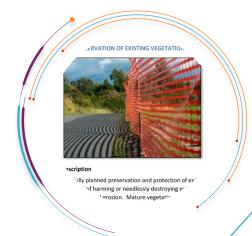
DOTA Construction Site Runoff & PBMP Program Updates

Mikki Slentz, P.E., CPESC

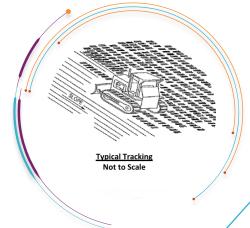
DOTA Construction Activities Best Management Practice Manual Updates

The latest updates to the DOTA Construction Activities BMP Manual have been released.

DOTA Construction Activities BMP Manual Updates



Representative photos provided for each BMP.



Additional typical details added for enhanced clarity.

Clearer, more consistent language throughout.

DOTA Construction Activities BMP Manual Updates

- The previous manual used unique identifiers; the updated version aligns with standard industry identifiers for easier reference and consistency.
- The new manual introduces several new construction BMPs that were not previously included.

Erosio	n Control (EC)	
EC-0	Employee and Subcontractor Training	NEW BMP
EC-1	Scheduling	
EC-2	Preservation of Existing Vegetation	NEW BMP
EC-3	Hydromulch	NEW BMP
EC-5	Soil Binders	NEW BMP
EC-7	Geotextiles and Mats	
EC-8	Mulching	NEW BMP
EC-9	Temporary Earth Dikes and Swales	
EC-10	Velocity Dissipation Devices	NEW BMP
EC-11	Slope Drains	NEW BMP
EC-12	Streambank Stabilization	NEW BMP
EC-13	Temporary Riprap and Gabion Inflow Protection	NEW BMP
EC-14	Grass and Planting	
EC-15	Slope Roughening and Terracing	NEW BMP
EC-16	Topsoil Management	
EC-17	Dust Control	
Cadina	1	

Sedim	ent Control (SE)	
SE-1	Silt Fence	
SE-3	Sediment Trap	
SE-4	Check Dams	NEW BMP
SE-6	Gravel Bag Barrier	NEW BMP
SE-8	Sandbag Barrier	
SE-10	Storm Drain Inlet Protection	NEW BMP
SE-12	Potential Sediment Source Location	
SE-13	Level Spreader	NEW BMP
SE-15	Vegetated Buffer Strips and Channels	NEW BMP
SE-16	Compost Filter Berm or Sock	

Tracking Control (TR)					
TR-1	Stabilized Construction Entrance/Exit				
TR-2	Construction Road Stabilization				
TR-3	Street Sweeping	NEW BMP			

Site Ope	rations (SO)					
SO-1	Water Conservation and Usage Practices NEW BM					
SO-2	Dewatering Operations					
SO-3	Milling and Paving Operations					
SO-4	Temporary Stream Crossing	NEW BMP				
SO-5	Temporary Water Diversion	NEW BMP				
SO-6	Illicit Discharge, Illegal Connection, Spill, and Leak Prevention and Control					
SO-8	Vehicle and Equipment Cleaning					
SO-9	Vehicle and Equipment Refueling					
SO-10	Vehicle and Equipment Operation, Storage, and Routine Maintenance					
SO-12	Concrete Curing					
SO-13	Structure Construction and Painting					
SO-14	Material Over Water	NEW BMP				
SO-15	Demolition Adjacent to Water	NEW BMP				
SO-16	Temporary Batch Plants NEW BN					
SO-17	Hydrotesting Effluent Management					
SO-18	Water-Jet Wash and Hydro-Demolition Water Management					
Material	s Handling and Waste Management (WM)					
VAID A 4	Matarial Dalinamia and Charana					

Materials Handling and Waste Management (WM)					
WM-1	Material Delivery and Storage				
WM-2	Material Use				
WM-3	Protection of Stockpiles				
WM-5	Solid Waste Management - Debris				
WM-6	Solid Waste Management - Hazardous Waste				
WM-7	Contaminated Soil Management				
WM-8	Concrete Waste Management				
WM-9	Sanitary/Septic Waste Management				
WM-10	Liquid Waste Management	NEW BMP			

DOTA Construction Activities BMP Manual Updates

- Manual layout largely unchanged.
- Each BMP includes:
 - Description
 - Limitations (if applicable)
 - Table with sections for practices and maintenance
- Tabular format retained for easy reference by designers, contractors, and inspectors.

F-10 STORM DRAIN INLET PROTECTION



Description

Storm drain inlet protection consists of a sediment filter or an impounding area around or upstream of a corm drain, drop inlet, or curb inlet. Storm drain inlet protection measures temporarily pond runoff before it enters the storm drain, allowing sediment to exce. Some configurations also remove sediment by filtering.

Select the storm drain milet protection type most suitable to the site conditions. Acceptable storm drain inlet protection measures include, but are not limited to, the following (details presented below):

- Perimeter control: Appropriate for drainage basins with less than a 5 percent slope, sheet flows, and flows under 0.5 cubic foot per second.
- Excavated drop inlet sediment trap: An excavated area around the inlet to trap sediment.
 Appropriate for grubbed and graded areas.
- Gravel bag barrier: Used to create a small sediment trap upstream of storm drain inlets on sloped, paved streets. Appropriate for sheet flow or when concentrated flow may exceed 0.5 cubic foot per second, and where flow must pass over the barrier to prevent flooding.
- Gravel and wire mesh filter: Used on curb or drop inlets where construction equipment may drive over the inlet.
- Sediment control with supports: Suitable for curb inlets to prevent sediment control BMPs from becoming displaced or falling into a storm drain inlet. Supports must not compromise the effectiveness of sediment controls.
- Temporary geotextile insert: Fabric measures installed across the opening of a curb or grated inlet, held in place by the grate or other securement around the full perimeter of the inlet opening. Application dependent on type and manufacturer.

Limitations

- Storm drain inlet protection must not create a potential hazard to traffic and pedestrians.
- Drainage area shall not exceed 1 acre. For drainage areas larger than 1 acre, runoff should be routed to a sediment-trapping device designed for larger flows (SE-3 Sediment Traps).
- · Runoff may bypass protected storm drain inlets on slopes.
- · Ponding may occur at a protected inlet, with possible short-term flooding.
- Straw bales are NOT effective storm drain inlet protection.

SE-10 STO	RM DRAIN INLET PROTECTION
Practice	
SE-10.P1	Protect every storm drain inlet with the potential to receive runoff from disturbed areas, either by covering the inlet with a sediment filter or promoting sedimentation around or directly upstream of the inlet.
SE-10.P2	Filter fabric must be of sufficient strength and permeability to allow stormwater to pass through while retaining sediment. Filter fabric must be anchored such that the fabric will not fall into the drain when the grate is removed for maintenance.
SE-10.P3	For proprietary devices, install and secure storm drain inlet protection per manufacturer's specifications.
SE-10.P4	Provide area around the inlet for water to pond without flooding structures and property.
Maintenar	nce and Inspection
SE-10.M1	Repair damaged storm drain inlet protection devices by the end of the same workday that the damage was observed.
SE-10.M2	Remove, clean, or replace sediment protection measures as sediment accumulates, the filter becomes clogged, or performance is compromised by the end of the same workday that the sediment, clogging, or other issues were observed.
SE-10.M3	Where there is evidence of sediment accumulation adjacent to the storm drain inlet protection measure or along the runoff flow pattern toward the inlet, such as within a concrete gutter or swale, remove the deposited sediment by the end of the same workday that the sediment was observed.
SE-10.M4	Report any storm drain inlet protection failures and pollutant discharges (including sediment) into the storm drains to AIR-EE immediately after the failure or discharge is observed.
SE-10.M5	Remove storm drain inlet protection measures when: Directed by Airport Manager or other DOTA entity in anticipation of forecasted rain events with a potential threat to public safety, loss of property, or significant erosion. Apparent flooding concerns develop that pose an immediate threat to public safety, loss of property, or significant erosion. Restore storm drain inlet protection devices immediately following notice from DOTA or the cessation of flooding concerns.
SE-10.M6	Prior to removing or replacing storm drain inlet protection measures for maintenance or flooding prevention, remove sediment and debris that has accumulated on the storm drain inlet protection device and adjacent to the storm drain inlet to prevent it from falling into the drain. Prior to re-installing storm drain inlet protection measures, inspect storm drain inlet and remove any debris or sediment from the drain inlet.
SE-10.M7	Provide training for personnel detailing the location and BMP storm drain protection from sediment discharge and construction site contaminants.

DOTA Post-Construction Best Management Practice Manual Updates

The latest updates to the DOTA PBMP Manual have been released.

DOTA PBMP Manual Comparison



The old DOTA PBMP manual was 280 pages, while the new version is only 126 pages - a 55% reduction in length.



The new manual has been streamlined and simplified, removing unnecessary unnecessary information to focus on the core technical requirements. requirements.



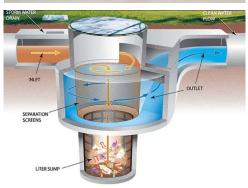
The technical details remain largely the same, but with more clarity and conciseness in the new manual layout.

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PBMP Categories in Order of Preference







Low Impact Development Biofilter Bioretention **Bioswale** Harvesting/Reuse

Permeable Pavement Subsurface Infiltration **Vegetated Buffer Strip** Dry Well/Drainage Well Vegetated Swale

Source Control Dispersion Fueling Area Design Loading/Unloading Area Design Maintenance Area Design

Material Storage Area Design **Triturator Facility Design** Washing Area Design Waste Management Area Design

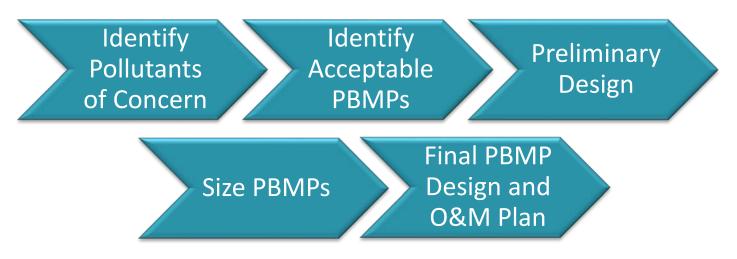
Treatment Control

Alternative Wetland **Dry Detention Basin Evaporation Pond** Hydrodynamic Separator

Drain Inlet Insert Oil Water Separator Sand Filter Subsurface Detention

Infiltration Basin

PBMP Design Process





Pollutants of Concern for Site Activities at DOT Airports

Site Activity	Bacteria	Metals	Nutrients	Oil & Grease	Organic Compounds	Pesticides	Sediment	Trash
Aircraft, Vehicle, or Equipment Parking Area or Travel		X		X	Х		X	X*
Corridor (e.g., roadway, runway, taxiway)								
Aircraft, Vehicle, or Equipment Fueling		Χ		Χ	Χ			X
Aircraft, Vehicle, or Equipment Maintenance and Repair		Χ		X	Χ			X
Aircraft, Vehicle, or Equipment Washing		Χ	X	Χ	Χ		X	Χ
Outdoor Loading and Unloading of Materials		Χ	Χ	X	Χ	Χ	X	X
Outdoor Container Storage of Liquids		Χ	Χ	X	Χ	X		
Outdoor Storage of Raw Materials			Χ	X	Χ	Χ	X	X
Waste Handling and Disposal	Χ	Χ	Χ	X	Χ	Χ	Χ	X
Buildings	Χ		Χ				X	X
Landscaping	Χ		Χ			Χ	Χ	Χ

^{*} If outside of the AOA, otherwise not expected.

PBMP	Bacteria	Metals	Nutrients	Oil & Grease	Organic Compounds	Pesticides	Sediment	Trash	Volume Reduction
LC-1 Biofilter	Х	Х	Х		Х		Х	Х	
LC-2 Bioretention	Χ	X	Χ		Χ	Х	Χ	Х	Χ
LC-3 Bioswale		X	Χ				Χ	Х	
LC-4 Harvesting/Reuse							Χ	Х	Χ
LC-5 Dry Well/Drainage Well*									Χ
LC-6 Infiltration Basin	Χ	X	Χ		Χ	Χ	Χ	Х	Χ
LC-7 Infiltration Trench	Х	X	Х		Χ	Х	Х	Х	Χ
LC-8 Permeable Pavement		X	Х	X	Χ	Χ	Х		Χ
LC-9 Subsurface Infiltration		X	Χ		Χ	Χ	Χ	Х	Χ
LC-10 Vegetated Buffer Strip		X			Χ		Χ	Х	
LC-11 Vegetated Swale		X			Χ		Χ		
TC-1 Alternative Wetland	Χ	X	Χ		Χ		Χ	Х	
TC-2 Dry Detention Basin	Х						Χ	Х	Χ
TC-3 Evaporation Pond	Χ				Χ		Χ	Х	Χ
TC-4 Hydrodynamic Separator				0			Χ	Х	
TC-5 Drain Inlet Insert		0		0			X	Х	
TC-6 Oil Water Separator				X			Х	Х	
TC-7 Sand Filter	Х	X			Χ		Χ	Х	
TC-8 Subsurface Detention	Χ				Χ		Χ	X	Χ

Acceptable PBMPs to Target Pollutants of Concern

Notes:

X = PBMP is acceptable to target this pollutant of concern.

O = Pollutant performance may vary depending on the type and model of the proprietary product selected.

* Dry Wells/Drainage Wells should only be used for volume reduction. Other PBMPs must be incorporated as pretreatment to target pollutants of concern while protecting groundwater.

REVISED

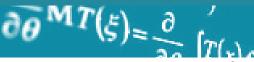
Sizing Criteria



Volume Based



Flow Based



influence on C is the impervious area within the contributing drainage area. Schueler used a simple linear regression to derive an equation to calculate C based on the percent impervious cover. The volumetric runoff coefficient is calculated using the following equation for storms less than 2 inches in urban areas:

$$C = 0.05 + 0.009(I)$$

Where: C = Volumetric Runoff Coefficient
I = Impervious Cover (%)

Offsite existing impervious areas may be excluded from the calculation of the WQV by diverting any offsite flows to minimize the offsite runoff contribution to the new development or redevelopment construction project. When a new development or redevelopment construction project contains multiple drainage areas feeding to different PBMPs, the WQV volume shall be addressed for each drainage area.

4.5.3.2 Flow-Based Designs

Examples of flow-based designs include vegetated buffer strips, vegetated swales, subsurface infiltration systems, alternative wetlands, evaporation ponds, HDS units, MTDs, OWSs, and subsurface detention facilities.

The design must be able to accommodate a peak rainfall intensity of 0.4 inch per hour, based on the following equations:

$$WOF = CiA$$

Where: WQF = Water Quality Flow Rate (cubic feet per second)

C = Runoff Coefficient

I = Peak Rainfall Intensity (inch/hour)

A = Drainage Area (acre)

For drainage areas containing multiple land use cover types, compute the composite weighted runoff coefficient using the following equation:

$$C_c = \left[\left(\sum_{i=1}^n C_i A_i \right) / A_t \right]$$

Where: C_c = Composite Weighted Runoff Coefficient

 $C_{1,2,...n}$ = Runoff Coefficient for each Land Use Cover Type

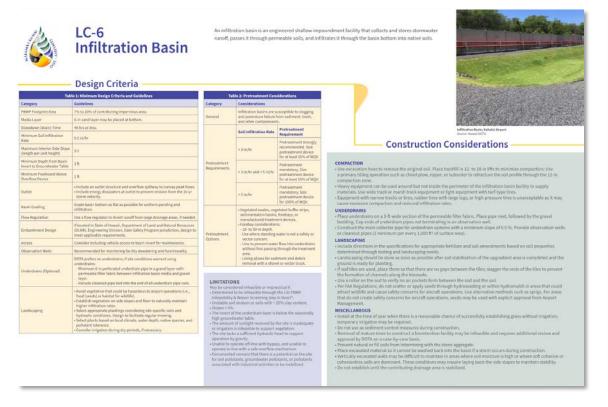
 $A_{1,2}$ _n = Drainage Area for each Land Use Cover Type (acre)

n = Number of Land Use Cover Types within the Drainage Area

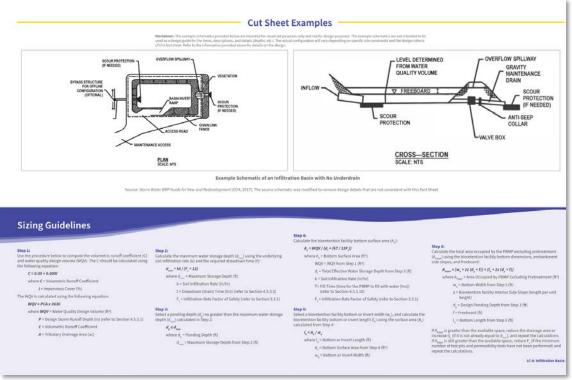
 A_r = Total Drainage Area (acre)

Design Factsheets

Design Criteria Construction Considerations



Sizing Guidelines



O&M Factsheets



An infiltration basin is an engineered shallow impoundment facility that collects and stores stormwater runoff, passes it through permeable soils, and infiltrates it through the basin bottom into native soils. Regular inspections and maintenance are needed to prevent sediment buildup and clogging, which reduces the capacity of the system.

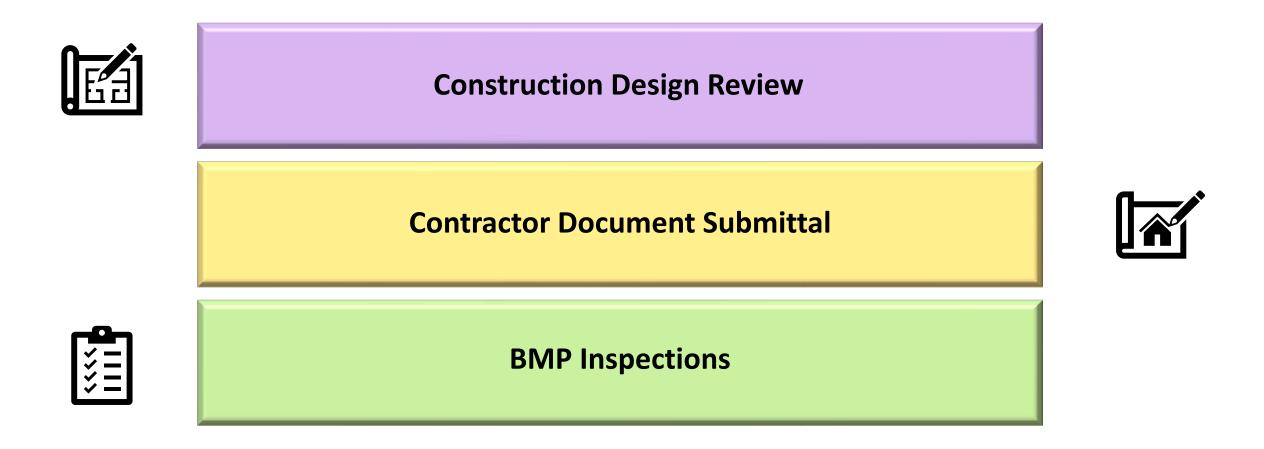


Infiltration Basin, Kahului Airport

Operations & Maintenance

Category	Inspections	Conditions that Require Maintenance	Maintenance
Sediment and Debris	Inspect surface drainage systems, flow entrances, and pretreatment measures for sediment, trash, debris, and leaf accumulation.	Accumulation of sediment, trash, debris, and leaves.	Remove vegetation clippings and leaves. Remove accumulated sediment, trash, debris, and leaves. If excessive sediment is deposited in the infiltration basin, immediately determine the source, remove sediment deposits, and correct the problem. Remove trash and debris from the drainage system leading to and within the infiltration basin.
Standing Water/ Clogging	Inspect for standing water that does not drain after 48 hrs. Monitor observation wells, if present, to determine how quickly the system is draining after a storm.	Standing water remaining for longer than 48 hrs suggests sediment or trash blockages may be present, soil infiltration rate may have been reduced due to compaction, or media layer may be clogged.	Clear the outlet of sediment or trash blockages and remove the top layer of material to replace it with fresh material. If standing water persists, the media or permeable filter fabric may be clogged; unclog or replace components as necessary.
Erosion	Inspect inlets, outlets, side slopes, for evidence of undercutting or erosion. Note erosion locations or drainage changes.	Significant erosion observed. Changes to the drainage pattern.	Stabilize undercuts and eroded areas at the inflow, outflow, overflow structures and embankments. Re-grade to reshape the cross-section as sediment collects and form pools Remove and properly dispose of the sediment.
Landscaping	Note landscaping needs (e.g., grass cutting).	Significantly overgrown areas that require landscape maintenance. Grass coverage is less than 90%. Dead or diseased vegetation (some vegetation can be dormant during dry seasons).	Conduct regular plant maintenance including mowing and weeding; grass should maintain a height of at least 3 in. Replace dead and diseased vegetation. Irrigation may be required during prolonged dry periods. Avoid or minimize fertilizer and herbicide use.
Irrigation System	Inspect for proper operation and water distribution.	System not functioning correctly (overwatering, underwatering or not functioning at all).	Turn water off and depressurize the irrigation system immediately upon identifying a waterline break. Repair broken sprinkler heads and lines.
Water Quality	Observe runoff entering the PBMP, if present, and identify its origin, if visible. Observe outflow from the system, if present and visible.	Water is significantly dirty/discolored, contains foul odors, or has an oily sheen.	Inspect areas upstream to identify the source and attempt to eliminate.
Damage/Repairs	Inspect surfaces and embankments for damage caused by rodents, vehicles, etc.	Structural damage or obstructions are present.	Repair structural damage. Clear obstructions.
Scheduling	Inspect regularly and 48 hours after significant rain events.	See above.	Schedule long-term repairs before the rainy season. Maintenance should be conducted during dry weather when no flow is entering the PBMP.

Veoci™ Construction Module Tour



Streamlined, step-by-step processes to track compliance throughout the life of a project.

Construction Design Review

- Detailed tracking of required submittals and comment response
- Step-by-step determination of necessary submittals based on:
 - Project size and scope of work
 - History of contaminated media
 - Project activities

Construction Design Review

Design Review Track

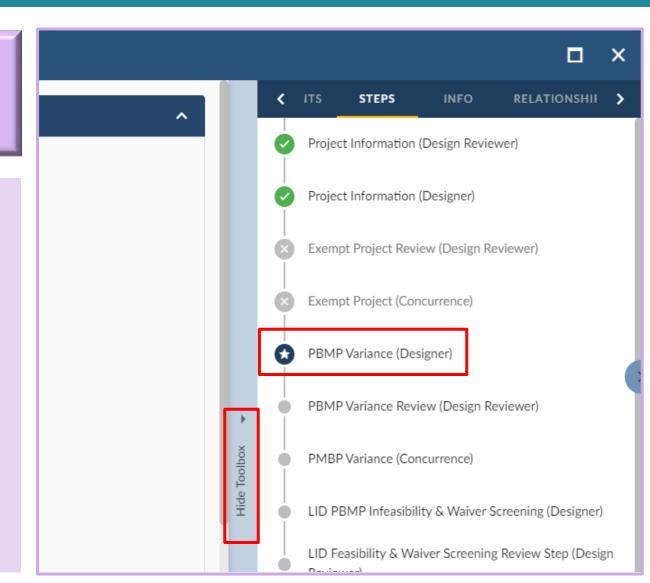
Itemized submittal upload and review

- Designated file attachment fields
- Clear comment and response dialogue

PBMP Track

Step-by-step PBMP selection for given project conditions

- PBMP Variance
- LID Waiver
- PBMP Checklist



Construction Design Review

Design Review Track

Full Review

- All projects with 1 acre or greater disturbed area
- Projects disturbing less than
 1 acre that do not fall under an exempt category
- Activities posing a potential risk to discharge pollutants to receiving drainage systems and waters
- At determination of AIR-EE

Exempt

Project eligible if it includes <u>only</u>:

- Interior renovations
- Minor land disturbance activities less than ¼ acre
- Milling and paving without exposing underlying base course or subgrade
- Utility repair work
- Maintenance and repair activities

Source Control PBMPs

Project eligible if it qualifies for exemption **AND** includes any of the following:

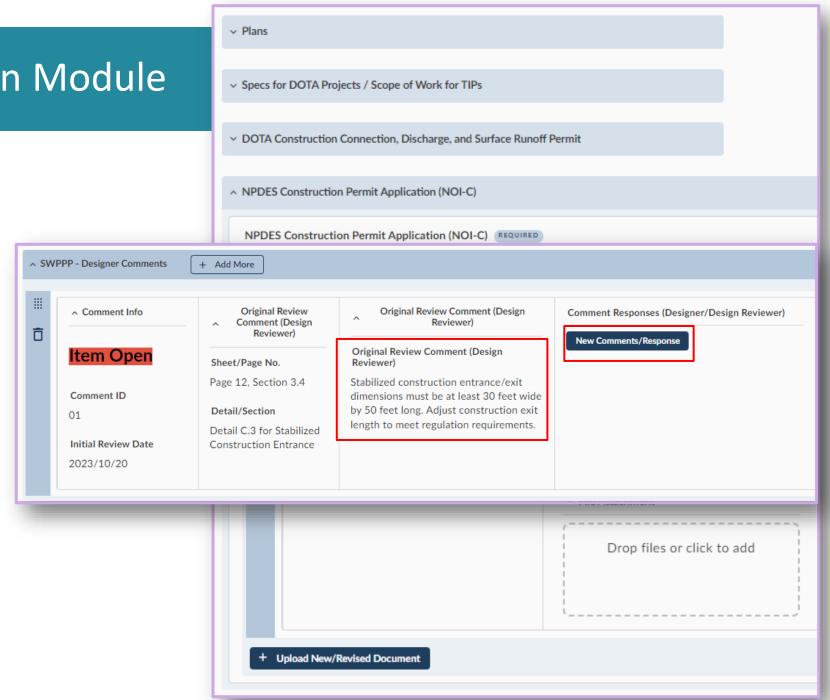
- Loading/unloading areas
- Triturators
- Hazardous material/waste storage
- Aircraft/vehicle/equipment washing, fueling, maintenance

Construction Design Review

Design Review Track

Full Review

- All projects with 1 acre or greater disturbed area
- Projects disturbing less than
 1 acre that do not fall under an exempt category
- Activities posing a potential risk to discharge pollutants to receiving drainage systems and waters
- At determination of AIR-EE



Construction Design Review

Design Review Track

Exempt

Project eligible if it includes <u>only</u>:

- Interior renovations
- Minor land disturbance activities less than ¼ acre
- Milling and paving without exposing underlying base course or subgrade
- Utility repair work
- Maintenance and repair activities

- Contaminated media review and site clearance
- Exempt from BMP inspections
- Not required to develop a SWPPP or SSBMP Plan

Construction Design Review

Design Review Track

Source Control PBMPs

Project eligible if it qualifies for exemption **AND** includes any of the following:

- Loading/unloading areas
- Triturators
- Hazardous material/waste storage
- Aircraft/vehicle/equipment washing, fueling, maintenance

- Middle ground: implement environmentally friendly design without extensive submittal requirements
- Required to implement source control PBMPs
- Exempt from BMP inspections
- Not required to develop a SWPPP or SSBMP Plan

Construction Design Review

PBMP Track

Step-by-step PBMP selection for given project conditions

PBMP Variance

LID Waiver

PBMP Checklist

PBMP Track

Contractor Document Submittal

- Comprehensive repository for Contractor submittals
- Detailed tracking of required submittals, including review comments and response
- Steps to track required submittals before, during, and after construction

Contractor Document Submittal

Before Construction

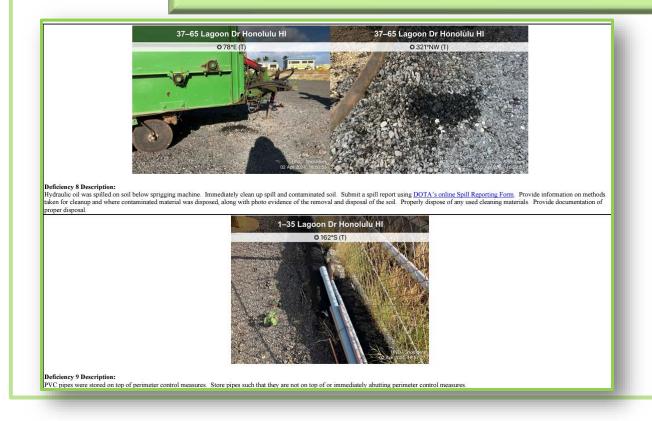
- Smooth transition from Design Review: design documents automatically provided via email
- Itemized submittal upload and review
 - Designated file attachment fields
 - Clear comment/response dialogue

Contractor Document Submittal

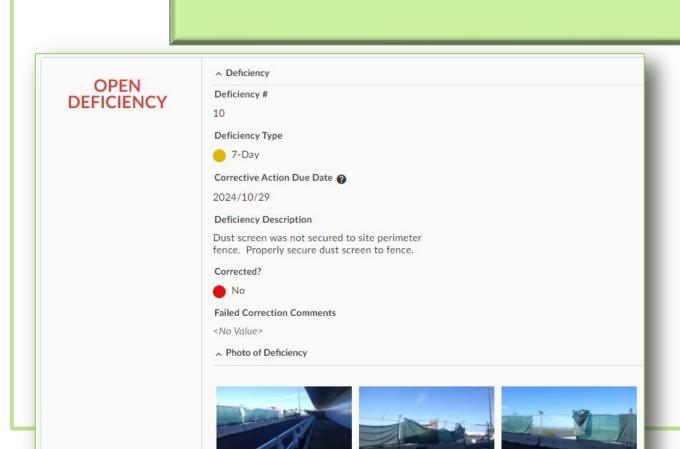
During/After Construction

- New submittal requests sent via email as site conditions evolve and after work is complete
- Acts as a database of submittals and review comments in a single location

BMP Inspections



- Pre-construction, Routine, and Final BMP inspections
- Detailed reports distributed automatically via email
- Corrective action Dropbox for simple deficiency response and compliance tracking



BMP Inspections

- Pre-construction, Routine, and Final BMP inspections
- Detailed reports distributed automatically via email
- Corrective action Dropbox for simple deficiency response and compliance tracking

Resources

https://hidot.hawaii.gov/airports/doing-business/engineering/environmental/construction-site-runoff-control-program/



Home ▼ COVID-19 Updates FAQs About Visitor Info Library Doing Business

Home » Doing Business » Engineering » Environmental » Construction Site Runoff/PBMP Program

CONSTRUCTION SITE RUNOFF/PBMP PROGRAM

The Construction Site Runoff/PBMP Program has been developed to address the potential pollutants that are generated as a result of construction activities in accordance with the National Pollutant Discharge Elimination System (NPDES) Permit Program and other environmental regulations. All Designers, Construction Managers, Contractors, and other parties involved with construction at airports, statewide, must comply with this program. All construction projects must undergo a construction plan review and receive a Notice-To-Proceed from DOTA prior to commencing construction activities.

CONSTRUCTION/POST-CONSTRUCTION MANUALS

- REVISED Construction BMP Manual
- REVISED Post-Construction Best Management Practice Manual



Resources

https://hidot.hawaii.gov/airports/doing-business/engineering/environmental/construction-site-runoff-control-program/

- SOP and Veoci QRGs ** These are updated regularly but the current versions posted might not reflect the most recent changes. **
 - SOP Environmental Requirements for Construction Projects
 - Veoci QRG Getting Started and General Information
 - Veoci QRG Less Than 1 Acre (Designer)
 - Veoci QRG 1 Acre or Greater (Designer)
 - Veoci Process Map DOTA Construction Design Review Less Than 1 Acre
 - Veoci Process Map DOTA Construction Design Review 1 Acre or Greater
 - Veoci QRG Correcting Inspection Deficiencies (Contractor)







MAHALO

QUESTIONS?

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