

New York State Department of Environmental Conservation
State Pollutant Discharge Elimination System (SPDES) Permit

Best Management Practices Plan Implementation Training

Marco Salcedo

Victoria Carley

Environmental Engineering

July 2014

JFK Airport

BMPP Implementation Training

TODAY'S AGENDA

- **Introduction**
- **Best Management Practices Plan (BMPP) Implementation Training Objectives**
- **Regulatory Requirements**
- **Facility Description & Activities**
- **Potential Pollution Sources**
- **Best Management Practices**
- **Comprehensive Site Compliance Evaluation**

Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

Regulatory Requirements



“Contaminated stormwater discharges from industrial facilities into surface waters are to be minimized or eliminated” -- Clean Water Act

Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

Regulatory Requirements

- **National Pollutant Discharge Elimination System (NPDES)**

United States Environmental Protection Agency (USEPA) under 40 CFR Part 449 issued a rule in 2012 titled “Effluent Limitation Guidelines for Airport Deicing Discharges.” The rule does not establish uniform, national requirements for aircraft deicing discharges at existing airports therefore requirements will continue to be established for individual permits on a site-specific, best professional judgment basis.

- **State Pollutant Discharge Elimination System (SPDES)**

New York State Department of Environmental Conservation (NYSDEC) *6NYCRR PART 750* program is geared towards *preserving, protecting, and improving* water sources from polluted stormwater runoff by instituting controls on discharge sources. JFK currently holds an individual industrial SPDES Permit.

Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

SPDES Permit Special Conditions

- Develop, maintain, and implement a **Best Management Practices Plan (BMPP)** to prevent significant release of pollutants to waters of the State and eliminate or reduce pollutant loadings in stormwater
- Develop and apply **Best Management Practices (BMPs)** to minimize potential releases
- **13 Minimum BMPs** – the minimum BMPs that shall be included in the BMPP to minimize potential releases
- Develop **Activity Specific BMPs** to address inadequate or absent BMPs

**Regulatory
Requirements**

**Facility
Description**

**Potential
Pollutant
Sources**

**Stormwater
Management
Controls**

**Site
Compliance
Evaluation**

SPDES Permit Prohibited Discharges

- **Discharge which contains a visible sheen, foam, or odor, or may cause or contribute to a violation of water quality is prohibited.**
 - Spills or leaks, tank bottoms, maintenance wastewaters, wash waters where detergents or other chemicals have been used, tank hydrotest and ballast waters, contained fire fighting runoff, fire training water contaminated by contact with pollutants or containing foam or fire retardant additives, and unnecessary discharges of water or wastewater into secondary containment systems.

Regulatory Requirements

Facility Description

Potential Pollutant Sources

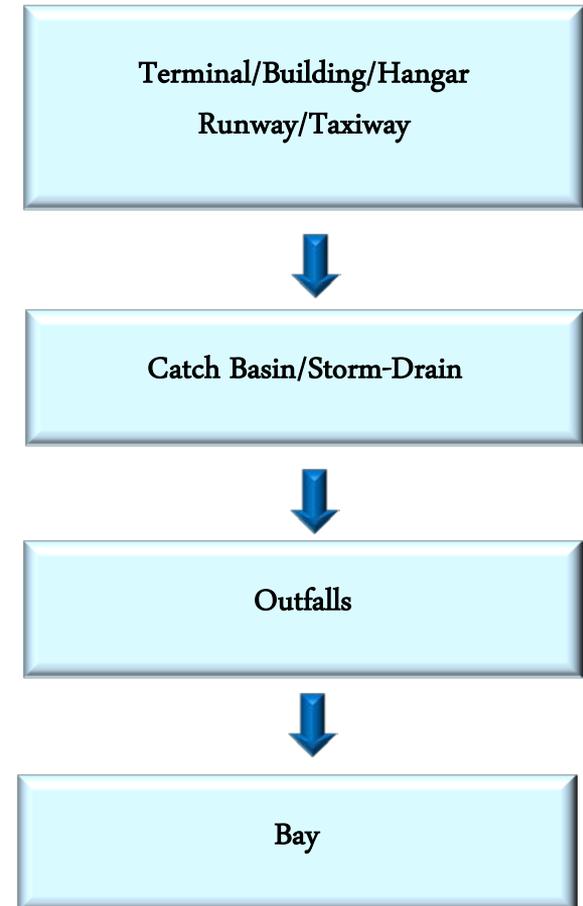
Stormwater Management Controls

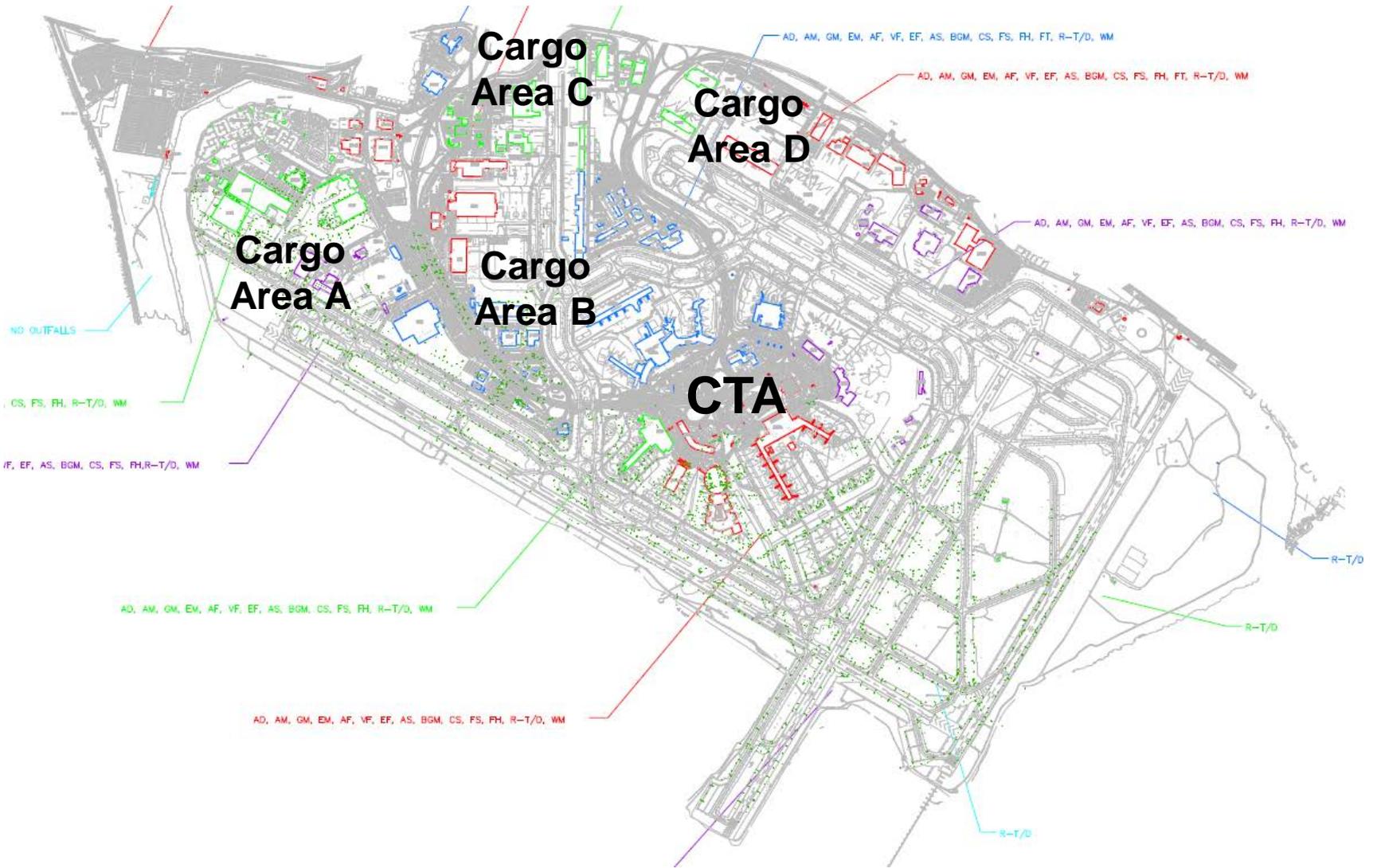
Site Compliance Evaluation

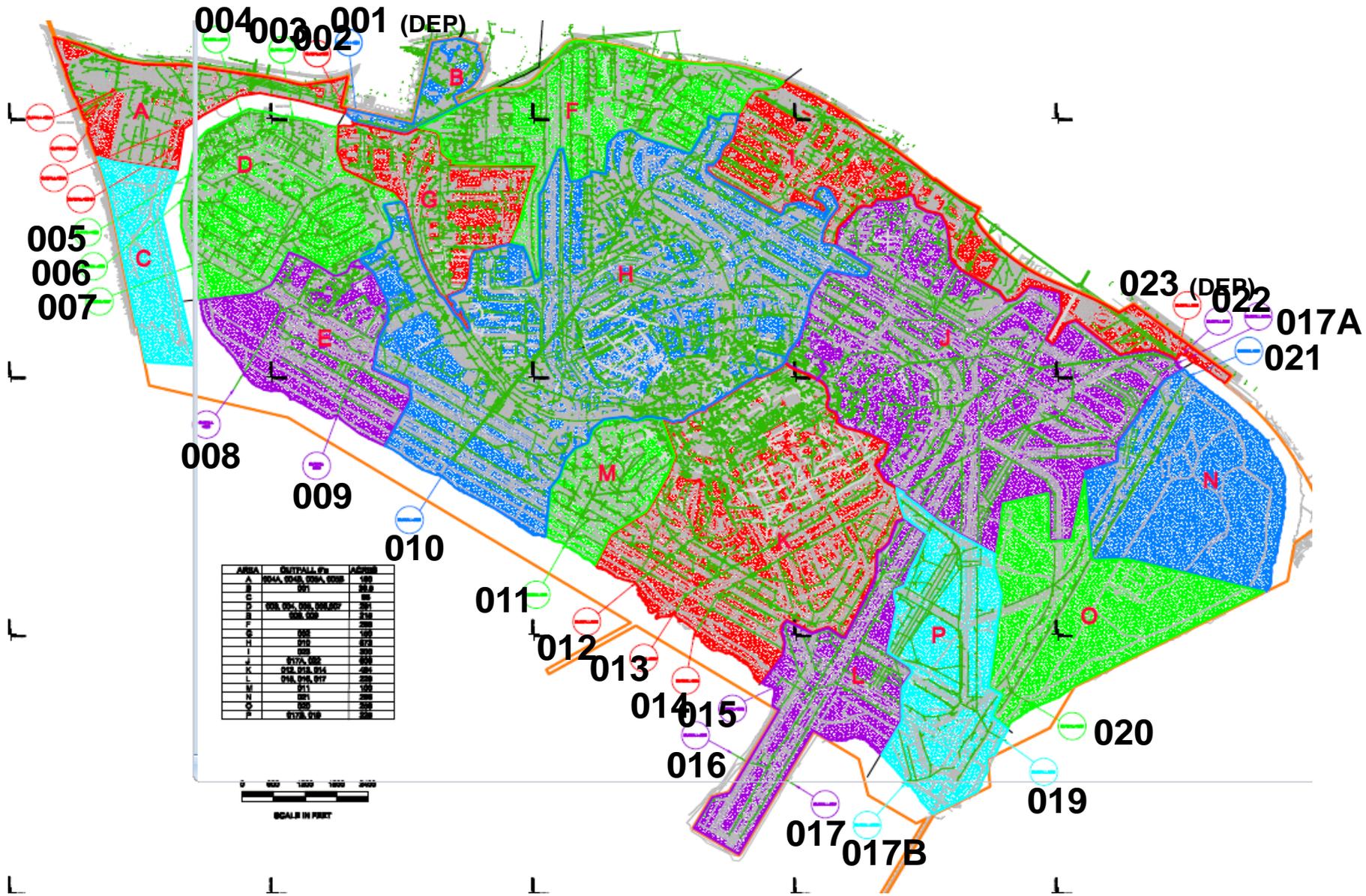
Site Map

Identify where activities may be exposed to runoff

- 4,590 acres
- Terminals (CTA is approx. 880 acres)
- Buildings
- Hangars
- 9 miles of runway
- 25 miles of taxiway
- 16 drainage areas
- 6,000 catch basins
- 26 stormwater outfalls
- Outfalls discharge to Jamaica Bay, Thurston Bay, Head of Bay, and Bergen Basin







Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

Responsible & Accountable Parties

Identify whom is responsible at the facility to document and maintain compliance with BMPP

- **Tenants** whom manage multiple “sub-tenants” are responsible for the actions of those sub-tenants.
- **Tenants** are required to train additional members of their staff and sub-tenant staff.
- **All Sub-Tenants and Facility Staff (e.g., contractors, sub-contractors, and deicing entities)** are responsible to maintain compliance with the BMPP and report spills and other BMP incidents if they occur no matter whom caused the incident.

Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

Potential Pollution Sources and Pollutants of Concern

- **Aircraft, Vehicle, and Equipment Maintenance**
 - Oil and Grease
 - Petroleum Hydrocarbons
 - Propylene Glycol
 - Halogenated and Non-Halogenated Solvents
- **Aircraft, Vehicle, and Equipment Fueling**
 - Petroleum Hydrocarbons
 - Fuel Vapors
- **Aircraft Sanitary Service**
 - Biocides
 - Bacteria



Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

Potential Pollution Sources and Pollutants of Concern

- **Building and Grounds Maintenance**
 - Pesticides
 - Herbicides
 - Oils and Grease
 - Petroleum Hydrocarbons
- **Chemical Storage and Fuel Storage**
 - Petroleum Hydrocarbons
 - Lubricants
 - Paints
 - Battery Acid
 - Solvents
- **Lavatory Service Operations**
 - Lavatory Chemicals
 - Lavatory Waste
 - Lavatory Truck Wash Water



Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

Potential Pollution Sources and Pollutants of Concern

- **Food Handling Operations**
 - Oil and grease
 - Bacteria
- **Fire Fighting Foam Testing**
 - Volatile Organic Compounds
- **Aircraft Deicing/Anti-icing**
 - Propylene Glycol
 - Sodium Acetate
 - Potassium Acetate
- **Runway and Taxiway Deicing/Anti-icing**
 - Propylene Glycol
 - Sodium Acetate
 - Potassium Acetate



Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

Pollution Source Impacts to Receiving Water Quality

- **Ethylene Glycol (prohibited at JFK Airport) and Propylene Glycol**-Decreases available dissolved oxygen (DO) in waterways
- **Oil and Grease**-Disrupts fish and wildlife habitat and can have direct effects on individual species
- **Pesticides/Herbicides and Lavatory Waste**-can be lethal to fish and other wildlife



Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

Best Management Practices (BMPs)

Objective is to identify programs, technologies, operating method, measure or device that controls, removes, or reduces pollution.

- Consists of:
 - 13 Minimum BMPs
 - 19 Activity Specific BMPs
 - Additional Plans

Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

13 Minimum General BMPs Must Include

1. Pollution Prevention Team
2. Reporting of BMP Incidents
3. Risk Identification and Assessment
4. Employee Training
5. Inspections and Records
6. Security and Site Access
7. Preventive Maintenance
8. Good Housekeeping
9. Material/Waste Handling, Storage, and Compatibility
10. Spill Prevention & Response
11. Erosion & Sediment Control
12. Management of Runoff
13. Street Sweeping

General BMPs

BMP 1 Pollution Prevention Team

- Designate a Pollution Prevention Team Member
 - Responsible for implementation of BMPs
 - Ensure implementation of BMPs
 - Retain copy of BMPP onsite
 - Provide feedback to Environmental Services regarding BMPP compliance

Pollution Prevention Team Member must be identified and on the Pollution Prevention Team Member Designation Form provided to Denise A. Branch at JFKEnvironmental@panynj.gov, Manager, Environmental Services annually.

General BMPs

BMP 2 Reporting of BMP Incidents – Petroleum Spills

Type of Spill	Quantity	Did Spill Enter Storm Drain?	Agency to Notify	Phone Number
Petroleum	Greater than (>) 5 gallons	Yes	NYSDEC NRC USCG PANYNJ	1-800-457-7362 1-800-424-8802 1-718-354-4120 <i>See Spill Guidance Sheet for all PANYNJ Numbers</i>
Petroleum	Greater than (>) 5 gallons	No	NYSDEC PANYNJ	1-800-457-7362 <i>See Spill Guidance Sheet for all PANYNJ Numbers</i>
Petroleum	Less than (<) 5 gallons	Yes	NYSDEC NRC USCG PANYNJ	1-800-457-7362 1-800-424-8802 1-718-354-4120 <i>See Spill Guidance Sheet for all PANYNJ Numbers</i>
Petroleum	Less than (<) 5 gallons	No	PANYNJ*	<i>See Spill Guidance Sheet for all PANYNJ Numbers</i>

- * All Spills must be cleaned up within 2 hours of discovery or NYSDEC and NRC must be notified regardless of the quantity of material spilled.
- Notify Environmental Services, PANYNJ Police and Operations of any spills
- Complete PANYNJ Spill Reporting Form within one business day

General BMPs

BMP 2 Reporting of BMP Incidents – Hazardous Substance Spills

Type of Spill	Quantity	Did Spill Enter Storm Drain?	Agency to Notify	Phone Number
Hazardous Substance	Greater than (>) Reportable Quantity (RQ)	Yes	NYSDEC NRC USCG PANYNJ	1-800-457-7362 1-800-424-8802 1-718-354-4120 <i>See Spill Guidance Sheet for all PANYNJ Numbers</i>
Hazardous Substance	Greater than (>) Reportable Quantity (RQ)	No	NYSDEC NRC PANYNJ	1-800-457-7362 1-800-424-8802 <i>See Spill Guidance Sheet for all PANYNJ Numbers</i>
Hazardous Substance	Less than (<) Reportable Quantity (RQ)	Yes	NYSDEC NRC USCG PANYNJ	1-800-457-7362 1-800-424-8802 1-718-354-4120 <i>See Spill Guidance Sheet for all PANYNJ Numbers</i>
Hazardous Substance	Less than (<) Reportable Quantity (RQ)	No	PANYNJ*	<i>See Spill Guidance Sheet for all PANYNJ Numbers</i>

- * All Spills must be cleaned up within 2 hours of discovery or NYSDEC and NRC must be notified regardless of the quantity of material spilled.
- Notify Environmental Services, PANYNJ Police and Operations of any spills
- Complete PANYNJ Spill Reporting Form within one business day

General BMPs

BMP 3 Risk Identification & Assessment

- Tenants complete questionnaire to determine potential pollutant sources
- Completed questionnaires are used to identify BMPs to prevent or control pollutants

BMP 4 Employee Training

- Environmental Services will provide BMPP training and awareness on an *annual basis* and as a required provision for new tenant occupancy
- Tenants are expected to train sub-tenants and other staff members

General BMPs

BMP 5 Inspections and Records

- Qualified personnel shall inspect designated equipment and areas of JFK Airport on an annual basis to assess effective of BMP implementation and the overall BMPP
- Regular visual inspections shall ensure that BMPs are implemented
- Inspections shall take place during storm events to ensure BMPs are effectively working
- Inspections shall take place during operation of equipment or activities being examined

General BMPs

BMP 5 Inspections and Records (continued)

- Inspection report shall document spills and leaks
 - Inspection report shall record the types and amounts of pollutants spilled
 - Inspections shall record and document BMP implementation
- 
- Records shall note all environmental infractions

General BMPs

BMP 6 Security and Site Access

- Personnel shall be aware of potential illicit discharges



General BMPs

BMP 7 Preventive Maintenance

- Routine inspection and maintenance of structural BMPs (oil/water separator, catch basins)
- Routine inspection and testing of equipment & systems can identify and correct conditions that could cause failure
- Prompt repair of defective equipment
- Schedule tests and document inspections
- *As per 6 NYCRR Part 613.3(d): Maintenance of Spill Prevention Equipment, “The owner or operator must keep all gauges, valves, and other equipment for spill prevention in good working order”*



General BMPs

BMP 8 Good Housekeeping

- Perform maintenance activities indoors
- Collect stormwater runoff from maintenance area and provide treatment or recycling
- Use dry cleanup methods
- Drain all part of fluid prior to disposal
- Prevent practice of hosing down the apron or hangar floor
- Maintain an inventory of material used



General BMPs

BMP 8 Good Housekeeping (Continued)

- Keep debris out of work areas and maintain proper storage to avoid clutter
- Maintain effective organization of equipment, drums, batteries, etc. to minimize accidental contact with storm drains or catch basins
- Clean heavily utilized areas routinely to minimize small spills and leaks from entering storm drain



General BMPs

BMP 9 Material/Waste Handling, Storage

- Store drums or containers on spill pallets
- Properly label all chemical containers with information
- Maintain Spill Response Kit
- Store and seal all containers
- Post Material Safety Data Sheet (MSDS)
- Proper Handling & Training for Universal Wastes



General BMPs

BMP 9 Material/Waste Handling, Storage (Continued)

Appropriate Labeling and Petroleum Bulk Storage (PBS/Chemical Bulk Storage (CBS) Registration:

As per 6 NYCRR Part 612.2(e): Registration of Facilities, “The operator must display a registration certificate which is current and valid on the premises of the facility at all times.”

As per 6 NYCRR Part 613.3(b) Color Coding of Fill Ports, “the owner or operator must permanently mark all fill ports to identify the product inside the tank. These markings must be consistent with the color and symbol code of the American Petroleum

General BMPs

BMP 10 Spill Prevention & Response

- Spill Prevention & Response (SPR) Plan [needed regardless of storage capacity]
- Spill Prevention Control & Countermeasure (SPCC) Plan
- Assemble a spill response team, including on-call contractor
- Identify potential spill areas



- Develop procedures to clean-up spills & materials handling

General BMPs

BMP 11 Erosion and Sediment Control

- JFK construction projects are covered under the JFK Individual SPDES Permit.
- Construction project that involves soil disturbance of one or more acres must follow the SPDES Permit “Special Conditions–Best Management Practices”, Item 4, Part B “Stormwater Pollution Prevention Plans (SWPPPs)” which requires the preparation and submittal of a Notice of Intent (NOI) and SWPPP.
- SWPPP must be prepared and implemented in conformance with the NYSDEC SPDES GP-0-10-001.

General BMPs

BMP 12 Management of Runoff

- Implement BMPs in the BMPP as a means of reducing discharge of pollutants to stormwater

BMP 13 Street Sweeping

- Sweeping can remove small quantities of solids exposed to stormwater
- Sweeping dust before rainfall minimizes contact with stormwater
- Street sweeping is required on a routine basis in catch basin areas



Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

Activity Specific BMPs

1. Aircraft Deicing/Anti-icing
2. Aircraft, Vehicle, and Equipment Fueling
3. Aircraft, Vehicle, and Equipment Maintenance
4. Aircraft, Vehicle, and Equipment Washing
5. Building Cleaning and Maintenance
6. **Chemical and Petroleum Storage and Handling**
7. Elimination of Non-Stormwater Discharges to Storm Drains
8. Spills Management
9. Lavatory Service Operations

10. Oil/Water Separators
11. Outdoor Handling of Material
12. **Outdoor Material and Equipment Storage**
13. **Waste Management**
14. Fire Fighting Foam Discharge
15. **Stormwater Pollution Prevention Education**
16. Street Sweeping and Stormwater Facility Management
17. Security
18. Rubber Removal
19. Runway and Taxiway Anti-icing

I. INSPECTION INFORMATION

Instructions: Provide name of party who conducted the inspection.

1. INSPECTOR NAME/ TITLE ____

2. CONTACT PHONE NUMBER _

3. CONTACT EMAIL ADDRESS__

4. DATE/TIME OF INSPECTION _

5. OTHER ATTENDANTS ACCOMPANYING INSPECTOR _____

II. FACILITY INFORMATION

Instructions: Give the tenant/facility's name, terminal, and building numbers. Give the name, title, email address and work telephone number of the Pollution Prevention Team member who is thoroughly familiar with the operation of the facility and with the facts reported in this BMPP Implementation Inspection Report and who can be contacted by the PANYNJ for additional information. Provide a second contact name telephone number and email address.

1. TENANT/FACILITY NAME	2. TERMINAL NUMBER(s)	3. BUILDING NUMBER(s)
4. POLLUTION PREVENTION TEAM MEMBER (Name)	5. PHONE NUMBER	6. EMAIL ADDRESS
7. SECOND TENANT CONTACT (Name)	8. PHONE NUMBER	9. EMAIL ADDRESS
10. LEASE START DATE	11. LEASE EXPIRATION DATE	12. COMMENTS

13. PROPERTY TYPE: COMMERCIAL; TELECOMMUNICATIONS; PARKING; CARGO; MAINTENANCE;
 OTHER (Specify)_____

14. PROVIDE A GENERAL DESCRIPTION OF THE FACILITY OPERATIONS _____

15. List work that required the Port Authority approval as part of the Tenant Alternation Agreement (TAA) process.

PAST 12 MONTHS: _____ ANTICIPATED: _



Regulatory Requirements

Facility Description

Potential Pollutant Sources

Stormwater Management Controls

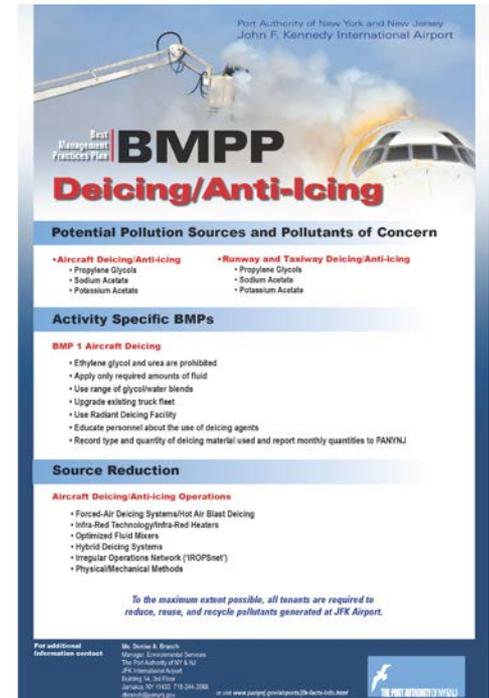
Site Compliance Evaluation

Source Reduction

“To the maximum extent possible, all tenants are required to reduce, reuse, and recycle pollutants generated at JFK Airport.”

Aircraft Deicing/Anti-icing Operations

- Forced-Air Deicing Systems/Hot Air Blast Deicing
- Infra-Red Technology/Infra-Red Heaters
- Optimized Fluid Mixers
- Hybrid Deicing/Anti-icing Systems
- Irregular Operations Network (‘IROPSnet’)
- Physical/Mechanical Methods



Activity Specific BMPs

- **BMP 1 Aircraft Deicing/Anti-icing**

- Ethylene glycol is prohibited
- Apply only required amounts of deicing fluid
- Use range of glycol/water blends
- Upgrade existing truck fleet
- Educate personnel about the use of deicing agents
- Record type and quantity of deicing material used and report monthly quantities to PANYNJ
- Report propylene glycol (ethylene glycol is prohibited) releases to appropriate regulatory agencies



Activity Specific BMPs

Ethylene glycol is strictly prohibited for use at JFK Airport.

All Tenants are required to document and submit monthly deicing/anti icing summary reports to Denise A. Branch at JFKEnvironmental@panynj.gov by the 15th of the month following deicing activities indicating the quantity of Propylene Glycol utilized at the specific facility.

Activity Specific BMPs

- **BMP 2 Aircraft, Vehicle, and Equipment Fueling**
 - Install berms or curbing around fueling areas where feasible
 - Use absorbent materials and/or vacuum equipment for spills
 - Install proper equipment for fuel dispensing to prevent spills, leaks, and overflows
 - Install vapor recovery systems at fuel dispenser and tanks
 - Install canopies



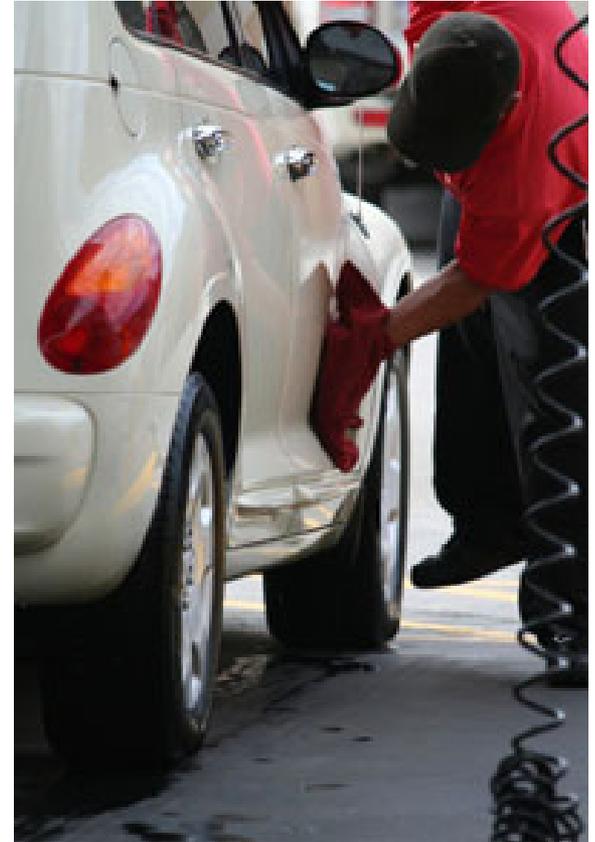
Activity Specific BMPs

- **BMP 3 Aircraft, Vehicle, and Equipment Maintenance**
 - Cap floor drains in areas where maintenance occurs if not connected to oil/water separator
 - Consider off-site maintenance by contractors
 - Initiate employee spill prevention and response training



Activity Specific BMPs

- **BMP 4 Aircraft, Vehicle, and Equipment Washing**
 - Use dry washing techniques in designated areas
 - Recycle wash water or discharge appropriately
 - Reclaim/recover wash water
 - Cover catch basins



Activity Specific BMPs

- **BMP 5 Building Cleaning and Maintenance**
 - Perform maintenance indoors, if possible
 - Cap floor drains in maintenance areas
 - Consider off-site maintenance by contractors
 - Initiate employee spill prevention and response training



Pesticide/Herbicide Operational Considerations:

- Have pesticide product information available at facility; make information available to tenants and employees.
- Maintain a schedule for pesticide application and a record of pesticide usage.

Activity Specific BMPs

- **BMP 6 Chemical and Petroleum Bulk Storage Handling**

- Post PBS/CBS registration certificates at the facility at all times.
- Maintain legible labels on all containers and tanks and verify that petroleum tanks have symbols and colors that are consistent with the American Petroleum Institute Standards.
- **Store all chemical and petroleum products in a covered area and provide secondary containment.**
- Perform routine inspections and maintenance
- Inspect and repair equipment regularly
- Report spills to appropriate regulatory agencies

Activity Specific BMPs

BMP 7 Elimination of Non-Stormwater Discharges to Storm Drains

- Non-stormwater discharges can be classified as follows: washwater, deicing fluids, petroleum or chemical spills, process wastewater, treated cooling water, and sanitary wastewater (through a pipe).
- Perform inspections and enforcement with regular corrective action measures
- Promote education of vendors, contractors, and the public
- Initiate employee training

Stormwater Runoff

***...only rain water
belongs in the
storm water
drain...***

Activity Specific BMPs

BMP 8 Spills Management

- All tenants and sub-tenants are responsible to report spills at their facilities
- SPCC and SRP plans should be periodically reviewed and updated as physical changes are made to the facility (e.g. layout, number of tanks, types of processes).

Activity Specific BMPs	BMP Applicable		BMP Implementation Effectiveness	
	Yes	No	Satisfactory	Needs Improvement
BMP 8: SPILLS MANAGEMENT	<input type="checkbox"/>	<input type="checkbox"/>		
1. Are applicable absorbent materials and vacuum cleaners immediately accessible for spill events? 2. Have all reportable releases been reported to the Port Authority using the Spill Reporting Form ? List all NYSDEC open spills below in Section V: Spill Reporting . 3. Is a summary of your spill response plan posted in appropriate locations for reference during a spill? 4. Is a spill clean-up contractor under contract and available for immediate emergency response?	Notes:		<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

V. SPILL REPORTING

Instructions: Review the facility's history over the past year and identify all spills. A completed PANYNJ Spill Reporting

Form (available at: <http://www.panynj.gov/airports/jfk-facts-info.html>) should be submitted for all spills. Below, list all spills since the last BMPP Implementation Inspection.

Additional information regarding spill events may be obtained on the NYSDEC Spills incident database located at <http://www.dec.ny.gov/cfm/x/xtapps/derexternal/index.cfm?pageid=2>.

DATE	LOCATION	CAUSE	NYSDEC SPILL NO.	CLOSURE/ CORRECTIVE ACTION STATUS

Activity Specific BMPs

BMP 9 Lavatory Service Operations

- Do not discharge lavatory waste to sanitary sewer connections other than triturate facilities
- Utilize buckets or pans to capture drippage from aircraft lavatory access fittings
- Do not perform lavatory truck cleanout at any other triturate facilities
- Carry absorbent and other containment equipment on the lavatory service equipment



Activity Specific BMPs

BMP 10 Oil/Water Separator

- Inspected and cleaned frequently of accumulated oil, grease, floating debris, and sediment
- Replace absorbent pads as needed
- Remove standing water during cleaning
- Maintain adequate supplies of spill response equipment and materials in accessible locations near areas where spills may be likely to occur
- Perform and document in a log book all inspections and maintenance operations
- Maintain a written O&M manual

Activity Specific BMPs

BMP 11 Outdoor Handling of Material

- Conduct loading/unloading under cover
- Avoid transferring material in close proximity to drain inlets
- Use drip pans under hoses
- Contain and absorb leaks during transfers
- Consider contracting maintenance operations for material handling equipment.
- Designate an appropriate area for contractors to perform maintenance activities.
- Verify proper waste disposal practices for contractors.

Activity Specific BMPs

BMP 12 Outdoor Material and Equipment Storage

- **Store materials indoors or under cover**
- **Store drums/containers on spill pallets**
- **Provide berming or secondary containment**
- Discharge stormwater from secondary collection accordingly
- Perform and document periodic inspections
- **Regularly maintain equipment that leak often including ground service equipment and trash compactors**



Activity Specific BMPs



BMP 13 Waste Management

- Streamline operations to minimize waste generation
- Provide sheltered waste storage and recycle away from catch basins
- Use licensed firms for waste carting and disposal
- Maintain records of waste generation and disposal
- Obtain appropriate registrations for hazardous waste generation
- All construction waste shall be removed from site after construction is complete
- Increased housekeeping = Decrease catch basin maintenance

Activity Specific BMPs

BMP 15 Stormwater Pollution Prevention Education

- Develop and implement a program to inform personnel at all levels
- Explain components and goals of activity specific BMPs
- Conduct regular training sessions and mandate participation

Port Authority of New York and New Jersey
John F. Kennedy International Airport

Stormwater Runoff

...only rain water belongs in the storm drain

Did You Know Stormwater Management?

Stormwater management is an integral part of JFK Airport environment. Port Authority personnel and tenants most common daily activities can have an unhealthy impact on New York's waterways. Every time it rains, everything we leave on the taxiway, runway, tarmac, parking lots, and roads wash through our catch basins and storm drains into our outfalls. Stormwater runoff is what the rain washes away. Stormwater runoff can pick up chemicals and potential pollutants of concern that flow in the storm sewer system through outfalls that directly discharge to Jamaica Bay, Thunston Bay, Head of Bay, and Bergen Basin. Anything that enters the stormwater system is an untreated discharge into waterbodies under the jurisdiction of New York State Department of Environmental Conservation (NYSDEC). The NYSDEC State Pollutant Discharge Elimination System (SPDES) Permit that JFK Airport must adhere to prohibits a discharge which contains a visible algae, foam, or odor or may cause or contribute to a violation of water quality or allows potential pollutants to enter the storm drains.

BMPs have been developed to prevent significant releases of pollutants to waters of the state.

For additional information contact
Ms. Denise A. Branch
Manager, Environmental Services
The Port Authority of NY & NJ
JFK International Airport
Building 6, 3rd Floor
Jamaica NY 11430 | 718-244-3568
dbranch@panynj.gov or visit www.panynj.gov/airports/jfk-facts-info.html

BMP
THE PORT AUTHORITY OF NY&NJ

Activity Specific BMPs

BMP 16 Street Sweeping and Stormwater Facility Maintenance

- Aeronautical areas swept once per week
- Perform street sweeping as necessary during winter months
- Sweep roadways at least three times per week
- Repair eroded sites



BMP 17 Security

Activity Specific BMPs

BMP 14 Fire Fighting Foam Discharge

- Required discharges should be performed in designated areas away from catch basins
- Properly collect, dispose or recycle

BMP 18 Rubber Removal

BMP 19 Runway and Taxiway Anti-icing



Regulatory
Requirements

Facility
Description

Potential
Pollutant
Sources

Stormwater
Management
Controls

Site
Compliance
Evaluation

PANYNJ/ Tenant BMPP Implementation

'Objective is to evaluate the effectiveness of the BMPP'

- **Comprehensive Site Compliance Evaluation Consists of:**
 - BMPP Training
 - Completion of Post-Training Exam
 - Routine Facility Inspections
 - Environmental Infractions
 - Reporting Forms
 - Annual Facility Review and Site Inspection Report
 - BMPP Content Review

Site Compliance Evaluation

Regulatory Requirements

Facility Description

Potential Pollutant Sources

Stormwater Management Controls

Site Compliance Evaluation

Tenant BMPP Reporting Requirements

Specific Reporting Forms	Frequency
Spill Reporting Form	Within one day of incident
Deicing/Anti-icing Reporting Form	By 15 th of the Month following deicing/anti-icing activities
Deicing Inspection Form	December 15 th annually
BMP Implementation Inspection Form	July 31, 2014, May 15 th 2015 and annually thereafter
Team Member Designation Form	At PANYNJ training and when new designations are made

PANYNJ Website

PANYNJ – JFK Airport BMPP Plan and Forms are available at:

<http://www.panynj.gov/airports/jfk-facts-info.html>

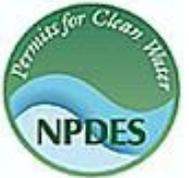
The following information is available on the PANYNJ Website

- [JFK Stormwater Best Management Practices Plan](#)
- [Deicing/Anti-icing Reporting Form](#)
- [BMPP Implementation Inspection Form](#)
- [Spill Reporting Form](#)
- [Environmental Infraction Corrective Action Inspection Form](#)
- [Pollution Prevention Team Member Designation Form](#)

Federal & State Links

- USEPA *Storm Water Management for Industrial Activities*, EPA 832-R-92-006
- www.nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=20000469L.txt

-
- USEPA – Storm Water www.epa.gov/ebtpages/watestormwater.h



-
- NYSDEC – Division of Water SPDES Program

www.dec.ny.gov/permits/6054.html



Questions?

Please sign the BMPP Training Sign-In Sheet

Marco Salcedo- msalcedo@panynj.gov, 973-565-7556

Victoria Carley- vcarley@panynj.gov, 976-565-7569

All forms submitted to: JFKEnvironmental@panynj.gov