

**City of Escondido Jurisdictional Runoff Management Program
Minimum BMPs for Industrial, Commercial, and Municipal Sites/Sources
2015 Update**

No.	BMP Title	BMP Description	CASQA BMP Factsheet Reference
Discharge Control			
1	Eliminate illicit connections to the MS4.	Illicit connections are man-made physical connections or diversions to the MS4 ¹ that convey an illicit discharge. Find and abate all illicit connections to the MS4 through properly approved procedures, permits, and protocols. Rain valves used to allow rain to be discharged to the MS4 will be maintained by the responsible party and documentation of maintenance during the past calendar year must be kept onsite at all times and be readily available for review by inspectors.	SC-10, SC-44
2	Eliminate non-storm water discharges.	Non-storm water (water other than rain) shall not be discharged to the City's MS4. To eliminate illicit discharges, do not allow any solid or liquid material except uncontaminated storm water to enter City storm drains, curb gutters along City streets, or any other part of the City's MS4. Non-storm water discharged to the MS4 as a result of emergency or non-emergency firefighting activities, both emergency and non-emergency activities, is considered an illegal discharge if the City of Escondido (City) or the Regional Water Quality Control Board (RWQCB) identifies the discharge as a significant source of pollutants to receiving waters. Other limited exceptions may apply. During emergency situations, priority of efforts is directed toward life, property, and the environment (in descending order). The City's minimum BMPs should be implemented, but should not interfere with immediate emergency response operations or impact public health and safety.	SC-10, SC-11, SC-44
3	Properly dispose of process and wash water.	All process water and wash water shall be contained, captured, and reused, or disposed of to the sanitary sewer with appropriate authorization and/or permits, or hauled by a licensed waste hauler, or directed to landscaping or other pervious surfaces if appropriate.	SC-10, SC-41 ²
4	Eliminate the discharge of vehicle and equipment wash water.	Discharge of vehicle, boat, and equipment wash water shall be contained, captured, and reused, or disposed of to the sanitary sewer with appropriate clarification and permitting/authorization, or hauled by a licensed waste hauler, or directed to landscaping or other pervious surfaces if appropriate. No drains within wash areas shall be connected to the MS4. Storm drain inlets located down gradient of wash areas and activities shall be covered or otherwise protected to prevent the entry of wash water or rinse water.	SC-10, SC-21

¹ MS4 = Municipal Separate Storm Sewer System, also known as: storm water conveyance system, storm drain system, storm drain network.

² Factsheet SC-41 - Building & Grounds Maintenance, states (in regards to pressure washing), "If soaps or detergents are not used, and the surrounding area is paved, wash runoff does not have to be collected but must be screened. Pressure washers must use filter fabric or some other type of screen on the ground and/or in the catch basin to trap the particles in wash water runoff." Non-storm water discharges of this nature, even if filtered, are not allowed to enter the MS4. Wash water must be contained, collected, and disposed of properly.

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5	Properly dispose of water from fire sprinkler maintenance activities.	Fire sprinkler system discharges containing corrosion inhibitors, fire suppressants, or antifreeze shall be disposed through the sanitary sewer system, with approval, not the MS4. Fire sprinkler system discharges without corrosion inhibitors, fire suppressants, or antifreeze shall be disposed through the sanitary sewer, if practicable and approved. When not practicable to discharge to the sanitary sewer system due to the presence of prohibited contaminants, the water shall be collected and disposed of by an appropriately certified party. When not practicable to discharge to the sanitary sewer system for reasons other than the presence of prohibited contaminants, the water shall not be discharged unless adequate precautions have been taken to prevent the transport of pollutants to the MS4.	SC-10, SC-41
6	Eliminate irrigation runoff.	Irrigation runoff to the MS4 shall be eliminated through proper landscape maintenance and watering practices. All irrigation water and associated pollutants from nurseries, garden centers, and similar facilities shall be prevented from reaching City storm drains, curb gutters along City streets, or any other part of the City's MS4.	SC-10 ³ , SC-41
7	Properly dispose of discharges from swimming pools, spas, fountains, reflective pools, ponds, and filter backwash.	Swimming pool, spa, fountain, and filter backwash water shall be properly disposed of to prevent pollutants from entering the MS4. Discharge swimming pool, spa, and fountain water to the MS4 only if the water is dechlorinated, has a pH level in the 7-8 range, is within ambient temperature, has no diatomaceous earth, algae or suspended solids, and is not saline.	SC-10, BG-63 ⁴
8	Eliminate air conditioning condensation discharges.	Air conditioning condensation discharges shall be prevented from reaching City storm drains, curb gutters along City streets, or any other part of the City's MS4.	SC-10, SC-42
9	Eliminate floor mat cleaning discharges from to the MS4	Floor mats shall be cleaned in a manner such that there is no discharge to City storm drains, curb gutters along City streets, or any other part of the City's MS4. Indoor wash areas, mop sinks, or indoor floor drains may be designated as wash areas for floor mats if these areas drain through a pretreatment system to the sanitary sewer system.	SC-10, SC-21
10	Eliminate pumped groundwater, foundation, and footing drain discharges.	Pumped groundwater, including water from crawl space pumps is prohibited unless a separate NPDES Permit has been obtained to cover the discharge, or the RWQCB has determined in writing that no permit is needed. Discharges from foundation and footing drains that are at or below the groundwater table are also prohibited, unless covered by an NPDES permit, or the RWQCB has determined in writing that no permit is needed.	SC-10
11	Minimize rising groundwater, diverted stream flows, uncontaminated groundwater infiltration, springs, riparian habitat/wetland flows, potable water sources, and foundation/ footing drain discharges.	Discharges from rising groundwater, diverted stream flows, riparian habitat and wetlands, uncontaminated groundwater infiltration to the MS4, springs, and potable water sources are exempt unless they are identified as a source of pollutants to receiving waters by the City or the RWQCB.	SC-10

³ Factsheet SC-10 – Non-Stormwater Discharges states that “landscape irrigation drainage and landscape watering” may be discharged to the storm drain with conditions; however, in accordance with RWQCB Order No. R9-2013-0001 (Municipal Permit), no irrigation runoff may be discharged to the City's MS4.

⁴ Factsheet BG-63 – Mobile Cleaning – Swimming Pools & Spas states that pools, spas, or fountain discharges to the MS4 are not permitted; however, discharges of this nature are permitted if the conditions described in BMP 7 are met.

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12	Direct runoff from pavement, rooftops, and other impervious surfaces to landscaped areas.	Runoff from pavement, rooftops, and other impervious surfaces shall be directed to landscaped or pervious area(s) to infiltrate or evaporate, where suitable areas exist onsite. Energy dissipation and erosion control measures shall be used to prevent erosion and sediment transport.	SC-10
13	Regularly clean and maintain structural BMPs, including LID installations, to ensure proper performance.	BMPs implemented, including Low Impact Development (LID) and structural BMPs, must be inspected at a minimum annually, and properly operated and maintained. All installed LID or structural BMPs shall be inspected at a minimum of once annually for proper function and maintained to confirm the BMP is serving the purpose for which it was intended.	SC-44
Erosion and Sediment Control			
14	Protect unpaved areas, including landscaping, from erosion using vegetative or physical stabilization.	Exposed soils that are actively eroding or prone to erosion due to disturbance shall be protected from erosion. Significant accumulations of eroded soil shall be removed or contained to prevent sediment transport in runoff to the MS4.	SC-40, SC-42
Good Housekeeping			
15	Regularly clean onsite paved parking areas, roads, and driveways.	Paved parking areas, roads, and driveways located on the property shall be swept at least once per year or more often, as needed. During each cleaning the entire area shall be cleaned. Sweeping is the preferred method. Wet cleaning methods, such as mopping or power washing, may be used in addition to sweeping if all wash water is contained, captured, and disposed of appropriately.	SC-41, SC-43, BG-62 ⁵
16	Implement good housekeeping to keep site free of trash and debris.	Outdoor areas shall be cleaned as needed to keep them free of accumulations of trash, sediment, litter, and other debris. Trash and recycling storage containers will be intact (no leaks), covered and the surrounding area kept free of debris and spills.	SC-41
17	Keep storm drain inlets and under drains free of sediment, trash, and debris.	Accumulated materials shall be removed from on-site storm drains and under drains at least once per year. Storm drains and under drains shall be kept free of sediment, trash, and debris.	SC-44

⁵ Factsheet BG-62 – Mobile Cleaning – Surface Cleaning, states (in regards to pressure washing) that screened, or filtered, wash water can be discharged to a gutter, street, or storm drain. Non-storm water discharges of this nature, even if filtered, are not allowed to enter the MS4, which includes the streets and gutters. Wash water must be contained, collected, and disposed of properly.

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Material Storage and Handling			
18	Provide and maintain secondary containment to catch spills if storing potential liquid pollutants.	Drums and other containers shall be kept in good condition and securely closed when not in use. Effective secondary containment shall be provided and maintained for all containers of liquid with the potential to leak or to spill onto outdoor areas to prevent leaks or spills from discharging pollutants to the MS4. Secondary containment shall also be provided for all liquids during transport into, off of, or within the site to prevent spills due to leaks or punctures. A variety of methods are available, including but not limited to: containers, curbs, and vendor products. To maintain the effectiveness of secondary containment, regularly remove and appropriately dispose of spills, precipitation, or other liquids that accumulate in the secondary containment. Note that directing waste to the sanitary sewer will require testing and approval from the City prior to discharge. Provide liquid storage containers with covers to prevent precipitation from accumulating in or causing overflows from the secondary containment. If evidence of spills due to inadequate containment is observed, the City enforcement official may specify a minimum required containment capacity. Other applicable regulations may apply to the use of secondary containment, especially for hazardous materials, which are regulated by the County of San Diego Department of Environmental Health.	SC-20, SC-31
19	Cover, contain, and/or elevate materials stored outside that may become a source of pollutants in storm water or non-storm water.	Materials stored outdoors shall be covered and contained to prevent storm water and non-storm water from contacting and/or transporting materials and pollutants to the MS4. Some examples of cover are roofs, awnings, and, as a last resort, tarps. Where coverage is not feasible or is cost-prohibitive, alternative approaches such as installing berms around the stored materials, directing runoff to pervious areas, or installing treatment devices may be allowed. Note that directing waste to the sanitary sewer will require testing and approval from the City prior to discharge. Also note that installing structural coverage will usually require obtaining permits from the City prior to installation. To determine applicable regulations and whether a permit would be required, contact the Planning Division at (760) 839-4671.	SC-20, SC-33
20	Properly store and dispose of hazardous materials.	Hazardous materials and wastes shall be stored, managed, and disposed in accordance with federal, state, and local laws and regulations. Hazardous materials and wastes and their primary storage containers shall also be stored such that they will not come into contact with storm water, even if leaks or spills occur. Hazardous materials and wastes generated by business activities are additionally regulated by the County of San Diego Department of Environmental Health. Disposal of hazardous wastes using an authorized hazardous waste collection service is required. Store hazardous materials and wastes, and their primary storage containers, with sufficient cover and/or containment to prevent contact with storm water and in accordance with all applicable regulations. See BMPs 18 and 19 for additional details regarding storage.	SC-20, SC-31, SC-33
21	Label containers to prevent mishandling of hazardous materials and other potential pollutants.	Outdoor containers and storage areas of pollutants shall be labeled to facilitate proper material handling and spill response. Hazardous materials and wastes shall be clearly labeled in accordance with all applicable regulations.	SC-31

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Pesticide and Fertilizer Management			
22	Properly manage pesticides and fertilizers.	Pesticides and fertilizers shall be applied in strict accordance with manufacturer's label, as authorized by U.S. Environmental Protection Agency. Chemicals shall be stored safely in covered and contained areas. See BMPs 18 and 19 for additional details regarding storage. Waste products shall be disposed of in accordance with the manufacturer's label (MSDS) and applicable local wastewater and hazardous waste regulations. The use of integrated pest management principles is encouraged to reduce or eliminate use of chemicals. For more information about integrated pest management, see the University of California Statewide IPM Program at http://www.ipm.ucdavis.edu .	SC-35, SC-41, BG-40
Planning			
23	When required, develop a written plan that identifies appropriate BMPs, including spill response, and includes procedures for proper implementation.	When required, a site-specific or mobile activity-specific written plan, called a BMP Plan shall be maintained that identifies all BMPs to be used and provides clear instruction on how to properly implement each BMP. The BMP Plan shall include written procedures for preventing and responding to spills appropriate in scale to facility activities and potential spills. The BMP Plan shall be appropriately scaled to the size of the facility and potential for discharges. The BMP Plan shall be updated as site conditions or activities change. The BMP Plan must include a documented employee training program. Facilities subject to regulations such as Spill Prevention, Control, and Countermeasures (SPCC) or Hazardous Materials Business Plan regulations should develop spill plans in accordance with guidance provided by State, City, and County emergency management departments. For facilities subject to storm water permitting pursuant to State Industrial General Permit regulations, the required Storm Water Pollution Prevention Plan (SWPPP) will meet this requirement.	SC-11
Outdoor Work Areas			
24	Implement controls to minimize pollution from exposed outdoor work areas.	Activities that may generate pollutants shall be conducted in covered, contained areas, or equivalent measures taken to prevent the discharge of associated pollutants. When these activities are conducted outside, the work areas shall be cleaned at least once a day to minimize pollutant accumulation, and the activities shall not be conducted when it is raining unless measures have been taken to prevent the discharge of associated pollutants. Work areas that are not covered and contained shall also be located such that runoff flowing through the work areas is minimized. Work areas shall be designed such that concentrated flows are not directed through the work areas.	SC-20, SC-30, SC-32, SC-34, SC-42
Spill Prevention and Response			
25	Prevent or capture liquid leaks from vehicles or equipment.	Leaking vehicles or equipment shall be repaired promptly. Drip pans or other equivalent means shall be used to capture spills or leaks of oil and other fluids from vehicles awaiting maintenance and during maintenance activities. Captured fluids shall be disposed of in accordance with applicable hazardous materials regulations.	SC-11, SC-22
26	Immediately clean up spills.	Spills shall be cleaned up immediately and prevented from entering the MS4. Spills that enter a storm drain and cannot be fully recovered shall be reported promptly to the City's Storm Water Hotline at (760) 839-4668.	SC-11
27	Maintain a readily accessible spill cleanup kit appropriate to materials stored onsite.	Materials and equipment appropriate for the type and quantity of potential spills shall be kept onsite and with any mobile activities as a spill cleanup kit. Keep cleanup materials in close proximity to locations where spills may occur, with signage and instructions for use clearly displayed.	SC-11, SC-22

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28	Drain fluids from inoperable vehicles and store or dispose of appropriately.	Oil, antifreeze, and other fluids shall be drained from inoperable vehicles intended for recycling or long-term storage that are stored outside. Drained fluids shall be disposed of in accordance with applicable hazardous materials regulations.	SC-22
29	Temporarily protect storm drains from non-storm water discharges while conducting activities that have the potential to result in a discharge.	If activities conducted cannot be fully contained or minor failures in containment would potentially result in discharges of non-storm water to the MS4, temporary measures shall be used to protect storm drains. Any activity-related materials that enter the MS4 shall be removed promptly and disposed of appropriately (in accordance with other minimum BMPs).	SC-10, SC-44
Training and Education			
30	When possible, provide pollution prevention signage for storm drains.	When possible, pollution prevention signage shall be provided for all onsite storm drain inlets and catch basins with prohibitive language (e.g., "No Dumping – Drains to <insert applicable creek/water body>"). Examples of storm drain signage include concrete stamps, painted stencils, signage, and the installation of ceramic or plastic tiles.	SC-44
31	Provide pollution prevention signage for uncovered outdoor sources of pollutants.	A system to remind employees or contractors to complete required maintenance shall be provided for trash areas without overhead coverage, uncovered outdoor work areas, and other outdoor areas of the site that require frequent maintenance to mitigate pollution potential. Certain areas, such as uncovered trash areas or uncovered outdoor work areas, require frequent maintenance to keep them clean and minimize the potential to release pollutants and to prevent discharges during rain. Because these areas require frequent maintenance, a system to remind applicable employees or contractors of the required maintenance is mandatory.	SC-44
32	Train appropriate employees on storm water pollution prevention.	Initiation training and annual refresher training shall be provided to all employees with full or partial responsibility for BMP implementation on- or off-site. All such employees shall be familiar with the BMP Plan for on-site or mobile activity. Records of training shall be kept for at least five years, including topics, dates, and employee signature, at a minimum, and shall be available upon request.	SC-44
Waste Management			
33	Keep waste disposal areas free of exposed trash, sediment, and debris.	Stored waste shall be protected from contact with storm water and non-storm water. Disposal areas for trash and other wastes shall be cleaned as frequently as necessary to keep these areas free of loose trash, litter, debris, liquids, powders, and sediment. Liquid waste, hazardous waste, medical waste, universal waste, and other items prohibited by current regulations shall not be placed in solid waste dumpsters. Dry cleaning methods such as sweeping are preferred. If wet cleaning methods are used, all wash water must be contained, captured, and disposed of appropriately. See BMP 3 for information on appropriate wet cleaning practices.	SC-34, SC-41
34	Protect waste storage areas from contact with storm water and non-storm water flows on to the property.	Stored trash and other wastes shall be protected from contact with storm water and non-storm water flows. Trash and other wastes shall be contained to prevent dispersal of trash off site, and to keep surrounding areas and on site storm drains free of trash and other wastes.	SC-34

No.	BMP Title	BMP Description	CASQA BMP Factsheet Reference
35	Cooking oil waste shall be managed to prevent illegal discharges.	Waste containers for oils, grease, fats, or tallow (rendered oil) shall be kept indoors where feasible. Where not feasible, the waste containers shall be kept in a covered, contained area to prevent waste transport in runoff.	SC-34, BG-30
36	Properly store and dispose of green waste.	Green waste shall be properly stored and disposed of such that it will not be transported to the MS4 by storm water or non-storm water runoff. BMPs must be in place at all times.	SC-34, BG-40
37	Manage animal waste and animal washing in a manner that prevents transport of wastes and wash water off-site.	Animals and animal waste shall be managed and stored in a manner that prevents animal waste and wash water from entering the MS4. Collect and dispose of animal waste to the trash or compost, as appropriate.	SC-34, BG-10