Small MS4 Annual Report

ID #: AZSM65721

MS4 Name: ARIZONA STATE UNIVERSITY MAIN CAMPUS MS4

Reporting Period: 01-Jul-2020 To 30-Jun-2021
Annual Report Summary

Company Information

Name: ARIZONA STATE UNIVERSITY - MAIN CAMPUS
PO BOX 875512
TEMPE
AZ, 85287

Question: During this reporting period, was additional land annexed into the regulated MS4 area?
Answer: No

Question: Is stormwater sewer mapping 100 percent complete?
Answer: Yes

Provide the description of the measurable goal:
ASU has existing mapped stormwater infrastructure. This mapping was completed to meet initial program requirements.

To update this mapping, improve geospatial accuracy and incorporate new facilities, the University embarked on a multi-year Infrastructure Utility Master Plan project for the Tempe Main and Polytechnic campuses.

Question: Is outfall mapping 100 percent complete?
Answer: Yes

Number of outfalls mapped: 5

Provide the description of the measurable goal:

Question: Is identification of receiving waters information 100 percent complete?
Answer: Yes

Provide the description of the measurable goal:

Question: Has an Illicit Discharge Detection and Elimination (IDDE) enforcement authority or other regulatory mechanism been established?
Answer: Yes

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Code/Citation</th>
<th>Effective Date</th>
<th>Inactive Date</th>
</tr>
</thead>
</table>
Question: Has a Construction Site Stormwater Runoff enforcement authority or other regulatory mechanism been established?
Answer: Yes

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Code/Citation</th>
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</thead>
<tbody>
<tr>
<td>Capital Programs Management Group/Construction Support Services</td>
<td>Erosion and Sediment Control/Grading Policy</td>
<td>03/29/2017</td>
<td></td>
</tr>
</tbody>
</table>

Question: Has a Post-Construction Stormwater Management enforcement authority or other regulatory mechanism been established?
Answer: Yes

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Code/Citation</th>
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<td></td>
</tr>
</tbody>
</table>

Question: For each BMP in the Minimum Control Measure 1: Public Education and Outreach, what was completed during this reporting period?
Answer: 

**BMP Name:** MCM 1 - Stormwater Webpage  
**Category:** Webpage  
**Personnel Position/Department:** Capital Programs Management Group  
**BMP Description:** Maintain a Stormwater webpage with general stormwater awareness information and guidance: https://cfo.asu.edu/stormwater-program  
**Is another government entity responsible for this BMP?** No  

**Measurable Goals:**
**Start Date:** 03/28/2017  
**Targeted End Date:** 09/29/2021  
**Targeted Audience:** Students, faculty, staff and visitors  
**Frequency:** 1 Annually

**Milestone Description:**  
Report significant updates annually; track and report website visits annually

**Were milestones/measurable goals achieved for this reporting period?** Yes

**Actual BMP Start Date:** 06/01/2005

**Provide a description of BMP effectiveness, including metrics used to determine effectiveness.**

There were 279 stormwater website page views to ASU's Stormwater Program website (https://cfo.asu.edu/stormwater-program) during the reporting period.

**Provide a summary of activities planned for next reporting period**

**BMP does not apply for next reporting period:** No

**Milestone Description:**  
Report significant updates annually; track and report website visits annually

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**BMP Name:** MCM 1 - Parking Permit Holders  
**Category:** Permit Agreement  
**Personnel Position/Department:** Parking & Transit Services  
**BMP Description:**

All campus parking permit holders review and accept stormwater IDDE requirements as part of their acceptance agreement for an annual campus parking permit.

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

**Start Date:** 03/28/2017  
**Targeted End Date:** 09/29/2021  
**Targeted Audience:** Campus parking permit holders  
**Frequency:** 1 Annually

**Milestone Description:**  
Track and report the number of campus parking permits issued

**Were milestones/measurable goals achieved for this reporting period?** Yes
Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

ASU Parking and Transit Services sold 19,798 parking permits for fiscal year 2020-2021.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Track and report the number of campus parking permits issued

BMP Name: MCM 1 - Sustainability Webpage
Category: Webpage
Personnel Position/Department: ASU School of Sustainability

BMP Description:
Website of the School of Sustainability linking students to Pollution Prevention activities, clubs and resources on campus: https://sustainability.asu.edu/campus

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 07/01/2019
Targeted End Date: 09/29/2021
Targeted Audience: Students living on campus/University Housing
Frequency: 1 Annually

Milestone Description:
Track and report website visits annually

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

ASU's Global Institute of Sustainability and the Institute of Innovation in Society merged during the last reporting period, energizing outreach efforts and communications.

On February 4, 2021, the two program websites were merged. The new website is https://sustainability-innovation.asu.edu/
Annual page views totaled 108,104.

Provide a summary of activities planned for next reporting period
**BMP does not apply for next reporting period:** No

**Milestone Description:**
Track and report website visits annually

**Question:** Minimum Control Measure 1: Public Education and Outreach, Did the program implement any additional BMPs during this reporting period?

**Answer:**

Did the program implement any additional BMPs during this reporting period? No

**Provide a summary of compliance with the requirements for Minimum Control Measure 1.**
ASU maintains websites for its stormwater and sustainability programs which include information on stormwater management and pollution prevention initiatives. Utilization of these online resources increased during the past reporting period. Page views of the stormwater website increased 34% and website page views of the sustainability site rose from almost 7,000 views last year to more than 108,000 views this reporting year. The latter reflected new online initiatives and increased outreach by the now-combined sustainability and global innovations programs.

**Question:** For each BMP in the Minimum Control Measure 2: Public Involvement and Participation, what was completed during this reporting period?

**Answer:**

**BMP Name:** MCM 2 - SWMP Public Inquiries  
**Category:** Public Involvement  
**Personnel Position/Department:** Capital Programs Management Group  
**BMP Description:** Respond to inquiries about the SWMP and stormwater pollution prevention  
**Is another government entity responsible for this BMP ?** No  
**Measurable Goals:**

**Start Date:** 03/28/2017  
**Targeted End Date:** 09/29/2021  
**Frequency:** 1 Annually

**Milestone Description:**
Report the number of inquiries and the percentage responded to within 15 days  
**Were milestones/measurable goals achieved for this reporting period?** Yes  
**Actual BMP Start Date:** 03/01/2004  
**Date:**

**Provide a description of BMP effectiveness, including metrics used to determine effectiveness.**
Stormwater inquiries were minimal during the reporting year as the area received limited rainfall and students were not on campus due to the covid pandemic. All inquiries related to stormwater infrastructure and pollution prevention were received directly by staff and responded to immediately. The majority of inquiries were related to construction project drainage management best practices.

Provide a summary of activities planned for next reporting period

**BMP does not apply for next reporting period:** No

**Milestone Description:**

Report the number of inquiries and the percentage responded to within 15 days

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**BMP Name:** MCM 2 - Spill Reporting  
**Category:** Public Participation  
**Personnel Position/Department:** Environmental Health and Safety  
**BMP Description:**

Spill reporting and response

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

**Start Date:** 03/28/2017  
**Targeted End Date:** 09/29/2021  
**Frequency:** 1 Annually

**Milestone Description:**

Report the number and type of spills reported; report the percentage of reported spills mitigated within 15 days

**Were milestones/measurable goals achieved for this reporting period?** Yes

**Actual BMP Start Date:** 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

ASU's Environmental Health and Safety team did not encounter any hazmat spills outside of buildings during the reporting period. As a result, there were no incidents that required incident reports or escalation. It's recognized that on-campus activity was significantly reduced due to the pandemic and the shift to online, rather than on-campus, learning.

University stormwater staff, however, were added to EHS's Emergency Response contact list in the latter part of the reporting year to facilitate future communication and to ensure awareness and rapid response related to any future stormwater-related incidents.

Provide a summary of activities planned for next reporting period

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Main Office  
1110 W. Washington Street . Phoenix, AZ 85007  
(602)771-2300

Southern Regional Office  
400 W. Congress Street . Suite 433 . Tucson, AZ 85701  
(520)628-6733
BMP does not apply for next reporting period: No

Milestone Description:
Report the number and type of spills reported; report the percentage of reported spills mitigated within 15 days

BMP Name: MCM 2 - Pollution Prevention Activities
Category: Public Involvement

Personnel Position/Department: Capital Programs Management Group

BMP Description:
Stormwater pollution prevention activities such as Zero Waste Ambassadors, Composting, Ditch the Dumpster, and Asurite hazardous waste disposal program.

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the amount of hazardous waste collected annually; report the total amount of landscape waste going to landfill; narrative account of other activities

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 03/01/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU diversion points of pride:
- Overall waste decreased almost 23% since 19/20
- Green waste increased 20%
- eWaste increased 112% (which is still 25% of 2017 levels)
- Aversion almost doubled from 22% to 41%

Since 9/1/2020 ASU has:
- 645 labs are green labs certified
- Eliminated the need to purchase more than 981 1-gallon glass bottles, used for hazardous waste accumulation, by washing and reusing existing containers
- Re-distributed 15 containers of unused chemicals eliminating the need to dispose of them as hazardous waste
- Punctured, evacuated and recycled 406 pounds of aerosol cans which would otherwise be disposed of as hazardous waste
- Segregated and disposed of 3,363 pounds of waste as non-regulated preventing it from becoming mixed with hazardous waste
- Recycled 3,763 pounds of lead acid batteries, and 2,181 pounds of other types of batteries
- Recycled 11,237 pounds of metal
- Recycled 27,807 light bulbs

CampusGreen Waste Tonnage in FY21
Tempe508.23
Poly403.12
Downtown0
West349.71
Total1261.06

In addition, ASU's Environmental Health and Safety team has produced a revised Pollution Prevention Plan targeting both hazardous waste reduction in the labs and Pollution Prevention Training for all EHS staff. As part of this effort, five new Drain Disposal locations were established in the last reporting period. The program targets non-regulated waste in labs for disposal at the point of generation; eliminating excessive handling.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report the amount of hazardous waste collected annually; report the total amount of landscape waste going to landfill; narrative account of other activities

BMP Name: MCM 2 - SWMP Annual Updates
Category: Public Participation

Personnel Position/Department: Capital Programs Management Group

BMP Description:
Solicit input on the SWMP annual revisions from students, faculty, staff and the public

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number of ASU departments contacted and the number of comments received from the Stormwater website. Post the SWMP and Annual Reports online at https://cfo.asu.edu/stormwater-program.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
The SWMP and Annual Report are posted online. Program comments were solicited during the training session which included personnel from the following departments and divisions: Grounds Services, Tempe Facilities Management, West Facilities Management, Polytechnic Facilities Management, and Asset Management. Comments to improve ASU's Stormwater Management Program were also directly solicited through email to ASU partner department and division leadership in Poly Facilities Management, Environmental Health & Safety, Grounds Management, West Facilities Management, and Parking & Transit Services. In response, EH&S added Stormwater staff to both their Emergency Response distribution list and their Slack emergency incident channel to allow for heightened awareness of possible illicit discharges. PT&S provided ideas to enhance pollution prevention efforts related to campus power-washing activities.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report the number of ASU departments contacted and the number of comments received from the Stormwater website. Post the SWMP and Annual Reports online at https://cfo.asu.edu/stormwater-program.

Question: For Minimum Control Measure 2: Public Involvement and Participation, Did the program implement any additional BMPs during this reporting period?
Did the program implement any additional BMPs during this reporting period? No

Provide a summary of compliance with the requirements for Minimum Control Measure 2.

ASU maintained its pollution prevention efforts during the program year. While in-person opportunities were limited due to the pandemic, activities related to maintaining campus grounds and improving environmental safety practices at lab facilities continued unabated. ASU teams increased green waste tonnage. Overall waste decreased almost 23%. E-waste increased 112%. ASU’s Environmental Health and Safety updated their pollution prevention plan. They also continued their efforts to certify campus green labs and to separate non-regulated lab waste streams from those of hazardous waste to minimize hazardous waste disposal.

Question: For each BMP in the Minimum Control Measure 3: Illicit Discharge Detection and Elimination Program, what was completed during this reporting period?

Answer:

**BMP Name:** MCM 3 - Enforcement

**Category:** Implement IDDE Program

**Personnel Position/Department:** ASU Police, Dean of Students, CPMG, and ASU Administration

**BMP Description:** Enforce all relevant stormwater pollution prevention rules and policies

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

**Start Date:** 03/28/2017

**Targeted End Date:** 09/29/2021

**Frequency:** 1 Annually

**Milestone Description:** Report the number of enforcement actions taken annually

**Were milestones/measurable goals achieved for this reporting period?** Yes

**Actual BMP Start Date:** 09/30/2004

**Provide a description of BMP effectiveness, including metrics used to determine effectiveness.**

No formal enforcement actions were necessary or taken this reporting period.

**Provide a summary of activities planned for next reporting period**

**BMP does not apply for next reporting period:** No

**Milestone Description:** Report the number of enforcement actions taken annually
**BMP Name:**  MCM 3 - Written IDDE Procedures  
**Category:**  Written IDDE Procedures  
**Personnel Position/Department:**  Capital Programs Management Group  

**BMP Description:**
Revise the IDDE plans as needed  

*Is another government entity responsible for this BMP?*  No  

**Measurable Goals:**

**Start Date:** 03/28/2017  
**Targeted End Date:** 09/29/2021  
**Frequency:** 1 Annually  

**Milestone Description:**
Review and update (if needed) IDDE plan annually  

*Were milestones/measurable goals achieved for this reporting period?*  Yes  

**Actual BMP Start Date:** 09/30/2004  

**Provide a description of BMP effectiveness, including metrics used to determine effectiveness.**
Current IDDE plan efforts remain effective. Changes to the IDDE were not necessary this reporting period.  

**Provide a summary of activities planned for next reporting period**
**BMP does not apply for next reporting period:**  No  

**Milestone Description:**
Review and update (if needed) IDDE plan annually  

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**BMP Name:**  MCM 3 - Wet Weather Monitoring  
**Category:**  Wet Weather Monitoring  
**Personnel Position/Department:**  Capital Programs Management Group  

**BMP Description:**
Visually assess discharges from outfalls  

*Is another government entity responsible for this BMP?*  No  

**Measurable Goals:**

**Start Date:** 03/28/2017  
**Targeted End Date:** 09/29/2021  
**Frequency:** 1 Quarterly  

**Provide a summary of activities planned for next reporting period**
**BMP does not apply for next reporting period:**  No  

**Milestone Description:**
Review and update (if needed) IDDE plan annually
Milestone Description:
Visually assess discharges from outfalls four times annually

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 03/01/2016

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
Visual monitoring of the ASU West campus outfall locations was conducted on the following five dates: 10/9/2020, 10/20/2020, 2/8/2021, 4/9/2021, and 6/7/2021.

Visual monitoring of the ASU Polytechnic Campus outfall locations occurred on the following five occasions: 10/20/2020; 10/30/2020; 2/8/2021; 4/9/2021; and 6/7/2021.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
Visually assess discharges from outfalls four times annually

BMP Name: MCM 3 - Training
Category: Staff Training
Personnel Position/Department: Capital Programs Management Group
BMP Description:
Train personnel with IDDE responsibilities

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number of ASU employees trained each year

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU's Stormwater group completed Illicit Discharge and Detection Elimination training for fifteen (15) staff members representing ASU's three MS4 campuses (Tempe Main, Polytechnic, and West) on June 22, 2021. The training session included executive, managerial, and supervisory leadership for teams engaged in stormwater management and pollution prevention activities, among other responsibilities, at the ASU campuses. Representatives attended from Grounds, ASU West Facilities Management, ASU Polytechnic Facilities Management, ASU Tempe Facilities Management, Building Inspections, and Asset Management.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report the number of ASU employees trained each year

BMP Name: MCM 3 - Dry Weather Screening
Category: Dry Weather Screening
Personnel Position/Department: Capital Programs Management Group

BMP Description:
Inspect outfalls and investigate dry weather flows within 15 days of discovery

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number of dry weather flows found and the percentage mitigated within 15 days and report in the annual report

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 04/01/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
There were no significant dry weather flow events during this reporting period. ASU's Facilities and Grounds teams quickly repair periodic irrigation breaks. With university classes moved to a remote learning environment due to the pandemic, on-campus populations and related student activities were reduced during this reporting period.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No
Milestone Description:
Report the number of dry weather flows found and the percentage mitigated within 15 days and report in the annual report

BMP Name: Stormwater - Mapping
Category: Stormwater Sewer Mapping
Personnel Position/Department: Capital Programs Management Group

BMP Description:
Field verify existing storm water sewer maps and update an electronic mapping system for the Main, West and Polytechnic campuses

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 One time event

Milestone Description:
ASU field verification of existing storm water sewer maps and an update of the electronic mapping system is anticipated for completion by Summer 2022; Report new permanent BMPs in the annual report

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU has mapped its known stormwater infrastructure. Efforts continue to map growth areas and to use new technologies to enhance the accuracy and usability of the mapped data.

ASU staff continued actively conducting utility mapping efforts to identify underground utilities, including stormwater infrastructure, on the Tempe and Polytechnic campuses’ as part of the Infrastructure Utility Master Plan Project, slated for completion by Summer 2022.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
ASU field verification of existing storm water sewer maps and an update of the electronic mapping system is anticipated for completion by Summer 2022; Report new permanent BMPs in the annual report.
Question: For Minimum Control Measure 3: Illicit Discharge Detection and Elimination Program, Did the program implement any additional BMPs during this reporting period?

Answer: Did the program implement any additional BMPs during this reporting period? No

Provide a summary of compliance with the requirements for Minimum Control Measure 3.

Although campus activity was reduced during the reporting period due to the pandemic, ASU staff were active and present at all three campuses to monitor facilities and to ensure that systems and programs remained in compliance. ASU accelerated its enhanced infrastructure mapping activities, completed important leadership IDDE training, and conducted periodic visual and dry weather field screening at the Polytechnic and West campuses.

Question: Were staff trained in IDDE Awareness and Response?

Answer:

Yes

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Date of Training Event</th>
<th>Training Subject</th>
<th>Number of Employees Trained</th>
<th>Frequency of Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>06/22/2021</td>
<td>IDDE Awareness and Pollution Prevention</td>
<td>15</td>
<td>Annually</td>
</tr>
</tbody>
</table>

Question: Minimum Control Measure 1: Illicit Discharge Detection and Elimination Program, Provide the details of the Illicit Discharge Detection and Elimination (IDDE) incidents that occurred during this reporting period.

Answer:

Number of IDDE incidents reported in this reporting period: 0

Number of IDDE incidents responded to in this reporting period: 0

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Enforcement Actions</th>
<th>Enforcements Issued</th>
<th>Enforcements Resolved</th>
<th>Enforcements Unresolved</th>
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<tr>
<td>1</td>
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<td>0</td>
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</tr>
<tr>
<td>4</td>
<td>Admin Order</td>
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</tr>
<tr>
<td>5</td>
<td>Admin Fines</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Question: Were there any unpermitted discharges to the MS4?
Answer: No

Question: Were any samples collected to characterize illicit discharge(s) in this reporting period?
Answer: No

*Number of Illicit Discharges Sampled are:* There were no measurable illicit discharges during this reporting period. ASU remained in a remote learning environment due to the pandemic. This adaption reduced campus populations and the number and frequency of on-campus activities.

Question: For each BMP in the Minimum Control Measure 4: Construction Activity Stormwater Runoff Control, what was completed during this reporting period?
Answer:

**BMP Name:** MCM 4 - Site Plan Review

**Category:** Site Plan Review

**Personnel Position/Department:** Capital Programs Management Group

**BMP Description:**
Review construction plans and building permit applications for adherence to ASU construction policies

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

**Start Date:** 03/28/2017

**Targeted End Date:** 09/29/2021

**Frequency:** 1 Annually

**Milestone Description:**
Report the number of plans reviewed each year

**Were milestones/measurable goals achieved for this reporting period?** Yes

**Actual BMP Start Date:** 09/30/2004

**Date:**

**Provide a description of BMP effectiveness, including metrics used to determine effectiveness.**
ASU's Construction Support Services group processed 426 permitting applications. Of those, eight were for five sites with more than an acre of land disturbance.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report the number of plans reviewed each year

BMP Name: MCM 4 - Construction Contractor SWMP Education
Category: Construction Operator Training
Personnel Position/Department: Capital Programs Management Group

BMP Description:
ASU maintains and makes available updated information on stormwater pollution prevention requirements for construction contractors.

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report significant updates to information provided to contractors in annual report and/or as needed

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
Stormwater Pollution Prevention requirements for contractors remained effective without need for revision during the reporting period.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report significant updates to information provided to contractors in annual report and/or as needed

BMP Name: MCM 4 - Construction Inspection and Enforcement
Category: Inspections
Personnel Position/Department: Capital Programs Management Group
BMP Description:
Conduct site inspections and provide escalating enforcement as needed

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Track and report annually the number of inspections conducted; Track and annually report violations discovered and enforcement actions taken.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU inspectors conducted approximately thirteen SWPPP inspections on seven active project sites. Identified concerns were corrected upon reinspection. No violations were identified that would necessitate enforcement action.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
Track and report annually the number of inspections conducted; Track and annually report violations discovered and enforcement actions taken.

BMP Name: MCM 4 - New Construction LEED Certification Standards
Category: Control Wastes
Personnel Position/Department: Capital Programs Management Group

BMP Description:
Based on the state mandate for minimum LEED Silver certification for new construction, ASU maintains a landfill diversion policy. In addition to diverting construction waste from landfills, ASU works with construction operators to control wastes on construction sites. Construction operators are required to implement waste control measures at construction sites including, but not limited to, the following: (1) wash-out facilities for concrete, paint, drywall and stucco; (2) proper storage of fuels, oils, chemicals, etc. in a material storage yard with secondary containment or covers, as appropriate; (3) trash containment in dumpsters; and (4) appropriate location, staking and anchoring of Port-a-Johns.

Is another government entity responsible for this BMP? No
Measurable Goals:

Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number of LEED Silver certifications of new buildings
Report the number of compliance inspections on construction sites as part of the Annual Report

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 10/01/2003

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU achieved LEED NC-Platinum certification for the Lantana Hall academic and residence hall at the Polytechnic Campus, totaling 115,386 GSF on 11-9-2020. LEED NC-Silver certification was achieved for four residential housing buildings at the Greek Leadership Village (Buildings A - D) at the Tempe Campus on 9-8-2020. The ASU Golf Practice Facility in Papago Park reached LEED NC-Silver certification on 7-9-2020. ASU Inspections performed approximately thirteen stormwater-specific compliance inspections on seven construction sites to ensure the proper implementation and maintenance of onsite waste control measures.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report the number of LEED Silver certifications of new buildings Report the number of compliance inspections on construction sites as part of the Annual Report.

BMP Name: MCM 4 - Erosion/Sediment Control Policy
Category: Erosion/ Sediment Control
Personnel Position/Department: Capital Programs Management Group

BMP Description:
Revise and update all construction contractor guidance documents, including the Erosion, Sediment Control and Grading Policy, as needed

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2017
Targeted End Date: 09/29/2021
**Frequency:** 1 Annually

**Milestone Description:**
Annually report revisions and updates to construction contractor guidance documents, including the Erosion, Sediment Control and Grading Policy found online at https://cfo/asu.edu/construction-sites

**Were milestones/measurable goals achieved for this reporting period?** Yes

**Actual BMP Start Date:** 03/28/2017

**Provide a description of BMP effectiveness, including metrics used to determine effectiveness.**
No revisions were necessary to the existing guidance documentation.

**Provide a summary of activities planned for next reporting period**

**BMP does not apply for next reporting period: No**

**Milestone Description:**
Annually report revisions and updates to construction contractor guidance documents, including the Erosion, Sediment Control and Grading Policy found online at https://cfo/asu.edu/construction-sites

**Question: For Minimum Control Measure 4: Construction Activity Stormwater Runoff Control, Did the program implement any additional BMPs during this reporting period?**

**Answer:** No

**Provide a summary of compliance with the requirements for Minimum Control Measure 4.**
The University's Service Provider Acknowledgement requiring the use of appropriate stormwater best practices at construction sites remained in effect for ASU contractors. ASU and its affiliates inspected active construction sites to ensure stormwater runoff controls were in compliance. ASU also achieved one LEED Platinum and five LEED Silver certifications for its facilities during the reporting year.

ASU's Construction Support Services provided zoom training on IDDE and stormwater pollution prevention measures to ASU leadership representatives from multiple departments that oversee campus facilities and programs. ASU Stormwater staff also partnered with ASU Environmental Health and Safety Department staff to provide onsite, in-person IDDE and SWPPP training, including ASU-specific pollution prevention expectations, to a new construction operator's onsite leadership personnel during the start-up phase of a large construction project at the Tempe campus.

**Question: Were any construction activity operator training events conducted?**

**Answer:** Yes
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Date of Training Event</th>
<th>Training Subject</th>
<th>Number of Employees Trained</th>
<th>Frequency of Training</th>
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<tbody>
<tr>
<td>1</td>
<td>02/26/2021</td>
<td>IDDE Awareness, Pollution Prevention and SWPPP Requirements</td>
<td>4</td>
<td>One time event</td>
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</table>

Question: Minimum Control Measure 4: Construction Activity Stormwater Runoff Control, Provide the details of the construction activity complaints and inspections that were conducted during this reporting period.

Answer:

- **Number of active construction sites in this reporting period:** 7
- **Has an inspection frequency been developed and implemented?** YES
- **Number of active construction sites inspected at least weekly:** 0
- **Number of active construction sites inspected at least one time every six months:** 7
- **Number of active construction sites inspected at least monthly:** 1
- **Number of active construction sites inspected at least annually:** 7
- **Number of construction activity complaints that were resolved or responded to:** 0
- **Number of active construction sites not inspected:** 0
- **Number of construction activity complaints received in this reporting period:** 0
- **Number of active construction sites that required re-inspections in this reporting period:** 3

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Enforcement Actions</th>
<th>Enforcements Issued</th>
<th>Enforcements Resolved</th>
<th>Enforcements Unresolved</th>
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<td>Admin Order</td>
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<td>5</td>
<td>Admin Fines</td>
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</tr>
</tbody>
</table>
Question: For each BMP in the Minimum Control Measure 5: Post-Construction Stormwater Management in New Development and Redevelopment, what was completed during this reporting period?

Answer:

**BMP Name:** MCM 5 - O&M Stormwater Infrastructure  
**Category:** O&M Procedures  
**Personnel Position/Department:** Capital Programs Management Group

**BMP Description:**
ASU operates and maintains post-construction stormwater infrastructure including, but not limited to, retention basins and drywells on a regular basis to ensure their proper function and performance.

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

**Start Date:** 03/28/2017  
**Targeted End Date:** 09/29/2021  
**Frequency:** 1 Annually  

**Milestone Description:**
Report annually on the number of drywells inspected and maintenance actions performed.

**Were milestones/measurable goals achieved for this reporting period?** Yes

**Actual BMP Start Date:** 09/30/2004  

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU completed inspections and related maintenance on 226 drywells on the Tempe, Polytechnic, and West campuses as well as ancillary university properties including the Mercado property in downtown Phoenix.

Provide a summary of activities planned for next reporting period

**BMP does not apply for next reporting period:** No

**Milestone Description:**
Report annually on the number of drywells inspected and maintenance actions performed.
**BMP Name:** MCM 5 - Regulatory Mechanism for Post-Construction Controls  
**Category:** Structural/Non-Structural BMP  
**Personnel Position/Department:** Capital Programs Management Group  

**BMP Description:**
Design guidelines for post-construction controls must meet surrounding MS4 drainage criteria.

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

- **Start Date:** 03/28/2017
- **Targeted End Date:** 09/29/2021
- **Frequency:** 1 Annually

**Milestone Description:**
Update design guidelines for post-construction controls and report in the annual report, as needed.

**Were milestones/measurable goals achieved for this reporting period?** Yes

**Actual BMP Start Date:** 09/30/2004

**Provide a description of BMP effectiveness, including metrics used to determine effectiveness.**
ASU's design guidelines for post-construction controls meet surrounding MS4 drainage criteria. ASU completed stormwater compliance reviews for three large projects to ensure that the design guidelines for post-construction controls met the adjacent MS4 jurisdiction's drainage criteria. These included a new warehouse building and a multi-purpose arena for compliance with City of Tempe criteria and a new education building near the ASU Polytechnic Campus for compliance with City of Mesa provisions.

**Provide a summary of activities planned for next reporting period**

**BMP does not apply for next reporting period:** No

**Milestone Description:**
Update design guidelines for post-construction controls and report in the annual report, as needed.

---

**BMP Name:** MCM 5 - Site Plan Reviews  
**Category:** Site Plan Reviews  
**Personnel Position/Department:** Capital Programs Management Group  

**BMP Description:**
ASU performs site plan reviews for all construction on its campuses. Post-construction stormwater facilities, such as retention basins, swales, drywells, and underground retention chambers are evaluated for efficacy and long-term viability in the project design phase. Construction documents are subsequently reviewed for stormwater compliance during site plan review and inspection.
Is another government entity responsible for this BMP?  No

Measurable Goals:

Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Anually report the number of site plan reviews completed for new post-construction stormwater infrastructure.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 04/01/2003

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU Construction Support Services reviewed 4 plans for projects with new post-construction stormwater infrastructure.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
Anually report the number of site plan reviews completed for new post-construction stormwater infrastructure.

BMP Name: MCM 5 - Inventory
Category: Inventory

Personnel Position/Department: Capital Programs Management Group

BMP Description:
Update drainage control infrastructure inventory as field verification and e-mapping progresses

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Continue field verification and protocols to capture new permanent post-construction stormwater infrastructure from new construction.
Were milestones/measurable goals achieved for this reporting period?  Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

New permanent post-construction stormwater infrastructure including new drywells and underground retention facilities are being captured and mapped as part of the University’s Infrastructure Utility Master Plan Project.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Continue field verification and protocols to capture new permanent post-construction stormwater infrastructure from new construction

Question: For Minimum Control Measure 5: Post-Construction Stormwater Management in New Development and Redevelopment, Did the program implement any additional BMPs during this reporting period?

Answer: No

Provide a summary of compliance with the requirements for Minimum Control Measure 5.

The University continues to add to its inventory of post-construction drainage structures as the campuses grow and new facilities are developed. It is anticipated that the Infrastructure Utility Master Plan project, due for 2022 completion, will provide a new framework to utilize and retain data on campus utilities, including stormwater infrastructure. ASU inspects and maintains its drywells annually. The University also partners with surrounding MS4 jurisdictions to ensure that drainage construction criteria used in the review of new facilities is in compliance with the published design criteria of adjacent jurisdictions.

Question: Minimum Control Measure 5: Post-Construction Stormwater Management in New Development and Redevelopment, Provide the details of the Post-Construction Stormwater controls used during this reporting period

Number of sites that required Post-Construction Stormwater controls in this reporting period: 4

Number of Post-Construction Stormwater controls inspected in this reporting period: 4

<table>
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<tr>
<th>Sr.No.</th>
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<td>Total</td>
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**Question:** For each BMP in the Minimum Control Measure 6: Pollution Prevention and Good Housekeeping, what was completed during this reporting period?

**Answer:**

**BMP Name:** MCM 6 - Inventory of University Facilities

**Category:** Inventory

**Facility Information:**

Parking Lots

**Personnel Position/Department:** Capital Programs Management Group

**BMP Description:**

Inventory university facilities with the potential to discharge to stormwater infrastructure

**Is another government entity responsible for this BMP?** No

**Measurable Goals:**

**Start Date:** 03/28/2017

**Targeted End Date:** 09/29/2021

**Frequency:** 1 Annually

**Milestone Description:**

Inventory university facilities with the potential to discharge to stormwater and report annually

**Were milestones/measurable goals achieved for this reporting period?** Yes

**Actual BMP Start Date:** 09/30/2004

**Date:**

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Main Office
1110 W. Washington Street . Phoenix, AZ 85007
(602)771-2300

Southern Regional Office
400 W. Congress Street . Suite 433 . Tucson, AZ 85701
(520)628-6733

www.azdeq.gov
Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

ASU has no discharging facilities and will conform to this status.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Inventory university facilities with the potential to discharge to stormwater infrastructure

BMP Name: MCM 6 - O&M Procedures
Category: O&M Procedures
Facility Information:
Parking Lots
Personnel Position/Department: Parking & Transit Services

BMP Description:
ASU contracts with a third-party to sweep streets and parking lots, collect and dispose of debris

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Monthly

Milestone Description:
Report annually on the amount of trash collected and disposed of off premises

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

ASU collected and properly disposed of more than 22,972 lbs. of trash.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:
Report annually on the amount of trash collected and disposed of off premises

BMP Name: MCM 6 - O&M Employee Training
Category: Training
Facility Information:

Parking Lots

Personnel Position/Department: Capital Programs Management Group

BMP Description:

Conduct O&M Employee Training

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2017

Targeted End Date: 09/29/2021

Frequency: 1 Annually

Milestone Description:

Document training events and the number of staff trained annually

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

ASU's Construction Support Services group trained fifteen personnel that actively complete O&M activities for the campuses.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Document training events and the number of staff trained annually

BMP Name: MCM 6 - University-Owned Facility Inspections

Category: Inspections

Facility Information:

Parking Lots

Personnel Position/Department: Facilities Maintenance and Parking & Transit Services

BMP Description:

Monitor the number of post-construction control devices recommended for special maintenance

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Annually

Milestone Description:
Report the number of post-construction controls devices recommended for special maintenance. Track the number of illicit discharges or dumping reported to Environmental Health & Safety.

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.
ASU did not have any facilities that required special maintenance this reporting period. No illicit discharges or dumping were reported to Environmental Health and Safety.

Provide a summary of activities planned for next reporting period
BMP does not apply for next reporting period: No

Milestone Description:
Report the number of post-construction controls devices recommended for special maintenance. Track the number of illicit discharges or dumping reported to Environmental Health & Safety.

BMP Name: MCM 6 - MS4 Maintenance (Street Sweeping)
Category: Maintenance Activities

Facility Information:
Parking Lots

Personnel Position/Department: Capital Programs Management Group and Facilities Maintenance

BMP Description:
Maintain/repair MS4 and post-construction controls based on inspection results/CPMG; Clean parking lots/Parking & Transit

Is another government entity responsible for this BMP? No

Measurable Goals:
Start Date: 03/28/2017
Targeted End Date: 09/29/2021
Frequency: 1 Monthly

Milestone Description:
Track the number of repair and maintenance needs identified during inspection that were reflected to third-party contractor for repair; Report dates of parking lot cleaning in the annual report.
Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

ASU completed sweeping activities and general parking lot maintenance on 10 occasions within the reporting period. Sweeping dates included: 7/12/2020, 8/21/2020, 9/18/2020, 11/02/2020, 12/11/2020, 1/24/2021, 3/4/2021, 4/12/2021, 5/18/2021, and 6/27/2021. ASU collected and properly disposed of more than 22,972 lbs. of trash. Sweeping activities maintained a regular schedule to ensure pollution prevention but were reduced due to the pandemic as the university shifted to remote learning.

Provide a summary of activities planned for next reporting period

BMP does not apply for next reporting period: No

Milestone Description:

Track the number of repair and maintenance needs identified during inspection that were reflected to third-party contractor for repair; Report dates of parking lot cleaning in the annual report.

BMP Name: MCM 6 - Maintenance Schedule
Category: Maintenance Schedule

Facility Information:

Parking Lots

Personnel Position/Department: Parking & Transit Services

BMP Description:

Sweeping

Is another government entity responsible for this BMP? No

Measurable Goals:

Start Date: 03/28/2019
Targeted End Date: 09/29/2021
Frequency: 1 Monthly

Milestone Description:

Report dates of parking lot cleaning in the annual report

Were milestones/measurable goals achieved for this reporting period? Yes

Actual BMP Start Date: 09/30/2004

Provide a description of BMP effectiveness, including metrics used to determine effectiveness.

**Provide a summary of activities planned for next reporting period**

**BMP does not apply for next reporting period:** No

**Milestone Description:**

Report dates of parking lot cleaning in the annual report

**Question:** For Minimum Control Measure 6: Pollution Prevention and Good Housekeeping, Did the program implement any additional BMPs during this reporting period?

**Answer:**

**Did the program implement any additional BMPs during this reporting period?** No

**Provide a summary of compliance with the requirements for Minimum Control Measure 6.**

ASU maintained an active sweeping schedule of its parking facilities despite pandemic-related constraints. More than 22,972 lbs. of trash was collected and properly disposed of during 10 parking lot sweeping events.

**Question:** Was staff training conducted?

**Answer:**

Yes

<table>
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<tr>
<th>Sr.No.</th>
<th>Date of Training Event</th>
<th>Training Subject</th>
<th>Number of Employees Trained</th>
<th>Frequency of Training</th>
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<tbody>
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<td>1</td>
<td>06/22/2021</td>
<td>IDDE Awareness and Pollution Prevention</td>
<td>15</td>
<td>Annually</td>
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You validated your identity by answering your personal security question and password on myDEQ at 04:33 PM on 09/29/2021. At this time, you certified the summary information above by checking that you agreed to the following statement:

Certify your submission:

By checking this box I certify under penalty of law that this submittal was prepared by me, or under my direction or supervision of personnel appropriately qualified to properly gather and evaluate the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I understand that all information submitted to ADEQ is public record unless otherwise identified by law as confidential. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.