap
SWI-0562	471	-82.17635927	33.41653496	Weir Trap
SWI-0563	472	-82.17654269	33.41653855	Weir Trap
SWI-0564	473	-82.17471167	33.41897543	Grate Trap
SWI-0565	474	-82.17810879	33.41916104	Other
SWI-0566	475	-82.17862322	33.41916984	Weir Trap
SWI-0567	476	-82.18000024	33.41508167	Weir Trap
SWI-0568	477	-82.17998565	33.4155878	Weir Trap
SWI-0569	478	-82.18176603	33.41658441	Weir Trap
SWI-0570	479	-82.17994089	33.4191886	Headwall
SWI-0571	480	-82.17933889	33.41917796	Weir Trap
SWI-0572	481	-82.1804111	33.41919156	Headwall
SWI-0573	482	-82.17997207	33.42600274	Weir Trap
SWI-0574	483	-82.17996435	33.42620513	Weir Trap
SWI-0575	484	-82.17622265	33.4204357	Grate Trap
SWI-0576	485	-82.17835019	33.42097495	Other
SWI-0577	486	-82.17391259	33.42162956	Single-Wing
SWI-0578	487	-82.17375731	33.42151218	Single-Wing
SWI-0579	488	-82.17459371	33.42194348	
SWI-0580	489	-82.174083	33.42245259	Grate Trap
SWI-0582	490	-82.1738062	33.4225282	
SWI-0583	491	-82.17241155	33.42304841	Grate Trap
SWI-0584	492	-82.17200542	33.42342325	Grate Trap
SWI-0585	493	-82.17215524	33.42328028	Grate Trap
SWI-0586	494	-82.17187699	33.4236162	Grate Trap
SWI-0587	495	-82.17283004	33.42305599	Weir Trap
SWI-0588	496	-82.17037739	33.4231265	Daylight
SWI-0589	497	-82.16999232	33.42292452	
SWI-0590	498	-82.12587774	33.43212855	Double-Wing
SWI-0591	499	-82.12566326	33.43208823	Grate Trap
SWI-0592	500	-82.12527507	33.4319646	Grate Trap
SWI-0593	501	-82.12671882	33.43184582	Grate Trap
SWI-0594	502	-82.12699944	33.43180068	Single-Wing
SWI-0595	503	-82.12505771	33.43184257	Grate Trap
SWI-0596	504	-82.12544584	33.43204536	Grate Trap
SWI-0597	505	-82.12474573	33.43179327	Single-Wing
SWI-0598	506	-82.12525952	33.43212408	Single-Wing
SWI-0599	507	-82.12546396	33.43219216	Single-Wing
SWI-0600	508	-82.12568185	33.43223235	Single-Wing
SWI-0601	509	-82.12585021	33.43224108	Single-Wing
SWI-0602	510	-82.12608582	33.43222752	Single-Wing
SWI-0603	511	-82.12632473	33.43218245	Single-Wing
SWI-0604	512	-82.12653595	33.43210853	Single-Wing
SWI-0605	513	-82.12543528	33.43097042	Single-Wing
SWI-0606	514	-82.1265418	33.43016224	Grate Trap
SWI-0607	515	-82.1265545	33.42976916	Grate Trap
SWI-0608	516	-82.12721345	33.43004939	Double-Wing
SWI-0609	517	-82.12580294	33.42948981	Single-Wing
SWI-0610	518	-82.12595317	33.42948979	Single-Wing

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SWI-0611	519	-82.12464257	33.42943296	Single-Wing
SWI-0612	520	-82.12464298	33.42934682	Single-Wing
SWI-0613	521	-82.12384821	33.42915127	Double-Wing
SWI-0614	522	-82.12366385	33.42916677	Weir Trap
SWI-0615	523	-82.12361625	33.42943312	Single-Wing
SWI-0616	524	-82.1236164	33.4293469	Single-Wing
SWI-0617	525	-82.1234323	33.43032765	Double-Wing
SWI-0618	526	-82.12514313	33.43054139	Grate Trap
SWI-0619	527	-82.17612493	33.42324853	Grate Trap
SWI-0620	528	-82.15510339	33.42546002	Single-Wing
SWI-0621	529	-82.15550224	33.42488248	Single-Wing
SWI-0622	530	-82.15520199	33.42487706	Single-Wing
SWI-0623	531	-82.15520532	33.42482707	Single-Wing
SWI-0624	532	-82.15475959	33.4248709	Single-Wing
SWI-0625	533	-82.15441036	33.42490337	Single-Wing
SWI-0626	534	-82.15442407	33.42426596	Single-Wing
SWI-0627	535	-82.15452042	33.4242681	Single-Wing
SWI-0628	536	-82.1554932	33.42436222	Grate Trap
SWI-0629	537	-82.15584234	33.42422211	Grate Trap
SWI-0630	538	-82.15584049	33.42432623	Grate Trap
SWI-0631	539	-82.14585974	33.42649536	Single-Wing
SWI-0632	540	-82.14563363	33.42655415	Grate Trap
SWI-0633	541	-82.14557915	33.42648906	Single-Wing
SWI-0634	542	-82.14529963	33.42668358	Grate Trap
SWI-0635	543	-82.12385002	33.42897366	Double-Wing
SWI-0636	544	-82.12385249	33.42879449	Double-Wing
SWI-0637	545	-82.12385057	33.42861133	Single-Wing
SWI-0638	546	-82.12317064	33.42858449	Single-Wing
SWI-0639	547	-82.12384996	33.42824391	Double-Wing
SWI-0640	548	-82.12385296	33.42841994	Double-Wing
SWI-0641	549	-82.12384842	33.4280624	Single-Wing
SWI-0642	550	-82.12235967	33.42646709	Grate Trap
SWI-0643	551	-82.12280046	33.42667968	Grate Trap
SWI-0644	552	-82.12193621	33.42660855	Grate Trap
SWI-0645	553	-82.12104136	33.4266968	Single-Wing
SWI-0646	554	-82.12116538	33.42669573	Single-Wing
SWI-0647	555	-82.12115995	33.4266053	Single-Wing
SWI-0648	556	-82.16763569	33.40735028	
SWI-0649	557	-82.11694814	33.42849549	Grate Trap
SWI-0650	558	-82.11696799	33.42861821	Grate Trap
SWI-0651	559	-82.11667948	33.42852535	Grate Trap
SWI-0652	560	-82.11632711	33.42857953	Grate Trap
SWI-0653	561	-82.11586392	33.42865569	Grate Trap
SWI-0655	562	-82.15353719	33.40936509	Weir Trap
SWI-0657	563	-82.15977091	33.40255095	Other
SWI-0658	564	-82.13619165	33.41118655	Grate Trap
SWI-0659	565	-82.13368796	33.40094891	
SWI-0660	566	-82.1327919	33.40106849	
SWI-0661	567	-82.13073539	33.40127006	Weir Trap
SWI-0662	568	-82.1301315	33.40134867	Weir Trap
SWI-0663	569	-82.13072355	33.40062617	Single-Wing
SWI-0664	570	-82.1291297	33.40058259	Single-Wing
SWI-0665	571	-82.15571104	33.42684859	Catch Basin Inlet
SWI-0666	572	-82.15562054	33.42684875	Weir Trap
SWI-0667	573	-82.15549124	33.42684644	Grate Trap
SWI-0668	574	-82.15534679	33.42684185	Weir Trap
SWI-0669	575	-82.15790373	33.42579156	Grate Trap
SWI-0671	576	-82.15734822	33.42578414	Grate Trap

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SWI-0672	577	-82.15786956	33.42546893	Grate Trap
SWI-0673	578	-82.15765913	33.42546216	Single-Wing
SWI-0674	579	-82.15760348	33.42529713	Single-Wing
SWI-0675	580	-82.15760048	33.42543942	Single-Wing
SWI-0676	581	-82.15751743	33.4254942	Single-Wing
SWI-0677	582	-82.15699069	33.42544179	Single-Wing
SWI-0678	583	-82.15660716	33.42562791	Single-Wing
SWI-0679	584	-82.15661094	33.42543722	Single-Wing
SWI-0681	585	-82.15683552	33.42485047	Single-Wing
SWI-0682	586	-82.15683826	33.42477283	Single-Wing
SWI-0683	587	-82.15680866	33.42433717	Grate Trap
SWI-0684	588	-82.15578577	33.42561667	Single-Wing
SWI-0685	589	-82.15579647	33.4254706	Single-Wing
SWI-0686	590	-82.15580081	33.42520593	Single-Wing
SWI-0687	591	-82.15580502	33.42503271	Single-Wing
SWI-0688	592	-82.15606303	33.4248397	Single-Wing
SWI-0689	593	-82.15606783	33.42475966	Single-Wing
SWI-0690	594	-82.15787138	33.42319987	Single-Wing
SWI-0691	595	-82.1478964	33.42606504	Single-Wing
SWI-0692	596	-82.14778981	33.42606531	Single-Wing
SWI-0693	597	-82.14887725	33.42653924	Grate Trap
SWI-0694	598	-82.14899117	33.42684786	Single-Wing
SWI-0695	599	-82.14801724	33.42682694	Single-Wing
SWI-0696	600	-82.14788229	33.42650707	Single-Wing
SWI-0697	601	-82.14778039	33.42650449	Single-Wing
SWI-0698	602	-82.14741504	33.42663656	Grate Trap
SWI-0699	603	-82.14787848	33.42702802	Double-Wing
SWI-0700	604	-82.14766499	33.42776895	Single-Wing
SWI-0701	605	-82.12245708	33.42620678	Double-Wing
SWI-0702	606	-82.12106032	33.42777677	Weir Trap
SWI-0703	607	-82.12237846	33.42837999	Single-Wing
SWI-0704	608	-82.12239074	33.42846505	Single-Wing
SWI-0705	609	-82.12022563	33.42866891	Double-Wing
SWI-0706	610	-82.12016278	33.42873689	Double-Wing
SWI-0707	611	-82.11767971	33.42862208	Grate Trap
SWI-0708	612	-82.1173455	33.42860563	Grate Trap
SWI-0709	613	-82.11771143	33.42850773	Grate Trap
SWI-0710	614	-82.11737088	33.42848759	Grate Trap
SWI-0711	615	-82.15018923	33.42470184	Single-Wing
SWI-0712	616	-82.14994137	33.42480893	Single-Wing
SWI-0713	617	-82.1539574	33.4255897	Single-Wing
SWI-0714	618	-82.15357654	33.4256002	Grate Trap
SWI-0715	619	-82.15315753	33.42557707	Single-Wing
SWI-0716	620	-82.15315783	33.42543331	Single-Wing
SWI-0717	621	-82.1522089	33.42559223	Weir Trap
SWI-0718	622	-82.15095871	33.42554303	Single-Wing
SWI-0719	623	-82.15095924	33.42539765	Single-Wing
SWI-0720	624	-82.15039793	33.42553897	Single-Wing
SWI-0721	625	-82.15007777	33.4255454	Grate Trap
SWI-0722	626	-82.14972659	33.42574631	Single-Wing
SWI-0723	627	-82.15072702	33.42564987	Double-Wing
SWI-0724	628	-82.15083806	33.42619884	Single-Wing
SWI-0725	629	-82.15086909	33.42616193	Single-Wing
SWI-0726	630	-82.15076281	33.42283995	Single-Wing
SWI-0727	631	-82.15056247	33.42283683	Single-Wing
SWI-0728	632	-82.15056337	33.4226667	Single-Wing
SWI-0729	633	-82.15055999	33.42275154	Single-Wing
SWI-0730	634	-82.15018004	33.42283132	Single-Wing

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SWI-0731	635	-82.14951754	33.42286545	Grate Trap
SWI-0732	636	-82.14949489	33.42265582	Other
SWI-0733	637	-82.1492394	33.42283905	Single-Wing
SWI-0734	638	-82.14904071	33.42281346	Single-Wing
SWI-0735	639	-82.1490399	33.42272847	Single-Wing
SWI-0736	640	-82.14845822	33.42291737	Single-Wing
SWI-0737	641	-82.15230131	33.42335493	Single-Wing
SWI-0738	642	-82.15194111	33.42333796	Single-Wing
SWI-0739	643	-82.15228788	33.42384945	Single-Wing
SWI-0740	644	-82.15178977	33.42381628	None
SWI-0741	645	-82.15128725	33.42381018	None
SWI-0742	646	-82.15126012	33.42332794	Single-Wing
SWI-0743	647	-82.15061603	33.42331149	Grate Trap
SWI-0744	648	-82.15060321	33.42380622	Grate Trap
SWI-0745	649	-82.14954881	33.42329897	Single-Wing
SWI-0746	650	-82.14900166	33.42357665	Single-Wing
SWI-0747	651	-82.14843833	33.42379776	Single-Wing
SWI-0748	652	-82.1483421	33.42379687	Single-Wing
SWI-0749	653	-82.14908849	33.42481878	Single-Wing
SWI-0750	654	-82.1490244	33.4247626	Single-Wing
SWI-0751	655	-82.14909301	33.42459991	Single-Wing
SWI-0752	656	-82.14934039	33.42454894	Grate Trap
SWI-0754	657	-82.15137425	33.42424582	Grate Trap
SWI-0755	658	-82.15177923	33.4242517	Grate Trap
SWI-0756	659	-82.15955151	33.42639577	Single-Wing
SWI-0758	660	-82.15835832	33.42690572	Manhole
SWI-0759	661	-82.15819532	33.42690485	Manhole
SWI-0760	662	-82.15792041	33.42690399	Manhole
SWI-0761	663	-82.15780853	33.42690423	Manhole
SWI-0762	664	-82.15759154	33.42694923	Weir Trap
SWI-0763	665	-82.1574143	33.42686945	Weir Trap
SWI-0764	666	-82.15721092	33.42686616	Weir Trap
SWI-0765	667	-82.15699458	33.42686705	Weir Trap
SWI-0766	668	-82.15676072	33.4268636	Weir Trap
SWI-0767	669	-82.15623384	33.42685386	Weir Trap
SWI-0768	670	-82.14637033	33.4269354	Grate Trap
SWI-0769	671	-82.13716086	33.42128988	Weir Trap
SWI-0770	672	-82.14659168	33.42297935	Grate Trap
SWI-0771	673	-82.1463135	33.42277266	Single-Wing
SWI-0772	674	-82.14650409	33.42344172	Grate Trap
SWI-0773	675	-82.14653208	33.42386644	Grate Trap
SWI-0775	676	-82.1452515	33.42275672	Single-Wing
SWI-0776	677	-82.14523613	33.42323695	Grate Trap
SWI-0777	678	-82.14490572	33.4235472	Grate Trap
SWI-0778	679	-82.14516677	33.42397685	Single-Wing
SWI-0779	680	-82.14507039	33.42397079	Single-Wing
SWI-0780	681	-82.14506594	33.42415475	Single-Wing
SWI-0781	682	-82.14617349	33.42431236	Grate Trap
SWI-0782	683	-82.14628129	33.42463758	Single-Wing
SWI-0783	684	-82.14627971	33.42471654	Single-Wing
SWI-0784	685	-82.1462196	33.4247479	Single-Wing
SWI-0785	686	-82.14542606	33.42473515	Single-Wing
SWI-0786	687	-82.14523155	33.424732	Single-Wing
SWI-0787	688	-82.14523061	33.42469938	Single-Wing
SWI-0788	689	-82.14520568	33.42461986	Single-Wing
SWI-0789	690	-82.14536687	33.42454839	Grate Trap
SWI-0790	691	-82.14536836	33.42448684	Grate Trap
SWI-0791	692	-82.14532137	33.42554906	Grate Trap

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SWI-0792	693	-82.14564557	33.42545664	Double-Wing
SWI-0793	694	-82.14670599	33.42578489	Single-Wing
SWI-0794	695	-82.14664436	33.42578247	Single-Wing
SWI-0795	696	-82.14565888	33.42576741	Single-Wing
SWI-0796	697	-82.14663509	33.42614766	Single-Wing
SWI-0797	698	-82.14669708	33.42614709	Single-Wing
SWI-0798	699	-82.14688501	33.42694194	Grate Trap
SWI-0799	700	-82.14681065	33.42647883	Grate Trap
SWI-0800	701	-82.14642242	33.42650279	Single-Wing
SWI-0801	702	-82.14650246	33.42656835	Grate Trap
SWI-0802	703	-82.14614821	33.42649884	Single-Wing
SWI-0803	704	-82.13401816	33.40881759	Weir Trap
SWI-0804	705	-82.13386996	33.40890737	Other
SWI-0805	706	-82.12948527	33.41404112	Grate Trap
SWI-0806	707	-82.12931499	33.41351407	Weir Trap
SWI-0807	708	-82.12883142	33.4135534	
SWI-0808	709	-82.12920433	33.41382504	Other
SWI-0809	710	-82.12914694	33.41376974	Grate Trap
SWI-0810	711	-82.12891848	33.41351603	Grate Trap
SWI-0811	712	-82.12909406	33.41330161	Weir Trap
SWI-0812	713	-82.12879678	33.41299259	Grate Trap
SWI-0813	714	-82.12856808	33.41313264	Other
SWI-0814	715	-82.1306708	33.41306769	Grate Trap
SWI-0815	716	-82.13099164	33.41344062	Weir Trap
SWI-0817	717	-82.13284175	33.41458229	Weir Trap
SWI-0818	718	-82.13647695	33.40464496	Single-Wing
SWI-0819	719	-82.13653579	33.40471389	Weir Trap
SWI-0820	720	-82.13558592	33.40532047	Double-Wing
SWI-0821	721	-82.13552237	33.40525143	Double-Wing
SWI-0822	722	-82.13531661	33.40538322	Single-Wing
SWI-0823	723	-82.13481386	33.40570273	Single-Wing
SWI-0824	724	-82.13438819	33.40588027	Single-Wing
SWI-0825	725	-82.13466829	33.40647752	Single-Wing
SWI-0826	726	-82.13621241	33.40752147	Grate Trap
SWI-0827	727	-82.13697744	33.40892931	Weir Trap
SWI-0828	728	-82.13695779	33.40901574	Double-Wing
SWI-0829	729	-82.13747008	33.40904459	Single-Wing
SWI-0830	730	-82.13651141	33.40905458	Single-Wing
SWI-0831	731	-82.12931109	33.40055517	Single-Wing
SWI-0832	732	-82.12930037	33.40146096	None
SWI-0833	733	-82.12465243	33.4008589	Single-Wing
SWI-0834	734	-82.1193374	33.39751812	Single-Wing
SWI-0835	735	-82.11913047	33.39748695	Single-Wing
SWI-0836	736	-82.1192063	33.39742287	Single-Wing
SWI-0837	737	-82.11912466	33.39769774	Single-Wing
SWI-0838	738	-82.11922636	33.39799149	Single-Wing
SWI-0839	739	-82.11897674	33.39869827	Single-Wing
SWI-0840	740	-82.11886283	33.39836623	
SWI-0841	741	-82.11848833	33.39809816	Single-Wing
SWI-0842	742	-82.11780869	33.39801588	Grate Trap
SWI-0843	743	-82.11787766	33.39762707	Single-Wing
SWI-0844	744	-82.1179121	33.39756392	Single-Wing
SWI-0845	745	-82.1174242	33.39806163	Single-Wing
SWI-0846	746	-82.11857321	33.39815236	Single-Wing
SWI-0847	747	-82.11803263	33.39871125	Grate Trap
SWI-0848	748	-82.11794126	33.39867728	Double-Wing
SWI-0849	749	-82.11743855	33.39892076	Single-Wing
SWI-0850	750	-82.11735907	33.39897816	Single-Wing

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SWI-0851	751	-82.11672635	33.39573065	Single-Wing
SWI-0852	752	-82.11683309	33.39611778	Grate Trap
SWI-0853	753	-82.11577113	33.39649938	Double-Wing
SWI-0854	754	-82.11585014	33.39655787	Single-Wing
SWI-0855	755	-82.11576467	33.39673555	Single-Wing
SWI-0856	756	-82.11570751	33.39681086	Double-Wing
SWI-0858	757	-82.13780932	33.42252048	Weir Trap
SWI-0859	758	-82.13676917	33.42250827	Weir Trap
SWI-0861	759	-82.13782035	33.42130254	Weir Trap
SWI-0862	760	-82.13749494	33.4212951	Weir Trap
SWI-0863	761	-82.13808827	33.42130459	Weir Trap
SWI-0864	762	-82.12415434	33.40197788	Grate Trap
SWI-0865	763	-82.12412188	33.40220151	Grate Trap
SWI-0866	764	-82.16567246	33.40008251	Weir Trap
SWI-0867	765	-82.13170976	33.39624381	Weir Trap
SWI-0868	766	-82.13004986	33.39730485	Single-Wing
SWI-0869	767	-82.12954139	33.39763511	Single-Wing
SWI-0870	768	-82.12946749	33.39768746	Single-Wing
SWI-0871	769	-82.12795095	33.39863192	Single-Wing
SWI-0872	770	-82.12974085	33.3991482	Single-Wing
SWI-0873	771	-82.12990931	33.39824098	Single-Wing
SWI-0874	772	-82.13026779	33.39801916	Single-Wing
SWI-0875	773	-82.13061164	33.4001735	Single-Wing
SWI-0876	774	-82.12862679	33.39998405	Single-Wing
SWI-0877	775	-82.13076007	33.39942638	Double-Wing
SWI-0878	776	-82.12835593	33.39909596	Double-Wing
SWI-0879	777	-82.12817614	33.39921993	Single-Wing
SWI-0880	778	-82.1285073	33.39890736	Single-Wing
SWI-0881	779	-82.12822483	33.39865721	Single-Wing
SWI-0882	780	-82.12815928	33.3987074	Single-Wing
SWI-0883	781	-82.1299461	33.39865615	Weir Trap
SWI-0884	782	-82.11887011	33.39622526	Double-Wing
SWI-0885	783	-82.1198294	33.39686809	Double-Wing
SWI-0886	784	-82.11975476	33.39693245	Double-Wing
SWI-0887	785	-82.11975976	33.39703676	Double-Wing
SWI-0888	786	-82.11984539	33.39709028	Single-Wing
SWI-0889	787	-82.12040901	33.3975042	Single-Wing
SWI-0890	788	-82.12177158	33.3980046	Single-Wing
SWI-0891	789	-82.12201587	33.39827387	Double-Wing
SWI-0892	790	-82.11613777	33.42872758	Grate Trap
SWI-0893	791	-82.11576523	33.42878672	Grate Trap
SWI-0894	792	-82.11537196	33.42882073	Grate Trap
SWI-0895	793	-82.11525484	33.42870511	Grate Trap
SWI-0896	794	-82.11491095	33.42882092	Grate Trap
SWI-0897	795	-82.11506223	33.42882352	Grate Trap
SWI-0898	796	-82.1145153	33.42885181	Grate Trap
SWI-0899	797	-82.11393328	33.42890002	Grate Trap
SWI-0900	798	-82.11449704	33.42873764	Grate Trap
SWI-0901	799	-82.11418989	33.42874502	Grate Trap
SWI-0902	800	-82.11337004	33.42881809	Grate Trap
SWI-0903	801	-82.10851518	33.4221487	None
SWI-0904	802	-82.10777082	33.42196736	Grate Trap
SWI-0905	803	-82.10917212	33.42164412	Weir Trap
SWI-0906	804	-82.10947042	33.42107765	Grate Trap
SWI-0908	805	-82.09957799	33.4236307	None
SWI-0909	806	-82.10677067	33.42476043	Manhole
SWI-0910	807	-82.17841117	33.41353055	Headwall
SWI-0911	808	-82.17823903	33.41352786	Weir Trap

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SWI-0912	809	-82.17620819	33.4122969	Weir Trap
SWI-0913	810	-82.17601922	33.41230208	Weir Trap
SWI-0914	811	-82.17688261	33.41231127	Grate Trap
SWI-0915	812	-82.17755867	33.4122234	Weir Trap
SWI-0916	813	-82.1777265	33.41221386	Weir Trap
SWI-0917	814	-82.17825397	33.41218908	Weir Trap
SWI-0919	815	-82.17600536	33.4133337	Weir Trap
SWI-0920	816	-82.17600506	33.41351484	Weir Trap
SWI-0921	817	-82.1818153	33.40948323	
SWI-0922	818	-82.18114796	33.40930962	Grate Trap
SWI-0923	819	-82.18079967	33.4090358	Grate Trap
SWI-0924	820	-82.17831608	33.40885274	Weir Trap
SWI-0925	821	-82.17604027	33.41197428	Weir Trap
SWI-0926	822	-82.17604109	33.41184726	Weir Trap
SWI-0927	823	-82.17646123	33.41093633	Grate Trap
SWI-0931	824	-82.17312147	33.40894403	Weir Trap
SWI-0932	825	-82.17315467	33.4074211	Weir Trap
SWI-0933	826	-82.17316012	33.40726428	Weir Trap
SWI-0934	827	-82.17274974	33.40416646	Weir Trap
SWI-0935	828	-82.17174307	33.40400622	Weir Trap
SWI-0936	829	-82.1716599	33.40393528	Weir Trap
SWI-0937	830	-82.177667	33.40525253	Other
SWI-0938	831	-82.17651158	33.40585865	Weir Trap
SWI-0939	832	-82.17210469	33.40439378	Weir Trap
SWI-0940	833	-82.17322343	33.40500963	Weir Trap
SWI-0941	834	-82.17136608	33.40465597	Weir Trap
SWI-0942	835	-82.1718413	33.40505899	Weir Trap
SWI-0943	836	-82.17291516	33.40559426	Weir Trap
SWI-0944	837	-82.17261303	33.40557942	Weir Trap
SWI-0945	838	-82.17236282	33.40538837	Weir Trap
SWI-0946	839	-82.17319507	33.40559643	Weir Trap
SWI-0947	840	-82.17343691	33.40584435	Grate Trap
SWI-0948	841	-82.17388633	33.40588302	Grate Trap
SWI-0949	842	-82.17632943	33.40595076	Other
SWI-0950	843	-82.14722508	33.41459853	Weir Trap
SWI-0951	844	-82.15731618	33.41437708	Weir Trap
SWI-0952	845	-82.15919123	33.41390372	None
SWI-0953	846	-82.15953765	33.41387527	None
SWI-0954	847	-82.16024029	33.41383484	None
SWI-0955	848	-82.16046818	33.41382993	None
SWI-0956	849	-82.16051364	33.41399533	None
SWI-0957	850	-82.16050765	33.41426278	None
SWI-0958	851	-82.16052554	33.41379386	Weir Trap
SWI-0959	852	-82.15115887	33.42629873	Single-Wing
SWI-0960	853	-82.15119169	33.42617011	Single-Wing
SWI-0961	854	-82.1515076	33.42617287	Single-Wing
SWI-0962	855	-82.15177892	33.42631016	Single-Wing
SWI-0963	856	-82.15179843	33.42617972	Single-Wing
SWI-0964	857	-82.15206952	33.42618136	Single-Wing
SWI-0965	858	-82.1520754	33.42631501	Single-Wing
SWI-0966	859	-82.15218342	33.4268601	Weir Trap
SWI-0967	860	-82.15239876	33.42633406	Grate Trap
SWI-0968	861	-82.15282087	33.42634648	Single-Wing
SWI-0969	862	-82.15362817	33.42635848	Single-Wing
SWI-0970	863	-82.14818054	33.42271543	Single-Wing
SWI-0971	864	-82.14817779	33.4228001	Single-Wing
SWI-0972	865	-82.14746187	33.42261082	Single-Wing
SWI-0973	866	-82.14701439	33.42278267	Single-Wing

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SWI-0974	867	-82.14731483	33.42325883	None
SWI-0975	868	-82.14797079	33.42326989	Single-Wing
SWI-0976	869	-82.14741368	33.42374598	Grate Trap
SWI-0977	870	-82.14816505	33.42436479	Grate Trap
SWI-0978	871	-82.14731303	33.42436886	Grate Trap
SWI-0979	872	-82.14757657	33.42465926	Single-Wing
SWI-0980	873	-82.14757379	33.42473847	Single-Wing
SWI-0981	874	-82.14776571	33.42477472	Single-Wing
SWI-0982	875	-82.14722287	33.42476569	Single-Wing
SWI-0983	876	-82.14704336	33.42476252	Single-Wing
SWI-0984	877	-82.14710129	33.42533517	Single-Wing
SWI-0985	878	-82.14777626	33.4255526	Single-Wing
SWI-0986	879	-82.14792995	33.425558	Single-Wing
SWI-0987	880	-82.14792905	33.42575108	Single-Wing
SWI-0988	881	-82.13808539	33.40504078	Grate Trap
SWI-0989	882	-82.13825155	33.40510786	Single-Wing
SWI-0990	883	-82.13934042	33.40512453	Other
SWI-0991	884	-82.13888562	33.40529599	Other
SWI-0992	885	-82.1391878	33.40562928	Other
SWI-0993	886	-82.13872174	33.40591346	Grate Trap
SWI-0994	887	-82.13729637	33.40571414	Single-Wing
SWI-0995	888	-82.13724928	33.40564049	Weir Trap
SWI-0996	889	-82.13752656	33.40615162	Grate Trap
SWI-0997	890	-82.13786567	33.40602398	
SWI-0998	891	-82.13778396	33.40648007	Grate Trap
SWI-0999	892	-82.13679435	33.40661752	Grate Trap
SWI-1000	893	-82.13665435	33.40613861	Single-Wing
SWI-1001	894	-82.13659724	33.4059873	Grate Trap
SWI-1002	895	-82.13613641	33.40628198	Grate Trap
SWI-1003	896	-82.13623797	33.40639592	Double-Wing
SWI-1004	897	-82.13587012	33.40646829	Grate Trap
SWI-1005	898	-82.13394915	33.40717005	Single-Wing
SWI-1006	899	-82.13381605	33.40702266	Single-Wing
SWI-1007	900	-82.13454303	33.40619445	Single-Wing
SWI-1008	901	-82.13543354	33.40690822	Single-Wing
SWI-1009	902	-82.13489914	33.40659234	Single-Wing
SWI-1010	903	-82.13375056	33.40517686	Single-Wing
SWI-1011	904	-82.13436367	33.40545011	Grate Trap
SWI-1012	905	-82.13424993	33.40505142	
SWI-1013	906	-82.1338502	33.40463451	
SWI-1014	907	-82.13565871	33.40409843	
SWI-1015	908	-82.13521712	33.40486448	Grate Trap
SWI-1016	909	-82.13593969	33.40442576	Grate Trap
SWI-1017	910	-82.13609676	33.40488772	Single-Wing
SWI-1018	911	-82.13135864	33.404846	Double-Wing
SWI-1019	912	-82.13142192	33.40491227	Double-Wing
SWI-1020	913	-82.12742955	33.4018099	Weir Trap
SWI-1021	914	-82.12740288	33.40182468	Weir Trap
SWI-1022	915	-82.12937613	33.40606762	Weir Trap
SWI-1023	916	-82.13235895	33.40935785	Weir Trap
SWI-1024	917	-82.13217201	33.4094735	Weir Trap
SWI-1027	918	-82.14395815	33.41664059	Double-Wing
SWI-1028	919	-82.14412523	33.4166417	Single-Wing
SWI-1029	920	-82.14396715	33.41609263	Grate Trap
SWI-1030	921	-82.14401999	33.41599342	Single-Wing
SWI-1031	922	-82.14919079	33.41798247	Single-Wing
SWI-1032	923	-82.14884653	33.41797814	Single-Wing
SWI-1033	924	-82.1485258	33.41815703	Single-Wing

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SWI-1034	925	-82.14837837	33.41868101	Single-Wing
SWI-1035	926	-82.14700943	33.41792557	Single-Wing
SWI-1036	927	-82.14711224	33.41792773	Single-Wing
SWI-1037	928	-82.14758984	33.41719616	Double-Wing
SWI-1038	929	-82.14725766	33.4171216	Grate Trap
SWI-1039	930	-82.14713588	33.41698511	Single-Wing
SWI-1040	931	-82.14702617	33.41705094	Single-Wing
SWI-1041	932	-82.14692047	33.41720997	Double-Wing
SWI-1042	933	-82.14618074	33.417199	Single-Wing
SWI-1043	934	-82.14607125	33.41806839	Single-Wing
SWI-1044	935	-82.14605711	33.4177744	Single-Wing
SWI-1045	936	-82.14606521	33.41750023	Single-Wing
SWI-1046	937	-82.1463957	33.41807132	Single-Wing
SWI-1047	938	-82.14538506	33.41810637	Single-Wing
SWI-1048	939	-82.12780403	33.4008348	Weir Trap
SWI-1049	940	-82.12788273	33.40110966	Single-Wing
SWI-1050	941	-82.12795189	33.40106579	Weir Trap
SWI-1051	942	-82.1281729	33.40118574	Single-Wing
SWI-1052	943	-82.12821807	33.40125242	Weir Trap
SWI-1053	944	-82.13994038	33.40382767	Grate Trap
SWI-1054	945	-82.13958489	33.40343522	Other
SWI-1055	946	-82.13925602	33.40311267	Other
SWI-1056	947	-82.13892702	33.40338816	None
SWI-1057	948	-82.13879446	33.40403156	Single-Wing
SWI-1058	949	-82.13904375	33.40387589	Grate Trap
SWI-1059	950	-82.17470534	33.4254901	Grate Trap
SWI-1060	951	-82.17470578	33.42532194	Grate Trap
SWI-1061	952	-82.17472203	33.4244625	Grate Trap
SWI-1062	953	-82.17644481	33.425704	Grate Trap
SWI-1063	954	-82.17451357	33.42491192	Grate Trap
SWI-1064	955	-82.17290089	33.41973423	Weir Trap
SWI-1065	956	-82.1725201	33.41949251	Weir Trap
SWI-1066	957	-82.17291321	33.41895688	Weir Trap
SWI-1067	958	-82.17438157	33.41896461	Weir Trap
SWI-1068	959	-82.17364748	33.41896131	Weir Trap
SWI-1069	960	-82.17467843	33.41840827	
SWI-1070	961	-82.17437224	33.41878766	Grate Trap
SWI-1071	962	-82.17435959	33.41831712	Grate Trap
SWI-1072	963	-82.17437456	33.41851255	Grate Trap
SWI-1073	964	-82.17443419	33.4178608	Grate Trap
SWI-1074	965	-82.17451656	33.41802071	Grate Trap
SWI-1075	966	-82.17456253	33.41802085	Double-Wing
SWI-1076	967	-82.17466804	33.41802239	Double-Wing
SWI-1077	968	-82.17428847	33.41759449	Single-Wing
SWI-1078	969	-82.17400111	33.41758582	Single-Wing
SWI-1079	970	-82.17400602	33.41722269	Single-Wing
SWI-1080	971	-82.17430538	33.41720652	Double-Wing
SWI-1081	972	-82.17475284	33.41695232	Grate Trap
SWI-1082	973	-82.17300122	33.41760787	Weir Trap
SWI-1083	974	-82.17308237	33.41757041	Single-Wing
SWI-1084	975	-82.17309081	33.41711096	Single-Wing
SWI-1085	976	-82.17310349	33.41659559	Single-Wing
SWI-1086	977	-82.17309138	33.41717692	Single-Wing
SWI-1087	978	-82.17528689	33.41844619	Grate Trap
SWI-1088	979	-82.17508037	33.41844351	Grate Trap
SWI-1089	980	-82.17562186	33.41855114	Grate Trap
SWI-1090	981	-82.17505066	33.41786978	Grate Trap
SWI-1091	982	-82.13846943	33.40367225	Single-Wing

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SWI-1093	983	-82.13807327	33.40362524	Single-Wing
SWI-1094	984	-82.13748135	33.40400315	Single-Wing
SWI-1095	985	-82.13683267	33.40383225	Grate Trap
SWI-1096	986	-82.13727991	33.40355167	Grate Trap
SWI-1097	987	-82.13697382	33.4032055	Grate Trap
SWI-1098	988	-82.13813209	33.40369524	Weir Trap
SWI-1099	989	-82.13969666	33.40460595	Other
SWI-1100	990	-82.13534623	33.41089788	Single-Wing
SWI-1101	991	-82.13868051	33.4119762	Weir Trap
SWI-1102	992	-82.13936558	33.41178869	Weir Trap
SWI-1103	993	-82.1370884	33.41029533	Grate Trap
SWI-1104	994	-82.13604014	33.40977251	Grate Trap
SWI-1105	995	-82.13964124	33.41139826	Other
SWI-1106	996	-82.11996929	33.41233767	Grate Trap
SWI-1107	997	-82.12038891	33.41185401	Weir Trap
SWI-1108	998	-82.12061089	33.41209707	Single-Wing
SWI-1109	999	-82.12033913	33.41253202	Grate Trap
SWI-1110	1000	-82.12004125	33.41172323	Grate Trap
SWI-1111	1001	-82.12022959	33.41169413	Grate Trap
SWI-1112	1002	-82.12027354	33.41126996	Weir Trap
SWI-1113	1003	-82.12024952	33.41119622	Weir Trap
SWI-1114	1004	-82.11856589	33.41235079	Single-Wing
SWI-1115	1005	-82.11849946	33.41264652	Weir Trap
SWI-1116	1006	-82.11745772	33.41267866	Single-Wing
SWI-1117	1007	-82.11702023	33.41247581	Single-Wing
SWI-1118	1008	-82.1171046	33.41245899	Single-Wing
SWI-1119	1009	-82.11571641	33.41234891	Single-Wing
SWI-1120	1010	-82.11580011	33.41233899	Single-Wing
SWI-1121	1011	-82.11702777	33.41168573	Weir Trap
SWI-1122	1012	-82.11677144	33.41167914	Weir Trap
SWI-1123	1013	-82.11751859	33.41154748	Weir Trap
SWI-1124	1014	-82.11757221	33.41042809	Single-Wing
SWI-1125	1015	-82.11639485	33.41006643	Weir Trap
SWI-1126	1016	-82.17824711	33.42637905	Double-Wing
SWI-1127	1017	-82.17782468	33.42694278	Grate Trap
SWI-1128	1018	-82.17748383	33.42693738	Grate Trap
SWI-1129	1019	-82.17684355	33.42692826	Grate Trap
SWI-1130	1020	-82.1733264	33.42786401	Grate Trap
SWI-1131	1021	-82.17359789	33.4279	Grate Trap
SWI-1132	1022	-82.17391401	33.42790124	Grate Trap
SWI-1133	1023	-82.17354338	33.42795865	Hoodback Trap
SWI-1134	1024	-82.17578268	33.42692347	
SWI-1135	1025	-82.17529915	33.42707753	Single-Wing
SWI-1136	1026	-82.17749721	33.4235758	Grate Trap
SWI-1137	1027	-82.17718432	33.42572952	Grate Trap
SWI-1138	1028	-82.17746444	33.42502835	Grate Trap
SWI-1139	1029	-82.17748591	33.42403756	Grate Trap
SWI-1140	1030	-82.17747649	33.4245048	Grate Trap
SWI-1141	1031	-82.17610973	33.4240168	Grate Trap
SWI-1142	1032	-82.17661675	33.42501221	Grate Trap
SWI-1143	1033	-82.1767881	33.42449552	Grate Trap
SWI-1144	1034	-82.17679771	33.42402567	Grate Trap
SWI-1145	1035	-82.17541013	33.42447553	Grate Trap
SWI-1146	1036	-82.17612027	33.42355402	Grate Trap
SWI-1147	1037	-82.17543214	33.42354482	Grate Trap
SWI-1148	1038	-82.17680541	33.42356568	Grate Trap
SWI-1149	1039	-82.17472979	33.42399628	Grate Trap
SWI-1150	1040	-82.17569265	33.42551193	Grate Trap

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SWI-1151	1041	-82.13622666	33.40944726	Grate Trap
SWI-1152	1042	-82.13602206	33.40892724	Single-Wing
SWI-1153	1043	-82.13645144	33.40906075	Single-Wing
SWI-1154	1044	-82.13671892	33.41010971	Grate Trap
SWI-1155	1045	-82.13653384	33.41001775	Grate Trap
SWI-1156	1046	-82.13636914	33.40993893	Grate Trap
SWI-1157	1047	-82.13585482	33.40967937	Grate Trap
SWI-1158	1048	-82.13572827	33.40956531	Single-Wing
SWI-1159	1049	-82.1357029	33.40950679	Single-Wing
SWI-1160	1050	-82.13554701	33.40938697	Single-Wing
SWI-1161	1051	-82.13816593	33.41076186	Single-Wing
SWI-1162	1052	-82.13811919	33.41074213	Single-Wing
SWI-1163	1053	-82.13795614	33.41066353	Single-Wing
SWI-1164	1054	-82.13776234	33.41057467	Single-Wing
SWI-1165	1055	-82.13724916	33.41036924	Grate Trap
SWI-1166	1056	-82.13883786	33.40473469	Single-Wing
SWI-1167	1057	-82.13878698	33.40465927	Weir Trap
SWI-1169	1058	-82.1338465	33.41839928	Daylight
SWI-1171	1059	-82.13846855	33.41830483	Other
SWI-1172	1060	-82.13855494	33.41820972	Other
SWI-1173	2767	-82.13827234	33.41805597	Other
SWI-1174	1061	-82.13870701	33.41758467	Grate Trap
SWI-1175	1062	-82.13870237	33.41740881	Grate Trap
SWI-1176	1063	-82.13885151	33.41772327	Grate Trap
SWI-1177	1064	-82.14787537	33.41519486	Single-Wing
SWI-1178	1065	-82.1475248	33.41525358	Grate Trap
SWI-1179	1066	-82.14808085	33.41523035	Single-Wing
SWI-1180	1067	-82.14787831	33.41512236	Single-Wing
SWI-1182	1068	-82.14814073	33.41571863	Grate Trap
SWI-1183	1069	-82.14813641	33.41522074	Grate Trap
SWI-1184	1070	-82.14773049	33.41589944	Single-Wing
SWI-1185	1071	-82.1427627	33.4159802	Single-Wing
SWI-1186	1072	-82.14273721	33.41582494	Single-Wing
SWI-1187	1073	-82.14523854	33.41583398	Grate Trap
SWI-1189	1074	-82.14715636	33.41611055	Single-Wing
SWI-1190	1075	-82.14704932	33.41610397	Single-Wing
SWI-1191	1076	-82.14701096	33.41602827	Single-Wing
SWI-1192	1077	-82.14701883	33.41587383	Single-Wing
SWI-1193	1078	-82.14991062	33.41622487	Single-Wing
SWI-1194	1079	-82.14947207	33.41618254	Double-Wing
SWI-1195	1080	-82.14864258	33.41616477	Single-Wing
SWI-1196	1081	-82.1491155	33.41604673	Single-Wing
SWI-1197	1082	-82.14911971	33.41592175	Single-Wing
SWI-1198	1083	-82.15043842	33.41637746	Double-Wing
SWI-1199	1084	-82.15002739	33.4162714	Single-Wing
SWI-1200	1085	-82.15055602	33.41710176	Grate Trap
SWI-1201	1086	-82.14990059	33.4172128	Grate Trap
SWI-1202	1087	-82.15140584	33.41657954	Grate Trap
SWI-1203	1088	-82.15128814	33.41715273	Grate Trap
SWI-1204	1089	-82.15064094	33.41607302	Other
SWI-1205	1090	-82.15064339	33.41592557	None
SWI-1206	1091	-82.15010871	33.41801123	Grate Trap
SWI-1207	1092	-82.15011702	33.41758663	Grate Trap
SWI-1208	1093	-82.15012498	33.41738081	Grate Trap
SWI-1209	1094	-82.15035289	33.41758372	Grate Trap
SWI-1210	1095	-82.1511128	33.41760124	Grate Trap
SWI-1211	1096	-82.15208089	33.41756826	Double-Wing
SWI-1212	1097	-82.15153077	33.41767459	Grate Trap

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SWI-1213	1098	-82.15167961	33.41756324	Double-Wing
SWI-1214	1099	-82.15049431	33.41838058	Grate Trap
SWI-1215	1100	-82.14999252	33.41850724	Grate Trap
SWI-1216	1101	-82.1500888	33.41862275	Single-Wing
SWI-1217	1102	-82.15057695	33.41871762	Single-Wing
SWI-1218	1103	-82.14862114	33.41675842	Grate Trap
SWI-1219	1104	-82.14950473	33.41677327	Single-Wing
SWI-1220	1105	-82.14948794	33.41717569	Grate Trap
SWI-1221	1106	-82.14886918	33.4171082	Grate Trap
SWI-1222	1107	-82.14816224	33.41736402	Grate Trap
SWI-1223	1108	-82.14818807	33.41720641	Grate Trap
SWI-1224	1109	-82.14914231	33.41716883	Grate Trap
SWI-1225	1110	-82.14838108	33.41603512	Single-Wing
SWI-1226	1111	-82.14806356	33.41641501	Grate Trap
SWI-1227	1112	-82.14772708	33.41611482	Grate Trap
SWI-1228	1113	-82.14759253	33.41649839	Grate Trap
SWI-1229	1114	-82.14714946	33.41634969	Single-Wing
SWI-1230	1115	-82.14690414	33.41667134	Grate Trap
SWI-1231	1116	-82.14647326	33.4165059	Grate Trap
SWI-1232	1117	-82.14597291	33.41668247	Single-Wing
SWI-1233	1118	-82.14594927	33.41615825	Grate Trap
SWI-1234	1119	-82.14560993	33.41671062	Grate Trap
SWI-1235	1120	-82.14520183	33.41664655	Grate Trap
SWI-1236	1121	-82.14481657	33.41704766	Grate Trap
SWI-1237	1122	-82.14455984	33.41695864	Grate Trap
SWI-1238	1123	-82.14442092	33.41725759	Grate Trap
SWI-1239	1124	-82.14420929	33.41725687	Grate Trap
SWI-1240	1125	-82.14324894	33.41703743	Grate Trap
SWI-1241	1126	-82.14275748	33.41696821	Single-Wing
SWI-1242	1127	-82.14276384	33.41655347	Single-Wing
SWI-1243	1128	-82.14049217	33.42399194	Grate Trap
SWI-1244	1129	-82.14134219	33.42400563	Grate Trap
SWI-1245	1130	-82.14234089	33.42390797	Grate Trap
SWI-1246	1131	-82.14211071	33.42402554	Grate Trap
SWI-1247	1132	-82.14173404	33.4240264	Grate Trap
SWI-1248	1133	-82.14404249	33.42404259	Grate Trap
SWI-1250	1134	-82.14312193	33.42425228	Grate Trap
SWI-1251	1135	-82.14327614	33.42374845	Grate Trap
SWI-1254	1136	-82.14407502	33.42376326	Grate Trap
SWI-1255	1137	-82.14358739	33.42329294	Grate Trap
SWI-1257	1138	-82.14321563	33.42291951	Single-Wing
SWI-1258	1139	-82.1384104	33.4225655	Single-Wing
SWI-1260	1140	-82.13972889	33.42267187	Double-Wing
SWI-1261	1141	-82.13985922	33.4225231	Single-Wing
SWI-1262	1142	-82.17589623	33.41772308	Grate Trap
SWI-1263	1143	-82.17561832	33.41761059	Grate Trap
SWI-1264	1144	-82.17577387	33.41718273	Grate Trap
SWI-1265	1145	-82.17536954	33.41667265	Double-Wing
SWI-1266	1146	-82.17510054	33.41703553	Flume
SWI-1267	1147	-82.17787477	33.41029741	Grate Trap
SWI-1268	1148	-82.17745859	33.41029264	Weir Trap
SWI-1269	1149	-82.17666789	33.41028284	Weir Trap
SWI-1270	1150	-82.1782446	33.40909259	Grate Trap
SWI-1271	1151	-82.17691827	33.40907597	Grate Trap
SWI-1272	1152	-82.17537271	33.40907636	Grate Trap
SWI-1273	1153	-82.17421036	33.41024269	Weir Trap
SWI-1274	1154	-82.17350188	33.40997122	Grate Trap
SWI-1275	1155	-82.17510334	33.4177937	Grate Trap

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SWI-1276	1156	-82.17581093	33.41809261	Grate Trap
SWI-1277	1157	-82.17581705	33.41782279	Grate Trap
SWI-1278	1158	-82.17561805	33.42035778	Grate Trap
SWI-1279	1159	-82.17632357	33.42090549	Grate Trap
SWI-1280	1160	-82.176083	33.42071484	Grate Trap
SWI-1281	1161	-82.17584012	33.42052747	Grate Trap
SWI-1282	1162	-82.17519601	33.4208308	Grate Trap
SWI-1283	1163	-82.17480995	33.42053841	Grate Trap
SWI-1284	1164	-82.1753415	33.42014641	Grate Trap
SWI-1285	1165	-82.17408389	33.42022355	Single-Wing
SWI-1286	1166	-82.17467024	33.42032506	Weir Trap
SWI-1287	1167	-82.17434691	33.42031456	Weir Trap
SWI-1288	1168	-82.17424736	33.42060279	Weir Trap
SWI-1289	1169	-82.17435632	33.42101371	Grate Trap
SWI-1290	1170	-82.17472409	33.42128947	Grate Trap
SWI-1291	1171	-82.17381617	33.42103949	Weir Trap
SWI-1292	1172	-82.17404835	33.42134419	Weir Trap
SWI-1293	1173	-82.17461334	33.42177255	Single-Wing
SWI-1294	1174	-82.17478959	33.42177766	Grate Trap
SWI-1295	1175	-82.17577868	33.42127402	Grate Trap
SWI-1296	1176	-82.17557387	33.42111821	Grate Trap
SWI-1297	1177	-82.1762222	33.42137316	Weir Trap
SWI-1298	1178	-82.17561462	33.42161664	Grate Trap
SWI-1299	1179	-82.17527326	33.42148179	Grate Trap
SWI-1300	1180	-82.17506443	33.42141817	Grate Trap
SWI-1301	1181	-82.17531691	33.42294513	Grate Trap
SWI-1302	1182	-82.17474138	33.42268232	Weir Trap
SWI-1303	1183	-82.17436333	33.42267264	Weir Trap
SWI-1304	1184	-82.17383389	33.42143833	
SWI-1305	1185	-82.17295619	33.42186717	Grate Trap
SWI-1306	1186	-82.17299719	33.42096838	Single-Wing
SWI-1307	1187	-82.17289377	33.42059541	Single-Wing
SWI-1308	1188	-82.11621885	33.41147998	Single-Wing
SWI-1309	1189	-82.11630993	33.4114962	Single-Wing
SWI-1310	1190	-82.11688212	33.41160315	Single-Wing
SWI-1311	1191	-82.11986343	33.41059282	Weir Trap
SWI-1312	1192	-82.11944331	33.41050993	Weir Trap
SWI-1313	1193	-82.11952189	33.41063266	Weir Trap
SWI-1314	1194	-82.11909042	33.41068684	
SWI-1315	1195	-82.11857117	33.41104153	
SWI-1316	1196	-82.12071024	33.4111602	Single-Wing
SWI-1317	1197	-82.12168963	33.41091698	Weir Trap
SWI-1318	1198	-82.12189313	33.41086139	Weir Trap
SWI-1319	1199	-82.12605109	33.40471365	Weir Trap
SWI-1320	1200	-82.12557015	33.40416983	Weir Trap
SWI-1321	1201	-82.12541434	33.40399911	Weir Trap
SWI-1322	1202	-82.12579633	33.40389745	Grate Trap
SWI-1323	1203	-82.123655	33.40231259	Double-Wing
SWI-1324	1204	-82.12368738	33.4020979	Single-Wing
SWI-1325	1205	-82.12359768	33.40234917	Grate Trap
SWI-1326	1206	-82.12354618	33.40261412	Single-Wing
SWI-1327	1207	-82.12384766	33.40245976	Grate Trap
SWI-1328	1208	-82.12364173	33.40315089	Weir Trap
SWI-1330	1209	-82.12279321	33.40299829	Weir Trap
SWI-1331	1210	-82.1164117	33.40062335	Single-Wing
SWI-1332	1211	-82.11592974	33.40050509	Double-Wing
SWI-1333	1212	-82.1159124	33.40059177	Double-Wing
SWI-1334	1213	-82.11635723	33.40069848	Single-Wing

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SWI-1335	1214	-82.11771667	33.40151895	Grate Trap
SWI-1336	1215	-82.11728087	33.40128956	
SWI-1337	1216	-82.11763951	33.40159462	Single-Wing
SWI-1338	1217	-82.11962965	33.40149536	Grate Trap
SWI-1339	1218	-82.11902454	33.40167593	Grate Trap
SWI-1340	1219	-82.11927778	33.40180757	Double-Wing
SWI-1341	1220	-82.12000032	33.40173147	Double-Wing
SWI-1342	1221	-82.12007829	33.4017944	Single-Wing
SWI-1343	1222	-82.12077301	33.40145878	Grate Trap
SWI-1344	1223	-82.11929879	33.40190506	Single-Wing
SWI-1345	1224	-82.12153376	33.40075316	Single-Wing
SWI-1346	1225	-82.11704729	33.39662319	Single-Wing
SWI-1347	1226	-82.11700082	33.39654346	Single-Wing
SWI-1348	1227	-82.11639572	33.39711445	Single-Wing
SWI-1349	1228	-82.11628355	33.39723949	Double-Wing
SWI-1350	1229	-82.11701387	33.39762445	Single-Wing
SWI-1351	1230	-82.11520045	33.39727776	Single-Wing
SWI-1352	1231	-82.11512717	33.39734222	Single-Wing
SWI-1353	1232	-82.11461379	33.39777826	Single-Wing
SWI-1354	1233	-82.11581093	33.39790939	Double-Wing
SWI-1355	1234	-82.11518389	33.39825137	Double-Wing
SWI-1356	1235	-82.11511028	33.39831456	Double-Wing
SWI-1357	1236	-82.11401028	33.3982881	Single-Wing
SWI-1358	1237	-82.11499718	33.39723388	Double-Wing
SWI-1359	1238	-82.12654593	33.40002955	Single-Wing
SWI-1360	1239	-82.1266058	33.40008448	Double-Wing
SWI-1361	1240	-82.12583869	33.39957104	Weir Trap
SWI-1362	1241	-82.1256702	33.39987527	Grate Trap
SWI-1363	1242	-82.12582537	33.4000398	Weir Trap
SWI-1364	1243	-82.12549338	33.39979775	
SWI-1365	1244	-82.12357061	33.3992891	Weir Trap
SWI-1366	1245	-82.11602482	33.40043291	Double-Wing
SWI-1367	1246	-82.11523184	33.40017053	Single-Wing
SWI-1368	1247	-82.11511099	33.39965954	Single-Wing
SWI-1369	1248	-82.11499682	33.39959565	Single-Wing
SWI-1370	1249	-82.1167965	33.39973382	Double-Wing
SWI-1371	1250	-82.11660828	33.39957558	Single-Wing
SWI-1372	1251	-82.11660302	33.39979485	Double-Wing
SWI-1373	1252	-82.12050322	33.39862797	Single-Wing
SWI-1374	1253	-82.12039972	33.39861057	Single-Wing
SWI-1375	1254	-82.11986078	33.39946749	Single-Wing
SWI-1376	1255	-82.12029546	33.39988849	Grate Trap
SWI-1377	1256	-82.12017034	33.40008762	None
SWI-1378	1257	-82.1201036	33.40014455	Grate Trap
SWI-1379	1258	-82.11964506	33.40005811	Single-Wing
SWI-1380	1259	-82.11976605	33.40017267	Single-Wing
SWI-1381	1260	-82.11990144	33.40027659	Weir Trap
SWI-1382	1261	-82.12352822	33.39961767	Single-Wing
SWI-1383	1262	-82.18914139	33.41986116	Grate Trap
SWI-1384	1263	-82.11613119	33.40044353	Single-Wing
SWI-1385	1264	-82.18052804	33.42754538	None
SWI-1386	1265	-82.1768877	33.42749074	Weir Trap
SWI-1387	1266	-82.17627595	33.42895506	Weir Trap
SWI-1388	1267	-82.17990601	33.42897822	Weir Trap
SWI-1389	1268	-82.17819174	33.42619544	Weir Trap
SWI-1390	1269	-82.13178693	33.40905013	Weir Trap
SWI-1391	1270	-82.13138823	33.40861081	Weir Trap
SWI-1392	1271	-82.13084369	33.40801203	Weir Trap

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SWI-1393	1272	-82.12988435	33.40767256	Manhole
SWI-1394	1273	-82.12961018	33.40801209	Weir Trap
SWI-1395	1274	-82.12888889	33.40830608	Other
SWI-1396	1275	-82.1283275	33.40768696	Manhole
SWI-1397	1276	-82.12789097	33.40720554	Grate Trap
SWI-1398	1277	-82.12780857	33.40711208	Weir Trap
SWI-1399	1278	-82.12857404	33.40987206	Weir Trap
SWI-1402	1279	-82.13898305	33.41424939	Grate Trap
SWI-1404	1280	-82.13809387	33.41347951	Grate Trap
SWI-1406	1281	-82.13781085	33.41313651	Grate Trap
SWI-1408	1282	-82.13784424	33.41278581	Grate Trap
SWI-1409	1283	-82.13813283	33.41244597	Grate Trap
SWI-1410	1284	-82.1379101	33.41221489	Weir Trap
SWI-1411	1285	-82.13784505	33.41236379	Weir Trap
SWI-1412	1286	-82.1363351	33.41293083	Single-Wing
SWI-1413	1287	-82.13692437	33.41226724	Grate Trap
SWI-1414	1288	-82.13728653	33.41238278	Hoodback Trap
SWI-1415	1289	-82.13684974	33.41194319	Grate Trap
SWI-1416	1290	-82.13598547	33.41131327	Grate Trap
SWI-1417	1291	-82.14171646	33.41732597	Single-Wing
SWI-1418	1292	-82.14238647	33.4173949	Single-Wing
SWI-1419	1293	-82.14179363	33.41735714	Grate Trap
SWI-1420	1294	-82.14294505	33.41777017	Grate Trap
SWI-1422	1295	-82.14322641	33.41746389	Grate Trap
SWI-1423	1296	-82.14344277	33.41780044	Grate Trap
SWI-1424	1297	-82.14398973	33.4176769	Grate Trap
SWI-1425	1298	-82.14369756	33.41826395	Grate Trap
SWI-1426	1299	-82.14518904	33.41873142	Grate Trap
SWI-1427	1300	-82.14518346	33.41907786	Grate Trap
SWI-1428	1301	-82.14924854	33.41921302	Grate Trap
SWI-1429	1302	-82.14901125	33.4192491	Grate Trap
SWI-1430	1303	-82.14903937	33.41872025	Grate Trap
SWI-1431	1304	-82.15031364	33.41911033	Grate Trap
SWI-1432	1305	-82.15057811	33.41874365	Grate Trap
SWI-1433	1306	-82.15081109	33.41933207	Double-Wing
SWI-1434	1307	-82.15082032	33.41893403	Double-Wing
SWI-1435	1308	-82.15081844	33.41874752	Grate Trap
SWI-1436	1309	-82.15239568	33.41887014	Double-Wing
SWI-1438	1310	-82.15233067	33.41938354	Single-Wing
SWI-1439	1311	-82.15145493	33.41885681	Double-Wing
SWI-1440	1312	-82.15145041	33.41924266	Double-Wing
SWI-1441	1313	-82.15152547	33.41943736	Double-Wing
SWI-1443	1314	-82.1534938	33.41845582	Grate Trap
SWI-1444	1315	-82.15358221	33.41779746	Grate Trap
SWI-1446	1316	-82.14098359	33.42275438	Single-Wing
SWI-1447	1317	-82.13992248	33.42194284	Single-Wing
SWI-1448	1318	-82.14056467	33.42195135	Single-Wing
SWI-1449	1319	-82.14437576	33.42281702	Single-Wing
SWI-1450	1320	-82.14428052	33.42281702	Single-Wing
SWI-1451	1321	-82.14400466	33.42273737	Single-Wing
SWI-1452	1322	-82.15618897	33.41646696	Weir Trap
SWI-1453	1323	-82.15565672	33.41690566	Grate Trap
SWI-1454	1324	-82.15566979	33.41713078	Grate Trap
SWI-1455	1325	-82.15555915	33.417171	Grate Trap
SWI-1456	1326	-82.15556809	33.41828067	Grate Trap
SWI-1457	1327	-82.15563858	33.41800951	Grate Trap
SWI-1458	1328	-82.15605064	33.41755208	Grate Trap
SWI-1459	1329	-82.15542108	33.41764004	Grate Trap

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SWI-1460	1330	-82.15547592	33.41741816	Grate Trap
SWI-1461	1331	-82.15495989	33.41751919	Grate Trap
SWI-1462	1332	-82.15463753	33.41779651	Grate Trap
SWI-1463	1333	-82.14762067	33.41848892	Grate Trap
SWI-1464	1334	-82.14724476	33.41811758	Grate Trap
SWI-1465	1335	-82.15251747	33.41807079	Single-Wing
SWI-1466	1336	-82.15416969	33.41880361	Weir Trap
SWI-1467	1337	-82.15416485	33.41895066	Weir Trap
SWI-1469	1338	-82.1563399	33.41524325	Weir Trap
SWI-1470	1339	-82.156687	33.41619863	Weir Trap
SWI-1471	1340	-82.15627603	33.41619098	Weir Trap
SWI-1472	1341	-82.15784199	33.41621892	Weir Trap
SWI-1473	1342	-82.16050046	33.41626905	Weir Trap
SWI-1474	1343	-82.15309695	33.41755891	Grate Trap
SWI-1475	1344	-82.15312971	33.4174872	Grate Trap
SWI-1476	1345	-82.15366172	33.41739292	Grate Trap
SWI-1477	1346	-82.15282519	33.41734963	Grate Trap
SWI-1478	1347	-82.15318865	33.41713377	Grate Trap
SWI-1479	1348	-82.15354684	33.41685148	Grate Trap
SWI-1480	1349	-82.15252774	33.41749261	Single-Wing
SWI-1481	1350	-82.15292115	33.41668503	Grate Trap
SWI-1482	1351	-82.15370915	33.41817231	Grate Trap
SWI-1483	1352	-82.15621183	33.41619089	Other
SWI-1484	1353	-82.14010391	33.42398404	Grate Trap
SWI-1485	1354	-82.14517602	33.4185449	Single-Wing
SWI-1486	1355	-82.14531325	33.41866956	Grate Trap
SWI-1487	1356	-82.14651875	33.41856691	Single-Wing
SWI-1488	1357	-82.14169323	33.41839028	Single-Wing
SWI-1489	1358	-82.14183117	33.41839579	Single-Wing
SWI-1490	1359	-82.14246792	33.41859044	Single-Wing
SWI-1491	1360	-82.14246672	33.41850604	Single-Wing
SWI-1492	1361	-82.14254611	33.41826415	Grate Trap
SWI-1493	1362	-82.14248012	33.41805588	Single-Wing
SWI-1494	1363	-82.14249558	33.41754495	Single-Wing
SWI-1495	1364	-82.14257608	33.41747181	Grate Trap
SWI-1497	1365	-82.13856565	33.42398207	Grate Trap
SWI-1498	1366	-82.13818579	33.42399461	Grate Trap
SWI-1499	1367	-82.13817523	33.42411107	Grate Trap
SWI-1500	1368	-82.139535	33.4233349	Grate Trap
SWI-1501	1369	-82.13953754	33.42310056	Grate Trap
SWI-1502	1370	-82.13954457	33.42278626	Grate Trap
SWI-1503	1371	-82.13882228	33.42312188	Single-Wing
SWI-1504	1372	-82.13855552	33.42324837	Grate Trap
SWI-1505	1373	-82.13819814	33.42323471	Grate Trap
SWI-1506	1374	-82.13798391	33.423104	Single-Wing
SWI-1507	1375	-82.14012992	33.4235542	Grate Trap
SWI-1508	1376	-82.14049551	33.4235599	Grate Trap
SWI-1509	1377	-82.14053511	33.42328025	Grate Trap
SWI-1510	1378	-82.14012287	33.42326318	Grate Trap
SWI-1511	1379	-82.14087112	33.42370158	Grate Trap
SWI-1512	1380	-82.14087757	33.42355253	Grate Trap
SWI-1513	1381	-82.14049188	33.42369595	Grate Trap
SWI-1514	1382	-82.14010353	33.42368708	Grate Trap
SWI-1515	1383	-82.14137261	33.42331879	Grate Trap
SWI-1516	1384	-82.14137982	33.423209	Other
SWI-1517	1385	-82.18415577	33.42971851	Weir Trap
SWI-1520	1386	-82.13770319	33.42374234	Single-Wing
SWI-1521	1387	-82.13710888	33.42317926	Single-Wing

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SWI-1522	1388	-82.14975763	33.41861736	Single-Wing
SWI-1523	1389	-82.14691138	33.41734287	Single-Wing
SWI-1524	1390	-82.14652092	33.41865381	Single-Wing
SWI-1525	1391	-82.13702113	33.42284884	Single-Wing
SWI-1526	1392	-82.1367907	33.42150484	Weir Trap
SWI-1527	1393	-82.13865644	33.41505676	Grate Trap
SWI-1528	1394	-82.12300294	33.3990379	Curb Inlet
SWI-1529	1395	-82.13841223	33.41503133	Grate Trap
SWI-1531	1396	-82.13204618	33.4155629	Grate Trap
SWI-1533	1397	-82.11795197	33.44001691	Grate Trap
SWI-1534	1398	-82.14174096	33.42371301	Grate Trap
SWI-1535	1399	-82.14134594	33.42372976	Grate Trap
SWI-1536	1400	-82.14130517	33.4235431	Grate Trap
SWI-1537	1401	-82.14241289	33.4234055	Grate Trap
SWI-1538	1402	-82.14174555	33.4233081	Grate Trap
SWI-1539	1403	-82.13816577	33.42366202	Grate Trap
SWI-1540	1404	-82.14400148	33.42265154	Single-Wing
SWI-1541	1405	-82.13840785	33.42534573	Single-Wing
SWI-1542	1406	-82.13840685	33.42516738	Single-Wing
SWI-1548	1407	-82.15327388	33.42279313	Single-Wing
SWI-1550	1408	-82.14855136	33.42399382	Grate Trap
SWI-1552	1409	-82.15355278	33.42620293	Single-Wing
SWI-1553	1410	-82.14710232	33.42556445	Grate Trap
SWI-1555	1411	-82.11850742	33.39499423	Curb Inlet
SWI-1556	1412	-82.11886415	33.39499634	Catch Basin Inlet
SWI-1557	1413	-82.12028111	33.39643729	Curb Inlet
SWI-1559	1414	-82.13549713	33.42370688	Single-Wing
SWI-1560	1415	-82.11815658	33.43743835	Grate Trap
SWI-1562	1416	-82.13942769	33.42707594	Grate Trap
SWI-1565	1417	-82.17294372	33.4307924	Weir Trap
SWI-1566	1418	-82.16096439	33.42306337	Grate Trap
SWI-1567	1419	-82.14748128	33.41669712	Grate Trap
SWI-1568	1420	-82.17989402	33.42966119	Weir Trap
SWI-1569	1421	-82.17990521	33.42902007	Weir Trap
SWI-1570	1422	-82.17626297	33.42944831	Weir Trap
SWI-1571	1423	-82.14726561	33.42793572	Single-Wing
SWI-1572	1424	-82.14792653	33.42703145	Grate Trap
SWI-1573	1425	-82.16291612	33.42449329	Grate Trap
SWI-1574	1426	-82.18604401	33.4294305	Grate Trap
SWI-1575	1427	-82.17538524	33.40874164	Grate Trap
SWI-1576	1428	-82.17464814	33.40907222	Grate Trap
SWI-1577	1429	-82.17408427	33.40879417	Weir Trap
SWI-1578	1430	-82.17402666	33.40872187	Grate Trap
SWI-1579	1431	-82.17222103	33.41523189	Grate Trap
SWI-1580	1432	-82.17259558	33.41559841	Grate Trap
SWI-1581	1433	-82.17175818	33.41522848	Grate Trap
SWI-1582	1434	-82.17133404	33.4152277	Grate Trap
SWI-1583	1435	-82.17231248	33.41568414	Grate Trap
SWI-1584	1436	-82.1725854	33.41598217	Grate Trap
SWI-1585	1437	-82.17259859	33.415282	Grate Trap
SWI-1586	1438	-82.18782169	33.41758756	Grate Trap
SWI-1587	1439	-82.12347424	33.39988629	Single-Wing
SWI-1588	1440	-82.12343072	33.40010465	Weir Trap
SWI-1589	1441	-82.12446344	33.40097812	Single-Wing
SWI-1590	1442	-82.11453781	33.39784119	Single-Wing
SWI-1592	1443	-82.12681005	33.40455983	Single-Wing
SWI-1593	1444	-82.12671837	33.40474034	Single-Wing
SWI-1594	1445	-82.12668756	33.40494346	Single-Wing

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SWI-1595	1446	-82.12836378	33.40642964	Single-Wing
SWI-1596	1447	-82.12733778	33.40631822	Grate Trap
SWI-1597	1448	-82.12736682	33.40612168	Weir Trap
SWI-1598	1449	-82.12588889	33.40452152	Weir Trap
SWI-1599	1450	-82.13850486	33.41485407	Double-Wing
SWI-1600	1451	-82.131636	33.4174453	Grate Trap
SWI-1601	1452	-82.1313023	33.41733819	Other
SWI-1602	1453	-82.1317932	33.41787293	Other
SWI-1603	1454	-82.13124505	33.4177605	Grate Trap
SWI-1604	1455	-82.13053676	33.41749313	Grate Trap
SWI-1605	1456	-82.1301848	33.41789085	Grate Trap
SWI-1606	1457	-82.1301917	33.41767187	Grate Trap
SWI-1607	1458	-82.13020177	33.41745186	Grate Trap
SWI-1608	1459	-82.13482253	33.4164994	Weir Trap
SWI-1609	1460	-82.13456132	33.41623419	Manhole
SWI-1610	1461	-82.1344754	33.41613368	Weir Trap
SWI-1611	1462	-82.13403596	33.41692602	
SWI-1612	1463	-82.12734067	33.43033364	Single-Wing
SWI-1612	2597	-82.18142437	33.41921286	Single-Wing
SWI-1613	1464	-82.12723723	33.43033417	Grate Trap
SWI-1614	1465	-82.12723789	33.43089795	Single-Wing
SWI-1615	1466	-82.12714483	33.42986254	Single-Wing
SWI-1616	1467	-82.12734199	33.42952115	Single-Wing
SWI-1617	1468	-82.12723867	33.4295194	Single-Wing
SWI-1618	1469	-82.12721519	33.42932788	Single-Wing
SWI-1619	1470	-82.12723969	33.42856623	Single-Wing
SWI-1620	1471	-82.12807881	33.42844552	Grate Trap
SWI-1621	1472	-82.12787361	33.42852188	Grate Trap
SWI-1622	1473	-82.12754421	33.42839455	Grate Trap
SWI-1623	1474	-82.12829328	33.42939617	Grate Trap
SWI-1624	1475	-82.1282949	33.42923365	Grate Trap
SWI-1625	1476	-82.12829351	33.42907793	Grate Trap
SWI-1626	1477	-82.12829459	33.42896958	Grate Trap
SWI-1627	1478	-82.12787593	33.42897079	Grate Trap
SWI-1628	1479	-82.12787011	33.42906308	Grate Trap
SWI-1629	1480	-82.12769079	33.42897028	Grate Trap
SWI-1630	1481	-82.12762154	33.42884966	Grate Trap
SWI-1631	1482	-82.12854352	33.4285863	Grate Trap
SWI-1632	1483	-82.1284856	33.4282919	Grate Trap
SWI-1633	1484	-82.12846754	33.42819488	Single-Wing
SWI-1634	1485	-82.12911988	33.42819166	Single-Wing
SWI-1635	1486	-82.12907263	33.42899452	Grate Trap
SWI-1636	1487	-82.12835556	33.42881917	Grate Trap
SWI-1637	1488	-82.12791872	33.43062299	Single-Wing
SWI-1638	1489	-82.1282207	33.43032856	Other
SWI-1639	1490	-82.12742996	33.4303791	Other
SWI-1640	1491	-82.12840098	33.42989469	Single-Wing
SWI-1641	1492	-82.11793266	33.43086572	Weir Trap
SWI-1642	1493	-82.1180724	33.43034574	Weir Trap
SWI-1643	1494	-82.11778716	33.43080515	Single-Wing
SWI-1644	1495	-82.1272395	33.42664798	Single-Wing
SWI-1645	1496	-82.12734291	33.42664756	Single-Wing
SWI-1647	1497	-82.12795258	33.42660001	Single-Wing
SWI-1648	1498	-82.12763921	33.42758425	Grate Trap
SWI-1649	1499	-82.1289984	33.42664185	Single-Wing
SWI-1650	1500	-82.12895208	33.42763902	Single-Wing
SWI-1651	1501	-82.12894933	33.42743756	Single-Wing
SWI-1652	1502	-82.12925518	33.42706357	Grate Trap

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SWI-1653	1503	-82.13017072	33.42614861	Double-Wing
SWI-1654	1504	-82.12894338	33.42675592	Single-Wing
SWI-1655	1505	-82.12895539	33.42694843	Single-Wing
SWI-1656	1506	-82.13552023	33.42249045	Weir Trap
SWI-1657	1507	-82.14534356	33.41797069	Single-Wing
SWI-1658	1508	-82.14510814	33.41791958	Single-Wing
SWI-1659	1509	-82.13431124	33.42072473	Weir Trap
SWI-1660	1510	-82.13086488	33.39679414	Weir Trap
SWI-1661	2875	-82.15422259	33.41616518	Grate Inlet
SWI-1662	2877	-82.15421474	33.41635639	Grate Inlet
SWI-1663	1511	-82.15255315	33.41691052	Curb Inlet
SWI-1665	1512	-82.15960496	33.41814394	Weir Trap
SWI-1666	1513	-82.16046052	33.41835006	Grate Trap
SWI-1667	1514	-82.14358466	33.42459277	Single-Wing
SWI-1670	1515	-82.13817444	33.42354007	Grate Trap
SWI-1672	1516	-82.13940333	33.42258244	Single-Wing
SWI-1673	1517	-82.14138011	33.4223824	Single-Wing
SWI-1674	1518	-82.18351551	33.41748638	Weir Trap
SWI-1675	1519	-82.18448278	33.42308838	Weir Trap
SWI-1676	1520	-82.18328653	33.42286998	Grate Trap
SWI-1677	1521	-82.18252792	33.42319914	Weir Trap
SWI-1678	1522	-82.18294446	33.42215054	Grate Trap
SWI-1679	1523	-82.1837302	33.41821615	Weir Trap
SWI-1680	1524	-82.18300106	33.41958318	Single-Wing
SWI-1681	1525	-82.18342926	33.42104584	Grate Trap
SWI-1682	1526	-82.17352044	33.42532795	Grate Trap
SWI-1683	1527	-82.1390418	33.42517741	Single-Wing
SWI-1684	1528	-82.13956433	33.42518401	Single-Wing
SWI-1685	1529	-82.13981539	33.42518979	Single-Wing
SWI-1686	1530	-82.13972312	33.42536668	Double-Wing
SWI-1687	1531	-82.14086541	33.42523929	Single-Wing
SWI-1688	1532	-82.14086723	33.42520688	Single-Wing
SWI-1689	1533	-82.14033987	33.42519929	Single-Wing
SWI-1690	1534	-82.14085806	33.42538387	Single-Wing
SWI-1691	1535	-82.1416374	33.42521753	Single-Wing
SWI-1692	1536	-82.14162818	33.42524994	Single-Wing
SWI-1693	1537	-82.14227933	33.42522765	Single-Wing
SWI-1694	1538	-82.14297877	33.42523604	Single-Wing
SWI-1695	1539	-82.14296536	33.42541567	Single-Wing
SWI-1696	1540	-82.14300643	33.42584032	Grate Trap
SWI-1697	1541	-82.14090025	33.42578445	Grate Trap
SWI-1698	1542	-82.14168086	33.42669872	Grate Trap
SWI-1699	1543	-82.14299143	33.42639948	Grate Trap
SWI-1701	1544	-82.14021194	33.42691421	Grate Trap
SWI-1702	1545	-82.13902846	33.42648482	Grate Trap
SWI-1703	1546	-82.13903503	33.42625202	Grate Trap
SWI-1704	1547	-82.13978786	33.4277182	Double-Wing
SWI-1705	1548	-82.14169429	33.42742126	
SWI-1706	1549	-82.14167831	33.427164	Grate Trap
SWI-1707	1550	-82.1394813	33.42688846	Grate Trap
SWI-1708	1551	-82.13994336	33.42690374	Grate Trap
SWI-1709	1552	-82.14037748	33.42670606	
SWI-1710	1553	-82.13976333	33.42781631	Single-Wing
SWI-1711	1554	-82.13841558	33.4257138	Grate Trap
SWI-1712	1555	-82.13938068	33.42758108	Single-Wing
SWI-1713	1556	-82.13893248	33.4274041	Single-Wing
SWI-1714	1557	-82.13845895	33.42730389	Single-Wing
SWI-1715	1558	-82.13826597	33.42714502	Grate Trap

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SWI-1716	1559	-82.13791679	33.42636382	Single-Wing
SWI-1717	1560	-82.13790467	33.42696249	Single-Wing
SWI-1718	1561	-82.13790206	33.42663177	Double-Wing
SWI-1719	1562	-82.13792901	33.42582266	Single-Wing
SWI-1720	1563	-82.14015877	33.42806208	Single-Wing
SWI-1721	1564	-82.14032376	33.42805186	Single-Wing
SWI-1722	1565	-82.14086414	33.42834455	Single-Wing
SWI-1723	1566	-82.14179453	33.42845898	Single-Wing
SWI-1724	1567	-82.14170647	33.42846098	Single-Wing
SWI-1725	1568	-82.1415157	33.4284971	Single-Wing
SWI-1726	1569	-82.14134467	33.42840055	Single-Wing
SWI-1727	1570	-82.14312004	33.42752075	Grate Trap
SWI-1728	1571	-82.14362827	33.42717617	Grate Trap
SWI-1729	1572	-82.14379838	33.42736082	Grate Trap
SWI-1730	1573	-82.14299653	33.42685576	Grate Trap
SWI-1731	1574	-82.14438667	33.42736332	Grate Trap
SWI-1732	1575	-82.14439585	33.42717486	Grate Trap
SWI-1733	1576	-82.14473172	33.42697276	None
SWI-1734	1577	-82.14549769	33.42812439	Single-Wing
SWI-1735	1578	-82.14604728	33.42801916	Single-Wing
SWI-1736	1579	-82.14601852	33.42791651	None
SWI-1737	1580	-82.14337133	33.42862124	Single-Wing
SWI-1738	1581	-82.14280196	33.42847566	Single-Wing
SWI-1739	1582	-82.14271177	33.42847448	Single-Wing
SWI-1740	1583	-82.14270445	33.42842395	Single-Wing
SWI-1741	1584	-82.14391567	33.42853681	Single-Wing
SWI-1742	1585	-82.1449665	33.42833386	Double-Wing
SWI-1743	1586	-82.14492025	33.42825189	None
SWI-1744	1587	-82.14390111	33.4283827	Grate Trap
SWI-1745	1588	-82.15145719	33.42630515	Single-Wing
SWI-1746	1589	-82.15116499	33.42631239	Single-Wing
SWI-1747	1590	-82.15207604	33.42632485	Single-Wing
SWI-1748	1591	-82.16100772	33.42448374	Grate Trap
SWI-1749	1592	-82.13528304	33.42513093	Weir Trap
SWI-1750	1593	-82.15140491	33.43548007	Weir Trap
SWI-1751	1594	-82.15122405	33.43550015	Weir Trap
SWI-1752	1595	-82.15122375	33.43433957	Weir Trap
SWI-1753	1596	-82.14513376	33.43547881	Weir Trap
SWI-1754	1597	-82.1456633	33.43433375	Weir Trap
SWI-1755	1598	-82.14145256	33.43552444	Weir Trap
SWI-1756	1599	-82.14144935	33.43527892	Weir Trap
SWI-1757	1600	-82.14204629	33.43639871	
SWI-1758	1601	-82.1424614	33.43630674	
SWI-1759	1602	-82.18581106	33.41920279	None
SWI-1761	1603	-82.14575451	33.42415542	Grate Trap
SWI-1762	1604	-82.14537413	33.42615412	Single-Wing
SWI-1764	1605	-82.12508046	33.43086122	Grate Inlet
SWI-1765	1606	-82.12635246	33.43097072	Single-Wing
SWI-1766	1607	-82.16395714	33.42578873	Single-Wing
SWI-1767	1608	-82.16144689	33.41812965	Grate Inlet
SWI-1768	1609	-82.16127924	33.41804259	Grate Inlet
SWI-1769	1610	-82.16111317	33.41795477	Grate Inlet
SWI-1770	1611	-82.16205339	33.41826436	Grate Inlet
SWI-1771	1612	-82.16210741	33.41832422	Grate Inlet
SWI-1772	1613	-82.16248841	33.42131479	Weir Trap
SWI-1774	1614	-82.13380707	33.41886664	Grate Trap
SWI-1775	1615	-82.13382107	33.41907902	Grate Trap

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SWI-1776	1616	-82.13426584	33.41922818	Grate Trap
SWI-1777	1617	-82.13416927	33.41953502	Grate Trap
SWI-1778	1618	-82.13478605	33.41964369	Grate Trap
SWI-1779	1619	-82.13507342	33.41922233	Grate Trap
SWI-1780	1620	-82.13408487	33.41890955	Grate Trap
SWI-1781	1621	-82.13425571	33.41833893	None
SWI-1782	1622	-82.13457054	33.41834914	None
SWI-1783	1623	-82.13495052	33.41836029	Grate Trap
SWI-1784	1624	-82.13982398	33.42460823	Single-Wing
SWI-1785	1625	-82.13985693	33.42453062	Curb Inlet
SWI-1786	1626	-82.13960974	33.42460568	Curb Inlet
SWI-1787	1627	-82.13957525	33.42464939	Curb Inlet
SWI-1788	1628	-82.13904325	33.42464002	Curb Inlet
SWI-1789	1629	-82.14119618	33.42455402	Curb Inlet
SWI-1790	1630	-82.14114606	33.42462998	Curb Inlet
SWI-1791	1631	-82.14104927	33.42449048	Single-Wing
SWI-1792	1632	-82.1417793	33.42456251	Single-Wing
SWI-1793	1633	-82.14163801	33.42463816	Curb Inlet
SWI-1794	1634	-82.14164796	33.42468427	Curb Inlet
SWI-1795	1635	-82.15509768	33.42560647	Single-Wing
SWI-1796	1636	-82.15520712	33.42474634	Single-Wing
SWI-1797	1637	-82.15530572	33.42423454	Grate Trap
SWI-1798	1638	-82.15557972	33.4233822	Single-Wing
SWI-1799	1639	-82.15445186	33.42298114	Single-Wing
SWI-1800	1640	-82.15409503	33.42289676	Single-Wing
SWI-1801	1641	-82.15110185	33.42225298	None
SWI-1802	1642	-82.15207709	33.42425743	Grate Trap
SWI-1803	1643	-82.15129645	33.42479839	Single-Wing
SWI-1804	1644	-82.15037956	33.42481688	Single-Wing
SWI-1805	1645	-82.15396621	33.42544326	Single-Wing
SWI-1806	1646	-82.15238901	33.42559213	Weir Trap
SWI-1807	1647	-82.15037146	33.4253891	Single-Wing
SWI-1808	1648	-82.15063247	33.4258787	Single-Wing
SWI-1809	1649	-82.15218853	33.42302491	Grate Trap
SWI-1810	1650	-82.15008106	33.422746	Single-Wing
SWI-1811	1651	-82.1491272	33.42283939	Single-Wing
SWI-1812	1652	-82.15245413	33.42289843	Weir Trap
SWI-1813	1653	-82.15020704	33.42330867	Single-Wing
SWI-1814	1654	-82.14866217	33.42446651	Grate Trap
SWI-1815	1655	-82.15020173	33.424197	Grate Trap
SWI-1816	1656	-82.15852007	33.42641371	Manhole
SWI-1817	1657	-82.15804996	33.42690518	Manhole
SWI-1818	1658	-82.15759406	33.42688066	Weir Trap
SWI-1819	1659	-82.15651238	33.42686139	Weir Trap
SWI-1820	1660	-82.13067557	33.39926723	Single-Wing
SWI-1821	1661	-82.13054304	33.40022187	Single-Wing
SWI-1822	1662	-82.1309905	33.39913786	Single-Wing
SWI-1823	1663	-82.11888372	33.39612368	Single-Wing
SWI-1824	1664	-82.12032351	33.39755695	Single-Wing
SWI-1825	1665	-82.11564117	33.42868	Grate Trap
SWI-1826	1666	-82.1150789	33.42870656	Grate Trap
SWI-1827	1667	-82.11432475	33.42887077	Grate Trap
SWI-1828	1668	-82.11389701	33.42876949	Grate Trap
SWI-1829	1669	-82.12149984	33.42877904	Single-Wing
SWI-1830	1670	-82.18792871	33.41417454	Weir Trap
SWI-1832	1671	-82.17973226	33.41226456	Daylight
SWI-1833	1672	-82.17599375	33.41146303	Daylight
SWI-1834	1673	-82.17316872	33.40674414	Weir Trap

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SWI-1835	1674	-82.17195908	33.40417722	Weir Trap
SWI-1836	1675	-82.17201466	33.40521807	Weir Trap
SWI-1837	1676	-82.17338144	33.40573329	Grate Trap
SWI-1838	1677	-82.1367952	33.4212834	Weir Trap
SWI-1839	1678	-82.14558921	33.42323275	Single-Wing
SWI-1840	1679	-82.14522473	33.42370989	Grate Trap
SWI-1842	1680	-82.14582964	33.42474216	Single-Wing
SWI-1843	1681	-82.1450542	33.42465408	Single-Wing
SWI-1844	1682	-82.14564755	33.42531171	Double-Wing
SWI-1845	1683	-82.14565021	33.42612912	Single-Wing
SWI-1846	1684	-82.14669743	33.42680631	Grate Trap
SWI-1847	1685	-82.1459192	33.42656	Grate Trap
SWI-1848	1686	-82.12370066	33.42910449	Single-Wing
SWI-1849	1687	-82.12310053	33.42864678	Single-Wing
SWI-1850	1688	-82.12385212	33.42772447	Single-Wing
SWI-1851	1689	-82.12135605	33.42714049	Other
SWI-1852	1690	-82.15571331	33.42691843	Manhole
SWI-1853	1691	-82.15511429	33.42683951	Weir Trap
SWI-1854	1692	-82.1577604	33.42544365	Single-Wing
SWI-1855	1693	-82.15760799	33.42511244	Double-Wing
SWI-1856	1694	-82.15680263	33.42490011	Single-Wing
SWI-1857	1695	-82.1562723	33.42434138	Grate Trap
SWI-1858	1696	-82.15579703	33.42488578	Single-Wing
SWI-1859	1697	-82.14795135	33.42592964	Grate Trap
SWI-1860	1698	-82.1488037	33.42770872	Double-Wing
SWI-1861	1699	-82.14728392	33.42663377	Grate Trap
SWI-1862	1700	-82.1477607	33.42700469	Double-Wing
SWI-1863	1701	-82.1214493	33.42621951	Single-Wing
SWI-1864	1702	-82.12154129	33.42885635	Single-Wing
SWI-1865	1703	-82.11802383	33.42853494	Grate Trap
SWI-1866	1704	-82.11633608	33.42870105	Grate Trap
SWI-1867	1705	-82.1535973	33.40966396	Weir Trap
SWI-1869	1706	-82.13125647	33.40121086	None
SWI-1870	1707	-82.12921151	33.40053909	Single-Wing
SWI-1871	1708	-82.12196097	33.39788864	Single-Wing
SWI-1872	1709	-82.11930223	33.39793009	Single-Wing
SWI-1873	1710	-82.11829256	33.39788231	Grate Trap
SWI-1874	1711	-82.11734575	33.39812184	Single-Wing
SWI-1875	1712	-82.11786676	33.3986166	Single-Wing
SWI-1876	1713	-82.11676248	33.39581464	Double-Wing
SWI-1877	1714	-82.13532105	33.42252458	None
SWI-1878	1715	-82.13711137	33.40695429	
SWI-1879	1716	-82.1361733	33.40632271	Double-Wing
SWI-1880	1717	-82.13480317	33.40662752	Single-Wing
SWI-1881	1718	-82.13368827	33.40524831	Single-Wing
SWI-1882	1719	-82.13491379	33.40460218	
SWI-1883	1720	-82.13870812	33.40457631	Grate Trap
SWI-1884	1721	-82.12760998	33.40169345	Weir Trap
SWI-1887	1722	-82.12935016	33.41363598	Weir Trap
SWI-1888	1723	-82.12903627	33.41364446	Grate Trap
SWI-1889	1724	-82.1305661	33.41294186	Grate Trap
SWI-1890	1725	-82.1367901	33.40444521	Weir Trap
SWI-1891	1726	-82.13485057	33.40504592	Grate Trap
SWI-1892	1727	-82.13590811	33.40719191	Grate Trap
SWI-1893	1728	-82.13801284	33.40931484	Single-Wing
SWI-1894	1729	-82.13590748	33.40892286	Single-Wing
SWI-1895	1730	-82.1361842	33.40984452	Grate Trap
SWI-1896	1731	-82.13771026	33.41036467	Single-Wing

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SWI-1897	1732	-82.13741582	33.41045825	Grate Trap
SWI-1898	1733	-82.13560591	33.41837079	Weir Trap
SWI-1900	1734	-82.13827614	33.41771631	Grate Trap
SWI-1901	1735	-82.13974912	33.41843066	Grate Trap
SWI-1902	1736	-82.1479497	33.41565344	Single-Wing
SWI-1903	1737	-82.14762383	33.41566269	Grate Trap
SWI-1904	1738	-82.14523023	33.41598789	Single-Wing
SWI-1905	1739	-82.14905644	33.41617178	Double-Wing
SWI-1906	1740	-82.15010304	33.4163702	Single-Wing
SWI-1907	1741	-82.15076229	33.41638142	Double-Wing
SWI-1908	1742	-82.11631576	33.39705774	Single-Wing
SWI-1909	1743	-82.11693816	33.39756203	Single-Wing
SWI-1910	1744	-82.11588378	33.39784642	Single-Wing
SWI-1911	1745	-82.11393742	33.39834974	Single-Wing
SWI-1913	1746	-82.12357773	33.39858947	Hoodback Trap
SWI-1914	1747	-82.11514387	33.40021559	Single-Wing
SWI-1915	1748	-82.11653265	33.39963619	Single-Wing
SWI-1916	1749	-82.11994375	33.39924127	
SWI-1917	1750	-82.11895754	33.39969177	Weir Trap
SWI-1918	1751	-82.12693762	33.42914079	Double-Wing
SWI-1919	1752	-82.17707701	33.42751999	None
SWI-1920	1753	-82.13029636	33.40740724	Manhole
SWI-1921	1754	-82.12950998	33.40791134	Weir Trap
SWI-1922	1755	-82.12848203	33.40977181	Weir Trap
SWI-1923	1756	-82.13792424	33.41328079	Grate Trap
SWI-1924	1757	-82.1387713	33.4138219	Weir Trap
SWI-1925	1758	-82.13677246	33.4123647	Grate Trap
SWI-1926	1759	-82.14161481	33.41731997	Single-Wing
SWI-1927	1760	-82.14294458	33.41767084	Grate Trap
SWI-1928	1761	-82.14382325	33.41744726	Grate Trap
SWI-1929	1762	-82.14954179	33.41881186	Single-Wing
SWI-1930	1763	-82.15081522	33.41913261	Double-Wing
SWI-1931	1764	-82.15233067	33.41946551	Single-Wing
SWI-1932	1765	-82.1403172	33.42259465	Single-Wing
SWI-1933	1766	-82.14115549	33.42260864	Single-Wing
SWI-1934	1767	-82.15589228	33.41821558	Grate Trap
SWI-1935	1768	-82.15136791	33.41656551	Double-Wing
SWI-1936	1769	-82.15035713	33.41802563	Grate Trap
SWI-1937	1770	-82.15188032	33.41756321	Double-Wing
SWI-1938	1771	-82.15058082	33.41862939	Single-Wing
SWI-1939	1772	-82.14833185	33.41750781	Single-Wing
SWI-1940	1773	-82.14846054	33.41722177	
SWI-1941	1774	-82.14759672	33.41632089	Grate Trap
SWI-1942	1775	-82.14641482	33.4164116	Grate Trap
SWI-1943	1776	-82.14494774	33.41709413	Grate Trap
SWI-1944	1777	-82.14411995	33.41691366	Single-Wing
SWI-1945	1778	-82.14395507	33.41681344	Single-Wing
SWI-1946	1779	-82.14401861	33.41584408	Single-Wing
SWI-1947	1780	-82.14812225	33.41765602	Single-Wing
SWI-1948	1781	-82.14725783	33.41718937	Double-Wing
SWI-1949	1782	-82.14653563	33.41720719	Double-Wing
SWI-1950	1783	-82.14595215	33.41762747	Grate Trap
SWI-1951	1784	-82.12764819	33.40093246	Weir Trap
SWI-1952	1785	-82.12846395	33.40158598	Weir Trap
SWI-1953	1786	-82.13953077	33.40408534	Grate Trap
SWI-1954	1787	-82.13774333	33.40296407	Grate Trap
SWI-1955	1788	-82.13653002	33.40348907	Grate Trap
SWI-1956	1789	-82.13578288	33.41116357	Single-Wing

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SWI-1957	1790	-82.13892127	33.411902	Weir Trap
SWI-1958	1791	-82.14006813	33.41081789	Other
SWI-1959	1792	-82.12063015	33.41217302	Single-Wing
SWI-1960	1793	-82.12011361	33.41142268	Grate Trap
SWI-1961	1794	-82.1184886	33.41238836	Single-Wing
SWI-1962	1795	-82.116217	33.41247437	Weir Trap
SWI-1963	1796	-82.11760956	33.41154446	Weir Trap
SWI-1964	1797	-82.17818941	33.4269464	Grate Trap
SWI-1965	1798	-82.17300089	33.43733989	
SWI-1966	1799	-82.17313091	33.42749534	Hoodback Trap
SWI-1967	1800	-82.17609817	33.42448433	Grate Trap
SWI-1968	1801	-82.1754194	33.42401007	Grate Trap
SWI-1969	1802	-82.17474194	33.42353341	Grate Trap
SWI-1970	1803	-82.17470154	33.42567236	Grate Trap
SWI-1971	1804	-82.17260121	33.41895004	Grate Trap
SWI-1973	1805	-82.17430557	33.41817998	Grate Trap
SWI-1974	1806	-82.17471341	33.41802226	Weir Trap
SWI-1975	1807	-82.17457767	33.41724014	Single-Wing
SWI-1976	1808	-82.17309956	33.41684579	Double-Wing
SWI-1977	1809	-82.17579324	33.41856875	Grate Trap
SWI-1978	1810	-82.18151269	33.42365064	Other
SWI-1979	1811	-82.17501299	33.42069172	Grate Trap
SWI-1980	1812	-82.17509317	33.41996914	Grate Trap
SWI-1981	1813	-82.17456201	33.42116761	Grate Trap
SWI-1982	1814	-82.17427207	33.4215142	Weir Trap
SWI-1983	1815	-82.17542278	33.42100629	Grate Trap
SWI-1984	1816	-82.17612218	33.42294635	Single-Wing
SWI-1985	1817	-82.17341157	33.4215087	Grate Trap
SWI-1986	1818	-82.11558141	33.41032568	Weir Trap
SWI-1987	1819	-82.1198075	33.41047644	Other
SWI-1988	1820	-82.12210467	33.41080094	Weir Trap
SWI-1989	1821	-82.12602581	33.40478562	Single-Wing
SWI-1990	1822	-82.1260459	33.40393122	Weir Trap
SWI-1991	1823	-82.12379753	33.40221374	Weir Trap
SWI-1992	1824	-82.12417031	33.4028075	
SWI-1993	1825	-82.12323655	33.40161991	Weir Trap
SWI-1994	1826	-82.11802564	33.40140421	Grate Trap
SWI-1995	1827	-82.1192298	33.40145247	Grate Trap
SWI-1996	1828	-82.12037721	33.40176582	Weir Trap
SWI-1997	1829	-82.18000884	33.42316678	None
SWI-1998	1830	-82.18171718	33.42731613	Weir Trap
SWI-1999	1831	-82.1648319	33.42308394	Weir Trap
SWI-2000	1832	-82.16307644	33.4229029	Grate Trap
SWI-2001	1833	-82.16093638	33.42299559	Single-Wing
SWI-2002	1834	-82.15951394	33.42489151	Single-Wing
SWI-2003	1835	-82.16242063	33.42556729	Double-Wing
SWI-2004	1836	-82.16117545	33.42554835	Single-Wing
SWI-2005	1837	-82.15980923	33.42548344	Double-Wing
SWI-2006	1838	-82.15920186	33.42547432	Double-Wing
SWI-2007	1839	-82.15887949	33.4254685	Single-Wing
SWI-2008	1840	-82.16142069	33.42693252	Weir Trap
SWI-2009	1841	-82.15985912	33.42690403	Weir Trap
SWI-2010	1842	-82.15975559	33.42297735	Single-Wing
SWI-2011	1843	-82.15841383	33.42287083	Single-Wing
SWI-2012	1844	-82.15740777	33.42294041	Single-Wing
SWI-2013	1845	-82.15666051	33.42293054	Single-Wing
SWI-2014	1846	-82.15682379	33.42380585	Weir Trap
SWI-2015	1847	-82.1588415	33.42344136	Single-Wing

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SWI-2016	1848	-82.15779303	33.42391551	Single-Wing
SWI-2017	1849	-82.15882206	33.42429244	Single-Wing
SWI-2018	1850	-82.18220364	33.41957374	Grate Trap
SWI-2019	1851	-82.18338582	33.42173119	Grate Trap
SWI-2020	1852	-82.18216386	33.42164008	Grate Trap
SWI-2021	1853	-82.18165809	33.41903609	Weir Trap
SWI-2022	1854	-82.17272087	33.42819018	Weir Trap
SWI-2023	1855	-82.17283936	33.42857551	Weir Trap
SWI-2024	1856	-82.1714228	33.42848588	Other
SWI-2025	1857	-82.17182665	33.42707648	Weir Trap
SWI-2026	1858	-82.17991198	33.42866951	Weir Trap
SWI-2027	1859	-82.18061851	33.42829798	None
SWI-2028	1860	-82.17628363	33.42857248	Headwall
SWI-2029	1861	-82.17210455	33.41479829	
SWI-2031	1862	-82.17819986	33.41505257	Weir Trap
SWI-2032	1863	-82.17654828	33.41626193	Weir Trap
SWI-2033	1864	-82.17809852	33.41900694	Other
SWI-2034	1865	-82.18179864	33.41516224	Weir Trap
SWI-2035	1866	-82.17994362	33.41899665	Weir Trap
SWI-2036	1867	-82.17736221	33.42066168	Grate Trap
SWI-2037	1868	-82.17429663	33.42209657	Grate Trap
SWI-2039	1869	-82.17279587	33.42444756	Weir Trap
SWI-2040	1870	-82.12609119	33.43209233	Grate Trap
SWI-2041	1871	-82.12676597	33.43198806	Single-Wing
SWI-2042	1872	-82.12502066	33.43200978	Single-Wing
SWI-2043	1873	-82.12588893	33.43224085	Single-Wing
SWI-2045	1874	-82.12671429	33.42943189	Single-Wing
SWI-2046	1875	-82.12434205	33.42915387	Single-Wing
SWI-2047	1876	-82.12353196	33.43032155	Grate Trap
SWI-2048	1877	-82.13814504	33.42436683	Grate Trap
SWI-2049	1878	-82.1389321	33.42325054	Grate Trap
SWI-2050	1879	-82.13847705	33.42311505	Single-Wing
SWI-2051	1880	-82.14019919	33.4231455	Single-Wing
SWI-2052	1881	-82.1408714	33.42327574	Grate Trap
SWI-2053	1882	-82.14213719	33.42356928	Grate Trap
SWI-2054	1883	-82.14009992	33.4241988	Grate Trap
SWI-2055	1884	-82.13841317	33.4252019	Single-Wing
SWI-2056	1885	-82.13958772	33.42521941	Single-Wing
SWI-2057	1886	-82.14162462	33.42539503	Single-Wing
SWI-2058	1887	-82.14297888	33.42527226	Single-Wing
SWI-2059	1888	-82.14174872	33.42573291	Grate Trap
SWI-2060	1889	-82.13984827	33.4260593	Grate Trap
SWI-2061	1890	-82.14128183	33.42758764	
SWI-2062	1891	-82.14036892	33.42702651	
SWI-2063	1892	-82.13904084	33.42586739	Grate Trap
SWI-2064	1893	-82.13825908	33.42717345	Single-Wing
SWI-2065	1894	-82.13870852	33.42664433	Grate Trap
SWI-2066	1895	-82.14200646	33.42859901	Single-Wing
SWI-2067	1896	-82.1418048	33.42840674	Single-Wing
SWI-2068	1897	-82.14400806	33.42717085	Grate Trap
SWI-2070	1898	-82.14337937	33.42853034	Single-Wing
SWI-2071	1899	-82.14315264	33.42842971	Single-Wing
SWI-2072	1900	-82.15151502	33.42631849	Single-Wing
SWI-2073	1901	-82.13546305	33.42513315	Grate Trap
SWI-2074	1902	-82.1488338	33.4343465	Weir Trap
SWI-2076	1903	-82.15990049	33.41385628	None
SWI-2077	1904	-82.16050094	33.41454259	None

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SWI-2078	1905	-82.15183949	33.42632302	Single-Wing
SWI-2079	1906	-82.15218781	33.42667866	Grate Trap
SWI-2080	1907	-82.15322288	33.42635282	Single-Wing
SWI-2081	1908	-82.14700721	33.4226967	Single-Wing
SWI-2082	1909	-82.1481783	33.4241829	Grate Trap
SWI-2083	1910	-82.14757205	33.42477024	Single-Wing
SWI-2084	1911	-82.14710003	33.42547872	Double-Wing
SWI-2085	1912	-82.13782863	33.40537845	Single-Wing
SWI-2086	1913	-82.13832104	33.40562223	Other
SWI-2087	1914	-82.13722596	33.40559627	Grate Trap
SWI-2088	1915	-82.15572093	33.41778559	Grate Trap
SWI-2089	1916	-82.14772542	33.41812472	Grate Trap
SWI-2090	1917	-82.15416364	33.41865279	Grate Trap
SWI-2091	1918	-82.15801046	33.41621864	Weir Trap
SWI-2092	1919	-82.15274288	33.41782562	Grate Trap
SWI-2093	1920	-82.1527663	33.41715974	Grate Trap
SWI-2094	1921	-82.15278615	33.41646731	Other
SWI-2095	1922	-82.14086337	33.42400287	Grate Trap
SWI-2096	1923	-82.14404989	33.42419347	Grate Trap
SWI-2097	1924	-82.14367347	33.42374865	Grate Trap
SWI-2099	1925	-82.13841154	33.42265329	Single-Wing
SWI-2100	1926	-82.17609805	33.41832892	Grate Trap
SWI-2101	1927	-82.17547555	33.41666837	Grate Trap
SWI-2102	1928	-82.17502743	33.41025834	Weir Trap
SWI-2103	1929	-82.1878222	33.41829452	Grate Trap
SWI-2104	1930	-82.12506557	33.40132889	Single-Wing
SWI-2105	1931	-82.1268205	33.40454303	Single-Wing
SWI-2106	1932	-82.12768014	33.40636367	Double-Wing
SWI-2107	1933	-82.13136174	33.41762209	Grate Trap
SWI-2108	1934	-82.13093695	33.41750509	Grate Trap
SWI-2109	1935	-82.13463665	33.41661883	Weir Trap
SWI-2110	1936	-82.11770629	33.41160888	Weir Trap
SWI-2111	1937	-82.12734055	33.43089298	Single-Wing
SWI-2112	1938	-82.12734279	33.42856348	Single-Wing
SWI-2113	1939	-82.12473288	33.43036576	Single-Wing
SWI-2114	1940	-82.12804424	33.42896821	Grate Trap
SWI-2115	1941	-82.12753543	33.42877179	Grate Trap
SWI-2116	1942	-82.1291386	33.42886141	Single-Wing
SWI-2117	1943	-82.11789602	33.43097865	Single-Wing
SWI-2118	1944	-82.12744879	33.42657801	Single-Wing
SWI-2119	1945	-82.12915639	33.42654101	Single-Wing
SWI-2120	1946	-82.12929534	33.42612743	Double-Wing
SWI-2121	1947	-82.13551674	33.4226429	Weir Trap
SWI-2122	1948	-82.1447643	33.41791931	
SWI-2123	1949	-82.14159211	33.41838854	Single-Wing
SWI-2124	1950	-82.14255916	33.41798119	Grate Trap
SWI-2125	1951	-82.13952438	33.42374703	Grate Trap
SWI-2126	1952	-82.14218027	33.43434679	Weir Trap
SWI-2127	1953	-82.14644231	33.43435629	Weir Trap
SWI-2128	1954	-82.16081237	33.41602014	Weir Trap
SWI-2129	1955	-82.16209567	33.4180103	Grate Trap
SWI-2130	1956	-82.13390726	33.41934495	Grate Trap
SWI-2131	1957	-82.13443316	33.41886255	Grate Trap
SWI-2132	1958	-82.13983596	33.42465285	Single-Wing
SWI-2133	1959	-82.13840489	33.42462957	Single-Wing
SWI-2134	1960	-82.14119596	33.42441696	Grate Trap
SWI-2135	1961	-82.16912266	33.41041359	Headwall
SWI-2136	1962	-82.17212423	33.41282489	

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SWI-2137	1963	-82.17213386	33.41239783	
SWI-2138	1964	-82.16946238	33.40841551	Grate Trap
SWI-2139	1965	-82.16946593	33.40809852	Grate Trap
SWI-2140	1966	-82.17028797	33.40812251	Grate Trap
SWI-2141	1967	-82.1691219	33.40977527	Double-Wing
SWI-2142	1968	-82.16914965	33.40973773	Single-Wing
SWI-2143	1969	-82.16951904	33.41022855	Double-Wing
SWI-2144	1970	-82.16957063	33.41015316	Double-Wing
SWI-2145	1971	-82.17112047	33.41090669	Other
SWI-2146	1972	-82.17105264	33.41073747	
SWI-2147	1973	-82.17055968	33.41116827	Grate Trap
SWI-2148	1974	-82.17159786	33.40951921	Grate Trap
SWI-2149	1975	-82.17219613	33.40952763	Grate Trap
SWI-2150	1976	-82.1708714	33.41008396	Double-Wing
SWI-2151	1977	-82.17076897	33.41008397	Double-Wing
SWI-2152	1978	-82.17089665	33.41008909	Single-Wing
SWI-2153	1979	-82.17080982	33.41491386	
SWI-2154	1980	-82.17070737	33.41491292	
SWI-2155	1981	-82.17117543	33.41409945	
SWI-2156	1982	-82.17108483	33.41405697	
SWI-2157	1983	-82.17131031	33.41219698	
SWI-2158	1984	-82.17140865	33.41219886	
SWI-2159	1985	-82.17164805	33.41086488	
SWI-2160	1986	-82.17174779	33.41084054	
SWI-2161	1987	-82.17159765	33.41048399	
SWI-2162	1988	-82.17171667	33.41057671	
SWI-2163	1989	-82.17098898	33.40885558	Single-Wing
SWI-2164	1990	-82.17099362	33.40877099	Single-Wing
SWI-2165	1991	-82.17098762	33.40873704	Single-Wing
SWI-2166	1992	-82.17089956	33.40873329	Single-Wing
SWI-2167	1993	-82.17079418	33.40872923	Single-Wing
SWI-2168	1994	-82.17178709	33.40874992	Single-Wing
SWI-2169	1995	-82.17178744	33.40878256	Single-Wing
SWI-2170	1996	-82.17178762	33.40886781	Single-Wing
SWI-2171	1997	-82.17272102	33.40876279	Single-Wing
SWI-2173	1998	-82.16988273	33.40863261	
SWI-2174	1999	-82.16878378	33.40873865	Double-Wing
SWI-2175	2000	-82.16878122	33.40882363	Double-Wing
SWI-2176	2001	-82.16764257	33.40715923	
SWI-2177	2002	-82.16388971	33.40745823	Weir Trap
SWI-2179	2003	-82.17181845	33.4072647	Double-Wing
SWI-2180	2004	-82.17181973	33.40740196	Double-Wing
SWI-2181	2005	-82.17181095	33.40775844	Double-Wing
SWI-2183	2006	-82.1210066	33.42016249	Grate Trap
SWI-2184	2007	-82.12078562	33.41929997	Grate Trap
SWI-2185	2008	-82.12180099	33.41858183	Grate Trap
SWI-2186	2009	-82.12261779	33.41789264	Grate Trap
SWI-2187	2010	-82.12405236	33.41842852	Grate Trap
SWI-2188	2011	-82.12414822	33.41902887	Grate Trap
SWI-2189	2012	-82.12362553	33.41989855	Grate Trap
SWI-2190	2013	-82.12298727	33.42044489	Grate Trap
SWI-2191	2014	-82.12202812	33.42055269	Grate Trap
SWI-2192	2015	-82.12152466	33.42049255	Grate Trap
SWI-2193	2016	-82.12412995	33.41651546	Grate Trap
SWI-2194	2017	-82.12415939	33.41690878	Grate Trap
SWI-2195	2018	-82.12439409	33.4172584	Grate Trap
SWI-2196	2019	-82.1246847	33.41740013	Grate Trap
SWI-2197	2020	-82.12516082	33.4173628	Grate Trap

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SWI-2198	2021	-82.12547823	33.41707951	Grate Trap
SWI-2199	2022	-82.12550877	33.41666397	Grate Trap
SWI-2200	2023	-82.12545399	33.41618995	Grate Trap
SWI-2201	2024	-82.12432766	33.41611014	Grate Trap
SWI-2202	2025	-82.1263141	33.41963154	Grate Trap
SWI-2203	2026	-82.12541184	33.41965462	Grate Trap
SWI-2204	2027	-82.12388999	33.42080003	Grate Trap
SWI-2205	2028	-82.12397369	33.42135868	Grate Trap
SWI-2206	2029	-82.12410762	33.42142779	Grate Trap
SWI-2207	2030	-82.12447225	33.42155411	Grate Trap
SWI-2208	2031	-82.1256638	33.4216254	Grate Trap
SWI-2209	2032	-82.12704567	33.42004117	Grate Trap
SWI-2210	2033	-82.12693585	33.41991914	Grate Trap
SWI-2211	2034	-82.12645891	33.41958709	Grate Trap
SWI-2212	2035	-82.12653946	33.41960654	Grate Trap
SWI-2213	2036	-82.12643926	33.41885836	Grate Trap
SWI-2214	2037	-82.12651752	33.41883684	Grate Trap
SWI-2215	2038	-82.12602241	33.41812033	Grate Trap
SWI-2216	2039	-82.12577255	33.418219	Grate Trap
SWI-2217	2040	-82.12580096	33.41815606	Grate Trap
SWI-2218	2041	-82.12497359	33.41905634	Grate Trap
SWI-2219	2042	-82.12531639	33.41889057	Grate Trap
SWI-2220	2043	-82.12535622	33.41895115	Grate Trap
SWI-2221	2044	-82.12550705	33.41875252	Grate Trap
SWI-2222	2045	-82.1285204	33.40246058	Grate Trap
SWI-2223	2046	-82.12870816	33.40234114	Grate Trap
SWI-2224	2047	-82.12891322	33.40223691	Hoodback Trap
SWI-2225	2048	-82.13017668	33.40198372	Grate Trap
SWI-2226	2049	-82.13054269	33.40204892	Grate Trap
SWI-2227	2050	-82.13109829	33.40218853	Grate Trap
SWI-2228	2051	-82.13185763	33.40234647	Grate Trap
SWI-2229	2052	-82.13213833	33.4024091	Hoodback Trap
SWI-2230	2053	-82.13230507	33.40244965	Grate Trap
SWI-2231	2054	-82.13264787	33.40253001	Grate Trap
SWI-2232	2055	-82.13306045	33.40260303	Grate Trap
SWI-2233	2056	-82.1334224	33.40266537	Grate Trap
SWI-2234	2057	-82.12995171	33.40270626	Grate Trap
SWI-2235	2058	-82.12957666	33.40217626	Grate Trap
SWI-2236	2059	-82.13032083	33.40343748	Grate Trap
SWI-2237	2060	-82.13064603	33.40332161	Grate Trap
SWI-2238	2061	-82.13021634	33.4038382	Grate Trap
SWI-2239	2062	-82.13082427	33.40440154	Grate Trap
SWI-2240	2063	-82.13137989	33.40431276	Grate Trap
SWI-2241	2064	-82.13185204	33.40400518	Grate Trap
SWI-2242	2065	-82.14948702	33.40906209	Grate Trap
SWI-2243	2066	-82.14962403	33.40984014	Grate Trap
SWI-2244	2067	-82.14938071	33.41082925	Grate Trap
SWI-2245	2068	-82.14829576	33.41148312	Grate Trap
SWI-2246	2069	-82.1478949	33.41191225	Grate Trap
SWI-2247	2070	-82.13639424	33.42909974	Single-Wing
SWI-2248	2071	-82.13649646	33.42910107	Single-Wing
SWI-2249	2072	-82.13581204	33.4296945	Double-Wing
SWI-2250	2073	-82.135866	33.42977254	Double-Wing
SWI-2252	2074	-82.12650843	33.40835941	Outfall Structure
SWI-2253	2075	-82.12577444	33.4090178	Grate Trap
SWI-2254	2076	-82.12713966	33.42060035	Grate Trap
SWI-2255	2077	-82.13661025	33.407808	Outfall Structure
SWI-2256	2078	-82.13426976	33.40783181	Outfall Structure

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SWI-2257	2079	-82.13450605	33.40821408	Outfall Structure
SWI-2258	2080	-82.13417055	33.40747129	Outfall Structure
SWI-2259	2081	-82.13481092	33.4085876	Outfall Structure
SWI-2260	2082	-82.13523428	33.40898897	Outfall Structure
SWI-2261	2083	-82.13557657	33.40902831	Outfall Structure
SWI-2262	2084	-82.13636282	33.40839547	Single-Wing
SWI-2263	2085	-82.13623322	33.40856103	Single-Wing
SWI-2264	2086	-82.13373392	33.40735492	Single-Wing
SWI-2265	2087	-82.13546386	33.40935343	Outfall Structure
SWI-2266	2088	-82.12688391	33.42751457	Single-Wing
SWI-2267	2089	-82.1268839	33.42690588	Single-Wing
SWI-2268	2090	-82.12676375	33.42567623	Single-Wing
SWI-2269	2091	-82.12700126	33.42561538	Single-Wing
SWI-2270	2092	-82.12715545	33.42564981	Double-Wing
SWI-2271	2093	-82.12719158	33.42571576	Single-Wing
SWI-2272	2094	-82.12746863	33.42556641	Single-Wing
SWI-2274	2095	-82.12776125	33.4254258	Single-Wing
SWI-2275	2096	-82.12833775	33.4253276	Single-Wing
SWI-2276	2097	-82.12910691	33.42526769	Single-Wing
SWI-2277	2098	-82.12946437	33.42525477	Single-Wing
SWI-2278	2099	-82.12996895	33.42525787	Double-Wing
SWI-2279	2100	-82.13003247	33.42525826	Single-Wing
SWI-2280	2101	-82.12999203	33.42504667	Double-Wing
SWI-2281	2102	-82.13036943	33.4252628	Single-Wing
SWI-2283	2103	-82.13074439	33.42545451	Other
SWI-2284	2104	-82.13129922	33.42606315	Grate Trap
SWI-2286	2105	-82.12595139	33.42837981	Weir Trap
SWI-2287	2106	-82.12585067	33.42898398	Weir Trap
SWI-2288	2107	-82.12630287	33.42901691	Grate Trap
SWI-2289	2108	-82.12725	33.4261708	Hoodback Trap
SWI-2290	2109	-82.12740443	33.42617194	Hoodback Trap
SWI-2291	2110	-82.17734913	33.4231642	
SWI-2294	2111	-82.16796729	33.40949569	Single-Wing
SWI-2295	2112	-82.16796311	33.40960371	Single-Wing
SWI-2296	2113	-82.16905567	33.40983865	Double-Wing
SWI-2298	2114	-82.17021108	33.41500635	
SWI-2299	2115	-82.13783702	33.41537143	Single-Wing
SWI-2300	2116	-82.13762932	33.41551369	Double-Wing
SWI-2301	2117	-82.13735406	33.41489988	Single-Wing
SWI-2302	2118	-82.13720669	33.41507315	Single-Wing
SWI-2303	2119	-82.13743522	33.41451732	Double-Wing
SWI-2304	2120	-82.13735944	33.41443838	Double-Wing
SWI-2305	2121	-82.13641971	33.41420765	Single-Wing
SWI-2306	2122	-82.13651656	33.41389601	Single-Wing
SWI-2307	2123	-82.13601959	33.41376303	Single-Wing
SWI-2308	2124	-82.13585959	33.41322054	Single-Wing
SWI-2309	2125	-82.13702526	33.41452029	Single-Wing
SWI-2310	2126	-82.13819265	33.41606951	Single-Wing
SWI-2311	2127	-82.13797553	33.41683953	Single-Wing
SWI-2312	2128	-82.13169242	33.41764709	Grate Trap
SWI-2313	2129	-82.13143464	33.41563393	Grate Trap
SWI-2314	2130	-82.1318437	33.41558851	Grate Trap
SWI-2315	2131	-82.13810144	33.41554218	Grate Trap
SWI-2317	2132	-82.12452924	33.40307153	Weir Trap
SWI-2318	2133	-82.12462009	33.40298492	Single-Wing
SWI-2319	2134	-82.12478302	33.40310968	Single-Wing
SWI-2320	2135	-82.12526473	33.40257264	Single-Wing
SWI-2321	2136	-82.12522148	33.4024332	Double-Wing

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SWI-2322	2137	-82.12557637	33.40243771	Single-Wing
SWI-2323	2138	-82.12530456	33.40277591	Single-Wing
SWI-2324	2139	-82.12492724	33.4032548	Single-Wing
SWI-2325	2140	-82.12486846	33.40339827	Double-Wing
SWI-2326	2141	-82.1249886	33.40185885	Grate Trap
SWI-2327	2142	-82.125349	33.40225642	Weir Trap
SWI-2328	2143	-82.12648846	33.40413234	Weir Trap
SWI-2331	2144	-82.16548657	33.40529196	
SWI-2332	2145	-82.11727295	33.39435223	
SWI-2333	2146	-82.1173782	33.3941117	
SWI-2334	2147	-82.1273134	33.40168836	Weir Trap
SWI-2335	2148	-82.15862675	33.42471453	Grate Trap
SWI-2336	2149	-82.13771207	33.42700286	Grate Trap
SWI-2337	2150	-82.1447009	33.4276348	None
SWI-2338	2151	-82.14750076	33.42788979	Single-Wing
SWI-2339	2152	-82.1508504	33.42555911	Grate Trap
SWI-2340	2153	-82.15420629	33.42298204	Grate Trap
SWI-2341	2154	-82.15411525	33.42302607	Hoodback Trap
SWI-2342	2155	-82.15396694	33.42319446	Grate Trap
SWI-2343	2156	-82.15357766	33.42318759	Grate Trap
SWI-2344	2157	-82.15407423	33.42340424	Weir Trap
SWI-2345	2158	-82.1539017	33.42372408	Other
SWI-2346	2159	-82.15387681	33.42387551	Grate Trap
SWI-2347	2160	-82.15388268	33.42419342	Grate Trap
SWI-2348	2161	-82.15422882	33.42341589	Grate Trap
SWI-2349	2162	-82.15768372	33.42456911	Single-Wing
SWI-2350	2163	-82.15806959	33.42609607	Manhole
SWI-2351	2164	-82.15751333	33.42607306	Manhole
SWI-2352	2165	-82.16044763	33.4269142	Weir Trap
SWI-2353	2166	-82.15860846	33.42573781	
SWI-2354	2167	-82.16103472	33.42692598	Weir Trap
SWI-2355	2168	-82.160742	33.42692419	Weir Trap
SWI-2356	2169	-82.15421082	33.41945372	Grate Trap
SWI-2357	2170	-82.15401613	33.41971563	Grate Trap
SWI-2358	2171	-82.1602363	33.41934947	Other
SWI-2359	2172	-82.16036599	33.41639212	Grate Trap
SWI-2360	2173	-82.15492121	33.41622763	Single-Wing
SWI-2361	2174	-82.15387911	33.41615946	Other
SWI-2362	2175	-82.12443242	33.4018053	Grate Trap
SWI-2364	2176	-82.17867112	33.41482302	Other
SWI-2365	2177	-82.17879774	33.41482241	Other
SWI-2366	2178	-82.13993048	33.41843416	Grate Trap
SWI-2367	2179	-82.1394827	33.41693434	Other
SWI-2368	2180	-82.13846598	33.41654673	Hoodback Trap
SWI-2369	2181	-82.13892488	33.41650425	Grate Trap
SWI-2370	2182	-82.13848714	33.41874374	Grate Trap
SWI-2371	2183	-82.13850676	33.41914083	Grate Trap
SWI-2372	2184	-82.13623919	33.41352716	Grate Trap
SWI-2373	2185	-82.13582598	33.41310264	Grate Trap
SWI-2374	2186	-82.13543379	33.41275142	Single-Wing
SWI-2375	2187	-82.13549464	33.41184092	Grate Trap
SWI-2376	2188	-82.13541008	33.41175674	Grate Trap
SWI-2377	2189	-82.13130582	33.41288467	Grate Trap
SWI-2379	2190	-82.12631493	33.40028759	Daylight
SWI-2380	2191	-82.13614673	33.41397297	Grate Trap
SWI-2381	2192	-82.13788129	33.41537508	Grate Trap
SWI-2382	2193	-82.12489319	33.4034238	Weir Trap
SWI-2383	2194	-82.1247309	33.40338095	Single-Wing

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SWI-2384	2195	-82.12427367	33.40377869	Double-Wing
SWI-2385	2196	-82.12421553	33.40371002	Double-Wing
SWI-2386	2197	-82.1385515	33.41385204	Weir Trap
SWI-2387	2198	-82.11305624	33.42895329	Grate Trap
SWI-2388	2199	-82.11255087	33.42870986	Grate Trap
SWI-2389	2200	-82.11252442	33.42828942	Grate Trap
SWI-2390	2201	-82.11250414	33.42792559	Grate Trap
SWI-2391	2202	-82.11249499	33.42747669	Grate Trap
SWI-2392	2203	-82.11282119	33.42727722	Grate Trap
SWI-2393	2204	-82.11326269	33.42724848	Grate Trap
SWI-2394	2205	-82.11374004	33.42721945	Grate Trap
SWI-2395	2206	-82.11374861	33.4273382	Grate Trap
SWI-2396	2207	-82.13776103	33.42661736	Single-Wing
SWI-2397	2208	-82.13896314	33.42608557	Double-Wing
SWI-2398	2209	-82.1487122	33.42760118	Grate Trap
SWI-2399	2210	-82.12131907	33.42681534	Grate Trap
SWI-2400	2211	-82.13631627	33.41838167	Weir Trap
SWI-2403	2212	-82.16693449	33.40613937	
SWI-2404	2213	-82.16711116	33.40638055	
SWI-2405	2214	-82.16743016	33.40656968	
SWI-2406	2215	-82.16756856	33.40666902	
SWI-2408	2216	-82.17042344	33.41148179	Grate Trap
SWI-2409	2217	-82.17035776	33.41147305	Grate Trap
SWI-2410	2218	-82.17052269	33.41158234	Grate Trap
SWI-2411	2219	-82.17056251	33.4117082	Grate Trap
SWI-2412	2220	-82.17115477	33.41538079	Grate Trap
SWI-2413	2221	-82.17098292	33.41538194	Grate Trap
SWI-2414	2222	-82.17098316	33.41561197	Grate Trap
SWI-2415	2223	-82.17098132	33.4158993	Grate Trap
SWI-2418	2224	-82.16901693	33.40925535	Grate Trap
SWI-2419	2225	-82.16915803	33.40948715	Grate Trap
SWI-2421	2226	-82.16265062	33.41965223	Weir Trap
SWI-2422	2227	-82.13835704	33.41570132	Double-Wing
SWI-2423	2228	-82.14055111	33.41321629	Grate Trap
SWI-2424	2229	-82.14789985	33.41612182	Grate Trap
SWI-2425	2230	-82.12538938	33.42837733	Grate Trap
SWI-2426	2231	-82.12450942	33.42839194	Grate Trap
SWI-2427	2232	-82.11884257	33.40049432	
SWI-2428	2233	-82.12349167	33.40281101	Weir Trap
SWI-2429	2234	-82.11553494	33.41025248	Weir Trap
SWI-2430	2235	-82.13918303	33.41454702	Hoodback Trap
SWI-2431	2236	-82.14002015	33.41446431	Single-Wing
SWI-2433	2237	-82.1370995	33.4162018	Weir Trap
SWI-2434	2238	-82.15034365	33.42555018	Grate Trap
SWI-2435	2239	-82.17995932	33.41626309	Grate Trap
SWI-2437	2240	-82.1267574	33.41979135	Grate Trap
SWI-2438	2241	-82.12663326	33.41986741	Grate Trap
SWI-2439	2242	-82.12473243	33.41726856	Grate Trap
SWI-2440	2243	-82.11281906	33.42744849	Grate Trap
SWI-2441	2244	-82.11845504	33.43790483	Single-Wing
SWI-2442	2245	-82.11834286	33.43736172	Single-Wing
SWI-2443	2246	-82.11837703	33.437496	Single-Wing
SWI-2444	2247	-82.11807144	33.43656825	Single-Wing
SWI-2445	2248	-82.11795612	33.43616786	Single-Wing
SWI-2446	2249	-82.11849733	33.43845602	Single-Wing
SWI-2447	2250	-82.13128334	33.42640003	Grate Trap
SWI-2449	2251	-82.12384706	33.42788074	Single-Wing
SWI-2450	2252	-82.17277857	33.4117482	

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SWI-2451	2253	-82.17277409	33.41198051	
SWI-2452	2254	-82.1727921	33.41110635	
SWI-2453	2255	-82.17276008	33.4126201	
SWI-2454	2256	-82.17282728	33.40958408	
SWI-2456	2257	-82.16310527	33.40465044	
SWI-2457	2258	-82.17077546	33.40943393	Single-Wing
SWI-2458	2259	-82.17088589	33.40943622	Single-Wing
SWI-2459	2260	-82.17093793	33.4094553	Double-Wing
SWI-2460	2261	-82.17028286	33.40863881	Grate Trap
SWI-2461	2262	-82.16848631	33.40914784	Grate Trap
SWI-2462	2263	-82.17178412	33.41120598	
SWI-2463	2264	-82.17167812	33.4111967	
SWI-2464	2265	-82.14269054	33.41603816	Grate Trap
SWI-2466	2266	-82.16936554	33.41570935	
SWI-2467	2267	-82.16196832	33.4234191	Other
SWI-2468	2268	-82.16215857	33.42327814	Grate Trap
SWI-2470	2269	-82.16078693	33.42372932	Grate Trap
SWI-2471	2270	-82.15327655	33.42290345	Grate Trap
SWI-2472	2271	-82.16024474	33.42443451	Grate Trap
SWI-2473	2272	-82.16024793	33.42424158	Grate Trap
SWI-2474	2273	-82.16260908	33.42411719	Grate Trap
SWI-2475	2274	-82.16283457	33.42431485	Grate Trap
SWI-2478	2275	-82.13648985	33.4123479	Grate Trap
SWI-2479	2276	-82.13649025	33.41212104	
SWI-2480	2277	-82.12824252	33.4066751	Grate Trap
SWI-2481	2278	-82.12807738	33.40657893	Weir Trap
SWI-2482	2279	-82.12806109	33.40609707	Single-Wing
SWI-2483	2280	-82.12435719	33.40283282	Weir Trap
SWI-2484	2281	-82.1439909	33.41663947	Grate Trap
SWI-2485	2282	-82.14791826	33.41848985	Grate Trap
SWI-2486	2283	-82.13226551	33.42122273	Manhole
SWI-2487	2284	-82.13229575	33.42113336	Manhole
SWI-2488	2285	-82.14560988	33.42332698	Grate Trap
SWI-2489	2286	-82.15411888	33.4206828	Grate Trap
SWI-2490	2287	-82.15397624	33.42053737	Grate Trap
SWI-2491	2288	-82.15381705	33.42080491	
SWI-2492	2289	-82.15383551	33.42078909	Grate Trap
SWI-2493	2290	-82.15375601	33.42073433	Grate Trap
SWI-2495	2291	-82.15561379	33.42207125	Single-Wing
SWI-2496	2292	-82.15572623	33.4226836	Single-Wing
SWI-2497	2293	-82.1301148	33.4235593	Other
SWI-2498	2294	-82.13540928	33.40699383	
SWI-2499	2295	-82.1794211	33.42315494	Grate Trap
SWI-2500	2296	-82.13156451	33.40261284	Grate Trap
SWI-2502	2297	-82.13824864	33.41617923	Grate Trap
SWI-2503	2298	-82.137807	33.41339643	Grate Trap
SWI-2504	2299	-82.13821626	33.41384788	
SWI-2505	2300	-82.13336623	33.42660426	Single-Wing
SWI-2506	2301	-82.13335983	33.42669409	Single-Wing
SWI-2507	2302	-82.13423403	33.42662222	Single-Wing
SWI-2508	2303	-82.13423072	33.42670867	Single-Wing
SWI-2509	2304	-82.13505735	33.42662849	Double-Wing
SWI-2510	2305	-82.135056	33.42672121	Double-Wing
SWI-2511	2306	-82.13604283	33.42664655	Single-Wing
SWI-2512	2307	-82.13603776	33.42673823	Single-Wing
SWI-2513	2308	-82.13642698	33.42751714	Single-Wing
SWI-2514	2309	-82.13653287	33.42751807	Single-Wing
SWI-2515	2310	-82.13240536	33.42783515	Single-Wing

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SWI-2516	2311	-82.13251383	33.42783773	Single-Wing
SWI-2517	2312	-82.13236872	33.42935018	Single-Wing
SWI-2518	2313	-82.13248543	33.4293521	Single-Wing
SWI-2519	2314	-82.13288881	33.42936071	Single-Wing
SWI-2520	2315	-82.13338674	33.42997522	Single-Wing
SWI-2521	2316	-82.13339705	33.42988242	Single-Wing
SWI-2522	2317	-82.13461846	33.42986883	Single-Wing
SWI-2523	2318	-82.13434798	33.42986657	Single-Wing
SWI-2524	2319	-82.13434812	33.42998707	Single-Wing
SWI-2525	2320	-82.17314147	33.41605727	
SWI-2527	2321	-82.15580683	33.42708048	Manhole
SWI-2528	2322	-82.11995192	33.39698795	Grate Trap
SWI-2529	2323	-82.13515111	33.42999713	Single-Wing
SWI-2530	2324	-82.13515599	33.42991285	Single-Wing
SWI-2531	2325	-82.13238381	33.42865952	Single-Wing
SWI-2532	2326	-82.13249692	33.42865849	Single-Wing
SWI-2533	2327	-82.13254392	33.42866104	Grate Trap
SWI-2534	2328	-82.13505376	33.42675549	Grate Trap
SWI-2535	2329	-82.13816345	33.41687388	Grate Trap
SWI-2542	2330	-82.12773512	33.40168115	Weir Trap
SWI-2543	2331	-82.17150562	33.41026292	Single-Wing
SWI-2548	2332	-82.17218616	33.41605356	Grate Trap
SWI-2549	2333	-82.17132662	33.41606036	Grate Trap
SWI-2551	2334	-82.13745488	33.42729025	Grate Trap
SWI-2552	2335	-82.13707045	33.42728416	Grate Trap
SWI-2553	2336	-82.12017536	33.39644626	Weir Trap
SWI-2554	2337	-82.16258697	33.41855516	Weir Trap
SWI-2555	2338	-82.1626442	33.418451	Weir Trap
SWI-2556	2339	-82.1733868	33.40508713	Daylight
SWI-2557	2340	-82.12756064	33.4266129	Grate Trap
SWI-2558	2341	-82.13465895	33.40841963	Grate Trap
SWI-2559	2342	-82.13920857	33.41650759	Grate Trap
SWI-2560	2343	-82.13576134	33.41719448	Weir Trap
SWI-2563	2344	-82.12180299	33.42053909	Grate Trap
SWI-2564	2345	-82.12198481	33.42042799	Grate Trap
SWI-2565	2346	-82.12153864	33.4203329	Grate Trap
SWI-2566	2347	-82.12377579	33.42157609	Grate Trap
SWI-2567	2348	-82.12636665	33.4195665	Grate Trap
SWI-2568	2349	-82.13046513	33.40344009	Grate Trap
SWI-2569	2350	-82.12979955	33.40407907	Grate Trap
SWI-2570	2351	-82.12946019	33.40229522	Weir Trap
SWI-2571	2352	-82.13371111	33.40297883	Grate Trap
SWI-2572	2353	-82.13102764	33.40255011	Grate Trap
SWI-2573	2354	-82.11814277	33.39861964	Grate Trap
SWI-2575	2355	-82.12423486	33.42129096	Grate Trap
SWI-2576	2356	-82.12415121	33.42085912	Grate Trap
SWI-2577	2357	-82.12571224	33.41974002	Grate Trap
SWI-2578	2358	-82.13717922	33.42280518	Single-Wing
SWI-2582	2359	-82.16305757	33.42450245	Grate Trap
SWI-2583	2360	-82.16275484	33.42406763	Grate Trap
SWI-2584	2361	-82.13155925	33.42908006	Weir Trap
SWI-2585	2362	-82.14220514	33.43667626	Headwall
SWI-2586	2363	-82.1355408	33.42169363	Weir Trap
SWI-2587	2364	-82.13553757	33.42187628	Weir Trap
SWI-2589	2365	-82.15760097	33.430705	Flared End
SWI-2590	2366	-82.13251043	33.42984017	Single-Wing
SWI-2592	2367	-82.13526898	33.42947227	None
SWI-2593	2368	-82.13512437	33.42942587	Grate Trap

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SWI-2594	2369	-82.13372368	33.42938209	Grate Trap
SWI-2595	2370	-82.13633114	33.42798788	Double-Wing
SWI-2596	2371	-82.13652133	33.42799377	Double-Wing
SWI-2597	2372	-82.13628451	33.4280346	Grate Trap
SWI-2598	2373	-82.13560448	33.42796462	Grate Trap
SWI-2599	2374	-82.13637662	33.42755952	Grate Trap
SWI-2600	2375	-82.13232858	33.42783121	Grate Trap
SWI-2601	2376	-82.13340377	33.42873626	Grate Trap
SWI-2602	2377	-82.13637838	33.42702289	Grate Trap
SWI-2603	2378	-82.13542826	33.42681395	Grate Trap
SWI-2605	2379	-82.13526685	33.42744072	Grate Trap
SWI-2606	2380	-82.13530607	33.42785475	Grate Trap
SWI-2607	2381	-82.13392021	33.42842726	Grate Trap
SWI-2608	2382	-82.13421253	33.42843032	Grate Trap
SWI-2609	2383	-82.13423035	33.42677233	Grate Trap
SWI-2610	2384	-82.13422702	33.4269832	Grate Trap
SWI-2611	2385	-82.13336078	33.42675654	Grate Trap
SWI-2612	2386	-82.13521466	33.42586921	Grate Trap
SWI-2613	2387	-82.134453	33.42585183	Grate Trap
SWI-2614	2388	-82.13521326	33.42567937	Grate Trap
SWI-2615	2389	-82.13385796	33.4258457	Grate Trap
SWI-2616	2390	-82.13395311	33.42529983	Grate Trap
SWI-2617	2391	-82.13587737	33.42796937	Grate Trap
SWI-2618	2392	-82.13575932	33.42934072	Grate Trap
SWI-2619	2393	-82.16483026	33.42234271	Weir Trap
SWI-2620	2394	-82.16368132	33.41773038	Other
SWI-2621	2395	-82.16270183	33.41798972	Weir Trap
SWI-2622	2396	-82.13257369	33.40992003	Weir Trap
SWI-2624	2397	-82.16534863	33.41734932	Weir Trap
SWI-2625	2398	-82.16582999	33.42225745	Other
SWI-2627	2399	-82.10561095	33.42127742	Outfall Structure
SWI-2629	2400	-82.15360639	33.42370349	Grate Trap
SWI-2630	2401	-82.15359547	33.42419576	Grate Trap
SWI-2631	2402	-82.15061592	33.42323694	Hoodback Trap
SWI-2632	2403	-82.11841707	33.42929097	Manhole
SWI-2633	2404	-82.11864593	33.42922078	Other
SWI-2634	2405	-82.11838248	33.42965753	Other
SWI-2635	2406	-82.12546523	33.40020863	Grate Trap
SWI-2638	2407	-82.15224068	33.41692846	Grate Trap
SWI-2639	2408	-82.11824131	33.43889551	Grate Trap
SWI-2640	2409	-82.16764659	33.40694873	
SWI-2641	2410	-82.13567392	33.41343996	Hoodback Trap
SWI-2642	2411	-82.15444051	33.42204152	Grate Trap
SWI-2643	2412	-82.15220849	33.42286214	Single-Wing
SWI-2644	2413	-82.14133479	33.42415825	Grate Trap
SWI-2645	2414	-82.16343741	33.41093226	Daylight
SWI-2646	2415	-82.14624337	33.42767689	Other
SWI-2647	2416	-82.14101755	33.4246723	Single-Wing
SWI-2648	2417	-82.14220902	33.42469219	Single-Wing
SWI-2649	2418	-82.13529366	33.42351735	Grate Trap
SWI-2650	2419	-82.14257568	33.42311675	Grate Trap
SWI-2652	2420	-82.12518868	33.40208274	Grate Trap
SWI-2653	2421	-82.18077803	33.42755688	Other
SWI-2655	2422	-82.13762138	33.41600883	Hoodback Trap
SWI-2656	2423	-82.24133212	33.36886899	
SWI-2657	2424	-82.13818603	33.41357227	Grate Trap
SWI-2658	2425	-82.1579653	33.41743948	Weir Trap
SWI-2661	2426	-82.13426476	33.40867363	Grate Trap

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SWI-2662	2427	-82.13409828	33.40877821	Grate Trap
SWI-2663	2428	-82.12362651	33.43026471	Grate Trap
SWI-2664	2429	-82.1528805	33.41624934	Other
SWI-2668	2430	-82.14798187	33.41826486	Weir Trap
SWI-2669	2431	-82.14755345	33.41811924	
SWI-2670	2432	-82.14901404	33.41795908	Grate Trap
SWI-2674	2433	-82.13678124	33.41912934	Grate Trap
SWI-2676	2434	-82.145508	33.42371408	
SWI-2677	2435	-82.15242525	33.42232161	Double-Wing
SWI-2678	2436	-82.15232556	33.42232311	Double-Wing
SWI-2682	2437	-82.17619151	33.40908852	Grate Trap
SWI-2685	2438	-82.13117503	33.4265754	Grate Trap
SWI-2686	2439	-82.15637261	33.42571262	Weir Trap
SWI-2687	2440	-82.16605501	33.43165108	Weir Trap
SWI-5000	2441	-82.15987168	33.42652484	Grate Trap
SWI-5001	2442	-82.16067784	33.42425528	Grate Trap
SWI-5002	2443	-82.1612042	33.42426534	Grate Trap
SWI-5003	2444	-82.16140995	33.42440125	Grate Trap
SWI-5004	2445	-82.16165106	33.42440097	Grate Trap
SWI-5005	2446	-82.16185513	33.4254606	Hoodback Trap
SWI-5006	2447	-82.16236454	33.42546399	Grate Trap
SWI-5007	2448	-82.16116516	33.42504021	Grate Trap
SWI-5008	2449	-82.16188516	33.42511748	Grate Trap
SWI-5009	2450	-82.16174827	33.42497963	Grate Trap
SWI-5010	2451	-82.16148446	33.42497767	Grate Trap
SWI-5011	2452	-82.1612678	33.42497177	Grate Trap
SWI-5012	2453	-82.16044338	33.42544191	Grate Trap
SWI-5013	2454	-82.16025307	33.42543837	Grate Trap
SWI-5015	2455	-82.15891943	33.42429096	Grate Trap
SWI-5016	2456	-82.15892376	33.4238481	Grate Trap
SWI-5017	2457	-82.15927435	33.42385632	Grate Trap
SWI-5018	2458	-82.15971175	33.42386786	Grate Trap
SWI-5019	2459	-82.15761851	33.42487968	Single-Wing
SWI-5020	2460	-82.15762523	33.42572709	Weir Trap
SWI-5021	2461	-82.15939448	33.42574318	Grate Trap
SWI-5033	2490	-82.15427775	33.41837553	Grate Trap
SWI-5052	2468	-82.16240476	33.41964298	Grate Trap
SWI-5063	2469	-82.1629048	33.42309695	Grate Trap
SWI-5066	2470	-82.16199982	33.423093	Grate Trap
SWI-5072	2471	-82.1611161	33.42345463	Grate Trap
SWI-5076	2472	-82.16094431	33.42326771	Grate Trap
SWI-5077	2473	-82.16122126	33.42367914	Grate Trap
SWI-5079	2474	-82.16025801	33.42304959	Grate Trap
SWI-5084	2476	-82.15691204	33.42209477	Grate Trap
SWI-5093	2477	-82.15398124	33.4227789	Double-Wing
SWI-5114	2485	-82.1597683	33.41781996	Grate Trap
SWI-5117	2486	-82.15983058	33.41641767	Grate Trap
SWI-5125	2488	-82.15993061	33.41889392	Grate Trap
SWI-5129	2489	-82.15509411	33.41825507	Grate Trap
SWI-5139	2491	-82.15318562	33.41737586	Grate Trap
SWI-5142	2492	-82.15282715	33.41879473	Weir Trap
SWI-5143	2494	-82.15228574	33.4187836	Grate Trap
SWI-5145	2495	-82.152285	33.41932972	Grate Trap
SWI-5151	2496	-82.14909769	33.41923498	Single-Wing
SWI-5153	2497	-82.14517443	33.41865926	Double-Wing
SWI-5156	2498	-82.14535201	33.41917314	Grate Trap
SWI-5159	2499	-82.14427213	33.41906539	Grate Trap
SWI-5161	2500	-82.14427862	33.41873189	Hoodback Trap

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SWI-5164	2501	-82.13854337	33.419459	Grate Trap
SWI-5166	2502	-82.13864994	33.41937616	Grate Trap
SWI-5169	2503	-82.13863803	33.41884621	Grate Trap
SWI-5177	2516	-82.14747127	33.41684072	Grate Trap
SWI-5179	2518	-82.14741662	33.41684542	Grate Trap
SWI-5181	2520	-82.14751221	33.41658617	Grate Trap
SWI-5189	2526	-82.14337551	33.41836714	Grate Trap
SWI-5196	2527	-82.13847257	33.41681978	Grate Trap
SWI-5200	2529	-82.14809079	33.4158686	Single-Wing
SWI-5212	2534	-82.13902605	33.41535978	Grate Trap
SWI-5220	2536	-82.14146056	33.43549157	Weir Trap
SWI-5231	2545	-82.15087807	33.42635671	Single-Wing
SWI-5238	2546	-82.14943528	33.424345	Grate Trap
SWI-5240	2547	-82.14941166	33.42420897	Grate Trap
SWI-5244	2548	-82.15150062	33.42480194	Single-Wing
SWI-5246	2549	-82.1511886	33.42472256	Single-Wing
SWI-5247	2550	-82.15128551	33.42446203	Grate Trap
SWI-5258	2552	-82.13981855	33.42523189	Single-Wing
SWI-5260	2555	-82.14977307	33.42379539	Grate Trap
SWI-5263	2557	-82.14551104	33.42365807	Grate Trap
SWI-5265	2558	-82.14527857	33.42282838	Grate Trap
SWI-5277	2560	-82.143703	33.42231868	Grate Trap
SWI-5279	2565	-82.14170043	33.42417122	Grate Trap
SWI-5281	2576	-82.1377162	33.42600987	Grate Trap
SWI-5290	2578	-82.13563709	33.42515192	Grate Trap
SWI-5296	2579	-82.1350141	33.42513843	Grate Trap
SWI-5299	2580	-82.13469482	33.42512565	Grate Trap
SWI-5302	2582	-82.13558446	33.42498089	Grate Trap
SWI-5321	2583	-82.13659454	33.42252624	Weir Trap
SWI-5330	2584	-82.1377066	33.42321179	Single-Wing
SWI-5336	2585	-82.13619737	33.42318264	Single-Wing
SWI-5340	2586	-82.13634676	33.42319367	Single-Wing
SWI-5343	2587	-82.13671277	33.42318248	Single-Wing
SWI-5344	2591	-82.13622443	33.41838015	Grate Trap
SWI-5358	2593	-82.13112375	33.41750122	Flume
SWI-5360	2594	-82.13022532	33.41815472	Weir Trap
SWI-5369	2598	-82.1058443	33.42199563	Grate Trap
SWI-5371	2599	-82.10580335	33.4219034	Grate Trap
SWI-5381	2611	-82.09934696	33.4250643	Daylight
SWI-5382	2612	-82.12738764	33.4150097	Weir Trap
SWI-5384	2613	-82.12736331	33.4151331	Weir Trap
SWI-5388	2614	-82.1371183	33.42653197	Grate Trap
SWI-5391	2615	-82.13582556	33.42806654	Grate Trap
SWI-5394	2616	-82.13528059	33.42811076	Grate Trap
SWI-5397	2617	-82.1352768	33.42847285	Grate Trap
SWI-5398	2618	-82.13485402	33.42808437	Grate Trap
SWI-5400	2619	-82.12718891	33.42678637	Grate Trap
SWI-5404	2622	-82.12539719	33.42775242	Weir Trap
SWI-5405	2623	-82.12539009	33.42850289	Grate Trap
SWI-5408	2624	-82.12845734	33.42845414	Grate Trap
SWI-5421	2633	-82.12359076	33.43039408	Double-Wing
SWI-5423	2634	-82.1174257	33.4305	Grate Trap
SWI-5455	2638	-82.17408363	33.40586432	Grate Trap
SWI-5503	2671	-82.17113803	33.41547603	Grate Trap
SWI-5506	2672	-82.17181798	33.41606154	Grate Trap
SWI-7016	2462	-82.13884207	33.41442987	Grate Trap
SWI-7017	2463	-82.1381921	33.41330918	Grate Trap
SWI-7018	2464	-82.13809664	33.41317581	Hoodback Trap

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SWI-7023	2465	-82.13764807	33.41294611	Grate Trap
SWI-7026	2466	-82.16147261	33.42583433	Weir Trap
SWI-7027	2467	-82.13708565	33.41454019	Grate Trap
SWI-7039	2475	-82.13786619	33.4120953	Weir Trap
SWI-7048	2478	-82.13459819	33.40941875	Hoodback Trap
SWI-7049	2479	-82.13423061	33.40898067	Grate Trap
SWI-7050	2480	-82.13418478	33.40900764	Weir Trap
SWI-7051	2481	-82.13961166	33.41223305	Weir Trap
SWI-7058	2482	-82.13098468	33.40888405	Grate Trap
SWI-7061	2483	-82.13372063	33.40844697	Hoodback Trap
SWI-7072	2484	-82.13443824	33.40706614	Grate Trap
SWI-7079	2487	-82.13674553	33.40622537	Grate Trap
SWI-7091	2577	-82.11570078	33.39716286	Grate Trap
SWI-7100	2493	-82.1307042	33.41310529	Grate Trap
SWI-7121	2504	-82.12517893	33.41257528	Manhole
SWI-7136	2505	-82.1207913	33.41106317	Weir Trap
SWI-7138	2506	-82.12099447	33.41097994	Weir Trap
SWI-7139	2507	-82.12082266	33.41146166	Grate Trap
SWI-7140	2508	-82.12100953	33.41152344	Grate Trap
SWI-7141	2509	-82.12126985	33.41158754	Weir Trap
SWI-7142	2510	-82.12123287	33.41189631	Weir Trap
SWI-7143	2511	-82.12111448	33.41176285	Grate Trap
SWI-7144	2512	-82.12100181	33.41170938	Grate Trap
SWI-7145	2513	-82.12090582	33.41165753	Grate Trap
SWI-7146	2514	-82.12082733	33.41169451	Grate Trap
SWI-7147	2515	-82.121281	33.41256977	Weir Trap
SWI-7148	2517	-82.12143248	33.41249097	Weir Trap
SWI-7149	2519	-82.12098756	33.41228514	Grate Trap
SWI-7150	2521	-82.12090363	33.4122106	Weir Trap
SWI-7159	2522	-82.12015031	33.41219173	Weir Trap
SWI-7160	2523	-82.12001672	33.41208081	Weir Trap
SWI-7163	2524	-82.12033116	33.41314327	Weir Trap
SWI-7165	2525	-82.119206	33.41084268	Double-Wing
SWI-7169	2528	-82.11996757	33.41080279	Double-Wing
SWI-7175	2530	-82.13060777	33.40913163	Weir Trap
SWI-7177	2531	-82.12777802	33.4055522	Grate Trap
SWI-7178	2532	-82.12752592	33.40549579	Grate Trap
SWI-7193	2533	-82.12629613	33.40454354	Weir Trap
SWI-7199	2535	-82.12649637	33.40375591	Weir Trap
SWI-7201	2538	-82.12505167	33.40255377	Weir Trap
SWI-7202	2537	-82.12505167	33.40255377	Grate Trap
SWI-7204	2539	-82.12493954	33.40262708	Grate Trap
SWI-7206	2540	-82.12431694	33.40241968	Grate Trap
SWI-7208	2541	-82.12434457	33.40249408	Grate Trap
SWI-7209	2542	-82.12372426	33.40251266	Grate Trap
SWI-7210	2543	-82.12335514	33.40144267	Weir Trap
SWI-7218	2544	-82.15258025	33.39758891	Weir Trap
SWI-7234	2551	-82.12746971	33.40001173	Weir Trap
SWI-7238	2553	-82.12810387	33.39911997	Single-Wing
SWI-7240	2554	-82.12879286	33.39868883	Single-Wing
SWI-7242	2556	-82.12616907	33.39992963	Weir Trap
SWI-7249	2559	-82.12181137	33.39810442	Grate Trap
SWI-7261	2561	-82.11882822	33.40037599	Grate Trap
SWI-7262	2562	-82.11881448	33.40029957	Grate Trap
SWI-7263	2563	-82.1188046	33.40021548	Grate Trap
SWI-7267	2564	-82.12002605	33.40025979	Single-Wing
SWI-7268	2567	-82.11996365	33.39996017	Weir Trap
SWI-7269	2566	-82.11996365	33.39996017	Weir Trap

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SWI-7270	2568	-82.11983818	33.39986346	Weir Trap
SWI-7271	2569	-82.11971988	33.39974911	Weir Trap
SWI-7274	2570	-82.11978401	33.39967861	Weir Trap
SWI-7277	2571	-82.12028039	33.39849667	Grate Trap
SWI-7278	2572	-82.12005474	33.39859582	Grate Trap
SWI-7282	2573	-82.11973823	33.39729864	Grate Trap
SWI-7283	2574	-82.11944578	33.39699216	Grate Trap
SWI-7284	2575	-82.11925533	33.3970113	Grate Trap
SWI-7294	2581	-82.1202243	33.39649372	Weir Trap
SWI-7359	2588	-82.18174223	33.42679365	Grate Trap
SWI-7365	2589	-82.18188957	33.42521619	Outfall Structure
SWI-7370	2590	-82.18338239	33.42416729	Weir Trap
SWI-7394	2592	-82.17253779	33.42303944	Weir Trap
SWI-7400	2595	-82.17263527	33.41937505	Weir Trap
SWI-7402	2596	-82.17273368	33.41923664	Single-Wing
SWI-7420	2600	-82.17086272	33.41638963	Single-Wing
SWI-7423	2601	-82.17177996	33.41625369	Single-Wing
SWI-7424	2602	-82.17177994	33.41623181	Grate Trap
SWI-7427	2603	-82.17177396	33.41640341	Single-Wing
SWI-7429	2604	-82.17259856	33.41623557	Grate Trap
SWI-7430	2605	-82.17274218	33.41551487	Single-Wing
SWI-7432	2606	-82.17293369	33.41551401	Single-Wing
SWI-7433	2607	-82.17297375	33.41551354	Weir Trap
SWI-7437	2608	-82.17298967	33.41615917	Grate Trap
SWI-7440	2609	-82.17308061	33.41624141	Double-Wing
SWI-7442	2610	-82.17382724	33.41628933	Single-Wing
SWI-7460	2620	-82.13361293	33.42985757	Grate Trap
SWI-7462	2621	-82.13258161	33.42935334	Grate Trap
SWI-7475	2625	-82.15892936	33.41386501	Weir Trap
SWI-7478	2626	-82.14776489	33.41843785	Grate Trap
SWI-7483	2627	-82.17345568	33.42550314	Grate Trap
SWI-7485	2628	-82.17591524	33.42251541	Grate Trap
SWI-7486	2629	-82.17573067	33.42251163	Grate Trap
SWI-7488	2631	-82.17533554	33.42186588	Grate Trap
SWI-7489	2630	-82.17533554	33.42186588	Grate Trap
SWI-7490	2632	-82.15976	33.41815288	Grate Trap
SWI-7493	2635	-82.17458343	33.41567318	Grate Trap
SWI-7495	2636	-82.17863709	33.40886237	Grate Trap
SWI-7496	2637	-82.18002589	33.4088855	Grate Trap
SWI-7515	2639	-82.15404265	33.42519138	Grate Trap
SWI-7516	2640	-82.15404297	33.42507853	Grate Trap
SWI-7519	2641	-82.15406256	33.42496146	Grate Trap
SWI-7520	2642	-82.15405257	33.42482239	Grate Trap
SWI-7523	2643	-82.1538205	33.42506625	Grate Trap
SWI-7524	2644	-82.15383409	33.42491331	Grate Trap
SWI-7528	2645	-82.15490226	33.4237901	Grate Trap
SWI-7530	2646	-82.15533526	33.42378741	Grate Trap
SWI-7560	2647	-82.12747765	33.4339146	Grate Trap
SWI-7567	2648	-82.12751398	33.43420654	Weir Trap
SWI-7580	2649	-82.18983574	33.41992287	Weir Trap
SWI-7586	2650	-82.18933133	33.41247679	Weir Trap
SWI-7591	2651	-82.16794739	33.41048828	Weir Trap
SWI-7592	2652	-82.1685641	33.41063594	Grate Trap
SWI-7595	2653	-82.16733351	33.41055366	Grate Trap
SWI-7597	2654	-82.16689421	33.41055735	Grate Trap
SWI-7608	2655	-82.1674431	33.41375449	Grate Trap
SWI-7627	2656	-82.16877873	33.41402924	Grate Trap
SWI-7630	2657	-82.1693796	33.41296988	Grate Trap

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SWI-7637	2658	-82.1690104	33.41264559	Grate Trap
SWI-7638	2659	-82.1688829	33.4123488	Grate Trap
SWI-7639	2660	-82.16915884	33.41333451	Grate Trap
SWI-7640	2661	-82.16927553	33.41372015	Grate Trap
SWI-7641	2662	-82.16916268	33.41400923	Other
SWI-7659	2663	-82.15397477	33.42342108	Grate Trap
SWI-7666	2664	-82.16796166	33.41005912	Grate Trap
SWI-7669	2665	-82.17094267	33.40861298	Single-Wing
SWI-7675	2666	-82.16972254	33.40949229	Grate Trap
SWI-7676	2667	-82.17006375	33.40950337	Grate Trap
SWI-7677	2668	-82.17040509	33.40951475	Grate Trap
SWI-7679	2669	-82.17219569	33.41016355	Grate Trap
SWI-7681	2670	-82.17093162	33.41146769	Grate Trap
SWI-7682	2673	-82.13780295	33.41857091	Grate Trap
SWI-7683	2674	-82.13789823	33.41857907	Flume
SWI-7684	2675	-82.14782386	33.41675206	Grate Trap
SWI-7687	2676	-82.16482938	33.42440213	Grate Trap
SWI-7688	2677	-82.15093699	33.42589783	Circular Grate
SWI-7689	2678	-82.15170763	33.42591456	Circular Grate
SWI-7690	2679	-82.1516592	33.42591496	Circular Grate
SWI-7691	2680	-82.15171987	33.42596488	Circular Grate
SWI-7692	2681	-82.1512686	33.42596285	Circular Grate
SWI-7693	2682	-82.1512146	33.42592506	Circular Grate
SWI-7694	2683	-82.15118433	33.42480006	Curb Opening Inlet
SWI-7695	2684	-82.17687845	33.42092871	Grate Trap
SWI-7696	2685	-82.27550919	33.3558878	Curb Inlet
SWI-7697	2686	-82.27528076	33.35578933	Curb Inlet
SWI-7698	2687	-82.27559284	33.35570218	Curb Inlet
SWI-7699	2688	-82.27569478	33.35585594	Curb Inlet
SWI-7700	2689	-82.27572597	33.35585497	Drop Inlet
SWI-7701	2690	-82.27523005	33.35575819	Drop Inlet
SWI-7702	2691	-82.1404435	33.4141646	Grate Trap
SWI-7703	2692	-82.14051501	33.4140516	Grate Trap
SWI-7704	2693	-82.14055777	33.41398531	Grate Trap
SWI-7705	2694	-82.1407181	33.41299599	Grate Trap
SWI-7706	2695	-82.17971823	33.42263376	Drop Inlet
SWI-7707	2696	-82.12384704	33.4304132	Curb Inlet
SWI-7708	2697	-82.12514475	33.43030522	Grate Trap
SWI-7709	2698	-82.12491013	33.43054847	French Drain
SWI-7710	2699	-82.12471793	33.43054911	French Drain
SWI-7712	2700	-82.12988906	33.41479367	Drop Inlet
SWI-7713	2701	-82.13816091	33.41216436	Drop Inlet
SWI-7714	2702	-82.13474989	33.3993969	Drop Inlet
SWI-7715	2703	-82.12022585	33.42246962	Weir Trap
SWI-7716	2704	-82.1346384	33.40644399	Weir Trap
SWI-7717	2705	-82.12035554	33.41271594	Weir Trap
SWI-7718	2706	-82.15691879	33.41153493	Weir Trap
SWI-7719	2707	-82.11941821	33.41005783	Weir Trap
SWI-7720	2708	-82.15489531	33.39820027	Weir Trap
SWI-7721	2709	-82.12523617	33.41254452	Weir Trap
SWI-7722	2710	-82.13579058	33.40726577	Weir Trap
SWI-7723	2711	-82.13720612	33.407663	Weir Trap
SWI-7725	2712	-82.15216007	33.42841118	Weir Trap
SWI-7726	2713	-82.11743161	33.40174961	Weir Trap
SWI-7727	2714	-82.14157378	33.41838881	Weir Trap
SWI-7728	2715	-82.12737199	33.43486493	Grate Inlet
SWI-7729	2716	-82.15415133	33.41963079	Catch Basin Inlet
SWI-7730	2717	-82.15214511	33.42852394	Weir Trap

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SWI-7731	2718	-82.13635471	33.41675826	Weir Trap
SWI-7732	2719	-82.13521901	33.39838826	Drop Inlet
SWI-7733	2720	-82.13309809	33.40901004	Double Curb/Grate Inlet
SWI-7734	2721	-82.13305837	33.40904057	Curb/Grate Inlet
SWI-7735	2722	-82.13321707	33.40921333	Double Curb/Grate Inlet
SWI-7736	2723	-82.13329513	33.40922685	Double Curb/Grate Inlet
SWI-7737	2724	-82.13249087	33.40940126	Double Curb/Grate Inlet
SWI-7738	2725	-82.13260389	33.40952459	Double Curb/Grate Inlet
SWI-7739	2726	-82.13315553	33.4092521	Double Curb/Grate Inlet
SWI-7740	2727	-82.13352068	33.40930921	Curb/Grate Inlet
SWI-7741	2728	-82.13318912	33.40952155	Curb/Grate Inlet
SWI-7742	2729	-82.1329403	33.40967861	Grate Trap
SWI-7743	2730	-82.13287096	33.40973869	Grate Trap
SWI-7744	2731	-82.13374271	33.41046412	Grate Trap
SWI-7745	2732	-82.13394552	33.41033336	Grate Trap
SWI-7746	2733	-82.13387543	33.41025339	Grate Trap
SWI-7747	2734	-82.13409792	33.41023619	Grate Trap
SWI-7748	2735	-82.13402868	33.41015463	Grate Trap
SWI-7749	2736	-82.1342932	33.41011181	Grate Trap
SWI-7750	2737	-82.13366556	33.40922758	Grate Trap
SWI-7751	2738	-82.13262907	33.40959478	Drop Inlet
SWI-7752	2739	-82.13418569	33.41004719	Grate Trap
SWI-7753	2740	-82.13406573	33.40992466	Grate Trap
SWI-7754	2741	-82.13400275	33.40996039	Grate Trap
SWI-7755	2742	-82.13389276	33.40972564	Grate Trap
SWI-7756	2743	-82.1335846	33.40992308	Grate Trap
SWI-7757	2744	-82.13382576	33.40976858	Grate Trap
SWI-7758	2745	-82.13374886	33.41011556	Grate Trap
SWI-7759	2746	-82.13381428	33.41008287	Grate Trap
SWI-7760	2747	-82.13398988	33.40984366	Grate Trap
SWI-7761	2748	-82.13365196	33.40988003	Grate Trap
SWI-7762	2749	-82.13483245	33.40885599	Grate Trap
SWI-7763	2750	-82.1349481	33.40898174	Grate Trap
SWI-7764	2751	-82.13503536	33.40907973	Grate Trap
SWI-7765	2752	-82.13527892	33.40917193	Grate Trap
SWI-7766	2753	-82.13431466	33.40829554	Grate Trap
SWI-7767	2754	-82.13420343	33.40816365	Grate Trap
SWI-7768	2755	-82.13406373	33.40802614	Grate Trap
SWI-7769	2756	-82.13395476	33.4078894	Grate Trap
SWI-7770	2757	-82.13386013	33.40777097	Grate Trap
SWI-7771	2758	-82.13425437	33.40949077	tbd
SWI-7772	2759	-82.13988724	33.42179196	Grate Trap
SWI-7773	2760	-82.14053149	33.42180174	Grate Trap
SWI-7774	2761	-82.14117769	33.42181149	Grate Trap
SWI-7775	2762	-82.14126545	33.42185939	Grate Trap
SWI-7776	2763	-82.13875668	33.4219169	Curb Inlet
SWI-7777	2764	-82.1382731	33.4180873	Curb/Grate Inlet
SWI-7778	2765	-82.13827334	33.41812602	Curb/Grate Inlet
SWI-7779	2766	-82.13813728	33.4181247	Curb/Grate Inlet
SWI-7780	2768	-82.14041787	33.4102049	Drop Inlet
SWI-7781	2769	-82.14078063	33.4098244	Drop Inlet
SWI-7782	2770	-82.1405784	33.40859851	Drop Inlet
SWI-7783	2771	-82.14085432	33.40874232	Drop Inlet
SWI-7784	2772	-82.14140569	33.40838906	Drop Inlet
SWI-7785	2773	-82.13874101	33.41821197	Curb/Grate Inlet
SWI-7786	2774	-82.12841276	33.43043684	Grate Inlet
SWI-7787	2775	-82.12841373	33.43052944	Grate Inlet
SWI-7788	2776	-82.12862869	33.4307027	Drop Inlet

2025 Fort Gordon Inlet Inventory

SWI-7789	2777	-82.12873965	33.43090184	Inlet Control Structure
SWI-7790	2778	-82.10725243	33.42199123	Drop Inlet
SWI-7791	2779	-82.10701827	33.42202427	Drop Inlet
SWI-7792	2780	-82.10660279	33.42210953	Drop Inlet
SWI-7793	2781	-82.10685871	33.42192746	Drop Inlet
SWI-7794	2782	-82.10637726	33.42218578	Drop Inlet
SWI-7795	2783	-82.10596365	33.42226237	Drop Inlet
SWI-7796	2784	-82.10591219	33.42214598	Drop Inlet
SWI-7797	2785	-82.17785375	33.41785335	Inlet Control Structure
SWI-7798	2786	-82.17760013	33.41862778	Grate Inlet
SWI-7799	2787	-82.17732865	33.41862775	Grate Inlet
SWI-7800	2788	-82.17705594	33.41862825	Grate Inlet
SWI-7801	2789	-82.17678446	33.41862795	Grate Inlet
SWI-7802	2790	-82.17669199	33.41781109	Curb Inlet
SWI-7803	2791	-82.17648921	33.41788807	Curb Inlet
SWI-7804	2792	-82.17639386	33.41788734	Curb Inlet
SWI-7805	2793	-82.1764666	33.41885941	Curb Inlet
SWI-7806	2794	-82.17637663	33.41885922	Curb Inlet
SWI-7807	2795	-82.17785823	33.41885978	Inlet Control Structure
SWI-7808	2796	-82.11389674	33.42894079	Drop Inlet
SWI-7809	2797	-82.11349835	33.42900725	Drop Inlet
SWI-7810	2798	-82.11310208	33.42904078	Drop Inlet
SWI-7811	2799	-82.11349565	33.4288065	Drop Inlet
SWI-7812	2800	-82.19548348	33.41899781	Curb Inlet
SWI-7813	2801	-82.19528597	33.41904041	Curb Inlet
SWI-7814	2802	-82.19554301	33.41877007	Curb Inlet
SWI-7815	2803	-82.19560533	33.41855303	Curb Inlet
SWI-7816	2804	-82.19568559	33.41826109	Curb Inlet
SWI-7817	2805	-82.19556569	33.41802464	Curb Inlet
SWI-7818	2806	-82.19542247	33.41779117	Curb Inlet
SWI-7819	2807	-82.19507098	33.41870298	Curb Inlet
SWI-7820	2808	-82.19501337	33.41827171	Curb Inlet
SWI-7821	2809	-82.19469555	33.41821869	Curb Inlet
SWI-7822	2810	-82.19483232	33.41788729	Curb Inlet
SWI-7823	2811	-82.19453688	33.41800864	Curb Inlet
SWI-7824	2812	-82.19377369	33.41810386	Curb Inlet
SWI-7825	2813	-82.19362026	33.41807528	Curb Inlet
SWI-7826	2814	-82.19347703	33.41833795	Curb Inlet
SWI-7827	2815	-82.19428696	33.41785269	Curb Inlet
SWI-7828	2816	-82.19437338	33.41779224	Curb Inlet
SWI-7829	2817	-82.19406963	33.41771297	Curb Inlet
SWI-7830	2818	-82.19416793	33.41749795	Curb Inlet
SWI-7831	2819	-82.19412591	33.41749655	Curb Inlet
SWI-7832	2820	-82.19396607	33.41754416	Curb Inlet
SWI-7833	2821	-82.19363092	33.41784636	Curb Inlet
SWI-7834	2822	-82.19334217	33.4173677	Curb Inlet
SWI-7835	2823	-82.19393685	33.41737643	Curb Inlet
SWI-7836	2824	-82.19398715	33.4171953	Curb Inlet
SWI-7837	2825	-82.19516681	33.41737001	Curb Inlet
SWI-7838	2826	-82.19467141	33.41753194	Curb Inlet
SWI-7839	2827	-82.19490339	33.41693266	Curb Inlet
SWI-7840	2828	-82.19444764	33.41715835	Curb Inlet
SWI-7841	2829	-82.19420881	33.41675447	Curb Inlet
SWI-7842	2830	-82.1946866	33.4165591	Curb Inlet
SWI-7843	2831	-82.1945283	33.4166271	Curb Inlet
SWI-7844	2832	-82.19430581	33.41603498	Curb Inlet
SWI-7845	2833	-82.19391811	33.4162659	Curb Inlet
SWI-7846	2834	-82.19354997	33.41646483	Curb Inlet

2025 Fort Gordon Inlet Inventory

SWI-7847	2835	-82.19349668	33.41644916	Curb Inlet
SWI-7848	2836	-82.19313216	33.41666077	Curb Inlet
SWI-7849	2837	-82.19293855	33.41691988	Curb Inlet
SWI-7850	2838	-82.19303294	33.41691609	Curb Inlet
SWI-7851	2839	-82.1930195	33.41704224	Curb Inlet
SWI-7852	2840	-82.19321636	33.41722244	Curb Inlet
SWI-7853	2841	-82.19331324	33.41724983	Curb Inlet
SWI-7854	2842	-82.19350874	33.41728033	Curb Inlet
SWI-7855	2843	-82.19370006	33.41720622	Curb Inlet
SWI-7856	2844	-82.19374362	33.41706533	Curb Inlet
SWI-7857	2845	-82.19382069	33.41691689	Curb Inlet
SWI-7858	2846	-82.19362965	33.41578604	Curb Inlet
SWI-7859	2847	-82.19319676	33.4158715	Curb Inlet
SWI-7860	2848	-82.19316826	33.41614998	Curb Inlet
SWI-7861	2849	-82.19337295	33.41541615	Curb Inlet
SWI-7862	2850	-82.19303845	33.41555522	Curb Inlet
SWI-7863	2851	-82.19300317	33.41554573	Curb Inlet
SWI-7864	2852	-82.19287554	33.41528624	Curb Inlet
SWI-7865	2853	-82.19289308	33.41525833	Curb Inlet
SWI-7866	2854	-82.19316431	33.41515282	Curb Inlet
SWI-7867	2855	-82.19247788	33.41448537	Curb Inlet
SWI-7868	2856	-82.19250733	33.41447122	Curb Inlet
SWI-7869	2857	-82.19261117	33.41445345	Curb Inlet
SWI-7870	2858	-82.19196909	33.41442957	Curb Inlet
SWI-7871	2859	-82.19136152	33.41327692	Curb Inlet
SWI-7872	2860	-82.18654399	33.41174416	Curb Inlet
SWI-7873	2861	-82.18637532	33.41173982	Curb Inlet
SWI-7874	2862	-82.18620665	33.41173549	Curb Inlet
SWI-7875	2863	-82.18655072	33.41148639	Curb Inlet
SWI-7876	2864	-82.18638126	33.4114814	Curb Inlet
SWI-7877	2865	-82.18621261	33.41147839	Curb Inlet
SWI-7878	2866	-82.18591546	33.41147066	Curb Inlet
SWI-7879	2867	-82.17876437	33.4102718	Curb Inlet
SWI-7880	2868	-82.17817803	33.41076803	Curb Inlet
SWI-7883	2869	-82.15222173	33.41591967	Curb Inlet
SWI-7884	2870	-82.15627322	33.41824734	Grate Inlet
SWI-7885	2871	-82.15656203	33.41792545	Grate Inlet
SWI-7886	2872	-82.15636194	33.41862458	Grate Inlet
SWI-7887	2873	-82.15715393	33.41864049	Grate Inlet
SWI-7888	2874	-82.13866459	33.42133199	Grate Inlet
SWI-7889	2878	-82.19303072	33.41659798	Curb Inlet
SWI-7890	2879	-82.13184631	33.42631859	Grate Inlet
SWI-7891	2880	-82.17719123	33.41879	Inlet Sediment Trap
SWI-7892	2881	-82.17679844	33.41878996	Inlet Sediment Trap
SWI-7893	2882	-82.17757982	33.41879075	Inlet Sediment Trap
SWI-7894	2883	-82.14594222	33.42696153	Grate Inlet
SWI-7895	2884	-82.14593638	33.4271508	Grate Inlet
SWI-7896	2885	-82.14592966	33.42734318	Grate Inlet
SWI-7897	2886	-82.14591685	33.42756508	Grate Inlet
SWI-7898	2887	-82.14602946	33.42757601	Grate Inlet
SWI-7899	2888	-82.14604309	33.42735206	Grate Inlet
SWI-7901	2889	-82.14604939	33.42716449	Grate Inlet
SWI-7902	2890	-82.14586918	33.42790058	Grate Inlet
SWI-7903	2891	-82.14578812	33.4279386	Grate Inlet
SWI-7904	2892	-82.14534327	33.42799345	Grate Inlet
SWI-7905	2893	-82.14504119	33.42810119	Grate Inlet
SWI-7906	2894	-82.14482561	33.42817822	Grate Inlet
SWI-7907	2895	-82.14538408	33.42802886	Grate Inlet

2025 Fort Gordon Inlet Inventory

SWI-7908	2896	-82.14455602	33.42830348	Grate Inlet
SWI-7909	2897	-82.14436614	33.42833532	Grate Inlet
SWI-7910	2898	-82.14419653	33.42832897	Grate Inlet
SWI-7911	2899	-82.14420916	33.42817714	Grate Inlet
SWI-7912	2900	-82.14483943	33.42820527	Grate Inlet
SWI-7913	2901	-82.14431146	33.42838124	Grate Inlet
SWI-7914	2902	-82.14521583	33.42722734	Grate Inlet
SWI-7915	2903	-82.15107358	33.42204641	Grate Inlet
SWI-7916	2904	-82.13901469	33.4171323	Grate Inlet
SWI-7917	2905	-82.17844706	33.41659114	Curb Inlet
SWI-7918	2906	-82.17879793	33.41651036	Curb Inlet
SWI-7919	2907	-82.17864311	33.41637916	Curb Inlet
SWI-7920	2908	-82.17835659	33.41582779	Curb Inlet
SWI-7921	2909	-82.17817857	33.4158061	Curb Inlet
SWI-7922	2910	-82.17835229	33.41512207	Curb Inlet
SWI-7923	2911	-82.17823204	33.41512029	Curb Inlet
SWI-7924	2912	-82.17836301	33.41411889	Curb Inlet
SWI-7925	2913	-82.17826219	33.41376663	Curb Inlet
SWI-7926	2914	-82.17835838	33.41376747	Curb Inlet
SWI-7927	2915	-82.17827082	33.41294684	Curb Inlet
SWI-7928	2916	-82.17829361	33.41225078	Curb Inlet
SWI-7929	2917	-82.17841078	33.41224845	Curb Inlet
SWI-7930	2918	-82.13597986	33.38264858	Grate Inlet
SWI-7931	2919	-82.13581661	33.38281828	Grate Inlet
SWI-7932	2920	-82.13564757	33.38299212	Grate Inlet
SWI-7933	2921	-82.13591365	33.38317014	Grate Inlet
SWI-7934	2922	-82.13617105	33.38335395	Grate Inlet
SWI-7935	2923	-82.13633808	33.38317523	Grate Inlet
SWI-7936	2924	-82.13650326	33.38300388	Grate Inlet
SWI-7937	2925	-82.13624109	33.38282746	Grate Inlet
SWI-7938	2926	-82.17456727	33.41461539	Grate Inlet
SWI-7939	2927	-82.17442053	33.41480053	Grate Inlet
SWI-7940	2928	-82.15293419	33.41614198	Grate Inlet
SWI-7941	2929	-82.15466203	33.41463152	Grate Inlet
SWI-7942	2930	-82.15453277	33.41472304	Grate Inlet
SWI-7943	2931	-82.15434119	33.41511386	Grate Inlet
SWI-7944	2932	-82.1542085	33.41557187	Grate Inlet
SWI-7945	2933	-82.12666766	33.41415082	Curb Inlet
SWI-7946	2934	-82.13387573	33.40751551	Curb Inlet
SWI-7947	2935	-82.13319648	33.42455078	Drop Inlet
SWI-7948	2936	-82.13546442	33.42484	Grate Inlet
SWI-7949	2937	-82.13802425	33.41259663	Grate Inlet
SWI-7950	2938	-82.13782652	33.41204228	Curb Inlet
SWI-7951	2939	-82.12668037	33.40536503	Grate Inlet
SWI-7952	2940	-82.12683175	33.40538347	Grate Inlet
SWI-7953	2941	-82.1680371	33.42578868	Curb Inlet
SWI-7954	2942	-82.16935437	33.41636809	Curb Inlet
SWI-7955	2943	-82.16935028	33.416271	Curb Inlet
SWI-7956	2944	-82.16819084	33.41631144	Curb Inlet
SWI-7957	2945	-82.16696904	33.41652069	Curb Inlet
SWI-7958	2946	-82.1663061	33.41662929	Curb Inlet
SWI-7959	2947	-82.16599265	33.41667144	Curb Inlet
SWI-7960	2948	-82.16596504	33.41658222	Curb Inlet
SWI-7961	2949	-82.16527233	33.41677436	Curb Inlet
SWI-7962	2950	-82.16526756	33.41667345	Curb Inlet
SWI-7963	2951	-82.16430342	33.41678179	Curb Inlet
SWI-7964	2952	-82.16431911	33.41667804	Curb Inlet
SWI-7965	2953	-82.16353625	33.41666747	Curb Inlet

2025 Fort Gordon Inlet Inventory

SWI-7966	2954	-82.16313169	33.41656876	Curb Inlet
SWI-7967	2955	-82.16284797	33.41640098	Curb Inlet
SWI-7968	2956	-82.16687172	33.41644062	Curb Inlet
SWI-7969	2957	-82.16433714	33.41655585	Curb Inlet
SWI-7970	2958	-82.16388043	33.41648121	Curb Inlet
SWI-7971	2959	-82.16358784	33.41655217	Curb Inlet
SWI-7972	2960	-82.16218275	33.41634017	Curb Inlet
SWI-7973	2961	-82.16803065	33.41641125	Grate Inlet
SWI-7974	2962	-82.17254194	33.41468415	Curb Inlet
SWI-7975	2963	-82.17254169	33.41466541	Grate Inlet
SWI-7976	2964	-82.1713693	33.41466851	Curb Inlet
SWI-7977	2965	-82.17137054	33.4146541	Curb Inlet
SWI-7978	2966	-82.17135715	33.41429622	Curb Inlet
SWI-7979	2967	-82.17264842	33.41396602	Curb Inlet
SWI-7980	2968	-82.17263175	33.41396487	Curb Inlet
SWI-7981	2969	-82.17264141	33.4142962	Curb Inlet
SWI-7982	2970	-82.17262318	33.41429594	Curb Inlet
SWI-7983	2971	-82.16805463	33.42569074	Curb Inlet
SWI-7984	2972	-82.16307379	33.42306043	Curb Inlet
SWI-7985	2973	-82.16331938	33.42323587	Grate Inlet
SWI-7986	2974	-82.12278991	33.40143427	Grate Inlet
SWI-7987	2975	-82.15471173	33.41833675	Grate Inlet
SWI-7988	2976	-82.153107	33.42210247	Grate Inlet
SWI-7989	2977	-82.13089641	33.41249308	Grate Inlet
SWI-7990	2978	-82.18019817	33.43067614	Grate Inlet
SWI-7991	2979	-82.12278991	33.40143427	Grate Inlet
SWI-7992	2980	-82.154318	33.42069803	Grate Inlet
SWI-7993	2981	-82.15679701	33.41626149	Grate Inlet
SWI-7994	2982	-82.15473147	33.42461883	Grate Inlet
SWI-7995	2983	-82.13682877	33.41821712	Grate Inlet
SWI-7996	2984	-82.17105637	33.41608571	Grate Inlet
SWI-7997	2985	-82.11991958	33.39607311	Curb Inlet
SWI-7998	2986	-82.17824936	33.40998676	Grate Inlet
SWI-7999	2987	-82.18190424	33.42587646	Grate Inlet
SWI-8000	2988	-82.17199469	33.40420745	Drop Inlet
SWI-8001	2989	-82.15597026	33.41727072	Grate Inlet
SWI-8002	2990	-82.15508071	33.41711111	Drop Inlet
SWI-8003	2991	-82.14408875	33.42778233	Grate Strip
SWI-8004	2992	-82.14432699	33.42791774	Grate Inlet
SWI-8005	2993	-82.14766478	33.42696608	Grate Inlet
SWI-8006	2994	-82.14727592	33.42695697	Grate Inlet
SWI-8007	2995	-82.11787109	33.40262111	Drop Inlet
SWI-8008	2996	-82.14014672	33.40842047	Drop Inlet
SWI-8009	2997	-82.16636709	33.42208474	Drop Inlet
SWI-8010	2998	-82.12802286	33.40528638	Grate Inlet
SWI-8011	2999	-82.14493007	33.41791944	Grate Inlet
SWI-8012	3000	-82.13833251	33.42142281	Grate Inlet
SWI-8013	3001	-82.12748086	33.41427119	Grate Inlet
SWI-8014	3002	-82.1273906	33.41416321	Grate Inlet
SWI-8015	3003	-82.1272307	33.41409834	Grate Inlet
SWI-8016	3004	-82.1618924	33.42389272	Grate Inlet
SWI-8017	3005	-82.16206326	33.42389334	Grate Inlet
SWI-8018	3006	-82.16224576	33.42350283	Grate Inlet
SWI-8019	3007	-82.16254362	33.42368726	Grate Inlet
SWI-8020	3008	-82.1625487	33.42354474	Grate Inlet
SWI-8021	3009	-82.16237582	33.42350594	Grate Inlet
SWI-8022	3010	-82.16279172	33.42359796	Grate Inlet
SWI-8023	3011	-82.16201322	33.42409551	Grate Inlet

2025 Fort Gordon Inlet Inventory

SWI-8024	3012	-82.14966836	33.42268681	Grate Inlet

Total Catch Basins: 3012

Fort Gordon Detention and Retention Inventory

Structure ID	GEOS ID	X	Y	Feature Type
SWSC-01	1	-82.17295927	33.42755277	BMP
SWSC-02	2	-82.17339888	33.41994733	BMP
SWSC-03	3	-82.17687521	33.42184823	BMP
SWSC-05	5	-82.16421187	33.42260875	BMP
SWSC-07	13	-82.13907917	33.41792057	BMP
SWSC-08	14	-82.13352199	33.41897832	BMP
SWSC-09	27	-82.12560782	33.40527506	BMP
SWSC-10	26	-82.12737354	33.40699119	BMP
SWSC-11	4	-82.17895494	33.41086839	BMP
SWSC-12	28	-82.13456168	33.40101974	BMP
SWSC-13	25	-82.11253181	33.4267992	BMP
SWSC-15	24	-82.12633981	33.42768278	BMP
SWSC-17	6	-82.1624098	33.41900947	BMP
SWSC-18	8	-82.16366756	33.41251153	BMP
SWSC-19	9	-82.16153636	33.41071499	BMP
SWSC-20	12	-82.16405488	33.40714799	BMP
SWSC-21	11	-82.16684419	33.40585351	BMP
SWSC-23	7	-82.16693923	33.41408212	BMP
SWSC-24	10	-82.16880043	33.40825188	BMP
SWSC-26A	49	-82.12776508	33.4204239	BMP
SWSC-26B	15	-82.12748631	33.41968029	BMP
SWSC-27A	16	-82.12487398	33.42226715	BMP
SWSC-27B	17	-82.12412822	33.42209911	BMP
SWSC-27C	18	-82.1255145	33.42230231	BMP
SWSC-27D	19	-82.12649072	33.42208175	BMP
SWSC-28	20	-82.12291793	33.42118134	BMP
SWSC-29	21	-82.12026455	33.42044238	BMP
SWSC-30	22	-82.12050199	33.4185144	BMP
SWSC-30A	23	-82.12335145	33.4171861	BMP
SWSC-31	36	-82.13168419	33.4287828	BMP
SWSC-32	29	-82.14756979	33.41380984	BMP
SWSC-33	35	-82.13041022	33.42545037	BMP
SWSC-34	33	-82.12906281	33.42971782	BMP
SWSC-35	32	-82.1731639	33.41450798	BMP
SWSC-36	30	-82.13594957	33.42988497	BMP
SWSC-37	34	-82.17054229	33.41386497	BMP
SWSC-38	31	-82.1247145	33.40186581	BMP
SWSC-39A	37	-82.15489442	33.37437007	BMP
SWSC-39B	40	-82.15406428	33.37434282	BMP
SWSC-39C	39	-82.15349221	33.3740544	BMP
SWSC-39D	38	-82.15411366	33.37386112	BMP
SWSC-40	41	-82.24219249	33.36825477	BMP
SWSC-41	46	-82.12675049	33.43273493	BMP
SWSC-42	45	-82.13099899	33.42741178	BMP
SWSC-43	44	-82.13102297	33.42723314	BMP
SWSC-44A	42	-82.17078263	33.41709553	BMP
SWSC-44B	43	-82.17213073	33.41759646	BMP
SWSC-46	47	-82.16900479	33.40997079	BMP
SWSC-48	48	-82.13590138	33.42312797	BMP
SWSC-49	50	-82.15560885	33.37381083	BMP
SWSC-50	51	-82.156826	33.417834	Stormwater Detention Pond
SWSC-51	52	-82.17777226	33.41734627	StormWater Pond - 12400
SWSC-52	53	-82.17712623	33.41781211	Stormwater Pond - 12400
SWSC-53	54	-82.17721533	33.41887168	StormWater Pond - 12400
SWSC-55	55	-82.13209545	33.42554311	Storm Water Detention Pond
SWSC-56	56	-82.15649086	33.42201655	Storm Water Detention Pond
SWSC-58	57	-82.15086978	33.4220369	Storm Water Detention Pond

Fort Gordon Detention and Retention Inventory

SWSC-60	58	-82.17872859	33.41254327	Storm Water Detention Pond
SWSC-62	59	-82.14571917	33.41570256	Storm Water Detention Pond
SWSC-63	60	-82.19518997	33.41924875	Storm Water Pond - Gate 6
SWSC-64	61	-82.19416775	33.41815892	Storm Water Pond - Gate 6
SWSC-65	62	-82.19447208	33.41685785	Storm Water Pond - Gate 6
SWSC-66	63	-82.19366537	33.41697912	Storm Water Pond - Gate 6
SWSC-67	64	-82.1932759	33.41702986	Storm Water Pond - Gate 6
SWSC-68	65	-82.19278288	33.41567885	Storm Water Pond - Gate 6
SWSC-69	66	-82.16657901	33.43494508	StormWater Retaining Pond - 19900
SWSC-70	67	-82.1392411	33.42185993	BMP
SWSC-72	68	-82.18211492	33.42525352	Storm Water Detention Pond
SWSC-73	69	-82.18005558	33.41464391	Wet Detention Pond
SWSC-74	70	-82.13653797	33.38810494	Storm Water Retention/DetentionPonds
SWSC-75	71	-82.13714603	33.38495617	Storm Water Retention/DetentionPonds
SWSC-76	72	-82.13663017	33.38413218	Storm Water Retention/DetentionPonds
SWSC-77	73	-82.13368437	33.38307023	Storm Water Retention/DetentionPonds
SWSC-78	74	-82.13089201	33.38356953	Storm Water Retention/DetentionPonds
SWSC-79	75	-82.12913828	33.38487831	Storm Water Retention/DetentionPonds
SWSC-80	76	-82.1287263	33.38683402	Storm Water Retention/DetentionPonds
SWSC-81	77	-82.12687558	33.38790979	Storm Water Retention/DetentionPonds
SWSC-82	78	-82.13176196	33.38926984	Storm Water Retention/DetentionPonds
SWSC-83	79	-82.13567732	33.38268558	Storm Water Retention/DetentionPonds
SWSC-84	80	-82.12320849	33.38748614	Storm Water Retention/DetentionPonds
SWSC-85	81	-82.12654404	33.38526511	Storm Water Retention/DetentionPonds
SWSC-86	82	-82.13098703	33.42864256	Bioretention LID
			Total:	**82**

Feature ID	Feature Type
13407 Motorpool	Municiple
13700 Motorpool	Municiple
81208 Motorpool	Municiple
81324 Motorpool	Municiple
2432 706th MI Storage	Municiple
25910 Generators/Towers	Municiple
AAFES Gas Station Gate 1	Municiple
AAFES Gas Station Gate 5	Municiple
AAFES Vehicle Wash Facility	Municiple
8215 (ASP)	Municipal
Augusta Utilities Irigation Tank yard	Municipal
205 Augusta Utilities Laydown Yard	Municipal
Beams' lay down by AUD	Municipal
Beams' Laydown Yard	Municipal
MWR Boundless Playground and Dog Park	Municipal
310	Municipal
35402 Burger King	Municipal
36200 Chinese Restaurant	Municipal
2410 Storage Yard	Municipal
37200 Commissary Loading Dock	Municipal
Composting Operations Roads and Grounds	Municipal
972 DLA storage yard	Municipal
25722 Domino's Pizza	Municipal
1000 FEDEX	Municipal
Fire Service Training Area	Municipal
Fire station 1	Municipal
Fire station 2	Municipal
520 Game Warden Office	Municipal
403 NRB	Municipal
479 Range Maintenance	Municipal
29300 Auto Maintenance	Municipal
533 Golf Course Maintenance Area	Municipal
61301 GOV Fuel Point	Municipal
10604 Hazardous Materials Control Center	Municipal
Housing Recycle Point Wainwright Circle	Municipal
Indoor Swimming pool	Municipal
PWRA	Municipal
36708 Outdoor pool	Municipal
38200 PX loading area	Municipal
QPS laydown yard	Municipal
25303 Roads and Grounds equipment storage area	Municipal
445 TASC	Municipal
Total	**42**

APPENDIX H

Pollution Prevention/Good Housekeeping – MS4 Inspection, Maintenance Forms, Street Sweeping, Waste Disposal, Existing Flood Management Project Tracking Forms, and Municipal Facility Inspection Form

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: Inspection Type:
BMP Type: Pipe **MS4 Feature:**
Coordinate X: Coordinate Y:

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Structural: Rate Structural Condition of Feature and Surrounding Area (i.e., signs of cracking, spalling, and/or bulging of the concrete; settling above the pipe; presence of mollusks).		
Vegetative: Rate Vegetative Condition of Feature (clogging, erosion, overgrown, intruding roots). Inspect for invasive species. Inspect grass buffer for ditches.		
Function: Rate Function of feature. Inspect for Sediment/Debris Accumulation (standing water/not draining, trash or other debris). Inspect for burrowing animals/pests. Inspect for public hazards. Inspect inflow/outflow points and grade control in ditches.		

Additional Comments:

Photos:

Finding	Lat/Long	Photo

Inspector: Signature

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: Inspection Type:
BMP Type: SDO **MS4 Feature:**
Coordinate X: Coordinate Y:

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Flow from outfall		
Weather Conditions		
Date of Last Rain		
Amount of Last Rain		
Outfall Location		
Outfall Type/Material - Pipe		
Outfall Type/Material - Channel		
Outfall Diameter/Dimensions		
Receiving Stream and Watershed Name		
Land use/industries in drainage area		
Odor		
Severity of Odor		
Color		
Severity of Color		
Turbidity		
Severity of Turbidity		
Floatables		
Severity of Floatables		
Field Test Kit Manuacturer/Model		
Flow Temperature (F)		

Flouride (mg/L)		
Flow pH		
Flow Conductivity (umho/cm)		
Outfall Potential for illicit Discharge		

Additional Comments:

Lab Analysis:

Records	
Question	**Answer**
Certified Laboratory:	
Fecal Coliform Grab Sample ID:	
Fecal Coliform(MPN/100ml):	
Surfactants Grab Sample ID:	
Surfactants:	

Photos:

Finding	Lat/Long	Photo

Inspector:

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: Inspection Type:
BMP Type: Node **MS4 Feature:**
Coordinate X: Coordinate Y:

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Structural: Rate Structural Condition of Feature and Surrounding Area (i.e., signs of cracking, spalling, and/or bulging of the concrete; settling above the pipe; presence of mollusks).		
Vegetative: Rate Vegetative Condition of Feature (clogging, erosion, overgrown, intruding roots). Inspect for invasive species. Inspect grass buffer for ditches.		
Function: Rate Function of feature. Inspect for Sediment/Debris Accumulation (standing water/not draining, trash or other debris). Inspect for burrowing animals/pests. Inspect for public hazards. Inspect inflow/outflow points and grade control in ditches.		

Additional Comments:

Photos:

Finding	Lat/Long	Photo

Inspector: Signature

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: Inspection Type:
BMP Type: Municipal Facility **MS4 Feature:**
Coordinate X: Coordinate Y:

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Type of Inspection		
Collection containers for trash provided.		
Collection Containers for trash in good condition and lids intact.		
Proper storage of materials to minimize exposure.		
Irrigation system in good condition and no excessive run-off.		
Storm drains and inlets clear of debris.		
Bare areas protected from erosion.		
Pet waste collection bags provided at dog park.		
No build-up or oil and grease in parking lots and storage areas.		
Other		

Additional Comments:

Photos:

Finding	**Lat/Long**	**Photo**

Inspector:

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: Inspection Type:
BMP Type: LID **MS4 Feature:**
Coordinate X: Coordinate Y:

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Structure seems to be working properly. No signs of settling, leaking,or cracking. Comment on overall condition of structure.		
Access to the site is adequately maintained for inspection and maintenance.		
Area is clean (trash, debris, grass clippings, etc. removed).		
Water is going through structure (i.e. no evidence of water going around the structure).		
Inlet and outlet pipes are clean; stormwater can enter and exit the practice without being blocked.		
Overflow structure is in good condition and clean.		
Maintenance is being performed according to the maintenance plan		
Overall condition of Proprietary System		

Additional Comments:

Photos:

Finding	Lat/Long	Photo

Inspector:

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: Inspection Type:
BMP Type: Inlet **MS4 Feature:**
Coordinate X: Coordinate Y:

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Structural: Rate Structural Condition of Feature and Surrounding Area (i.e., signs of cracking, spalling, and/or bulging of the concrete; settling above the pipe; presence of mollusks).		
Vegetative: Rate Vegetative Condition of Feature (clogging, erosion, overgrown, intruding roots). Inspect for invasive species. Inspect grass buffer for ditches.		
Function: Rate Function of feature. Inspect for Sediment/Debris Accumulation (standing water/not draining, trash or other debris). Inspect for burrowing animals/pests. Inspect for public hazards. Inspect inflow/outflow points and grade control in ditches.		

Additional Comments:

Photos:

Finding	Lat/Long	Photo

Inspector: Signature

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: **Inspection Type:**
BMP Type: Downspouts Disconnect **MS4 Feature:**
Coordinate X: **Coordinate Y:**

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Overall condition of Downspout Disconnect		
Access to the site is adequately maintained for inspection and maintenance		
Downspouts are properly fastened to convey water from the roof.		
Downspouts are free of trash, debris, and sediment and conveying water properly.		
No evidence of leaks at joint or other components of downspouts.		
Splash pads are present on site to prevent erosion on pervious area below downspout disconnects.		
Area is clean (trash, debris, grass clippings, etc. removed).		
Vegetation is in place and is healthy. No bare or dying areas.		
Unwanted vegetation is trimmed and removed.		
No evidence of erosion, scour, or flooding.		

Additional Comments:

Photos:

Finding	Lat/Long	Photo

Inspector:

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: Inspection Type:
BMP Type: Ditch **MS4 Feature:**
Coordinate X: Coordinate Y:

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Structural: Rate Structural Condition of Feature and Surrounding Area (i.e., signs of cracking, spalling, and/or bulging of the concrete; settling above the pipe; presence of mollusks).		
Vegetative: Rate Vegetative Condition of Feature (clogging, erosion, overgrown, intruding roots). Inspect for invasive species. Inspect grass buffer for ditches.		
Function: Rate Function of feature. Inspect for Sediment/Debris Accumulation (standing water/not draining, trash or other debris). Inspect for burrowing animals/pests. Inspect for public hazards. Inspect inflow/outflow points and grade control in ditches.		

Additional Comments:

Photos:

Finding	Lat/Long	Photo

Inspector: Signature

MS4 Routine Stormwater Inspection Report

Submitted By: Submitted Time:

MS4 Information

Date: **Inspection Type:**
BMP Type: Detention Basin **MS4 Feature:**
Coordinate X: **Coordinate Y:**

MS4 Inspection:

Records		
Question	**Answer**	**Details**
Access to the site is adequately maintained for inspection and maintenance.		
Area is clean (trash, debris, grass clippings, etc. removed).		
Drainage ways (overland flow or pipes) to the practice are free of trash, debris, large branches, etc.		
Area around the inlet/outlet structure is mowed and grass clippings are removed.		
No evidence of gullies, rills, or excessive erosion around the inlet/outlet structure.		
Water is going through structure (i.e. no evidence of water going around the structure).		
Inlet/outlet pipe is in good condition and is not clogged		
Diversion structure (high flow bypass structure or other) is free of trash, debris, or sediment. Comment on overall condition of diversion structure and list type.		
Erosion protection is present on site (i.e. turf reinforcement mats). Comment on types of erosion protection and evaluate condition.		
Main treatment area is free of trash, debris, and sediment.		
No evidence of long-term ponding or standing water in the ponding area of the practice (examples include: stains, odors, mosquito larvae, etc.)		
Basin seems to be working properly. No settling around the basin. Comment on overall condition of basin.		
Vegetation within and around practice is maintained. Grass clippings are removed.		
Sediment accumulation within dry detention basin is less than 3 inches.		
No standing water within the basin		
Emergency overflow is free of trash, debris, and sediment.		
No evidence of erosion, scour, or flooding around the structure.		

No shrubs or trees growing on embankment.		
No signs of seepage on the downstream face.		
No signs of animal activity		

Additional Comments:

Photos:

Finding	Lat/Long	Photo

Inspector:

Fort Gordon /Gillem Enclave

DPW Environmental

Stormwater Maintenance Request Form

DATE: _____

MS4 Structure ID #: _____

SWR Tracking #:_____

Basin __ _LID ___ Ditch _ _ _ Pipe _ _ _ Inlet__ Outfall___ Other_____

LOCATION: _____

MAINTENANCE ISSUE:

Date of Inspection: _____

Pictures Taken: Yes ___ No __ No. of Pictures Taken: _____

Pictures

COMMENTS/ RESOLUTION:

Maintenance Completion Date: _____

Pictures Taken: Yes __ No __ No. of Pictures Taken: _____

Amount of waste (Sediment, Vegetation, Wood and/or Waste) Removed and Disposed: _____

Was waste disposed on-site or off-site?_____ Disposal Facility Name: _____

NOTE: If waste was disposed off-site, a copy of the landfill tipping receipt is required to accompany this form when remitted to DPW.

Pictures

FORT GORDON STREET SWEEPING LOG

DATE	LOCATION	ODOMETER START	ODOMETER END	MILES SWEPT	Total debris removed (lbs)

FORT GORDON WASTE DISPOSAL LOG YYYY	
Task	**Debris removed (lbs)**
	Total debris removed (lbs)
	0

Fort Gordon Existing Flood Management Structure Evaluation Form	
Structure ID:	
Date of Evaluation:	
Professional Engineer:	
License/Certification No.:	
Company:	

Land Use	
Surrounding Land Use:	
Drainage Area (acres):	
Pervious Area (acres):	Impervious Area (acres):

Structure Details
Date/Year Constructed:
Structure Size (acres):
Existing Storage Capacity:
Storage Capacity Currently Required:

Evaluation Details
Evaluation Based On: ☐ Civil Designs ☐ Field Assessment ☐ Both ☐ Other
Retrofit of Structure Required: ☐ Yes ☐ No
Proposed Retrofit Type:
Proposed Retrofit Installation/Completion Date:
Supplemental Documents Attached: ☐ Yes ☐ No

APPENDIX I

Impaired Waters Monitoring and Implementation Plan

Impaired Water Monitoring and Implementation Plan

Prepared by:

Directorate of Public Works
Environmental Division
Fort Gordon

1. INTRODUCTION & OBJECTIVES

Fort Gordon's Directorate of Public Works Environmental Division (DPW ED) has developed this Impaired Water Monitoring and Implementation Plan (MIP) to meet Section 4.3 Impaired Waters requirements of the Municipal Separate Storm Sewer System Permit GAG480000 Section 4.3 Impaired Waters requirements. The MIP reflects changes resulting from the 2024 MS4 permit, effective January 15, 2024, and the State of Georgia's Environmental Protection Division's (GA EPD) updated Water Quality Standards (WQS).

The Fort Gordon MIP is intended to satisfy requirements of the facility's coverage under the NPDES Permit No. GAG480000. Fort Gordon will identify any impaired waters, pollutants of concern, monitor and evaluate the water quality for any impaired waters which contain MS4 outfalls or are within one (1) linear mile downstream of MS4 outfalls of the Fort Gordon boundaries.

A review of the Georgia 2024 305(b)/303(d) Integrated Report, titled "Water Quality in Georgia", was conducted to assess Fort Gordon's proximity and potential impact to listed waterways "not meeting designated use due to higher than acceptable levels of contaminants". No additional stream designations or reach impairments were identified within Fort Gordon's area of monitoring responsibility during this review.

Primary Point of Contact Information:

Name of Permittee/Facility:	US ARMY Fort Gordon, Georgia
Contact Person:	Delaine Scott
Title:	Water Quality Specialist
Mailing Address:	Directorate of Public Works 515 15th Street Bldg. 14600 Fort Gordon, GA 30905
Telephone:	706.791.6129
E-mail Address:	shannon.d.scott20.civ@army.mil

Stream Impairment

The 2024 305(b)/303(d) list of impaired waters in Georgia identifies Spirit Creek, Sandy Run Creek, and Headstall Creek as impaired for Bio F and not supporting its designated use of fishing. A review of the installation's municipal outfalls revealed that Sandy Run Creek and Headstall Creek impaired water segments do not contain outfalls that discharge into and/or are located greater than one mile downstream of any MS4 outfalls. Upon review of GA EPD's 2016, 2018, 2020, 2022 and 2024 305(b)/303(d) Integrated Report for Water Quality in Georgia, Butler Creek (which was formerly impaired for Fecal Coliform in 2014) was listed as "Assessment Pending". As such, Butler Creek

has been removed from Fort Gordon's impaired water monitoring plan. Details of the Spirit Creek impairment from the 2024 305(b)/303(d) report are provided below.

Reach Name: Spirit Creek (GAR030601060307)
County: Richmond
Category: 4a, 5
Reach Location: Marcum Branch to McDade Pond
Creek Extent: 13.4 miles
Criterion Violated: Bio F, Fish Tissue (Thallium)
Potential Cause: Nonpoint/Urban Runoff/Urban Effects
Notes: TMDL completed Bio F 2016

2. WATER QUALITY SAMPLING & MONITORING PLAN

Monitoring/Sampling Location

Spirit Creek is a perennial water body within the external to the boundary of Fort Gordon. Spirit Creek has a continuous flow throughout the year and is impaired by sediment.

Monitoring will be performed in-stream at the chosen upstream and downstream location for the tributary. The tributary will be monitored at the upstream location, as proximal to the point where the impaired segment initiates within the facility's boundary, and downstream, as proximal to the point where the impaired segment discharges from the facility's boundary. By evaluating water quality conditions in the stream at the upstream point within the facility's boundary where the impairment originates and as it leaves the facility downstream, Fort Gordon will be better able to delineate and identify potential pollutant sources within and beyond of the facility's boundary.

Monitoring Locations

Maps delineating the location of impaired waters, monitoring locations, and the MS4 outfalls can be seen in Attachment 1 and 2.

Location Code	Location Description	Location Coordinates
FG-SC-1	Spirit Creek	33º 23′ 59.20″ N, 82º 10′ 10.83″ W
FG-SC-2	Spirit Creek	33º 22′ 53.625″ N, 82º 8′ 56.305″ W

Sampling Method and Type

Water quality sampling methods will conform to the guidance in the GA EPD Water Protection Branch Quality Assurance Manual (June 1999) and 40 CFR 136 Table IB – List of Approved Inorganic Test Procedures. Samples will be collected by Fort Gordon environmental personnel and analysis will be conducted by a local certified water quality lab. Manual in-stream grab samples (discrete water samples collected from the surface water body) will be collected for laboratory analysis of Total Suspended Solids (TSS). To ensure sample integrity, the samples will be stored in an ice-filled container and sealed with a custody seal at the conclusion of the sample event. To comply with specified sample analysis "holding times", they will then be promptly transported by Fort Gordon environmental personnel and delivered to a certified water quality lab. In Accordance with 40 CFR 136 Table IB – List of Approved Inorganic Test Procedures, Method 2540D, will be utilized by the selected laboratory.

Table IB-List of Approved Inorganic Test Procedures

Parameter and Units	Methodology	EPA	Standard Methods	ASTM	USGS/AOAC/Other
55. Residue—non-filterable (TSS), mg/L	Gravimetric, 103-105° post-washing of residue		2540 D-2020	D5907-18 (A)	I-3765-85.2

Sampling Frequency

Fort Gordon environmental personnel/staff will sample Spirit Creek for total suspended solids at a frequency of once a year. A total of two (2) samples (1 sample upstream and 1 sample downstream) will be collected annually.

Implementation Plan

Fort Gordon environmental personnel/staff will collect total suspended solid samples at upstream and downstream locations of the stream segment with MS4 outfalls that discharge within 1 linear mile upstream of the Spirit Creek impairment. Monitoring will continue during subsequent reporting periods for the 5-year permit term.

Map showing Impaired Waters, Monitoring Locations and MS4 Outfalls

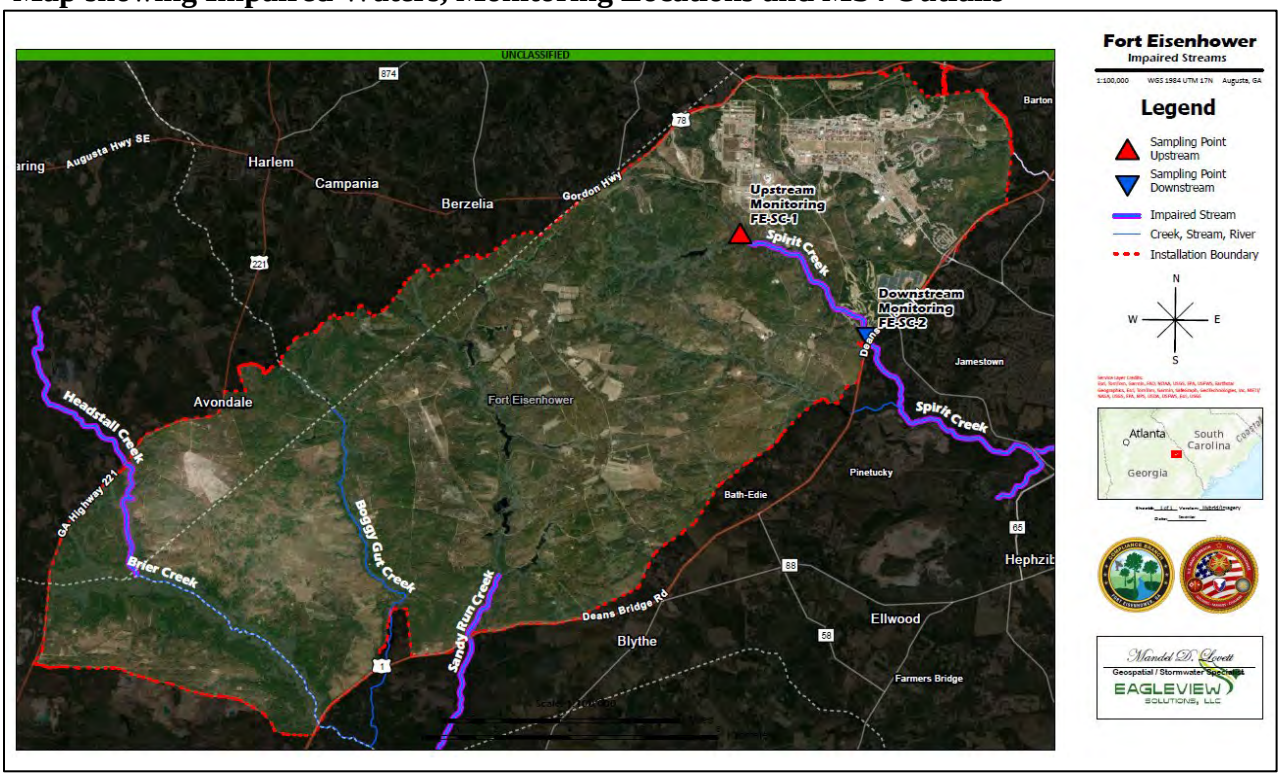


Figure 1. Impaired Stream Segments at Fort Gordon

3. BEST MANAGEMENT PRACTICES (BMPs)

Fort Gordon will continue to implement its Stormwater Management Plan (SWMP) under its current NPDES Phase II MS4 permit. Applicable sections of the SWMP include Public Education, Public Involvement, Illicit Discharge Detection and Elimination, Construction Site Storm Water Runoff Control, Post-Construction Storm Water Management, Pollution Prevention/Good Housekeeping for Municipal-Type Operations. Fort Gordon will implement BMPs for each minimum control measure and evaluate monitoring data for the five-year permit term to assess its contribution and impact on the level of contamination in Spirit Creek.

As part of this Plan, Fort Gordon will implement several BMPs to control and reduce the amount of sediment pollutant within Spirit Creek. These BMPs include:

Public Education

Fort Gordon conducts a variety of public activities to inform the installation's public about storm water discharge impacts to Spirit Creek through the distribution of educational materials/displays/newsletters and classroom education.

24 Hour Complaint Hotline

Fort Gordon promotes and maintains a 24-hour hotline number for the installation's public to report any illicit discharges and/or MS4 concerns. All complaints are investigated within 24 business hours to determine appropriate redress.

Dry Weather Screening of MS4 Outfalls

Fort Gordon will screen no less than 5% of its MS4 outfalls each year with 100% of the structures inspected during the five-year permit term. Outfall screening will be conducted to determine if non-stormwater discharges are emanating from the system. Procedures for screening outfalls and tracing potential pollutant sources are included in Fort Gordon's SWMP and Illicit Discharge Detection and Elimination Policy and Procedures. Any polluted discharges discovered will be documented and traced to their origins. Then appropriate actions will be taken to eliminate the flow and prevent its reoccurrence. Actions taken may include education, warning, or citation as warranted.

Increased Inspection of Construction Sites

The installation inspects construction sites to ensure that structural and non-structural BMPs are properly designed and maintained, and that construction site waste is properly controlled. At a minimum, quarterly inspections will occur at all construction sites draining to Spirit Creek. Also, inspections will occur following installation of initial BMPs, during active construction, and after final site stabilization either through DPW environmental personnel/staff or onsite construction contractors.

Inspection of Post-Construction, Green Infrastructure, and MS4 Structure Inventories, and MS4 Operational Facilities

The installation inspects these structures and facilities each year to determine if non-stormwater discharges are released. Procedures for these BMPs are included in Fort Gordon's SWMP. Any polluted discharges discovered will be documented and traced to their origins. Appropriate actions will then be taken to eliminate the flow and prevent its reoccurrence. Actions taken may include education, warning, or citations as warranted.

4. SCHEDULE OF ACTIVITIES

Year 1 Activities & Thereafter

- Conduct Water Quality Monitoring for Total Suspended Solids in accordance with Section 2 of this plan.
- Continue BMPs 1 through 5

5. EVALUATION & REPORTING

Annual Evaluation & Reporting

Each year, Fort Gordon will develop a brief water quality report for impaired waterways outline:

- Monitoring Results for the respective reporting period.
- Trend Analysis of Water Quality Monitoring Data: Following the establishment of at least three years of data, this analysis reveals data trends over time for the pollutant of concern. The assessment will include characterization of baseline conditions and a written evaluation of whether water quality is improving, declining, fluctuating, or remaining constant. If monitoring identifies that an upstream MS4 is the source of the pollutant of concern, Fort Gordon personnel will promptly notify the immediately adjacent MS4.
- The effectiveness of the BMPs currently employed, whether any additional adaptive BMP measures are necessary to return the waters into compliance with State water quality standards. If BMP revisions to the BMPs or additional BMPS are required, the revised MIP must be submitted to GA EPD for review; and
- Documentation of any activities undertaken during each reporting period pursuant to this MIP.

The analysis of each year's water quality data along with any trend analysis will be utilized to determine the water quality relative to State standards and if the trend is showing improvement or degradation relative to previous years. Additionally, the results of the various BMPs will be outlined to document the identification of pollution sources along with the mitigation actions taken each year for sources identified in these efforts. If the trend analysis indicates that water quality is worsening or not improving, then additional BMPs will be identified and considered for deployment.

A copy of this report and sampling data will be included in Fort Gordon's Annual Report for its NPDES Phase II Stormwater Management Program due February 15th of each year.