

APPENDIX G
MISCELLANEOUS SUPPORT MATERIALS

Appendix G - Miscellaneous Support Materials



Appendix G - Miscellaneous Support Materials

SITE AUDIT FORM

2018 Storm Water Quality Inspection For Industrial/Commercial/Municipal Facilities

Inspector Name: _____

Date: _____

Time: _____

Contact Information

Business Name _____

Business Type _____

Mailing Address _____

Business Telephone # _____ Business Fax # _____

On-Site Contact #1 _____ Title: _____

Phone # _____ Cell Phone # _____

On-Site Contact #2 _____ Title: _____

Phone # _____ Cell Phone # _____

Environ Contact _____ Title: _____

Phone # _____ Cell Phone # _____

Subtenants: Yes No If yes:

Name _____ Contact _____ Phone: _____

Name _____ Contact _____ Phone: _____

Vendors: Yes No If yes:

Name _____ Contact _____ Phone: _____

Name _____ Contact _____ Phone: _____

Facility/Operation/Site Information

Principal activity: _____

Does facility/operation have an Individual NPDES Permit? Yes No

If yes, provide WDID (Permit) #: _____

Does facility/operation maintain SWPPP and/or BMP Plan? Yes No

Does facility/operation maintain Hazmat Business Plan? Yes No

Has facility/operation conducted previous storm water monitoring/or sampling programs? Yes No

Initial Observations

Nearest MS4 conveyance inlet: _____ Approx. distance to MS4: < 200 ft. 200 – 1000 ft. > 1000 ft.

Discharge observed? Yes No If yes, describe: _____

Additional comments: _____

Tenant Summary Sheet

Verify/update "Tenant Description and Primary Industrial Activities:" **Correct/Adequate**

Updates, please describe: _____

Print Name of Facility/Operation Representative: _____

Inspector's Signature: _____ Date: _____

BMPs	N/A	Fully	Partial	Not	Comments
Storm Water Discharges					
Does storm water from this facility/operation enter the MS4?					
Does the storm water run-off from this facility/operation discharge into a wastewater treatment process or sanitary sewer or dead-end sump area with pump?					
BMPs	N/A	Fully	Partial	Not	Comments
SC01 - Non-Storm Water Management <input type="checkbox"/> Not Applicable at this Facility/Operation					
Identify significant materials which could have the potential to discharge to storm drains.	<input type="checkbox"/> Oil and Grease <input type="checkbox"/> Solvents <input type="checkbox"/> Paint <input type="checkbox"/> Deicing/Anti-Icing Fluids <input type="checkbox"/> Cleaning Solutions <input type="checkbox"/> Lubricants <input type="checkbox"/> Anti freeze <input type="checkbox"/> Battery Acid <input type="checkbox"/> Fuel <input type="checkbox"/> Pesticides/Herbicides/Fertilizers <input type="checkbox"/> Metals <input type="checkbox"/> Deicing/Anti-Icing Fluids <input type="checkbox"/> Sediment <input type="checkbox"/> Fire Fighting Foam <input type="checkbox"/> Dumpster Wastes <input type="checkbox"/> Landscape Wastes <input type="checkbox"/> Floatables <input type="checkbox"/> Lavatory Chemical Wastes <input type="checkbox"/> Potable Water System Chemicals <input type="checkbox"/> Rubber Particulates <input type="checkbox"/> Other:				
SC01-01. Are the Airport Operations (619-400-2710) and the Airport Authority Environmental Affairs Department (619-400-2784) notified if there is any evidence of illicit connections or illegal discharges?					
SC01-02. Have employees, tenants and the public been educated about avoiding non-storm water discharges?					
SC01-03. Are outdoor water supplies (hose bibs) limited and posted with appropriate use signs to discourage uses that may pollute the storm drain system/receiving waters?					
SC01-04. Is the site free of evidence of illicit connections and illegal discharges?					
SC01-05. Are landscaped areas not being irrigated during a forecasted rain event or 48 hours after a rain event?					
SC01-06. Are the irrigation systems and landscaped areas being inspected on a regular basis to prevent prohibited over-irrigation and identify any leaks?					
SC01-07. Is air conditioning or refrigerator condensation being directed to landscaping, porous surface, into the sanitary sewer, or being reused?					
SC01-08. Is the satellite water-tracking system being used to irrigate landscaped areas, to apply correct levels of soil moisture, and are City water restriction guidelines being followed?					
SC01-09. Is an hand-held hose equipped with positive shutoff nozzle, hand-held water container, or timed sprinkler system being used to irrigate landscaped areas?					
SC01-10. Is over-irrigation of landscaped areas prohibited?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC02A - Outdoor Equipment Ops and Maintenance Areas Not Applicable at this Facility/Operation

Identify significant materials used at the facility/operation, associated with equipment operations and maintenance.	<input type="checkbox"/> Oil and Grease <input type="checkbox"/> Fuel <input type="checkbox"/> Solvents <input type="checkbox"/> Paint <input type="checkbox"/> Cleaning Solutions <input type="checkbox"/> Lubricants <input type="checkbox"/> Anti freeze <input type="checkbox"/> Battery Acid <input type="checkbox"/> Other:				
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SC02A-01. Are storm drains located directly within equipment operations and maintenance areas?					
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SC02A-02. Is there a designated equipment ops and maintenance area with overhead cover for pollutant sources and/or activity areas?					
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Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC02B - Aircraft, Grnd Vehicle & Eqpmnt Maintenance Not Applicable at this Facility/Operation

Identify significant materials used at the facility/operation, associated with maintenance/repair.	<input type="checkbox"/> Oil and Grease <input type="checkbox"/> Fuel <input type="checkbox"/> Solvents <input type="checkbox"/> Paint <input type="checkbox"/> Cleaning Solutions <input type="checkbox"/> Lubricants <input type="checkbox"/> Anti freeze <input type="checkbox"/> Battery Acid <input type="checkbox"/> Other:				
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SC02B-01. Are employees trained in safe vehicle and equipment operations and maintenance?					
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SC02B-02. Are storm drains located directly within the aircraft, vehicle and equipment maintenance area?					
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SC02B-03. Is there a designated aircraft, vehicle and equipment maintenance area that is either indoors or covered, bermed, enclosed, or sloped/positioned away from the MS4?					
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SC02B-04. Is equipment regularly inspected and tested?					
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SC02B-05. Are visual observations performed to detect fluid leaking from aircraft, vehicles, and equipment? Are drip pans put under leaks if needed?					
SC02B-06. Are aircraft vehicles and equipment maintained in good condition to prevent or correct any leakage of oil or other fluids?					
SC02B-07. Are drip pans used during maintenance?					
SC02B-08. Are drip pans or other open containers containing fluid left around? Are fluids regularly transferred for recycling or proper disposal?					
SC02B-09. Is the use of solvent minimized and less toxic solvent used whenever possible? If solvents cannot be avoided, are parts cleaned and/or drained in self-contained sinks or drum units? Are these units checked regularly for leaks?					
SC02B-10. Are mechanical parts, equipment, and vehicles waiting for repair/removal stored under cover and away from drains?					
SC02B-11. Are spill response materials stored in maintenance areas and on maintenance vehicles? Are used absorbent materials collected/removed and properly disposed of?					
SC02B-12. Are fluids and batteries removed from salvage vehicles and equipment and properly disposed of?					
SC02B-13. Are obsolete and inoperable vehicles and equipment properly disposed of?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC02C – Electric Vehicle Maintenance Not Applicable at this Facility/Operation

Identify significant materials used at the facility/operation, associated with maintenance/repair.	<input type="checkbox"/> Battery Acid <input type="checkbox"/> Metals <input type="checkbox"/> Vehicle Fluids <input type="checkbox"/> Other:				
SC02C-01. Are batteries being overcharged in electric vehicles?					
SC02C-02. Are electric vehicles parked in cool and dry areas when not in use?					

SC02C-03. Are acid resistant drip pans sprinkled with a battery acid neutralizing agent being used when filling or cleaning electric vehicles? Is waste being properly disposed?					
SC02C-04. Are battery acid neutralizing kits located adjacent to charging stations and are properly maintained? Is spill response material after use properly disposed of in an appropriate manner?					
SC02C-05. Are electric vehicle batteries being overfilled? (Is there staining or residue on the ground signaling spillage?)					
SC02C-06. Is maintenance on electric vehicles or batteries being filled avoided during rain events?					
SC02C-07. Are batteries being stored inside buildings in cool and dry places? Are batteries being stored on a nonreactive impervious surface with a cover if stored outside?					
SC02C-08. Are the battery case and terminals being cleaned regularly or when there is a buildup of corrosion? Is the cleaning done with a rag wetted down with a solution of water and battery acid neutralization agent? Is the wastewater being captured and disposed as hazardous waste?					
SC02C-09. Is petroleum jelly or grease being applied on battery terminals in order to slow down the corrosion process?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC03 - Aircraft, Ground Vehicle and Equipment Fueling Not Applicable at this Facility/Operation

Identify significant materials used at the facility/operation, associated with vehicle and equipment fueling.	<input type="checkbox"/> Fuel <input type="checkbox"/> Other				
SC03-01. Is there a designated fueling area that is covered, bermed, enclosed or sloped away from the MS4?					
SC03-02. Are storm drains located directly within fueling areas?					
SC03-03. Are tanks, piping and valves labeled, regularly inspected and kept in good condition?					
SC03-04. Are absorbent booms, spill kits or vacuum equipment present in fueling areas or on fueling vehicles?					
SC03-05. Are fueling areas regularly inspected?					

SC03-06. Are major fueling operations monitored?					
SC03-07. Is secondary containment or cover used when transferring fuel from a tanker truck to a fuel tank?					
SC03-08. Are leak, overfill protection and spill prevention devices used for tanks and piping?					
SC03-09. Are automatic shut-off mechanisms used for fuel tankers and hose connections?					
SC03-10. Are fuel tanks topped off?					
SC03-11. Is access to fuel tanks and fueling vehicles restricted?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC04 - Aircraft, Grnd Vehicle and Equipment Cleaning Not Applicable at this Facility/Operation

Identify significant materials at the facility/operation associated with vehicle and equipment cleaning.	<input type="checkbox"/> Oil and Grease <input type="checkbox"/> Solvents <input type="checkbox"/> Cleaning Solutions <input type="checkbox"/> Lubricants <input type="checkbox"/> Anti freeze <input type="checkbox"/> Other:				
SC04-01. Are vehicles, equipment, and washing areas kept clean and free of waste?					
SC04-02. Are dry washing and surface preparation techniques used where feasible?					
SC04-03. Are storm drains located directly within wash areas?					
SC04-04. Are pigs and cover mats used to cover all catch basins in the surrounding area to contain the wash water during washing activities?					
SC04-05. Are all washing activities performed in a designated area that captures, filters and recycles wash water (eg at new Wash Bay)? Or is reclaimed water used and wash water diverted to a structural treatment control BMP, sanitary sewer, or dead end sump with pump?					
SC04-06. Are routine visual observations performed on washing activities and nearby storm drains to detect and prevent discharges from cleaning activities?					
SC04-07. Are excess materials such as drippings and residue removed by using vacuum methods? Are all waste materials properly disposed of?					

SC04-08. Is a hand-held hose equipped with a positive shut-off nozzle being used to wash vehicles?					
SC04-09. Are vehicles, aircraft, and equipment being washed between 4pm and 10am from November 1 to May 31 and between 6pm and 10am from June 1 to October 31?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC05 - Aircraft Deicing/Anti-Icing Not Applicable at this Facility/Operation

Identify significant materials used at the facility/operation, associated with aircraft deicing/anti-icing.	<input type="checkbox"/> Ethylene Glycol <input type="checkbox"/> Propylene glycol <input type="checkbox"/> Other:				
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SC05-01. Are deicing/anti-icing operations performed only in designated areas that are covered, bermed, enclosed, or sloped/positioned away from the MS4?					
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SC05-02. Are deicing/anti-icing operations monitored regularly to ensure quantities of fluids used are at a minimum while not jeopardizing aircraft safety and operation?					
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SC05-03. Are all fluids captured or diverted to a treatment control BMP, recycling system, sanitary sewer, or dead end sump with pump?					
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SC05-04. Are the designated anti-icing/deicing ramp areas cleaned following deicing/anti-icing operations with wet-type sweepers to remove and properly dispose of deicing fluids from the paved areas?					
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Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC06 - Outdoor Loading/Unloading of Materials Not Applicable at this Facility/Operation

Identify significant materials loaded or unloaded at the facility/operation.	<input type="checkbox"/> Oil and Grease <input type="checkbox"/> Fuel <input type="checkbox"/> Pesticides/Herbicides/Fertilizers <input type="checkbox"/> Solvents <input type="checkbox"/> Cleaning Solutions <input type="checkbox"/> Battery Acid <input type="checkbox"/> Other:				
SC06-01. Are contractors/haulers aware of and do they adhere to BMP specifications that are relevant to the loading and unloading of materials?					
SC06-02. Are storm drains located directly within loading/unloading areas?					
SC06-03. Are loading/unloading areas graded, bermed, covered or otherwise protected to prevent contact with rainfall and storm water run-on and run-off?					
SC06-04. Is loading/unloading equipment regularly checked for leaks?					
SC06-05. Are drip pans or other containment measures used under hoses?					
SC06-06. Are loading and unloading areas kept free of spills and debris by containing and absorbing leaks during transfers and spillage from hose disconnections or cargo pallets? Is residue or debris properly disposed of?					
SC06-07. Are spill kits or other measures available to contain spills in accessible locations, near areas where spills may be likely to occur and/or to prevent tracking off-site?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC07 - Outdoor Material Storage Not Applicable at this Facility/Operation

Identify significant materials stored outdoors at the facility/operation.	<input type="checkbox"/> Oil and Grease <input type="checkbox"/> Solvents <input type="checkbox"/> Paint <input type="checkbox"/> Deicing/Anti-Icing Fluids <input type="checkbox"/> Cleaning Solutions <input type="checkbox"/> Lubricants <input type="checkbox"/> Anti freeze <input type="checkbox"/> Battery Acid <input type="checkbox"/> Fuel <input type="checkbox"/> Pesticides/Herbicides/Fertilizers <input type="checkbox"/> Metals <input type="checkbox"/> Deicing/Anti-Icing Fluids <input type="checkbox"/> Sediment <input type="checkbox"/> Fire Fighting Foam <input type="checkbox"/> Dumpster Wastes <input type="checkbox"/> Landscape Wastes <input type="checkbox"/> Floatables <input type="checkbox"/> Lavatory Chemical Wastes <input type="checkbox"/> Potable Water System Chemicals <input type="checkbox"/> Rubber Particulates <input type="checkbox"/> Other:				
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Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC08 - Waste Handling and Disposal Not Applicable at this Facility/Operation

Identify wastes stored, handled, disposed of or recycled at the facility/operation.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Oil and Grease <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Lubricants <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Anti freeze <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Solvents <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Cleaning Solutions <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Trash <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Other: (I=indoors; O=outdoors)				
SC08-01. Does facility/operation make efforts to reduce amount of waste generated (e.g. use only amount needed, use solvents more than once, practice good inventory control, do not over-buy, purchase long-lasting products, etc.)?					
SC08-02. Are materials recycled whenever possible?					
SC08-03. Is there a designated waste/recycling area with restricted access?					
SC08-04. Are waste/recycling areas located directly in the path of storm drains?					
SC08-05. Is there secondary containment and cover provided for wastes?					
SC08-06. Are wastes that are not contained or covered prevented from contacting storm water run-on and run-off (e.g. by use of berms)?					
SC08-07. Are all dumpsters covered and kept closed and drain holes plugged?					
SC08-08. Are waste collection and storage containers inspected frequently for leaks, spills, compromised structural integrity, and proper closure seal?					
SC08-09. Are employees trained to properly handle and dispose of waste materials?					
SC08-10. Are wastes and recyclable materials stored in appropriate containers, segregated, and properly labeled?					
SC08-11. Are wastes characterized, where appropriate, and properly disposed of?					
SC08-12. Does facility/operation make efforts to prevent overflow of waste containers by timely pickup/service and removal?					
SC08-13. Is dumpster cleaning performed in designated areas that are bermed to contain wash water? Are all collected fluids properly disposed of or discharged to the sanitary sewer?					

SC08-14. Does facility/operation track waste generated, stored, and disposed?					
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Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC09 - Building and Grounds Maintenance Not Applicable at this Facility/Operation

Identify significant materials used in/produced by building and grounds maintenance.	<input type="checkbox"/> Oil and Grease <input type="checkbox"/> Pesticides/Herbicides/Fertilizers <input type="checkbox"/> Sediment <input type="checkbox"/> Landscape Wastes <input type="checkbox"/> Other:				
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SC09-01. Have all areas of exposed soil been treated to prevent erosion (e.g. landscaped, re-vegetated, or contain erosion or sediment controls)?					
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SC09-02. Are all landscaped areas being weeded by hand?					
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SC09-03. Are integrated pest management methods implemented? Is the use of pesticides, herbicides, and fertilizers minimized, and are they used according to directions?					
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SC09-04. Are temporary BMPs such as portable booms and vacuum trucks used to contain water from outdoor building or structure wash down activities? Is reclaimed water being used where possible, and all waste water collected and properly disposed of through a permitted connection to the sanitary sewer?					
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SC09-05. Are grass trimmings, leaves, sticks, or other collected vegetation composted where possible, or appropriately disposed?					
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SC09-06. Are stockpiled materials placed away from watercourses and drainage inlets and bermed and covered to prevent material release, or removed at the end of the day?					
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SC09-07. Is spilled fertilizer being cleaned up on sidewalks or pavement before application of irrigation water and wash water properly disposed of?					
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SC09-08. Is damaged asphalt repaired when degradation is observed?					
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SC09-09. Is the exposure of galvanized or rusty metal structures to rainfall reduced where possible?					
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Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC10 - Employee Training Not Applicable at this Facility/Operation

SC10-01. Is the facility/operation SWMP/SWPPP up to date, including completion of amendment pages?					
SC10-02. Have employees and contractors been trained on storm water pollution prevention education covering all storm water issues, implementation and effectiveness of BMPs, spill prevention and cleanup, hazardous materials management, right-to-know awareness, and SWMP or SWPPP implementation?					
SC10-03. Are any additional training programs in place (e.g. Spill Plan implementation, the prohibition on cross-connections between sanitary sewers and storm drains, and contractor responsibility to comply with adopted BMPs)?					
SC10-04. Does facility/operation have the last 5 years of training records for current employees that have participated in the storm water pollution prevention education program and other related training programs?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC11 - Lavatory Service Operation Not Applicable at this Facility/Operation

Identify significant materials at the facility/operation associated with lavatory service operations.	<input type="checkbox"/> Lavatory Chemicals <input type="checkbox"/> Lavatory Waste <input type="checkbox"/> Lavatory Truck Wash Water <input type="checkbox"/> Other:				
SC11-01. Are triturator facilities covered and bermed with low roll-over type berms?					
SC11-02. Are triturator facilities located directly in the path of storm drains?					

SC11-03. Are all hoses and fittings used for transferring lavatory waste regularly inspected and all equipment kept in good condition?					
SC11-04. Are absorbent booms, spill kits, and other containment equipment present on lavatory service equipment and at the triturator facility?					
SC11-05. Are all mixing and transfers of surfactants and disinfectants performed within the covered and bermed triturator area or under a cover?					
SC11-06. Are drip pans used when draining aircraft lavatory systems? Is collected drippage immediately dumped into the bulk storage tank on the lavatory service cart or lavatory service truck?					
SC11-07. Are all spills of lavatory wastes and lavatory chemicals immediately cleaned and properly disposed of at the triturator facility?					
SC11-08. Are all hoses, valves, and equipment secured when transporting lavatory waste?					
SC11-09. Are lavatory truck cleanouts/backflushing and lavatory waste discharging to sanitary sewer connections performed ONLY at triturator facilities?					
SC11-10. Are all hoses drained completely?					
SC11-11. Does lavatory service cart or truck have spill prevention equipment installed?					
SC11-12. Do temporary sanitary facilities have secondary containment and are located away from watercourses, drainage facilities, traffic circulation, and high wind areas?					
SC11-13. Are temporary sanitary facilities regularly inspected for leaks and spills? Are temporary sanitation facilities being cleaned or replaced when necessary?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC12 - Outdoor Washdown/Sweeping,

Not Applicable at this Facility/Operation

SC12-01. Is sweeping and scrubbing equipment regularly inspected and maintained to ensure effectiveness at removing pollutants and to avoid leaks?					
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SC12-02. Are roads, ramp areas, apron areas and if feasible, runway/taxiway areas swept regularly?					
SC12-03. Is sweeping performed during dry weather using dry sweeping techniques where feasible?					
SC12-04. Are sweepers operated at manufacturer-recommended optimal speeds?					
SC12-05. Are debris and sediment from sweeping properly disposed of?					
SC12-06. Are outdoor washdown areas bermed to contain the wash water and to prevent run-on to adjacent areas?					
SC12-07. Is the amount of water used during outdoor washdown activities minimized?					
SC12-08. Is wash water collected and filtered and reused, or discharged to the sanitary sewer system through a permitted connection at designated and approved discharge facilities (i.e. dewatering bin)?					
SC12-09. Does facility maintain records of the sweeping or scrubbing activities including the miles swept or scrubbed and the amount of waste collected?					
SC12-10. Is a water efficient filtering and recycling device used to wash sidewalks, and wash water prevented from entering the storm drain?					
SC12-11. Is reclaimed or recycled/filtered water used where possible?					
SC12-12. Are roads, ramp areas, and apron areas scrubbed on an as-needed basis?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC13 - Fire Fighting Foam Discharge

Not Applicable at this Facility/Operation

Identify significant materials at the facility/operation associated with testing fire fighting equipment.

Aircraft Fire Fighting Foam Other:

SC13-01. Are fire fighting foam discharge/testing areas located directly in the path of storm drains?					
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SC13-02. Is fire fighting equipment regularly inspected and tested?					
SC13-03. Is there a designated fire fighting foam testing area that captures or diverts all foam waste to a structural treatment control, sanitary sewer, or dead end sump with pump?					
SC13-04. Are sump(s) and/or oil water separator(s) serviced regularly?					
SC13-05. Are fire fighting foam testing areas prevented from contacting storm water run-on and run-off or from reaching storm drains (e.g. by the use of berms or sandbags)?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC14 - Potable Water System Flushing

Not Applicable at this Facility/Operation

Identify significant materials used at the facility/operation, associated with aircraft potable water system flushing and water truck cleaning/flushing.

Purine Chlorine Bleach Other:

SC14-01. Are the aircraft potable water system or water truck cleaning/flushing areas located directly in the path of storm drains or surface pollutants?

SC14-02. Is there a designated cleaning/flushing area that captures or diverts all wastewater away from storm drains, or to a structural treatment control, sanitary sewer or dead end sump with pump?

SC14-03. Are cleaning/flushing areas prevented from contacting stormwater run-on and run-off (e.g. by the use of berms)?

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC15 - Runway Rubber Removal

Not Applicable at this Facility/Operation

Identify significant materials generated by runway rubber removal activities.

Rubber Particles Dirt Particles Other:

SC15-01. Is the amount of water used during runway rubber removal activities minimized?					
SC15-02. Is the waste water produced from runway rubber removal activities prevented from entering the storm drainage system by immediately collecting and properly disposing of it?					
SC15-03. Are manual or mechanical cleaning methods (e.g. mechanical street sweepers) used to remove rubber particulates from the runway and adjacent paved areas following runway rubber removal activities?					
SC15-04. Are storm drain inlets, catch basins, and runway drainage areas inspected following runway rubber removal activities for any resulting debris? Is debris removed and properly disposed of?					
SC15-05. Is reclaimed water used where possible?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC16 - Parking Lots

Not Applicable at this Facility/Operation

SC16-01. Are parking lots posted with “No Littering” signs and have regularly emptied and covered trash receptacles?					
SC16-02. Are all parking lot areas swept regularly and accumulated debris and sediment removed?					
SC16-03. Are sweepers operated at manufacturer-recommended optimal speeds?					
SC16-04. Is sweeping in parking lot areas performed when the number of parked vehicles is lowest to maximize areas swept?					
SC16-05. Does facility maintain records of the sweeping activities including the miles swept and the amount of waste collected?					
SC16-06. Are oily spots from parking lot surfaces cleaned with absorbent materials?					
SC16-07. Are repairs to parking lot surfaces performed during periods of dry weather?					
SC16-08. Are nearby storm drain inlets, catch basins, and manholes covered and sealed during parking lot repairs?					

SC16-09. Are drip pans and absorbent materials used to catch and collect drips and leaks from paving equipment that is not in use?					
SC16-10. Are hot bituminous materials used for parking lot repairs preheated and transferred or loaded away from storm drain inlets?					
SC16-11. Are used absorbent materials, debris, and collected drips properly disposed of?					
SC16-12. Does facility make efforts to avoid draining rooftop downspout drains onto paved parking lot surfaces?					
SC16-13. Are waste materials generated from parking lot repairs being removed by sweeping, vacuum, or other dry methods?					
SC16-14. Are waste materials and debris from parking lot repairs being stored in containers or in stockpiles with a cover and berm around them and away from storm drain inlets?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC17 - Drainage System Maintenance

Not Applicable at this Facility/Operation

SC17-01 Are storm drains stenciled with "No Dumping" messages?					
SC17-02. Does facility/operation conduct routine self-inspections of the storm water drainage system? Does the Authority inspect the entire MS4 at least annually, between the dates of May 1 and September 30?					
SC17-03. Are appropriate measures taken to prevent discharge during MS4 cleaning and maintenance?					
SC17-04. Does facility clean and maintain storm drain inlets, catch basins, pipes, and other conveyance structures before the wet season and as needed?					
SC17-05. Does facility clear open channels of accumulated litter in a timely manner?					
SC17-06. Does facility properly dispose of all accumulated sediments, contaminants, debris, and waste water from cleaning and maintenance activities?					
SC17-07. Does facility maintain records for all inspections, cleaning, and maintenance including the quantity of waste removed?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC18 - Housekeeping Not Applicable at this Facility/Operation

SC18-01. Does facility/operation regularly perform and document self-inspections and evaluations of the implemented BMPs?					
SC18-02. Is facility/operational area kept clean and orderly?					
SC18-03. Are trash receptacles covered and placed in appropriate locations?					
SC18-04. Does facility sweep all operational areas at least once per week to prevent the accumulation of sediments, debris, and contaminants?					
SC18-05. Are all debris and sediment from sweeping properly disposed of?					
SC18-06. Are significant materials stored in the appropriate containers that are properly sealed and labeled?					
SC18-07. Are significant materials stored within secondary containment?					
SC18-08. Are significant materials stored in a restricted access area?					
SC18-09. Are Material Safety Data Sheets (MSDSs) readily available for all significant materials?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC19 - Safer/Alternative Products Not Applicable at this Facility/Operation

SC19-01. Does facility/operation use alternative products that are "Regionally Accepted" and are identified as non-toxic, less toxic or biodegradable?					
SC19-02. Does facility maximize the purchase and use of products containing recycled materials?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC20 – Erodible Areas Not Applicable at this Facility/Operation

Identify significant materials at the facility/operation associated with erodible areas.	<input type="checkbox"/> Sediments <input type="checkbox"/> Other:				
SC20-01. Are erosion control BMPs implemented to stabilize soils?					
SC20-02. Are wind erosion control BMPs implemented to control dust?					
SC20-03. Are effective perimeter controls maintained?					
SC20-04. Are loose soils and slopes stabilized by re-vegetation or non-vegetation stabilization methods prior to a forecast storm event?					
SC20-05. Is offsite material tracking prevented?					
SC20-06. Is all stormwater diverted away from erodible materials?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SC21 – Construction Repair/Remodel Not Applicable at this Facility/Operation

Identify significant materials at the facility/operation associated with construction activity.	<input type="checkbox"/> Asphalt <input type="checkbox"/> Basic Materials <input type="checkbox"/> Concrete <input type="checkbox"/> Construction Material <input type="checkbox"/> Debris <input type="checkbox"/> Floatables <input type="checkbox"/> Fuel <input type="checkbox"/> Metals <input type="checkbox"/> Oil and Grease <input type="checkbox"/> Paint <input type="checkbox"/> Sediments <input type="checkbox"/> Sealants <input type="checkbox"/> Septic Wastes <input type="checkbox"/> Solvents <input type="checkbox"/> Suspended Solids <input type="checkbox"/> Trash <input type="checkbox"/> Synthetic Organics <input type="checkbox"/> Vehicle Fluids <input type="checkbox"/> Other:				
SC21-01. Are outdoor repairs and construction avoided during rain events or during any period the National Weather Service is forecasting 50% chance of rain?					
SC21-02. Are inactive areas stabilized with temporary vegetation or non-vegetation stabilization methods?					
SC21-03. Are wind erosion control BMPs implemented to control dust and is traffic limited to stabilized roadways within the site where possible?					
SC21-04. Are effective perimeter and runon/runoff controls maintained?					

SC21-05. Are inlet protection BMPs effectively maintained?					
SC21-06. Is there a stabilized construction entrance to prevent tracking?					
SC21-07. Are streets or paved areas swept of any loose dirt?					
SC21-08. Are all chemicals, liquids, erodible landscape materials and fertilizers covered and contained when not in use?					
SC21-09. Is erodible landscape material application discontinued within 2 days prior to or during a forecasted rain event?					
SC21-10. Are stockpiles covered and bermed when inactive and before rain? Are plastic undersheets used when appropriate?					
SC21-11. Are waste containers covered at the end of each work day and when its raining?					
SC21-12. Are concrete washout areas in designated areas away from inlets and drainage courses? Are concrete washout areas properly constructed and maintained?					
SC21-13. Do temporary sanitation facilities have secondary containment and are located away from watercourses, drainage facilities, and traffic circulation?					
SC21-14. Is water usage minimized and reclaimed water used where possible?					
SC21-15. Are any particulate generating activities contained?					
SC21-16. Are areas designated for fueling located away from storm drains?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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SR01 - Spill Prevention, Control and Clean up

Not Applicable at this Facility/Operation

SR01-01. Does facility/operation have current Spill Plan and spill prevention and response procedures?					
SR01-02. Does facility/operation post a summary of the spill plan, and spill response procedures, at key locations, identifying the spill cleanup coordinators, location of cleanup equipment, and phone numbers of regulatory agencies to be contacted in the event of a spill?					

SR01-03. Are relevant employees and contractors trained in the implementation of the Spill Plan and spill control procedures?					
SR01-04. Are leak and spill prevention devices used?					
SR01-05. Are adequate spill kits placed in appropriate locations?					
SR01-06. In the event of a spill, does facility notify Airport Operations (619-400-2710), the Airport Authority Environmental Affairs Department (619-400-2784), and any agencies or companies identified in the Spill Plan or spill prevention and response procedures?					
SR01-07. In the event of a spill or release, does facility immediately follow procedures identified in the Spill Plan or facility spill prevention and response procedures?					
SR01-08. Does facility use only dry cleaning methods?					
SR01-09. Are all used spill control and clean-up materials properly disposed of?					
SR01-10. Is waste water from washing activities captured by vacuum and properly disposed of, or diverted to a structural treatment control, sanitary sewer, or dead end sump with pump?					

Additional Comments:

BMPs	N/A	Fully	Partial	Not	Comments
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TC 01 - Structural Treatment Control BMPs Not Applicable at this Facility/Operation

Identify each structural treatment control BMP currently implemented at this facility/operation.

Detention Basin TC-22		Vegetated Buffer Strip TC-31		Infiltration Trench TC-10	
Wet Pond TC-20		Harvest and Reuse TC-12		Infiltration Basin TC-11	
Constructed Wetland TC-21		Bioretention TC-32		Water Quality Inlet TC-50	
Vegetated Swale TC-30		Media Filter TC-40		Multiple Systems TC-60	
Biotreatment MP-20		Stormwater Filter MP-40		Wet Vault MP-50	
Gravity Separator MP-51		Drain Inlet Insert MP-52			

Other

TC01-01. Does facility regularly inspect, clean, and maintain all structural treatment control BMPs to prevent the accumulation or resuspension of oil, grease, floating debris and sediments?					
TC01-02. During cleaning operations, are all effluent valves at the treatment control device closed, all standing water properly disposed of, and all accumulated waste removed? Are oil absorbent pads in the treatment control device replaced prior to the start of the wet season and as needed?					
TC01-03. Are records for all inspections, cleaning, and maintenance of structural treatment control BMPs documented and maintained?					
TC01-04. Is an annual inventory of all structural treatment control BMPs performed?					

Additional Comments:

Photos: Y N

Immediate "Action Items" Identified: Y N

Appendix G - Miscellaneous Support Materials

CASQA FORMS

Visual Observation Log - Monthly	
Date and Time of Inspection:	Report Date:
Facility Name:	
Weather	
Antecedent Conditions (last 48 hours):	Current Weather:
NSWD Observations	
Were any authorized non-stormwater discharges observed?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Were any unauthorized non-stormwater discharges observed?	Yes <input type="checkbox"/> No <input type="checkbox"/>
If yes to either, identify source:	
Outdoor Industrial Equipment and Storage Area Observations	
Complete Monthly BMP Inspection Report	Yes <input type="checkbox"/> No <input type="checkbox"/>
Drainage Area 1:	Were any deficiencies or any other potential source of industrial pollutants observed? Yes <input type="checkbox"/> No <input type="checkbox"/>
Drainage Area 2:	Were any deficiencies or any other potential source of industrial pollutants observed? Yes <input type="checkbox"/> No <input type="checkbox"/>
Drainage Area 3:	Were any deficiencies or any other potential source of industrial pollutants observed? Yes <input type="checkbox"/> No <input type="checkbox"/>
If yes to any, describe:	
Exception Documentation (explanation required if inspection could not be conducted).	
Inspector Information	
Inspector Name:	Inspector Title:
Signature:	Date:

Visual Observation Log – Sampling Events			
Date and Time of Inspection:		Report Date:	
Facility Name:			
Weather			
Antecedent Conditions (last 48 hours):		Weather:	
Precipitation Total:		Predicted % chance of rain:	
Estimate storm beginning: _____	Estimate storm duration: _____	Estimate time since last storm: _____	Rain gauge reading: _____
(date and time)	(hours)	(days or hours)	(inches)
Sampling Event Observations			
Observations: If yes identify location and observe drainage area to identify probable cause			
Odors	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Floating material	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Suspended Material	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Sheen	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Discolorations	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Turbidity	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
NSWD Observations			
Were any authorized non-stormwater discharges observed?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
Were any unauthorized non-stormwater discharges observed?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes to either, identify source			
Drainage Area Observations			
Drainage Area		Deficiencies Noted	

Exception Documentation (explanation required if inspection could not be conducted).

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Inspector Information

Inspector Name:

Inspector Title:

Signature:

Date:

Sampling Log		
Facility Name:	Date:	Time Start:
Sampler Name:		
Field Meter Calibration		
pH Meter ID No./Description:		
Calibration Date/Time:		
Field pH Measurements		
Discharge Location Identifier	pH	Time
Samples Collected		
Discharge Location Identifier	Constituent	Time
	Oil and Grease	
	Total Suspended Solids	
Additional Sampling Notes:		
Time End:		



MS4 Outfall Visual Observation Field Datasheet

New Site? Yes No

Source Investigation Follow-up for _____

General Site Description

Site ID				Site Type		Sample Event ID	
Location						Sample Event Type	
Date	Time		Latitude	° N (NAD83)		HU	
Staff	TB Guide		Longitude	° W (NAD83)		HSA	

Historical Outfall Dry Weather Flow Info: Unknown Persistent Transient Dry

Conveyance (Check one only) Concrete Channel Natural Creek Earthen Channel Manhole Outfall Other _____

Flow Status Flowing Ponded Tidal Dry

Flow Reaches Receiving Water? Yes No

Non-Stormwater Flow Source? Yes No Unknown

Evidence of Obvious IC/ID?* Odor Color High Flow
*Requires immediate follow-up

Outfall Structural Condition

- Normal
- Damaged
- Scour Pond
- Blockage

Potential Source Ground Water Irrigation Runoff Permitted Discharge
 Vehicle Washing Power Washing Pool/Spa Discharge Water Line Break
Unknown Tidal Other _____

Was Flow Source Eliminated? Yes No

Notes: _____

Weather Clear Partly Cloudy Overcast Fog
Last Rain > 72 hours < 72 hours but ≤ 0.1"
Tide N/A Low Incoming High Outgoing Tide Height _____ ft.

Observations

Odor	<input type="checkbox"/> None	<input type="checkbox"/> Sewage	<input type="checkbox"/> Sulfides	<input type="checkbox"/> Petroleum	<input type="checkbox"/> Manure	<input type="checkbox"/> Other
Color	<input type="checkbox"/> None	<input type="checkbox"/> Yellow	<input type="checkbox"/> Brown (Silty)	<input type="checkbox"/> White (Milky)	<input type="checkbox"/> Gray	<input type="checkbox"/> Other
Clarity	<input type="checkbox"/> Clear	<input type="checkbox"/> Cloudy(<4" vis)	<input type="checkbox"/> Murky(>4" vis)			<input type="checkbox"/> Other
Floatables	<input type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Bubbles/Foam	<input type="checkbox"/> Sheen <input type="checkbox"/> Algae	<input type="checkbox"/> Biofilm	<input type="checkbox"/> Other
Deposit	<input type="checkbox"/> None	<input type="checkbox"/> Coarse Particulate	<input type="checkbox"/> Fine Particulate	<input type="checkbox"/> Stains/Minerals	<input type="checkbox"/> Oily Deposit	<input type="checkbox"/> Other
Vegetation	<input type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive		<input type="checkbox"/> Other
Biology	<input type="checkbox"/> None	<input type="checkbox"/> Insects	<input type="checkbox"/> Algae	<input type="checkbox"/> Snails	<input type="checkbox"/> Fish	<input type="checkbox"/> Birds <input type="checkbox"/> Cray Fish <input type="checkbox"/> Other

MS4 Outfall Flow Estimate

Width	ft
Depth	ft
Velocity	ft/sec
Length of Ponded Area	ft

Flowing Pipe Diameter _____ ft. Depth _____ ft. Velocity _____ ft/sec
Bottle Fill Volume _____ ml Time to Fill _____ seconds
Leaf Float Distance _____ ft. Time _____ seconds
Estimated Flow Rate _____ cfs gpm

Trash Present? Yes No **Trash Assessment** High (>400 pieces) Medium (50 to 400 pieces) Low (<50 pieces)

Evidence of Illegal Dumping Yes No **Evidence of Illegal Connection** Yes No

Accessibility Easy Moderate Difficult Critical Habitat

Comments:



**COUNTY OF SAN DIEGO
WATERSHED PROTECTION PROGRAM**

**DEPARTMENT OF PUBLIC WORKS
5510 OVERLAND AVE., SUITE 410
SAN DIEGO, CA 92123**

Site Type: VOM (Visual Outfall Monitoring) – For sites that are within the visual outfall monitoring program.
A, B, C, D... (Source Investigation) – For locations that are aimed at source follow-up investigations.

Sample Event Type: Visual Observation
Confirmation
Source Investigation
Duplicate
Blank
Lab Standard

Watersheds

Hydro. Unit	Watershed
902	Santa Margarita River
903	San Luis Rey River
904	Carlsbad Management Area
905	San Dieguito River
906	Los Penasquitos
907	San Diego River
908	Pueblo San Diego
909	Sweetwater River
910	Otay River
911	Tijuana River

Appendix G - Miscellaneous Support Materials

**EXAMPLE
SIERRA LAB CHAIN OF CUSTODY**

