

Washington Department of Ecology

Electronic Submission Cover Letter



WQWebSubmittal - Submittal Submission Id: 1923026 - 4/1/2024 10:03:18 AM

Company Name	Signer Name	System Name
City of Des Moines	Tyler Beekley	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for City of Des Moines	Copy of Record CityofDesMoines Monday April 1 2024
WAR045511_78_03282024122418	2023 Des Moines Source Control_78_03282024122418
WAR045511_42_04012024093822	2023 IDDEs for WAR045511_42_04012024093822
WAR045511_2_03282024120453	2024 SWMP_2_03282024120453
WAR045511_25_03282024151341	Effectiveness Evaluation of an_25_03282024151341
WAR045511_21_03282024120605	S5.C.2.a.i General Awareness (_21_03282024120605
WAR045511_21_03282024151341	S5.C.2.a.i General Awareness (_21_03282024151341
WAR045511_26a_03282024120626	S5.C.2.a.iii Stewardship Oppor_26a_03282024120626
WAR045511_30a_03282024120919	S5.C.4.b.i Outfall Inventory_30a_03282024120919
WAR045511_77_03282024122418	S5.C.8.b.iii Summary of Action_77_03282024122418

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

For Ecology Use Only



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Water Quality Program

Permit Submittal Electronic Certification

Permittee: DES MOINES CITY

Permit Number: WAR045511

Site Address: 21630 11TH AVE S
DES MOINES, WA 98390

Submittal Name: MS4 Annual Report Phase II Western

Version: 2

Due Date: 3/31/2024

Questionnaire

Number	Permit Section	Question	Answer
1	S5.A	Attach a copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period per S9.D.6.	Not Applicable
2	S5.A	Attach updated annual Stormwater Management Program Plan (SWMP Plan). (S5.A.2)	2024 SWMP_2_03282024120 453
3	S5.A	Implemented an ongoing program to gather, track, and maintain information per S5.A.3, including costs or estimated costs of implementing the SWMP.	Yes
4	S5.A.5.b	Coordinated among departments within the jurisdiction to eliminate barriers to permit compliance. (S5.A.5.b)	Yes
5	S5.C.1.	Have you convened an interdisciplinary team to inform and assist in the development, progress, and influence of the comprehensive stormwater planning program? (S.5.c.1). August 1, 2020	Yes
14	S5.C.1.b	Did you submit a report as described in S5.C.1.b.i(b)? (Required to submit no later than January 1, 2023)	Yes
15	S5.C.1.c	Continue to design and implement local development-related codes, rules, standards, or other enforceable documents to minimize impervious surfaces, native vegetation loss, and stormwater runoff, where feasible? See S5.C.1.c.i. (Required annually)	Yes
16	S5.C.1.c	From the assessment described in S5.C.1.c.i (a), did you identify any administrative or regulatory barriers to implementation of LID Principles or LID BMPs? (Required annually)	No
20	S5.C.2	Did you choose to adopt one or more elements of a regional program? (S5.C.2)	Yes
20a	S5.C.2	If yes, list the elements, and the regional program.	Highline School District Stormfest, Puget Sound Starts Here Ad Campaign, BEA Environmental Regional Spill Kit Program

21	S5.C.2	Attach a description of general awareness efforts conducted, including your target audiences and subject areas, per S5.C.2.a.i.	S5.C.2.a.i General Awareness (_21_03282024151341
24	S5.C.2	Began implementing strategy outlined in S.5.C.2.a.ii(c) (S5.C.2.a.ii(d) – Required by April 1, 2021)	Yes
25	S5.C.2	Attach the report developed in accordance with S5.C.2.a.ii(e), which evaluated the changes in understanding and adoption of targeted behaviors resulting from the implementation of the strategy and any planned or recommended changes to the program in order to be more effective. (Required no later March 31, 2024)	Effectiveness Evaluation of an_25_0328202415134 1
26	S5.C.2	Promoted stewardship opportunities (or partnered with others) to encourage resident participation in activities such as those described in S5.C.2.a.iii.	Yes
26a	S5.C.2	Attach a list of stewardship opportunities provided.	S5.C.2.a.iii Stewardship Oppor_26a_03282024120626
27	S5.C.3.	Describe in Comments field the opportunities created for the public, including overburdened communities, to participate in the decision-making processes involving the development, implementation, and updates of the Permittee's SWMP and the SMAP. (S5.C.3.a)	Through the City website, a City-wide advertising campaign, and a city currents article that is sent to every Des Moines citizens, the public is invited to comment on the SWMP and provide comments in writing to City staff. Comments are then compiled and reviewed by the City's interdisciplinary team for consideration. Changes to the SWMP are then implemented by City staff, as applicable. Staff will create opportunities for the public to comment and be involved in the development of SMAP through similar methods.
28	S5.C.3.	Posted the updated SWMP Plan and latest annual report on your website no later than May 31. (S5.C.3.b)	Yes
28a	S5.C.3.	List the website address in Comments field.	https://www.desmoineswa.gov/departments/public_works/surface_water_management/water_quality_npdes
29	S5.C.4.	Maintained a map of the MS4 including the requirements listed in S5.C.4.a.i-vii?	Yes
30	S5.C.4.	Started mapping outfall size and material in accordance with S5.C.4.b.i? (Required no later than January 1, 2020)	Yes

30a	S5.C.4.	Attach a spreadsheet that lists the known outfalls' size and material(s).	S5.C.4.b.i Outfall Inventory_30a_03282024120919
31	S5.C.4.	Completed mapping connections to private storm sewers in accordance with S5.C.4.b.ii? (Required no later than August 1, 2023)	Yes
33	S5.C.5	Informed public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste? (S5.C.5.b)	Yes
33a	S5.C.5	Actions taken to inform public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste.	City Currents Newsletter (Public Employees, Businesses, (General Public); BEA Environmental Business Outreach (Businesses); Ongoing IDDE Training As- Needed (Public Employees)
34	S5.C.5	Implemented an ordinance or other regulatory mechanism to effectively prohibit non-stormwater, illicit discharges as described in S5.C.5.c.	Yes
35	S5.C.5	Implemented procedures for conducting illicit discharge investigations in accordance with S5.C.5.d.i.	Yes
35a	S5.C.5	Cite field screening methodology in Comments field.	Illicit Connection and Illicit Discharge Field Screening and Source Tracing Guidance Manual", Herrera Environmental Consultants, Inc. and Aspect Consulting, LLC. May 2020.
36	S5.C.5	Percentage of MS4 coverage area screened in the reporting year per S5.C.5.d.i. (Required to screen 12% on average each year.)	35
36a	S5.C.5	Cite field screening techniques used to determine percent of MS4 screened.	As a part of our normal catch basin inspection cycle, the City performs the Routine Maintenance Approach for field screening, per the 2020 Illicit Connection and Illicit Discharge Field Screening and Source Tracing Guidance Manual
37	S5.C.5	Percentage of total MS4 screened from permit effective date through the end of the reporting year. (S5.C.5.d.i.)	99

38	S5.C.5	Describe how you publicized a hotline telephone number for public reporting of spills and other illicit discharges in the Comments field. (S5.C.5.d.ii)	Posted the hotline telephone numbers on the City of Des Moines Website as well as on the back of the Des Moines spill response vehicle. https://www.desmoineswa.gov/departments/public_works/surface_water_management/what_is_a_pollutant
39	S5.C.5	Implemented an ongoing illicit discharge training program for all municipal field staff per S5.C.5.d.iii.	Yes
40	S5.C.5	Implemented an ongoing program to characterize, trace, and eliminate illicit discharges into the MS4 per S5.C.5.e.	Yes
41	S5.C.5	Municipal illicit discharge detection staff are trained to conduct illicit discharge detection and elimination activities as described in S5.C.5.f.	Yes
42	S5.C.5	Attach a report with data describing the actions taken to characterize, trace, and eliminate each illicit discharge reported to, or investigated by, the Permittee as described in S5.C.5.g. The submittal must include all of the applicable information and must follow the instructions, timelines, and format described in Appendix 12.	2023 IDDEs for WAR045511_42_04012 024093822
43	S5.C.6.	Implemented an ordinance or other enforceable mechanism to effectively address runoff from new development, redevelopment, and construction sites per the requirements of S5.C.6.b.i-iii.	Yes
45	S5.C.6.	Number of adjustments granted to the minimum requirements in Appendix 1. (S5.C.6.b.i. and Section 5 of Appendix 1)	0
46	S5.C.6.	Number of exceptions/variances granted to the minimum requirements in Appendix 1. (S5.C.6.b.i., and Section 6 of Appendix 1)	0
47	S5.C.6.	Reviewed Stormwater Site Plans for all proposed development activities that meet the thresholds adopted pursuant to S5.C.6.b.i. (S5.C.6.c.i)	Yes
47a	S5.C.6.	Number of site plans reviewed during the reporting period.	86
48	S5.C.6.	Inspected, prior to clearing and construction, permitted development sites per S5.C.6.c.ii, that have a high potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 7 – Determining Construction Site Sediment Damage Potential?	No
48a	S5.C.6.	If no, inspected, prior to clearing and construction, all construction sites meeting the minimum thresholds (S5.C.6.c.ii)?	Yes
49	S5.C.6.	Inspected permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls per S5.C.6.c.iii.	Yes

49a	S5.C.6.	Number of construction sites inspected per S5.C.6.c.iii.	66
49b	S5.C.6.	Inspected stormwater treatment and flow control BMPs/facilities and catch basins in new residential developments every 6 months per S5.C.6.c.iv?	Yes
50	S5.C.6.	Inspected all permitted development sites upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater facilities. (S5.C.6.c.v)	Yes
51	S5.C.6.	Verified a maintenance plan is completed and responsibility for maintenance is assigned for projects prior to final approval and occupancy being granted. (S5.C.6.c.v)	Yes
52	S5.C.6.	Number of enforcement actions taken during the reporting period (based on construction phase inspections at new development and redevelopment projects). (S5.C.6.c.ii-iv) (S5.C.7.c.viii)	17
53	S5.C.6.	Achieved at least 80% of scheduled construction-related inspections. (S5.C.6.c.vi)	Yes
54	S5.C.6.	Made Ecology's Notice of Intent for Construction Activity and Notice of Intent for Industrial Activity available to representatives of proposed new development and redevelopment? (S5.C.6.d)	Yes
55	S5.C.6.	All staff whose primary job duties are implementing the program to control stormwater runoff from new development, redevelopment, and construction sites including permitting, plan review, construction site inspections, and enforcement are trained to conduct these activities? (S5.C.6.e)	Yes
56	S5.C.7.	Implemented maintenance standards that are as protective, or more protective, of facility function than those specified in the Stormwater Management Manual for Western Washington or a Phase I program approved by Ecology per S5.C.7.a.?	Yes
58	S5.C.7.	Applied a maintenance standard for a facility or facilities which do not have maintenance standards specified in the Stormwater Management Manual for Western Washington? If so, note in the Comments field what kinds of facilities are covered by this alternative standard. (S5.C.7.a)	Yes
58a	S5.C.7.	Note what kinds of facilities are covered by this alternative standard. (S5.C.7.a)	Modular Wetlands and Bio-pods.
59	S5.C.7.	Verified that maintenance was performed per the schedule in S5.C.7.a.ii when an inspection identified an exceedance of the maintenance standard.	Yes
59a	S5.C.7.	Attach documentation of maintenance time frame exceedances that were beyond the Permittee's control.	Not Applicable

60	S5.C.7.	Implemented an ordinance or other enforceable mechanisms to verify long-term operation and maintenance of stormwater treatment and flow control BMPs/facilities regulated by the permittee per (S5.C.7.b.i (a))?	Yes
61	S5.C.7.	Annually inspected stormwater treatment and flow control BMPs/facilities regulated by the Permittee per S5.C.7.b.i(b)	Yes
61a	S5.C.7.	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.7.b.i (b)	Not Applicable
62	S5.C.7.	Achieved at least 80% of scheduled inspections to verify adequate long-term O&M. (S5.C.7.b.ii)	Yes
63	S5.C.7.	Annually inspected all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities. (S5.C.7.c.i)	Yes
63a	S5.C.7.	Number of known municipally owned or operated stormwater treatment and flow control BMPs/facilities. (S5.C.7.c.i)	241
63b	S5.C.7.	Number of facilities inspected during the reporting period.	241
63c	S5.C.7.	Number of facilities for which maintenance was performed during the reporting period.	21
64	S5.C.7.	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.7.c.i.	Not Applicable
65	S5.C.7.	Conducted spot checks and inspections (if necessary) of potentially damaged stormwater facilities after major storms as per S5.C.7.c.ii.	Yes
66	S5.C.7.	Inspected municipally owned or operated catch basins and inlets every two years or used an alternative approach? Cleaned as needed? (S.5.C.7.c.iii)	Yes
66a	S5.C.7.	Number of known catch basins?	5068
66b	S5.C.7.	Number of catch basins inspected during the reporting period?	1778
66c	S5.C.7.	Number of catch basins cleaned during the reporting period?	454
67	S5.C.7.	Attach documentation of alternative catch basin cleaning approach, if used. (S5.C.7.c.iii.(a)-(c))	Not Applicable
68	S5.C.7.	Implemented practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the Permittee, and road maintenance activities under the functional control of the Permittee. (S5.C.7.d)	Yes
70	S5.C.7.	Implemented an ongoing training program for Permittee employees whose primary construction, operations or maintenance job functions may impact stormwater quality. (S5.C.7.e)	Yes

71	S5.C.7.	Implemented a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee in areas subject to this Permit that are not required to have coverage under an NPDES permit that covers stormwater discharges associated with the activity. (S5.C.7.f)	Yes
74	S5.C.8	Established an inventory per S5.C.8.b.ii. (Required by August 1, 2022.)	Yes
74a	S5.C.8	Number of total sites identified for the inventory.	224
75	S5.C.8	Implemented an inspection program S5.C.8.b.iii (Required by January 1, 2023).	Yes
76	S5.C.8	Implemented a progressive enforcement policy per S5.C.8.b.iv (Required by January 1, 2023).	Yes
77	S5.C.8	Attach a summary of actions taken to implement the source control program per S5.C.8.b.iii and S5.C.8.b.iv.	S5.C.8.b.iii Summary of Action_77_0328202412 2418
78	S5.C.8	Attach a list of inspections, per S5.C.8.b.iii, organized by the business category, noting the amount of times each business was inspected, and if enforcement actions were taken.	2023 Des Moines Source Control_78_032820241 22418
79	S5.C.8	Implemented an ongoing source control training program per S5.C.8.b.v?	Yes
80	S7	Complied with the Total Maximum Daily Load (TMDL)-specific requirements identified in Appendix 2. (S7.A)	Not Applicable
81	S7	For TMDLs listed in Appendix 2: Attach a summary of relevant SWMP and Appendix 2 activities to address the applicable TMDL parameter(s). (S7.A)	Not Applicable
82	S8	Submitted payment for cost-sharing for Stormwater Action Monitoring (SAM) status and trends monitoring no later than December 1, 2019 (S8.A.1); and no later than August 15 of each subsequent year? (S8.A.2.a.)	Yes
84	S8	Submitted payment for cost-sharing for SAM effectiveness and source identification studies no later than December 1, 2019 (S8.B.1); and no later than August 15 of each subsequent year (S8.B.2.a or S8.B.2.c)?	Yes
87	S8	If conducting stormwater discharge monitoring in accordance with S8.C.1, attach a data and analysis report per S8.C.1. and Appendix 9. (Due annually beginning March 31, 2021.)	Not Applicable
88	G3	Notified Ecology in accordance with G3 of any discharge into or from the Permittees MS4 which could constitute a threat to human health, welfare or the environment. (G3)	Yes
89	G3	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A.	Yes

90	Compliance with standards	Notified Ecology within 30 days of becoming aware that a discharge from the Permittee's MS4 caused or contributed to a known or likely violation of water quality standards in the receiving water. (S4.F.1)	Yes
91	Compliance with standards	If requested, submitted an Adaptive Management Response report in accordance with S4.F.3.a.	Not Applicable
92	Compliance with standards	Attach a summary of the status of implementation of any actions taken pursuant to S4.F.3 and the status of any monitoring, assessment, or evaluation efforts conducted during the reporting period. (S4.F.3.d)	Not Applicable
93	G20	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	Not Applicable
94	G20	Number of non-compliance notifications (G20) provided in reporting year. List permit conditions described in non-compliance notification(s) in Comments field.	Not Applicable

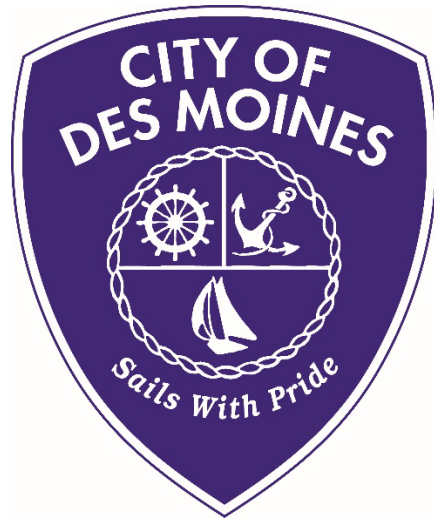
I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering 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.

Tyler Beekley

4/1/2024 10:03:16 AM

Signature

Date



2024 Stormwater Management Program (SWMP) Plan



**City of Des Moines
Surface Water Management
21650 11th Ave S
Des Moines, WA 9198**

March 31, 2024

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Introduction:

This document has been prepared to meet the City of Des Moines' Western Washington Phase II Municipal Stormwater Permit requirement for written documentation of the City's Stormwater Management Program (SWMP).

The City's SWMP is intended to reduce the discharge of pollutants from the City's Municipal Separate Storm Sewer System (MS4) to the maximum extent practicable (MEP), meet Washington State, All Known, Available and Reasonable methods of Treatment (AKART) requirements, and protect water quality. This goal will be accomplished by the inclusion of all permit SWMP components and implementation schedules into the City's existing SWMP.

Where the City is already implementing components called for in this permit, the City will continue those actions or activities to the existing extent required, regardless of the schedule called for in this document.

The City will implement an ongoing program for the gathering, tracking, maintaining, and using information to evaluate the SWMP development, implementation, permit compliance, and for setting priorities. This document will be updated annually for submittal with the City's Annual Report to Ecology.

This document will reflect the City's plans for the updated compliance requirements with the 2019-2024 and the 2024-2029 Permit, as issued by Ecology for the calendar year 2024.

1: SWMP MANAGEMENT AND ADMINISTRATION

The City plans to fully comply with the management and administration requirements as described in Section S5.A of the Permit. These requirements include, but are not limited to:

- Develop and implement the SWMP
- Annually update the SWMP Plan
- Track costs or estimated costs for implementing the SWMP
- Track inspection, enforcement, and public education activities
- Continue to implement existing programs
- Coordination among Permittees

The City has implemented many mechanisms to increase the efficiency and effectiveness of how to communicate the permit requirements between departments. These mechanisms range from employee-designated duties, tracking software, internal meetings, and open communication lines. Below is a list and description of these specific mechanisms that will be in place for 2024:

- NPDES Coordinator Position
 - The establishment of this position creates a role in which a single person is communicating the requirements of the NPDES permit to the proper individuals and their respective duties. A single coordinator removes the possibility of unnecessary overlap of communication and also can ensure that each department knows the point of contact for any questions regarding their NPDES compliance responsibilities.
- Training Requirements
 - All individuals who are responsible for fulfilling a portion of the NPDES compliance terms are trained to perform their responsibilities. Training ensures that individuals from any department are completing their work to the specifications of the permit.
- CityWorks
 - CityWorks is a work order and inspection program that uses GIS to help track specific assets. This program helps eliminate barriers between the Surface Water Management Engineering Division and the Public Works field staff by providing an online platform for tracking and sharing information. CityWorks is used to track inspections for IDDE & operations and maintenance.

- Internal Meetings
 - Meetings are commonly scheduled to discuss the current status of the compliance programs. These meetings help keep everyone on the same page and up to date with the permit requirements.
 - Interdisciplinary Team Meetings are now included in this category as required per S.5.C.1.
- PermitTrax
 - PermitTrax is an online program used by the Planning, Building, and Public Works Departments for permit review and inspection tracking. In regards to the NPDES permit, the program is used to track erosion and sediment control (ESC) & drainage inspections. The open access of this program eliminates barriers between departments.

2: STORMWATER PLANNING

2.1 Permit Requirements

The Permit (Section S5.C.1) requires the City to:

- Implement a Stormwater Planning program to inform and assist in the development of policies and strategies as water quality management tools to protect receiving waters.
- On or before August 1, 2020, the Permittee shall convene an interdisciplinary team to inform and assist in the development, progress, and influence of the program.
- On or before March 31, 2021, the Permittee shall describe how water quality and watershed protection were addressed during the 2013-2019 Permit Cycle in updates to the Comprehensive Plan and in other locally initiated or state-mandate long-range land use plans that are used to accommodate growth or transportation.
- On or before January 1, 2023, the Permittee shall submit a report that describes how water quality is being addressed, if at all, during this permit term in updates to the Comprehensive Plan and in other locally initiated or state-mandated, long-range land use plans that are used to accommodate growth or transportation.
- Permittees shall continue to require LID Principles and LID BMPs when updating, revising, and developing new local development-related codes, rules, standards, or other enforceable documents, as needed.
- Permittees shall implement a process of Stormwater Management Action Planning, which includes a Receiving Water Assessment (By March 31, 2022), a Receiving Water Prioritization (By June 30, 2022), and a Stormwater Management Action Plan (SMAP) (By March 31, 2023) for at least one high priority area.

2.2 2024 Planned Activities

- Inter-disciplinary Team (S5.C.1.a)
This 2020 requirement has been fulfilled and the inter-disciplinary team will continue convening in 2024.
- Coordination with Long-Range Plans Update (S5.C.1.b)
The City contracted with a consultant, Parametrix, to provide two reports. The first described how the City used stormwater management needs and protection/improvement of receiving water health to inform the planning update processes and influence policies and implementation strategies during the 2013-2019 permit term. This report was completed in 2021. The second described how water quality is being addressed during this permit term (2019-2024) in updates to the Comprehensive Plan. This report was completed in 2022.
- Low Impact Development Code-Enforcement (S5.C.1.c)
The City will continue to require LID Principles and LID BMPs when updating, revising, and developing new local development-related codes, rules, standards, or other enforceable documents, as needed. In 2024, the City will assess and document any newly identified administrative or regulatory barriers to the implementation of LID Principles or LID BMPs since local codes were updated under the 2013 Permit.
- Stormwater Management Action Planning (SMAP) (S5.C.1.d)
The City completed a final Stormwater Management Action Plan (SMAP) for the Barnes and Lower Massey Catchment area in 2023. In 2024, short-term actions identified in the SMAP will be prioritized for continued implementation.
 - Facility Retrofits: In 2024, grant funding for these projects will be pursued.
 - Land Management: In 2024, the City will begin the study of potential opportunities that will lead to the protection, restoration, or expansion of trees/forested areas.
 - Stormwater Management: In 2024, the City will continue to emphasize the SMAP catchment area with targeted source control inspections and enhanced outfall screening for IDDE and maintenance.

3: PUBLIC EDUCATION AND OUTREACH

3.1 Permit Requirements

The Permit (Section S5.C.2) requires the City to:

- Implement an education and outreach program for the City. The program shall be designed to educate a target audience about the stormwater problems and provide specific actions they can follow to minimize the problems.
- On or before July 1, 2020, the Permittee shall conduct an evaluation of the effectiveness of an ongoing behavior change campaign and document lessons learned and recommendation for a social marketing campaign.
- On or before February 1, 2021, the Permittee shall develop a campaign using social marketing practices that is tailored to the community.
- On or before April 1, 2021, the Permittee shall begin to implement the strategy developed.
- On or before March 31, 2024, the Permittee shall evaluate the changes in understanding and adoption of targeted behaviors resulting from the implementation of the strategy and report on any planned or recommended changes to the campaign in order to be more effective.
- Create stewardship opportunities and/or partner with existing organizations to encourage residents to participate in activities that address the impacts from stormwater runoff.

3.2 2024 Planned Activities

- General Awareness (S5.C.2.a.i):

In 2024 the City plans to maintain the existing public education and outreach programs below that target the general public for the general impacts of stormwater:

- Distribution of education materials through various forms of media including, but not limited to, the City's website (www.desmoineswa.gov), quarterly citywide newsletters, municipal code, televised council meetings, and handout materials. Educational materials include information on septic system maintenance, oil leak inspection, preservation of plants and trees adjacent to streams and wetlands, pet control and waste disposal, pesticide and lawn fertilizer reduction, car washing BMPs, general stormwater education, volunteer opportunities, household BMPs, business BMPs, hazardous waste disposal, public comment opportunities, and many other topics.

- In 2024, the City will continue its involvement with the Highline Stormfest event for 6th graders in the Highline School District. This will be an in person event on June 4, 5, and 6 at the Des Moines Beach Park. At StormFest, students rotate through five hands-on education stations to learn about their local watersheds, the animals that live in them, sources of pollution, and engineering solutions to prevent stormwater pollution. This event engages teachers, families, community members, local government staff, and educational nonprofits.
- The City will look for opportunities at local farmer’s markets to visit and engage with the community, providing educational materials to citizens, and answering questions related to stormwater.
- Evaluate Effectiveness of Ongoing Behavior Change (S5.C.2.a.ii)
 - In June 2020 the City decided to select option #1 in S5.C.2.a.ii.c and will develop a strategy and schedule to more effectively implement the existing campaign. The City will meet this requirement by combining the Dumpster Lid Social Marketing Campaign into the City’s existing spill kit program which will be supported by the efforts of BEA Environmental.
 - In 2024, the City of Des Moines will continue its partnership with BEA Environmental for the Puget Sound Spill Kit Program, extending support to 15 businesses by offering complimentary spill kits, comprehensive training, and educational resources on stormwater Best Management Practices (BMPs). This collaborative effort aims to enhance public consciousness and foster positive behavioral shifts. Following the initial visits, 15 previously engaged businesses will undergo post-survey assessments to gauge the effectiveness of the program. BEA Environmental will supply the City with quantifiable data regarding behavioral changes through a series of survey questions administered during both pre- and post-visit evaluations.
 - To affect positive behavior change, the City implemented a behavior change campaign using social marketing practices and methods with the goal of keeping dumpster lids shut. The City chooses to target businesses as the audience for this campaign. This campaign is a new regional effort between numerous jurisdictions in the greater Puget Sound area to improve water quality through improved dumpster etiquette at businesses. The following BMPs will be addressed in the behavior change program:
 - Dumpster and trash compactor maintenance

Through this campaign, there are a few secondary BMPs that will be addressed through the behavior of keeping dumpster lids closed:

- Prevention of illicit discharges
 - Litter and debris prevention.
- In 2024, BEA Environmental will be visiting 40 businesses to conduct source control inspections and assist with the dumpster outreach program by providing the business owners with ‘Shut it’ labels to be placed on each dumpster. City employees will follow up with each business to document behavior change.
- Stewardship (S5.C.2.a.iii):
 - The volunteer storm drain marking program will continue in 2024 and act as the primary stewardship program in the City. This program is advertised intermittently as needed in the quarterly citywide newsletter, the “City Currents. City staff will look to add extra volunteer opportunities to this program where citizens will be able to assist the city with an audit of previously marked basins in case markings need to be replaced.
 - In 2024, the City is planning to continue its Car Wash Kit program. Community car wash events are encouraged to use a “Car Wash Kit” available to check out from the City’s Public Works Department free of charge.
 - In 2024, Des Moines is launching the Adopt a Drain program, inviting residents to take charge of maintaining storm drains in their neighborhoods. This initiative aims to prevent blockages, remove trash/debris, and reduce flood risks through community engagement and regular drain upkeep.

4: PUBLIC INVOLVEMENT AND PARTICIPATION

4.1 Permit Requirements

The Permit (Section S5.C.3) requires the City to:

- Provide ongoing opportunities for public involvement and participation through advisory councils, public hearings, watershed committees, and participating in developing rate-structures or other similar activities. The Permittee shall comply with applicable state and local public notice requirements when developing elements of the SWMP.
- Create opportunities for the public to participate in the decision-making processes involving the development, implementation and update of the City’s SWMP.
- On or before May 31st each year, the Permittee shall post on its website the updated SWMP Plan and the annual report. All other submittals shall be available to the public upon request.

4.2 2024 Planned Actions

- Opportunities for Public Participation (S5.C.3.a)

The City will continue to provide opportunities for public comment/input on the SWMP Plan. The SWMP Plan will be posted to the website for comments to be submitted.

- Availability of Documents (S5.C.3.b)

In 2024, the annual report for this permit which is due March 31st and the SWMP Plan will be posted on the City website (www.desmoineswa.gov) no later than May 31st.

5: MS4 MAPPING AND DOCUMENTATION

5.1 Permit Requirements

The Permit (Section S5.C.4) requires the City to:

- Maintain mapping data for: known MS4 outfalls and discharge points, receiving waters, stormwater treatment and flow control BMPs, geographic areas served by the Permittee's MS4 that do not discharge to surface waters, tributary conveyances to all known outfalls with a 24" nominal diameter or larger, connections between the MS4 and other municipalities or public entities, and all connections to the MS4 authorized or allowed by the Permittee after February 16, 2007.
- On or before January 1, 2020, the Permittee shall begin to collect the size and material for all known MS4 outfalls and update records.
- On or before August 1, 2023, the Permittee shall complete mapping of all known connections from the MS4 to a privately owned stormwater system.
- On or before August 1, 2021, the Permittee shall maintain all mapping data electronically.

5.2 2024 Planned Actions

- Ongoing Mapping (C5.4.a):

In 2024, the City will continue its ongoing GIS mapping of the MS4. The Stormwater field staff, who complete catch basin inspections will continue to highlight discrepancies between the map and the physical asset in the field. In addition, City staff are conducting an audit of mapped basins to confirm the connecting pipe material types and sizes are accurately inputted.

- New Mapping (C5.4.b):
 - The City has completed collecting the size of all known outfalls meeting the January 1, 2020 deadline.
 - All known connections from the MS4 to a privately owned stormwater system were mapped by the August 1, 2023 deadline.
 - The City currently maintains all MS4 mapping data electronically and is available at this web address:
<https://maps.desmoineswa.gov/swm/>
 - City staff will continue to confirm that all data is in a format that is accessible for review and use by relevant parties as requested.

6: Illicit Discharge Detection and Elimination (IDDE)

6.1 Permit Requirements

The Permit (Section S5.C.5) requires the City to:

- Implement an ordinance or other regulatory mechanism to effectively prohibit non-stormwater illicit discharges into the MS4 to the maximum extent allowable under state and federal law.
- Implement procedures for reporting and correcting or removing illicit connections, spill and other illicit discharges when they are suspected or identified.
- Inform public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste.
- Implement an ongoing program designed to detect and identify non-stormwater discharges and illicit connections into the Permittee's MS4.
- Document IDDE Field Screening Methodology in the Annual Report.
- Train staff that are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills and connections. Follow-up training shall be provided as needed to address changes in procedures, techniques, requirements or staffing. Records shall be maintained that document training provided and staff trained.
- Track and maintain records of all activities conducted to meet the requirements of this section.

6.2 2024 Planned Actions

- IDDE Reporting & Correcting (S5.C.5.a):
 - The City will continue to use the procedures currently in place for reporting and correcting or removing illicit connections, spills, and other illicit discharges when they are suspected or identified.

- IDDE Public Awareness & Notification (S5.C.5.b):
 - The City will continue to inform public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste. Public employee training is accomplished through intermittent, typically annual, viewing of the video “IDDE- A Grate Concern”. The City encourages citizens to call the Public Works Department at 206-870-6523; police department non-emergency number at 206-878-3301 to report illicit discharges and spills. These phone numbers are publicly listed on the City website and through various other means of outreach.
- IDDE Ordinance (S5.C.5.c):
 - Existing Codes will be maintained with no planned changes in 2024. The City adopted an IDDE Ordinance in compliance with the permit requirement, effective September 12, 2009. This ordinance is codified as Chapter 11.20 of the Des Moines Municipal Code.
- Ongoing IDD&E Action Program (S5.C.5.d):
 - In 2024 the City plans to maintain the existing IDDE programs below:
 - IDDE Field Screening: In November 2020, the City updated their field screening methodology for illicit connections using “*The Illicit Connection and Illicit Discharge Field Screening and Source Tracing Guidance Manual*”, Herrera Environmental Consultants, May 2020. This field screening methodology will be documented in the Annual Report. The City has developed a program to meet the field screening requirements, at least 12% of the MS4 will be screened in 2024. The methodology of catch basin/manhole inspections with the routine maintenance approach will be utilized to complete this requirement.
 - In 2024, the City will maintain the ongoing IDDE Action Program. The City is currently using IDDE procedures from the “Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments” to characterize the nature and environmental threat posed by illicit discharges and also to trace the source of illicit discharges. Procedures for eliminating the source of discharges are currently being developed. When the City or the investigations agency determines surface water quality pollution has occurred, a notice is sent to the property owner stating the problem shall be remedied within a time frame listed in our code. The cleanup and enforcement depend on the severity of the spill.

- Training (S5.C.5.f):
 - The City’s NPDES Coordinator is the lead for identification, investigation, termination, cleanup, and reporting illicit discharges; including spills, improper disposal and illicit connections. IDDE training is currently accomplished through the EXCAL VISUAL training video “IDDE: a grate concern”. The City will continue to implement IDDE training as needed in 2024. Follow-up training will be provided as needed to address changes in procedures, techniques or requirements. All training records (including course information and the staff training) will be documented and maintained in Microsoft Excel. Stormwater staff meetings, which include engineering and maintenance staff, are conducted on a bi-weekly basis to discuss projects and share feedback.

- Recordkeeping (S5.C.5.g):
 - The City will track and maintain records of the activities conducted to meet the requirements of this section. City staff will continue to evaluate and improve the IDDE program based on experience, lessons learned, and feedback from public education efforts. The Cityworks asset management program is used as the primary record keeping platform for spill response. In addition, the City utilizes the Department of Ecology’s Water Quality Permitting Portal (WQWebPortal) to streamline annual reporting requirements for spill response. Microsoft Excel is used as the primary record-keeping platform for training records.

7: CONTROLLING RUNOFF FROM NEW DEVELOPMENT, REDEVELOPMENT AND CONSTRUCTION SITES

7.1 Permit Requirements

The Permit (Section S5.C.6) requires the City to:

- On or before June 30, 2022, the Permittee shall implement and enforce a program to reduce pollutants in stormwater runoff to a regulated MS4 from new development, redevelopment and construction site activities. The program shall apply to both private and public development, including transportation projects.
- This program shall include a permitting process with site plan review, inspection and enforcement capable of meeting the standards listed in S5.C.6.c.(i)-(iv) For both private and public projects. At a minimum, this program shall be applied to all sites that meet the minimum thresholds adopted pursuant to S5.C.6.b.i.

- The program shall make available, as applicable, a link to the electronic Construction Stormwater General Permit Notice of Intent (NOI) form for construction activity, and a link to the electronic Industrial Stormwater General Permit NOI form for industrial activity to representatives of proposed new development and redevelopment.
- The Permittee shall ensure that all staff whose primary job duties fall within this section are trained to conduct these activities. Follow-up training shall be provided as needed to address changes in procedures, techniques, or staffing. Permittees shall document and maintain records of the training provided and the staff trained.

7.2 2024 Planned Actions

- Ordinance (S5.C.6.b.iii):
The City will maintain the existing program designed to reduce pollutants in stormwater runoff to the MS4 from new development, redevelopment, and construction site activities. The City adopted the 2021 King County Surface Water Design Manual (KCSWDM) as the Surface Water Design Manual for the City of Des Moines: DMMC 16.10.350.
- Local Program for New Development (S5.C.6.c):
 - The City will maintain the existing permitting process with plan review, inspection, and enforcement capability to meet the standards listed in (i) through (viii), in the permit under section S5.C.6.c, for both private and public projects, using qualified personnel.
 - The City will continue to conduct all construction-related inspections that deal with drainage improvements and erosion control within the City.
- Long-term Operation and Maintenance (S5.C.6.c.iv):
The City will maintain the existing program to ensure inspection and maintenance of private facilities in new residential developments are being performed.
- Availability of NOIs (S5.C.6.d):
The City's Community Development Department will continue to make available copies of the "Notice of Intent for Construction Activity" and copies of the "Notice of Intent for Industrial Activity" to representatives of the proposed new development and redevelopment. The City enforces local ordinances controlling runoff from sites that are also covered by stormwater permits issued by Ecology. The City will continue to provide copies of the NOI upon request. The electronic forms for both the Construction Stormwater General Permit NOI & the Industrial Stormwater General Permit are available on the City website

at the following link:

https://desmoineswa.gov/departments/public_works/surface_water_management/water_quality_npdes

- Training (S5.C.6.e):
The existing training program per S5.C.6.e will be maintained. Trainings will be conducted in house and by other agencies, such as the Department of Ecology and the Washington Stormwater Center.

8: MUNICIPAL OPERATIONS AND MAINTENANCE

8.1 Permit Requirements

The Permit (Section S5.C.7) requires the City to:

- Implement maintenance standards that are as protective, or more protective, of facility function than those specified in Chapter 4 of Volume V of the SWMMWW.
- Perform annual inspections of all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities, and take appropriate maintenance actions in accordance with the adopted maintenance standards.
- Conduct spot checks of potentially damaged permanent treatment and flow control BMPs/facilities (other than catch basins) after major storm events (greater than 10-year, 24-hour recurrence interval). If spot checks indicate widespread damage/maintenance needs, inspect all stormwater treatment and flow control BMPs/facilities that may be affected. Conduct repairs or take appropriate maintenance action in accordance with maintenance standards.
- Inspect all catch basins and inlets owned or operated by the Permittee every two years. Clean catch basins if the inspection indicates cleaning is needed to comply with maintenance standards established in the SWMMWW. Decant water shall be disposed of in accordance with Appendix 6 – Street Waste Disposal.
- Implement practices, policies and procedures to reduce stormwater impacts associated with runoff from all land owned or maintained by the City, and road maintenance activities under the functional control of the City.
- Implement an ongoing training program for employees of the City whose construction, operations or maintenance job functions may impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques, requirements, or staffing. The Permittee shall document and maintain records of training provided and staff trained.

- Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the City in areas subject to this Permit that are not required to have coverage under an Industrial Stormwater General Permit.
- Maintain records of inspections and maintenance or repair activities conducted by the City.

8.2 2024 Planned Actions

- Maintenance Standards (S5.C.7.a):
Existing maintenance standards will remain established in 2024. The City has adopted the 2021 King County Surface Water Design Manual (KCSWDM) for maintenance standards for all stormwater facilities: DMMC 16.10.350.
- Maintenance of Stormwater Facilities regulated by the Permittee (S5.C.7.b):
The City will continue to inspect and require timely maintenance of stormwater treatment and flow control BMPs/facilities that fall under this permit section.
- Maintenance of Stormwater Facilities owned by the Permittee (S5.C.7.c):
The City plans to maintain its ongoing program for annual inspection and maintenance of municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities. No changes or additions will be made to the post-storm inspection program in 2024. The City plans to inspect half of all known catch basins and inlets owned by the City in 2024. City crews are inspecting with iPads in the field and scheduling required maintenance as needed. They will also be checking for evidence of illicit discharges or illicit connections during regular inspections. The City will continue to use its asset management program, Cityworks, to track inspections associated with this section of the permit.
- Reducing Stormwater Impacts (S5.C.7.d):
The City will continue to use the adopted King County Site Management Plan as the City's practices, policies, and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the City.
- Training (S5.C.7.e):
Training under this section will continue on an as-needed basis.
- Stormwater Pollution Prevention Plan (SWPPP) (S5.C.7.f):
The City's Public Works Department developed and implemented a Stormwater Pollution Plan (SWPPP) for all heavy equipment maintenance

or storage yards, and material storage facilities owned or operated by the City. The SWPPP includes periodic visual observation of discharges from the facility to evaluate the effectiveness of BMPs. The City will continue to implement this plan during 2024.

- Recordkeeping (S5.C.7.g):
No changes to the existing record-keeping program will be made in 2024.

9: SOURCE CONTROL PROGRAM FOR EXISTING DEVELOPMENT

9.1 Permit Requirements

The Permit (Section S5.C.8) requires the City to:

- Implement a program to prevent and reduce pollutants in runoff from areas that discharge to the MS4 which includes: application of operation source control BMPs, structural source control BMPs or treatment BMPs/facilities, inspections of pollutant generating sources at publicly or privately owned institutional, commercial and industrial sites, application and enforcement of local ordinances, and practices that reduce polluted runoff from the application of pesticides, herbicides and fertilizers.
- On or before August 1, 2022, adopt ordinances or other enforceable items requiring the application of source control BMPs for pollutant-generating sources associated with existing land uses and activities.
- On or before August 1, 2022, establish an inventory that identifies publicly and privately owned commercial and industrial properties that have the potential to generate pollutants to the City's MS4.
- On or before January 1, 2023, implement an inspection program for the sites identified above that inspects 20% of listed sites annually and 100% of sites identified through legitimate complaints.
- On or before January 1, 2023, implement a progressive enforcement policy that requires sites to comply with stormwater requirements within a reasonable time period.
- Train staff who are responsible for implementing the source control program to conduct these activities. Follow-up training shall be provided as needed to address changes in procedures, techniques, requirements, or staff.
- Maintain records of training provided and the staff trained.

9.2 2024 Planned Actions

- Conduct Inspections to Prevent & Reduce Pollutants (S5.C.8.a)
 - The City will continue using BEA Environmental for business outreach, education, and preparedness for the upcoming business inspection requirement in 2024. BEA will be conducting 40 Source Control Inspections while providing in-field training to municipal staff, as well as the subsequent technical assistance visits to reduce contaminated stormwater runoff from businesses located in the City of Des Moines. Additionally, City staff have created a business list to track all businesses that are potential sources of pollutants, per Appendix 8, which will be updated as more businesses submit for licenses.

- Ordinance (S5.C.8.b.i)
 - The City has authority to establish a Source Control Program under DMMC 11.20.070 and 11.20.070– Requirements to prevent, control, and reduce stormwater contamination by use of BMPs. BEA Environmental has been contracted by the City and will be conducting 40 inspections at potential pollution-generating businesses in 2024.

- Site Inventory (S5.C.8.b.ii)
 - City staff have compiled an inventory of all potential pollution-generating sites within the City based on business activities listed in Appendix 8 and based on complaints for home-based businesses and multi-family sites.

- Source Control Inspection Program (S5.C.8.b.iii)
 - City staff has contracted BEA Environmental to conduct the source control inspection program. The City has identified 40 potential pollution-generating businesses that will be reached out to in 2024.

- Progressive Enforcement Policy (S5.C.8.b.iv)
 - An existing ordinance with the City, codified as DMMC 11.20.090 – Violations and enforcement, satisfies the requirement for a progressive enforcement policy.

- Training (S5.C.8.b.v)
 - City staff will participate and receive in-field training from BEA Environmental as source control inspections begin in 2024. In addition, city staff attended an in-person training where they learned critical items related to developing a business/site inspection program.

10: MONITORING AND ASSESSMENT (Section S8)

- Reporting:
The City will provide any monitoring or stormwater-related studies conducted by the City during the reporting period in the annual report.
- Regional Status and Trends Monitoring:
The City will continue to support RSMP small streams and marine nearshore status and trends monitoring in Puget Sound through the annual contribution to the collective fund with Ecology.
- SWMP Effectiveness and Source Identification Studies:
The City will continue to support RSMP effectiveness studies through the annual contribution to the collective fund with Ecology.

11: REPORTING REQUIREMENTS

- No later than March 31st of 2024, the City will submit an annual report. The reporting period for the annual report will be from January 1, 2023 through December 31, 2023. The City will submit annual reports electronically using Ecology's WQWebDMR.
- The City will continue to keep all records related to the Permit and the SWMP for at least five years.
- The City will continue to make all records related to the Permit and the City's SWMP available to the public at reasonable times during business hours. The City will provide a copy of the most recent annual report to any individual or entity, upon request.
- The 2023 annual report for the City will include the following.
 1. A copy of the City's current SWMP Plan as required by S5A.2.
 2. Submittal of the annual report form as provided by Ecology pursuant to S9.A, describing the status of implementation of the requirements of the permit during the reporting period.
 3. Attachments to the annual report form including summaries, descriptions, reports, and other information as required, or as applicable, to meet the requirements of this permit during the reporting period. Refer to appendix 3 for annual report questions.
 4. If applicable, notice that the MS4 is relying on another governmental entity to satisfy any of the obligations under this permit.
 5. Certification and signature pursuant to G19D, and notification of any changes to authorization pursuant to G19.C.

6. A notification of any annexations, incorporations or jurisdictional boundary changes resulting in an increase or decrease in the City's geographical area of permit coverage during the reporting period.

City of Des Moines - WAR045511

2023 Annual NPDES Report

Annual Report Question 21:

Attach a description of general awareness efforts conducted, including your target audiences and subject areas per S5.C.2.a.i.

Answer:

Over the course of 2023 the City of Des Moines has continued implementing public education and outreach programs related to general awareness. The City has continued to develop and expand on the ways that general public awareness can be reached and also how additional behavior changes can be effected. The following list describes the city's efforts that were conducted throughout the 2023 year:

Highline Stormfest

Target Audience: General Public – School age children

Subject Areas: General impacts of stormwater, low impact development principles, and BMPs

This is an ongoing program that is designed to serve each year's 6th graders class. During 2023, Stormfest returned in-person to the Beach Park of Des Moines where 1200 Highline School District students participated in interactive stormwater and watershed science activities. After the three day event, each student was given pre and post surveys to measure understanding and behavior change.

Stormfest is a coordinated effort between the municipalities in the Highline School District, including City of Burien, City of Des Moines, City of Normandy Park, City of SeaTac, and King County. Due to the highly diverse Highline population, the Stormfest Committee made a dedicated effort to create inquiry based curriculum through an equity lens. All efforts were made to create an inclusive learning environment, including the provision of buses, interpreters, and translated materials.





City Currents Newsletter

Target Audience: General Public and Businesses

Subject Areas: General impacts of stormwater

The City of Des Moines has a quarterly newsletter that is mailed to approximately 32,000 residents and businesses within the City of Des Moines. Below are the articles that were submitted and intended to create general awareness, behavior change, and promote stewardship activities.

- Spring 2023 – Public comment on SWMP
- Summer 2023 – Storm Drain Marking Volunteer
- Fall 2023 – General Household Pollution Prevention
- Winter 2023 – Stormfest Overview and IDDE Awareness

BEA Environmental Business Outreach

Target Audience: Businesses

Subject Areas: General impacts of stormwater

The City has partnered with BEA Environmental to help educate, train, and deliver free spill kits to businesses in the City of Des Moines.

In 2023, 40 businesses were identified and served through these approaches. Of those businesses served during this period, 13 businesses received spill kits and 13 post-service surveys were conducted.



City of Des Moines - WAR045511

2023 Annual NPDES Report

Annual Report Question 26:

Promoted stewardship opportunities (or partnered with others) to encourage resident participation in activities such as those described in S5.C.2.a.iii.

Answer: Yes

Annual Report Question 26a:

Attach a list of stewardship opportunities provided.

Answer:

- Storm Drain Marker Program

During 2022, one (1) new stormdrain marker kit was checked out. In total, approximately 200 storm drains were reported as marked, and several other stormdrain marker kits remained outstanding from the previous year for groups/individuals. This program allows volunteers to learn more about the importance of stormwater and also provides an informational marker located next to stormdrains which also adds to general awareness. These markers can lead to behavior change in the prevention of illicit discharges.



- Car Wash Kit Program:

The City has continued its carwash kit program in 2023 to educate the public on the environmental impacts and benefits of using car wash kits on the city's waterways and the Puget Sound. The City's Car Wash Kit Program had 6 kits checked out during the 2023 calendar year. The Car Wash Kit helps to prevent pollutants such as petroleum products, pesticides and animal waste, from being discharged into Puget Sound.



City of Des Moines - WAR045511

2023 Annual NPDES Report

Annual Report Question 30a - Attach a spreadsheet that lists the known outfalls' size and material(s).

AssetID	Diameter (inches)	Pipe Material
DP00000006	12"	Smooth PVC
DP00000010	12"	Smooth PVC
DP00000017	12"	Smooth PVC
DP00000035	12"	Smooth PVC
DP00000049	12"	Smooth PVC
DP00000057	12"	Smooth PVC
DP00000165	8"	Smooth PVC
DP00000166	8"	Smooth PVC
DP00000167	8"	Smooth PVC
DP00000175	12"	Smooth PVC
DP00000176	12"	Smooth PVC
DP00000195	12"	Smooth PVC
DP00000197	12"	Smooth PVC
DP00000198	12"	Smooth PVC
DP00000199	6"	Smooth PVC
DP00000200	6"	Smooth PVC
DP00000201	12"	Smooth PVC
DP00000202	24"	Smooth PVC
DP00000203	6"	Smooth PVC
DP00000204	6"	Smooth PVC
DP00000205	12"	Smooth PVC
DP00000206	12"	Smooth PVC
DP00000207	12"	Smooth PVC
DP00000208	6"	Smooth PVC
DP00000209	6"	Smooth PVC
DP00000210	12"	Smooth PVC
DP00000211	6"	Smooth PVC
DP00000212	12"	Smooth PVC
DP00000213	6"	Smooth PVC
DP00000215	12"	Smooth PVC
DP00000216	12"	Smooth PVC
DP00000217	6"	Smooth PVC
DP00000218	12"	Smooth PVC
DP00000219	12"	Smooth PVC
DP00000220	12"	Smooth PVC
DP00000221	6"	Smooth PVC
DP00000222	12"	Smooth PVC
DP00000224	12"	Smooth PVC

DP00000242	12"	Smooth PVC
DP00000243	12"	Smooth PVC
DP00000244	12"	Smooth PVC
DP00000245	24"	Smooth PVC
DP00000246	12"	Smooth PVC
DP00000300	8"	Smooth PVC
DP00000304	12"	Smooth PVC
DP00000337	6"	Smooth PVC
DP00000338	6"	Smooth PVC
DP00000188	18"	Smooth HDPE
DP00000196	12"	Perforated PVC
DP00000345	12"	Perforated PVC
DP00000346	12"	Perforated PVC
DP00000097		Other
DP00000149		Other
DP00000155		Other
DP00000172		Other
DP00000185		Other
DP00000187		Other
DP00000190		Other
DP00000241		Other
DP00000254		Other
DP00000255		Other
DP00000258		Other
DP00000261		Other
DP00000262		Other
DP00000295		Other
DP00000327	12"	High Density Polyethylene
DP00000333	18"	High Density Polyethylene
DP00000334	12"	High Density Polyethylene
DP00000050	12"	Ductile Iron
DP00000320	8"	Ductile Iron
DP00000318	48"	CPEP
DP00000052	18"	CPEP
DP00000053	12"	CPEP
DP00000054	20"	CPEP
DP00000067	18"	CPEP
DP00000082	18"	CPEP
DP00000085	12"	CPEP
DP00000086	24"	CPEP
DP00000090	12"	CPEP
DP00000091	12"	CPEP
DP00000099	8"	CPEP
DP00000101	18"	CPEP

DP00000102	12"	CPEP
DP00000103	12"	CPEP
DP00000124	18"	CPEP
DP00000131	12"	CPEP
DP00000162	12"	CPEP
DP00000169	12"	CPEP
DP00000179	12"	CPEP
DP00000183	12"	CPEP
DP00000184	12"	CPEP
DP00000186	12"	CPEP
DP00000189	12"	CPEP
DP00000194	12"	CPEP
DP00000229	12"	CPEP
DP00000230	12"	CPEP
DP00000231	12"	CPEP
DP00000232	12"	CPEP
DP00000248	12"	CPEP
DP00000249	24"	CPEP
DP00000256	18"	CPEP
DP00000287	24"	CPEP
DP00000297	18"	CPEP
DP00000299	12"	CPEP
DP00000302	8"	CPEP
DP00000303	8"	CPEP
DP00000339	12"	CPEP
DP00000341	12"	CPEP
DP00000343	18"	CPEP
DP00000344	24"	CPEP
DP00000004	18"	Corrugated Metal
DP00000005	18"	Corrugated Metal
DP00000007	12"	Corrugated Metal
DP00000087	12"	Corrugated Metal
DP00000092	18"	Corrugated Metal
DP00000134	12"	Corrugated Metal
DP00000137	18"	Corrugated Metal
DP00000141	12"	Corrugated Metal
DP00000236	12"	Corrugated Metal
DP00000252	36"	Corrugated Metal
DP00000323	36"	Corrugated Metal
DP00000348	24"	Corrugated Metal
DP00000104	18"	Corrugated HDPE
DP00000108	18"	Corrugated HDPE
DP00000263	30"	Corrugated HDPE
DP00000349	8"	Corrugated HDPE

DP00000088	12"	Corrugated Aluminum Pipe
DP00000125	15"	Corrugated Aluminum Pipe
DP00000144	18"	Corrugated Aluminum Pipe
DP00000177	36"	Corrugated Aluminum Pipe
DP00000178	12"	Corrugated Aluminum Pipe
DP00000181	12"	Corrugated Aluminum Pipe
DP00000182	12"	Corrugated Aluminum Pipe
DP00000192	12"	Corrugated Aluminum Pipe
DP00000233	15"	Corrugated Aluminum Pipe
DP00000235	12"	Corrugated Aluminum Pipe
DP00000247	18"	Corrugated Aluminum Pipe
DP00000257	18"	Corrugated Aluminum Pipe
DP00000301	8"	Corrugated Aluminum Pipe
DP00000331	18"	Corrugated Aluminum Pipe
DP00000002	12"	Concrete
DP00000042	36"	Concrete
DP00000044	12"	Concrete
DP00000045	12"	Concrete
DP00000046	8"	Concrete
DP00000047	8"	Concrete
DP00000055	12"	Concrete
DP00000061	12"	Concrete
DP00000066	18"	Concrete
DP00000072	24"	Concrete
DP00000079	12"	Concrete
DP00000080	24"	Concrete
DP00000083	24"	Concrete
DP00000118	36"	Concrete
DP00000135	12"	Concrete
DP00000138	24"	Concrete
DP00000148	12"	Concrete
DP00000163	12"	Concrete
DP00000168	36"	Concrete
DP00000170	12"	Concrete
DP00000173	36"	Concrete
DP00000174	18"	Concrete
DP00000193	24"	Concrete
DP00000234	24"	Concrete
DP00000238	12"	Concrete
DP00000240	12"	Concrete
DP00000251	18"	Concrete
DP00000310	12"	Concrete
DP00000326	12"	Concrete
DP00000340	12"	Concrete

DP00000336	15"	Coated CMP
DP00000342	4"	ADS
DP00000077	6"	
DP00000094	15"	
DP00000095	18"	
DP00000110	6"	
DP00000111	6"	
DP00000112	4"	
DP00000114	24"	
DP00000116	12"	
DP00000117	12"	
DP00000133	4"	
DP00000298		
DP00000311		
DP00000312		
DP00000315		
DP00000316		
DP00000317		
DP00000322		
DP00000347		

Jurisdiction name and permit number	Date incident discovered	Date beginning response	Date end response	How was the incident discovered or reported to you	Discharge to MS4	Street Address or Intersect	City	Zip	Latitude	Longitude	Pollutants Identified	Source or Cause	Source tracing approach(es) used	Correction/elimination methods used	Field notes, explanations, and/or other comments
WAR045511	1/27/2023	1/27/2023	1/27/2023	ERTS referral	No, Cleaned Up	24001 13th Pl S	Des Moines	98198			Fuel and/or vehicle related fluids	Other accident/spill	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Recology called to report approximately 2 gallons of antifreeze spilled to the roadway only due to a mechanical error. No drains or soils impacted. The spill is being cleaned up now.
WAR045511	2/17/2023	2/17/2023	2/17/2023	Direct report to your staff	No, Cleaned Up	26809 Pacific Hwy S	Des Moines	98198			Solid waste/trash	Intentional dumping	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Pollution dumped in parking lot of woodmont library. SWM crew went and cleaned up dumped newspaper.
WAR045511	3/13/2023	3/13/2023	3/13/2023	ERTS referral	Yes, Notified Ecology	22620 DOCK ST	Des Moines	98198			Fuel and/or vehicle related fluids	Unconfirmed, unspecified, or not identified	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	City of Des Moines called to report there is some sort of oil coming from the D Dock outfall which is a surface water pipe. The spill is approximately 1 gallon and has been boomed and padded. The City is looking for the source. Caller attempted to call the NRC but has been on hold and unable to get through.
WAR045511	3/16/2023	3/16/2023		ERTS referral	Yes, Notified Ecology	21015 11th Ave S	Des Moines	98198			Fuel and/or vehicle related fluids	Other accident/spill	Observation (color/sheen/turbidity/floatables/odor)	Clean-up, Education/technical assistance	City of Des Moines received a call from resident reporting a diesel fuel spill in a drain pipe. Inspected and drain pipe flows through the ditch with diesel fuel running through. Suspecting a failed storage tank. Amount is unknown down and continues. Clean up is ongoing, booms and absorbent pads are being use to contain. ----- WA EMD Report: Received a call from Michael Posey (206-771-0167) from the City of Des Moines reporting an unknown amount of diesel that is still discharging at the physical address of 21015 11th Avenue South since 4pm yesterday 3/15/2023 and has still discharging. This is a residence that has an underground diesel tank that failed and is releasing diesel into the City of Des Moines nearby catch basin.
WAR045511	3/20/2023	3/20/2023	3/20/2023	ERTS referral	No, Cleaned Up	630 S 195th St	Des Moines	98198			Fuel and/or vehicle related fluids	Vehicle-related business	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Recology called to report a mechanical failure caused approximately 15 gallons of hydraulic oil to impact the roadway. No drains or soils impacted. Cleanup is underway now.
WAR045511	3/31/2023	3/31/2023	3/31/2023	Direct report to your staff	Unknown	21012 12th Ave S	Des Moines	98198			Unconfirmed, unspecified, or not identified	Unconfirmed, unspecified, or not identified	Not applicable, Other: Citizen concern of water district runoff.	Other: Open investigation to determine if a correction is needed	Message from citizen: hello my name is Scott Saks Wold I live it 210 212th Avenue South. and I have a drainage ditch that runs to the back of my property. that needs some maintenance and I was wondering if you could send a maintenance guy out here to take a look at it sometime. I would appreciate it you can text me at 206-639-8332. thank you. On Monday, April 10th, CISW overtopped a sandbag berm placed on the north side of the construction entrance on S 231st St. CISW flowed south along the apartments and entered a catch basin next to the dumpsters. In an immediate response Kiewit added a pump to next to the sandbag berm to stop the discharge and increased the size of the sandbag berm.
WAR045511	4/11/2023	4/11/2023	4/11/2023	ERTS referral	Yes, Notified Ecology	23110 30TH AVE S	Des Moines	98198			Sediment/soil	Construction activity	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Sample taken was 1000NTUs Permit Number : WAR307947
WAR045511	4/20/2023	4/20/2023	4/20/2023	ERTS referral	Yes, Notified Ecology	1816 S 243rd St	Des Moines	98198			Sewage/septage/pet waste/human waste	Other accident/spill	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Voicemail from Jace: Midway Sewer district sewage overflow. In City of Des Moines intersection of S 243rd St and 18th Ave S. We estimate between 500 and 800 gallons majority of that was contained estimating maybe 100 gallons got into a couple of catch basins we cleaned up the affected area cleaned out all the catch basins um and that is about it does enter that those catch basins do enter into the north fork of McSorley Creek and that's about it for now I'll be looking forward to a call tomorrow and I'll get a e-mail put together in the morning with the full details we're still in the midst of getting everything you know totally buttoned. Email information: On 4/20/2023 we were performing an TV inspection of a syphon line that required flow diversion to a line that was designed to accept it. Unknown to us there was a structure in the flow diversion line that had a very substantial amount of roots in it as well as it was buried a couple of inches in a front yard. Location of the spill was 1618 S243rd St Des Moines. We were notified of the spill at 11:10am and flow was restored by 11:30am. The overflow was intermittent in that window of time. Flow was making it past the roots but at times would surge and overflow. We were able to divert the overflow to a grassy swale and reclaim it. I estimate about 100 to 200 gallons went into the storm system (catch basin). We cleaned all associated catch basins downstream that we could and I would assume most of the flow that entered the storm system was recovered as well. Overall I estimate 500 to 800 gallons total overflowed. All affected areas have been cleaned and all proper authorities have been notified. Attached are maps showing details and a short video clip of the overflow. Typically we get better photo documentation but this was a very quick reactive response.
WAR045511	5/12/2023	5/12/2023	5/12/2023	Direct report to your staff	No, Cleaned Up	21650 11TH AVE S	Des Moines	98198			Other wastewater	Other: Dumpster juice	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	5/12 at 2:45pm an employee noticed an unknown liquid leaking from an on-site dumpster. The employee placed down two absorbent pads that were picked up on 5/15
WAR045511	6/5/2023	6/5/2023	6/5/2023	ERTS referral	Yes, Notified Ecology	1834 S 251st Pl	Des Moines	98198			Other: Concrete slurry	Construction activity	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Caller reports they contracted a company to pour concrete for them. The company's truck was leaking concrete. A tub was placed beneath the truck, however the company allegedly dumped the concrete from the tub on the road and it went into a drain. The company also cleaned their truck on site and the washwater went into the drain as well. Responsible company is Nelson Concrete Design/Four Sons Concrete and Landscaping. Caller has the contract they signed with the company available if needed.
WAR045511	6/28/2023	6/28/2023	6/28/2023	ERTS referral	Yes, Notified Ecology	22225 9th Ave S	Des Moines	98198			Fuel and/or vehicle related fluids	Food-related business	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Multiple food trucks parked in lot were drilled for gasoline spilling gasoline in parking lot. Lot is on a slant and will spill towards a drain if it rains. Booms are still in parking lot and 1 truck that was drilled is still in lot dripping gasoline. RP also is complaining of strong gasoline smell. Fire department applied foam on the spill and booms around it as parking lot is on a slant.
WAR045511	7/7/2023	7/7/2023	7/7/2023	ERTS referral	No, Cleaned Up	22991 Marine View Dr S	Des Moines	98198			Fuel and/or vehicle related fluids	Other accident/spill	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Recology called to report a mechanical failure caused about 3 cups of hydraulic oil to impact a parking lot. No drains affected. Simple green and peat moss were used for cleanup.

WAR045511	7/13/2023	7/13/2023	7/13/2023	ERTS referral	No, Cleaned Up	5 240th St @ 26th Pl S					Fuel and/or vehicle related fluids	Other accident/spill	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	<p>Hello John, KCMT, Talon Swanson, 206-999-6292, called in an estimated 8-gallons of motor oil spilled to road only due to an oil drain plug that was scraped off one of their buses. Incident occurred at approximately 2145 along the Highland College Bus Loop in Des Moines. Cleanup is underway by KCMT.</p> <p>Earl Dickey State Emergency Operations Officer Emergency Management Division Washington Military Department Office: (800) 258-5990</p> <p>FOLLOW UP: Contacted reporting party. Oil drain plug appears to have been scrapped off while bus was going over speed bump on Highland College campus. College personnel deployed dry adsorbents and KC metro will bring out street sweeper to clean up.</p>
WAR045511	7/20/2023	7/20/2023	7/20/2023	Direct report to your staff	No, Cleaned Up	24055 20th Ave S					Fuel and/or vehicle related fluids	Other accident/spill	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Des Moines received a call from a citizen about an abandoned car the was leaking oil in front of her home. The Des Moines Stormwater Maintenance crew assessed the leaking vehicle and cleaned up accordingly.
WAR045511	7/20/2023	7/20/2023	7/20/2023	Staff referral	No, Cleaned Up	2626 S 234th St					Paint	Construction activity	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Reported by a City of Des Moines Employee: Citizen was washing paint out of a 5 gallon bucket which sheet flowed 100' to a catch basin but stopped before entering the basin. Recology called to report a hose failed causing about 1 gallon of coolant to spill to the roadway and gravel. Absorbents were applied yesterday and today peat moss was applied. The caller did not know there were impacts to the gravel so it has not been fully cleaned yet.
WAR045511	8/16/2023	8/17/2023	8/17/2023	ERTS referral	No, Cleaned Up	417 S 213th St	Des Moines	98198			Fuel and/or vehicle related fluids	Vehicle-related business	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	
WAR045511	9/14/2023	9/14/2023	9/14/2023	ERTS referral	No, None Found	21608 30th Ave S	Des Moines	98198			Unconfirmed, unspecified, or not identified	Unconfirmed, unspecified, or not identified	Not applicable	Other: No issue was discovered	<p>INCIDENT DESCRIPTION</p> <p>*Report taken by NRC on 15-SEP-23 at 01:34 ET. Incident Type: FIXED Incident Cause: UNKNOWN Affected Area: Incident occurred on 14-SEP-23 at 23:00 local incident time. Affected Medium: AIR / ATMOSPHERE</p> <p>REPORTING PARTY Name: CHERRI HOLLOWAY Organization: Address: 21608 30TH AVE SOUTH DES MOINES, WA 98198 Email Address: cherriholloway7@gmail.com</p> <p>PRIMARY Phone: (206)2290455 Type of Organization: PRIVATE CITIZEN</p> <p>SUSPECTED RESPONSIBLE PARTY Name: UNKNOWN Organization: Address: Type of Organization: UNKNOWN</p>
WAR045511	9/19/2023	9/19/2023	9/19/2023	ERTS referral	No, Cleaned Up	Pacific Hwy S & Kent Des Moines Rd					Fuel and/or vehicle related fluids	Other accident/spill	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	From WEMD: Please be advised, Troy Jaeger, King County Metro, (206) 423-9396, called to report that at 2210 a spill of 2 gallons of coolant occurred on Southbound Pacific Highway at Kent-Des Moines Road, Des Moines, WA. A coolant line ruptured on a bus spilling the material to the right-hand lane. No storm drains impacted. Throw and go was applied and a sweeper truck is being dispatched to survey the area and finish clean up.
WAR045511	9/21/2023	9/21/2023	9/21/2023	Direct report to your staff	No, Cleaned Up	20609 8th Ave S	Des Moines	98198			Solid waste/trash	Landscape-related business	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Citizen at 20609 8th Ave S has been putting yard waste in the ditch line to the North of their property. A letter has been sent for clean up.
WAR045511	10/7/2023	10/7/2023	10/7/2023	ERTS referral	Yes, Notified Ecology	21920 Pacific Hwy S	Des Moines	98198			Fuel and/or vehicle related fluids	Vehicle-related business	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	Received call from Lt. Ross Anderson (206-510-7509) with South King FD reported approximately 50 gallons of diesel fuel spilled into a storm drain near South 220th Street / Pacific Highway in Des Moines, WA. This incident resulted from a car vs. semi-truck collision. The firefighters contained and cleaned the residual fuel on the asphalt.
WAR045511	10/25/2023	10/25/2023	10/25/2023	Staff referral	No, Cleaned Up	226th Ave S @ Pac Hwy	Des Moines	98198			Fuel and/or vehicle related fluids	Vehicle collision	Observation (color/sheen/turbidity/floatables/odor)	Clean-up	There was an accident at the intersection of 226th and Pac Hwy that caused a large oil spill. Pac Hwy slopes down to 226th allowing the oil to run about 200ft down the roadway. The crew acted quickly in getting there and had catch basin protection and sand on the road by the time I got there. These methods were effective in preventing the oil from going into the downstream drainage system. Caller reports lots of bubbles in the Des Moines Creek. It is described as white and stack on each other. The bubbles are viewable from 1/4 mile from the parking lot on S 200th St all the way to the Puget Sound. Caller witnessed this while riding along the trail but is no longer near the location.
WAR045511	10/26/2023	10/26/2023	10/26/2023	ERTS referral	Yes, Notified Ecology	21650 11th Avenue South	Des Moines	98198			Unconfirmed, unspecified, or not identified	Unconfirmed, unspecified, or not identified	Observation (color/sheen/turbidity/floatables/odor)	Other: Identified as organic materials	

City of Des Moines - WAR045511

2023 Annual NPDES Report

Annual Report Question 77:

Attach a summary of actions taken to implement the source control program per S5.C.8.b.iii and S5.C.8.b.iv.

Answer:

In 2023, the following actions were taken to implement the source control program:

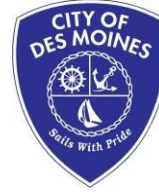
- On 3/28/2023, the City of Des Moines restructured and signed a contract with BEA Environmental to conduct 40 source control inspections.
- City staff and BEA Environmental participated in meetings throughout the year to provide program updates.
- New businesses to the City of Des Moines in 2023 were added to the Source Control Program Tracker, which was created to review new business license applications and determine if a business meets the appendix 8 requirements for being potential sources of pollutants.
- 40 businesses were selected to be inspected by BEA Environmental in the City of Des Moines downtown corridor.
- BEA Environmental began conducting source control inspections on 6/30/2023.
- All source control inspections and business follow-ups were completed by 11/28/2023.
- A meeting between the City and BEA Environmental took place on 12/18/2023 to discuss the yearend report for the source control program.

Section 1A: Site/Business Information		Section 1C: Site/Business Activities		Section 2: Source Control Inspection			Inspection Outcome	Notes
Business Name	Address	NAICS	SIC	Inspector Name	Date	Type of Visit		
DES MOINES HIGHLANDER LAUNDRY	21837 MARINE VIEW DR S, DES MOINES	812310	7215	John Loyd	6/30/2023	Initial Inspection	No action required	No issues onsite. There is minimal staffing at this facility. I spoke with the staff
TUSCANY AT DES MOINES CREEK	21830 MARINE VIEW DR S, DES MOINES	722511	5812	John Loyd	6/30/2023	Initial Inspection	Action(s) required	I toured the outside area of this restaurant and spoke with a staff person. The
PHO DINH	21831 MARINE VIEW DR S, DES MOINES	722511	5812	John Loyd	6/30/2023	Initial Inspection	Action(s) required	The owner was not present, but I got a tour of the exterior operations from the
KAIHANA	21816 MARINE VIEW DR S, DES MOINES	722511	5812	John Loyd	6/30/2023	Initial Inspection	No Action Required	I toured the outside area of this restaurant and spoke with a staff person. The
ANYTIME FITNESS	21819 MARINE VIEW DR S, DES MOINES	713940	7991	John Loyd	6/30/2023	Initial Inspection	No action required	There are no issues on this site. The only potential impact to stormwater would be
JC AUTOMOTIVE	21616 MARINE VIEW DR S, DES MOINES	811111	7538	John Loyd	7/7/2023	Initial Inspection	Action(s) required	All haz waste is hauled away by a vendor and records are kept onsite. There is only
ALBERTO JR	21851 MARINE VIEW DR, DES MOINES	722513	5812	John Loyd	7/7/2023	Initial Inspection	Action(s) required	I met with the shift manager, and toured their operation. The dumpsters are
JACK'S COUNTRY RESTAURANT	21919 MARINE VIEW DR, DES MOINES	722513	5812	John Loyd	7/7/2023	Initial Inspection	Action(s) required	Cooking oil and dumpsters are undercover and protected from stormwater, and
MINI THE DONUT	21925 MARINE VIEW DR, DES MOINES	445291	5461	John Loyd	7/7/2023	Initial Inspection	Action(s) required	Spill Kit, Spill Plan, Spill Response Training. Business hauls its cooking oil of site for
ANCHOR COFFEE	21904 MARINE VIEW DR, DES MOINES	722410	5813	John Loyd	7/7/2023	Initial Inspection	Action(s) required	This business has no issues. The dumpsters were closed, though they need
TUSCANY AT DES MOINES CREEK	21830 MARINE VIEW DR S, DES MOINES	722511	5812	Ramiro Magallanes	7/17/2023	Follow-up Inspection	No Action Required	Spill Kit and spill response training complete
PHO DINH	21831 MARINE VIEW DR S, DES MOINES	722511	5812	Aimee Carlson	7/17/2023	Follow-up Inspection	No Action Required	Spill Kit and spill response training complete and DOG Stickers applied
JC AUTOMOTIVE	21616 MARINE VIEW DR S, DES MOINES	811111	7538	Ramiro Magallanes	7/17/2023	Follow-up Inspection	No Action Required	Spill Kit and spill response training complete DOG stickers applied
ALBERTO JR	21851 MARINE VIEW DR, DES MOINES	722513	5812	Ramiro Magallanes	7/17/2023	Follow-up Inspection	No Action Required	Spill Kit and spill response training complete DOG stickers applied
JACK'S COUNTRY RESTAURANT	21919 MARINE VIEW DR, DES MOINES	722513	5812	Aimee Carlson	7/17/2023	Follow-up Inspection	No Action Required	Spill Kit and spill response training complete, DOG stickers applied
MINI THE DONUT	21925 MARINE VIEW DR, DES MOINES	445291	5461	Ramiro Magallanes	7/17/2023	Follow-up Inspection	No Action Required	Spill Kit and spill response training complete
ANCHOR COFFEE	21904 MARINE VIEW DR, DES MOINES	722410	5813	Aimee Carlson	7/17/2023	Follow-up Inspection	No Action Required	Spill Kit and spill response training complete, DOG stickers applied
TACO TIME	809 KENT-DES MOINES RD, DES MOINES	722513	5812	John Loyd	7/26/2023	Initial Inspection	No Action Required	The parking lot is well maintained and the drains are free of debris. The manager
76 GAS STATION	22026 MARINE VIEW DR S, DES MOINES	447110	5541	John Loyd	7/26/2023	Initial Inspection	Action(s) Required	Stormdrains are free of debris and functioning properly. Hazardous waste is
7-ELEVEN STORE	820 KENT-DES MOINES RD, DES MOINES	445120	5411	John Loyd	7/26/2023	Initial Inspection	Action(s) Required	Stormdrains are free of debris and functioning properly, and there are no fueling
E Z MART	21620 MARINE VIEW DR S, DES MOINES	447110	5541	John Loyd	7/26/2023	Initial Inspection	Action(s) Required	Stormdrain is clear nad functioning. Used oil is stored undercover and untop of
BAN KARAI LLC	21630 7TH PL S, DES MOINES	722511	5812	John Loyd	7/26/2023	Initial Inspection	Action(s) Required	Met with the owner and toured the facility. Wastewater is disposed of in the mop
ARTUROS MEXICAN RESTAURANT	22204 MARINE VIEW DR S, DES MOINES	722511	5812	John Loyd	7/26/2023	Initial Inspection	Action(s) Required	This business has no issues. The dumpsters were closed, though they need
76 GAS STATION	22026 MARINE VIEW DR S, DES MOINES	447110	5541	John Loyd	8/1/2023	Follow-up Inspection	No Action Required	Verified that the spill kit training had taken place, and that the staff knew what
Des Moines Cleaner	22021 7th Ave S #1, Des Moines, WA 98198	812300	7211	John Loyd	8/3/2023	Initial Inspection	Action(s) Required	Please clean the inlets on the south and west of the property. They are filled with
Des Moines Cleaner	22021 7th Ave S #1, Des Moines, WA 98198	812300	7211	John Loyd	8/10/2023	Follow-up Inspection	No Action Required	Both inlets have been cleared of dirt and debris. No further action is required.
Polonez Automotive	01 Marine View Dr S, Unit S, Des Moines, WA 98	811111	7538	John Loyd	8/16/2023	Initial Inspection	No Action Required	No issues other than the dumpster lids needing to be closed. All hazardous waste
B&E Meats	22501 MARINE VIEW DR S #A, DES MOINES	445210	5147	John Loyd	8/22/2023	Initial Inspection	No Action Required	Could use a spill kit in addition to the dumpster stickers
Marina Market and Deli	22511 MARINE VIEW DR S, DES MOINES	445120	5411	John Loyd	8/22/2023	Initial Inspection	No Action Required	Could use a spill kit in addition to the dumpster stickers
Wally's Chowderhouse	22531 MARINE VIEW DR S, DES MOINES	722511	5812	John Loyd	8/22/2023	Initial Inspection	No Action Required	Could use a spill kit in addition to the dumpster stickers
Auntie Irene's	22504 MARINE VIEW DR S, DES MOINES	722515	5812	John Loyd	8/22/2023	Initial Inspection	No Action Required	Could use a spill kit in addition to the dumpster stickers
RED ROBIN INTERNATIONAL INC #168	22705 MARINE VIEW DR S, DES MOINES	722511	5812	John Loyd	9/8/2023	Initial Inspection	No Action Required	The oil only sorbents and leaves/debris acculated near the cooking oil container
JACK IN THE BOX	22633 MARINE VIEW DR S, DES MOINES	722511	5812	John Loyd	9/8/2023	Initial Inspection	No Action Required	The catch basins look like they may need to be cleaned. Will return to evaluate
Jack in the box	22633 MARINE VIEW DR S, DES MOINES	722511	5812	Ramiro Magallanes	9/11/2023	Follow-up Inspection	Action(s) Required	The catch basins and inlet on this property need to be cleaned. The shift manager
Sweet D'Licia	22021 7th Ave S #2, Des Moines, WA 98198	722515	5812	Ramiro Magallanes	9/11/2023	Initial Inspection	No Action Required	There is evidence that wastewater from mopping has been disposed of through
RED ROBIN INTERNATIONAL INC #168	22705 MARINE VIEW DR S, DES MOINES	722511	5812	John Loyd	9/14/2023	Follow-up Inspection	No Action Required	The oil-only sorbents have been collected and disposed of, and the leaves have
Red Lion Inn	22845 Pacific Hwy S, Des Moines	721110	7011	Ramiro Magallanes	10/6/2023	Initial Inspection	No Action Required	Refer to spill kit program
Value Inn	22246 Pacific Hwy S Des Moines, WA 98198	721110	7011	Ramiro Magallanes	10/6/2023	Initial Inspection	No Action Required	Refer to spill kit program
Jack in the box	22633 MARINE VIEW DR S, DES MOINES	722511	5812	Ramiro Magallanes	10/13/2023	Follow-up Inspection	Action(s) Required	The store cleaned their grease trap, thinking that would suffice for the request we
Sweet D'Licia	22021 7th Ave S #2, Des Moines, WA 98198	722515	5812	Ramiro Magallanes	9/11/2023	Initial Inspection	No Action Required	We have stopped by and verified that mop water is being disposed of through the
Jack in the box	22633 MARINE VIEW DR S, DES MOINES	722511	5812	John Loyd	11/28/2023	Follow-up Inspection	No Action Required	The remaining inlet that had not been cleaned during the previous service has

City of Des Moines

Western Washington Phase II NPDES Permittee

3/20/2024



-Effectiveness Evaluation of an Ongoing Behavior Change Campaign-

Requirement:

(S5.C.2.a.ii.e): No later than March 31, 2024, evaluate and report on:

1. The changes in understanding and adoption of targeted behaviors resulting from the implementation of the strategy; and
2. Any planned or recommended changes to the campaign in order to be more effective; describe the strategies and process to achieve the results.

Dumpster Outreach Group Campaign Background and Implementation:

The regional Dumpster Outreach Group (DOG) began in June 2020 and developed a behavior change campaign following social marketing practices. The developed campaign encourages business owners and employees to keep their dumpster lids closed. Locally, the City implemented this campaign through our partnership with BEA Environmental by enhancing the Spill Kit and Pollution Prevention Program by including educational material (pamphlet and dumpster sticker) from the dumpster campaign.

Evaluation:

The city interacted with 24 businesses between the years of 2021-2023 and provided them with informational pamphlets about the campaign and stickers to place on their dumpsters to serve as a reminder to shut the lid. Follow-up drive-by inspections concluded that the sticker helped serve as a reminder to close dumpster lids when garbage was at manageable levels, but several businesses struggled with overloading their business dumpsters leading to open lids before their garbage pick-up dates.

Yearly Dumpster Metrics

Year	Program Type	# of Businesses	Post Visit Compliance
2021	Pilot	5	2
2022	Soft Launch	3	2
2023	Roll Out	18	17

Lessons Learned:

Due to a lack of regional coordination in the Dumpster Outreach Group and with group meetings dwindling, the City will be exploring alternative avenues for a behavior change campaign to enhance our on-going spill kit program.

Recommendation for S5.C.3.e.2:

The City's recommendation will be to work with BEA Environmental to expand the spill kit program by developing a spill response training that will further educate and introduce new practices to businesses that can be measured in new pre and post surveys.

City of Des Moines - WAR045511

2021 Annual NPDES Report

Annual Report Question 23a:

Attach the strategy and schedule developed in accordance with S5.C.2.a.ii(c).

Answer:

The regional Dumpster Outreach Group (DOG) began in June 2020 and developed a behavior change campaign following social marketing practices. The developed campaign targets businesses and seeks to encourage business owners and employees to keep their dumpster lids closed. The regional implementation schedule can be found below.

Locally, the City will be implementing this campaign through our existing partnership with ECOSSE's Spill Kit and Pollution Prevention Program for Businesses. They will be informing businesses and passing our educational material from the dumpster campaign and will be providing data back to the City to report to the DOG.