

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

## Best Management Practices Plan Implementation Training

**Emmet Flanigan**  
Langan Engineering

**Kale Novalis**  
Langan Engineering

September 2020

# JFK Airport BMPP Implementation Training

- **What is the BMPP Program and Why is it important?**
- **Sources of Pollution**
- **Pollution Prevention Team**
- **Best Management Practices**

Regulatory  
Requirements

Facility  
Description

Potential  
Pollutant  
Sources

Stormwater  
Management  
Controls

Site  
Compliance  
Evaluation



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



# Regulatory Requirements



- **National Pollutant Discharge Elimination System (NPDES)**
  - The Clean Water Act prohibits anybody from discharging "pollutants" through a "point source" into a "water of the United States" unless they have an NPDES permit.
- **State Pollutant Discharge Elimination System (SPDES)**
  - New York State Department of Environmental Conservation (NYSDEC) SPDES program is designed to eliminate the pollution and to maintain the highest quality of water possible consistent with:
    - *public health*
    - *public enjoyment of the resource*
    - *protection and propagation of fish and wildlife*
    - *Industrial development in the state*

# 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 water
- Tank hydrotest and ballast waters
- Secondary containment wastewater

# 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
  - Activity Specific BMPs



Regulatory  
Requirements

Facility  
Description

Potential  
Pollutant  
Sources

Stormwater  
Management  
Controls

Site  
Compliance  
Evaluation

## JFK International Airport Facility

*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

Terminal/Building/Hangar  
Runway/Taxiway



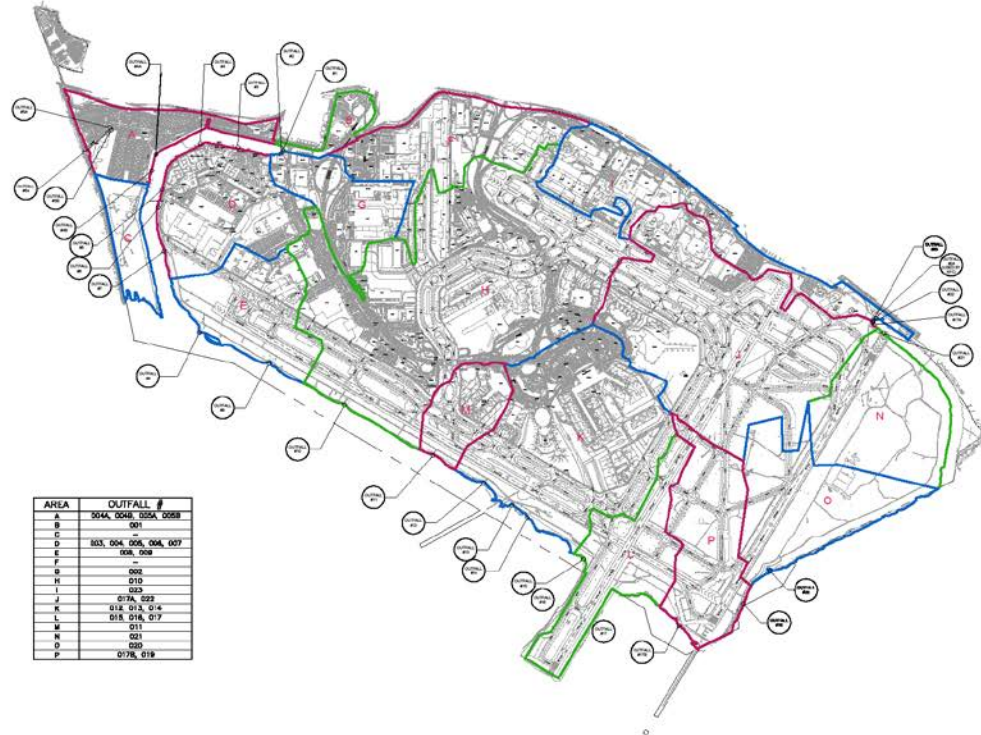
Catch Basin/Storm-Drain



Outfalls



Bay





Regulatory  
Requirements

Facility  
Description

Potential  
Pollutant  
Sources

Stormwater  
Management  
Controls

Site  
Compliance  
Evaluation

# Potential Pollutant Sources

## Aircraft, Vehicle, and Equipment Maintenance

- Lubricants
- Fuels
- Anti-freeze
- Degreasers

## Aircraft, Vehicle, and Equipment Fueling

- Gasoline, Diesel, Jet Fuel
- Fuel Vapors

## Aircraft Sanitary Service

- Bacteria
- Lavatory flushing chemicals



Regulatory  
Requirements

Facility  
Description

Potential  
Pollutant  
Sources

Stormwater  
Management  
Controls

Site  
Compliance  
Evaluation



- Building and Grounds Maintenance
  - Pesticides
  - Herbicides
  - Oils and Grease
  - Petroleum Hydrocarbons
- Chemical Storage and Fuel Storage
  - Petroleum Hydrocarbons
  - Lubricants
  - Paints
  - Battery Acid
  - Solvents

- **Food Handling Operations**
  - Oil and grease
  - Bacteria
- **Fire Fighting Foam Testing**
  - PFAS Compounds
- **Aircraft & Pavement**
- **Deicing/Anti-icing**
  - Propylene Glycol
  - Sodium Acetate
  - Potassium Acetate



# Fire Fighting Foam Discharge

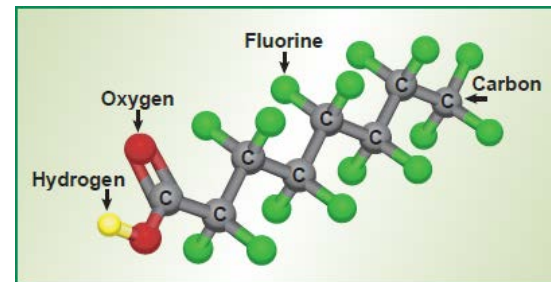
- **Purpose:** Eliminate discharges to the storm drain system associated with flushing or testing of FFFS
- Perform testing operations in designated areas
- Properly dispose or recycle foam discharge
- Service sump regularly
- Discharge must be collected, drummed, and transported to an approved and permitting facility
- Routinely clean and maintain collection vault as necessary
- Comply with requirements related to Chemical Bulk Storage



# Perfluorinated Chemicals (PFCs)

NYSDEC Regulatory Impact Statement (April 25, 2016)

- PFOA-acid, PROA-salt, PFOS-acid, and PFOS-salt are added to the list of hazardous substances (6 NYCRR Section 597.3).
- Mixtures containing PFOA/PFOS in concentrations of 1% or more, stored in AST of 185 gallons or more or any size UST, are subject to CBS regulations.
- **Releases of PFOA/PFOS to the environment is prohibited.** Any release greater than 1 lbs, must be reported to the **NYSDEC spill hotline.**



Regulatory  
Requirements

Facility  
Description

Potential  
Pollutant  
Sources

Stormwater  
Management  
Controls

BMP Plan  
Implementation

## Responsible & Accountable Parties

Regulatory  
Requirements

Facility  
Description

Potential  
Pollutant  
Sources

Stormwater  
Management  
Controls

BMP Plan  
Implementation

## Responsible & Accountable Parties

- **The Port Authority** is responsible for developing and implementing an airport wide BMPP
- **Tenants** are to develop and implement specific BMPs that are applicable to their operation
- **Tenants** whom manage multiple “sub-tenants” are responsible for the actions of those sub-tenants
- **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 incidents if they occur no matter whom caused the incident



# New York State Department of Environmental Conservation

- The DEC can conduct random inspections of all JFK facilities
- State Pollutant Discharge Elimination System (SPDES)
- BMPs are guidelines for adhering to the State and National regulations

# New York State Department of Environmental Conservation

- The DEC can conduct random inspections of all JFK facilities
- State Pollutant Discharge Elimination System (SPDES)
- BMPs are guidelines for adhering to the State and National regulations

**\$\$ COSTLY FINES \$\$**

# Pollution Prevention Team

- **Chris Jones, *Manager of Environmental Services***
  - Tel: 718-244-3546
  - [JFK\\_Environmental@panynj.gov](mailto:JFK_Environmental@panynj.gov)
- *The Environmental Maintenance Unit* perform inspections of the facilities maintained by the PANYNJ
- A designee from ***each tenant site*** is on the **Pollution Prevention Team** and is responsible for implementation of the BMPP on tenant property.

# Pollution Prevention Team

- Tenants and contractors must identify a **corporate level representative** **Environmental Manager, Corporate Health & Safety Manager, Compliance Manager, etc.** responsible for BMPP Training and implementation of the BMPP on tenant property
- **Second on-site tenant contact/ facility manger/representative.**
- All Pollution Prevention Team members shall complete the **Pollution Prevention Team Member Designation Form** and submit to the **Manager of Environmental Services** annually by April 15th
- Pollution Prevention Team Members complete the **BMP Self-implementation Inspection Form**

Regulatory  
Requirements

Facility  
Description

Potential  
Pollutant  
Sources

Stormwater  
Management  
Controls

Site  
Compliance  
Evaluation

## Tenant BMPP Implementation

Consists of:

- Attending BMPP Training
- Conduct Routine Facility Inspections
- Corrective Action for Environmental Infractions
- Complete Reporting Forms



# BMPP Implementation Inspections

Tenant BMPP Reporting Requirements	
Specific Reporting Forms	Frequency
Spill Reporting Form	Within one day of incident
Deicing/Anti-icing Reporting Form	By 15 <sup>th</sup> of the Month following deicing/anti-icing activities
Deicing Inspection Form	December 15 <sup>th</sup> annually
BMP Self-Inspection Form	April 30 <sup>th</sup> annually
Team Member Designation Form	At PANYNJ training and when new designations are made

# PANYNJ Environmental Data Portal

# PANYNJ Environmental Data Portal



## JFK International Airport BMP Portal

This site is for the Port Authority of NY and NJ and its tenants. Here you can find access to the digital forms, documentation, and supporting documents.

## Annual Reporting Forms



### BMPP Implementation Inspection Form

Tenants shall implement BMPs to reduce potential stormwater impacts and complete this form every April.

[Open Form](#)[View Submitted Data](#)

### Pollution Prevention Team Designation Form

Tenants shall identify a corporate level representative responsible for the BMP Implementation and an on-site contact.

[Open Form](#)[View Submitted Data](#)

### Spill Response Reporting Form

In the event of a spill, tenants should complete this form to report the spill to the PANYNJ Environmental Services.

[Open Form](#)[View Submitted Data](#)



## Annual Reporting Forms



### BMPP Implementation Inspection Form

Tenants shall implement BMPs to reduce potential stormwater impacts and complete this form every April.

[Open Form](#)[View Submitted Data](#)

### Pollution Prevention Team Designation Form

Tenants shall identify a corporate level representative responsible for the BMP Implementation and an on-site contact.

[Open Form](#)[View Submitted Data](#)

### Spill Response Reporting Form

In the event of a spill, tenants should complete this form to report the spill to the PANYNJ Environmental Services.

[Open Form](#)[View Submitted Data](#)

## Deicing Forms



### Aircraft Deicing/Anti-icing Report

Tenants Conducting deicing/anti-icing should report all events to the PANYNJ Environmental Services.

[Open Form](#)[View Submitted Data](#)

### Deicing/Anti-icing Inspection Form

Tenants conducting deicing/anti-icing shall complete this form every November to document implement BMPs for deicing operations.

[Open Form](#)[View Submitted Data](#)

# BMP Self Inspection Form

## BMPP Implementation Inspection Form

Please submit tenant self-inspection by April 30 of each year.

The Best Management Practices Plan (BMPP) Implementation Inspection Form shall be completed twice annually (one by the tenants and one by PANYNJ) for all activities that potentially impact stormwater at JFK airport. The tenants will conduct a self-inspection by the end of April of each year and the PANYNJ will conduct an additional site walk during June-August each year. The BMPP Implementation Inspection Form will be used to assess BMPP effectiveness and the results of the inspections will be presented in the Annual Facility and Site Inspection Report for JFK Airport.

If you need help filling out this form, please  
contact [JFK\\_Environmental@panynj.gov](mailto:JFK_Environmental@panynj.gov)

### BMPP Key Compliance

Avoid early permit violations and problems meeting SPDES permit compliance requirements with proper inspection and maintenance of BMPs.

Stormwater BMPs require regular inspections and maintenance to ensure long-term function.

Inspections and appropriate reporting are the most effective way to detect and avoid potential problems before they become a liability.

### References

The BMPP and copies of all BMPP forms are located on the Environmental Services website at <https://nycportal.panynj.gov/airports/jfk-fac-info.htm>

All forms should be submitted to:  
[JFK\\_Environmental@panynj.gov](mailto:JFK_Environmental@panynj.gov)

### Contact

Christopher M. Jones, P.E.  
Manager, Environmental Programs  
The Port Authority of NY & NJ  
John F. Kennedy International Airport  
B14, Tet Plean, South Service Road  
Jamaica, New York 11430  
P: (718) 244-3546 / F: (718) 244-3554

#### Inspection Type

Select type of inspection being conducted.

Tenant Self-Inspection

#### Inspector Name/Title

#### Contact Phone Number

#### Contact Email Address

#### Date and Time of Inspection

9/11/2020

03:02 PM

#### Other Attendants Accompanying Inspector

[Click here to access information on the New York State Bulk Storage Program](#)

#### Common Acronyms

AST	Aboveground Storage Tank
UST	Underground Storage Tank
CBS	Chemical Bulk Storage
PBS	Petroleum Bulk Storage

#### BMP Fact Sheets

[BMP 2: Aircraft, Vehicle, and Equipment Fueling](#)

[BMP 3: Aircraft, Vehicle, and Equipment Maintenance](#)

[BMP 4: Aircraft, Vehicle, and Equipment Washing](#)

[BMP 5: Building Cleaning and Maintenance](#)

[BMP 6: Chemical and Petroleum Storage and Handling](#)

[BMP 7: Elimination of Non-Stormwater Discharges To Storm Drains](#)

[BMP 8: Spills Management](#)

[BMP 9: Lavatory Service Operation](#)

- BMP Self Inspection Form due by April 30 of each year
- Be sure to include the following:
  - PBS or CBS Registration(s)
  - All reported NYSDEC spills
    - Petroleum spills greater than 5 gallons
    - Any spills higher than specific reportable quantity
    - Any spill that enters a catch basin
  - Dates of latest revisions to environmental plans
  - Additional on-site contacts

# BMP Self Inspection Form

Inspections and appropriate reporting are the most effective way to detect and avoid potential problems before they become a liability.

## References

The BMPP and copies of all BMPP forms are located on the Environmental Services website at: <https://news11.panynj.gov/airports/jfk-fact-info.html>

All forms should be submitted to: JFK\_Environmental@panynj.gov

## Contact

Christopher M. Jones, P.E.  
Manager, Environmental Programs  
The Port Authority of NY & NJ  
John F. Kennedy International Airport  
B14, 1st Floor, South Service Road  
Jamaica, New York 11430  
P: (718) 244-3546 / F: (718) 244-3554

## BMP-3 ACTIVITY SPECIFIC BMPs:

Instructions: Please answer each question below about activity specific BMPs implemented at the facility relating to maintenance operations and comment on the effectiveness of the implementation (Satisfactory or Needs Improvement).

Are runoff controls in place for maintenance area floor drains?

☐ Yes

☐ No

### BMP Implementation Effectiveness

Check "SATISFACTORY" if BMP is effectively implemented at the site.

Check "NEEDS IMPROVEMENT" if either no BMPs are used, or if some BMPs are used but are not effective in minimizing non-storm water discharges.

☐ Satisfactory

☐ Needs Improvement

### Needs Corrective Action?

☐ Yes

☐ No

### Notes

Are repair and maintenance materials (oil, grease, etc.) stored properly with secondary containment?

☐ Yes

☐ No

## BMP Fact Sheets

BMP 2: Aircraft, Vehicle, and Equipment Fueling

BMP 3: Aircraft, Vehicle, and Equipment Maintenance

BMP 4: Aircraft, Vehicle, and Equipment Washing

BMP 5: Building Cleaning and Maintenance

BMP 6: Chemical and Petroleum Storage and Handling

BMP 7: Elimination of Non-Stormwater Discharges To Storm Drains

BMP 8: Spills Management

BMP 9: Lavatory Service Operation

BMP 10: Oil/Water Separator

BMP 11: Outdoor Handling of Material

BMP 12: Outdoor Materials and Equipment Storage

BMP 13: Waste Management

BMP 15: Stormwater Pollution Prevention Education

BMP 16: Street Sweeping and Stormwater Facility Maintenance

## Tank Registration Reporting

Instructions: Review the facility's tank registrations, if any, and provide information listed below.

### Tank Registration Type

☐ PBS

☐ CBS

### Tank Registration Number

### Building/Tank Location

### Expiration Date

 m/d/yyyy



# Best Management Practices

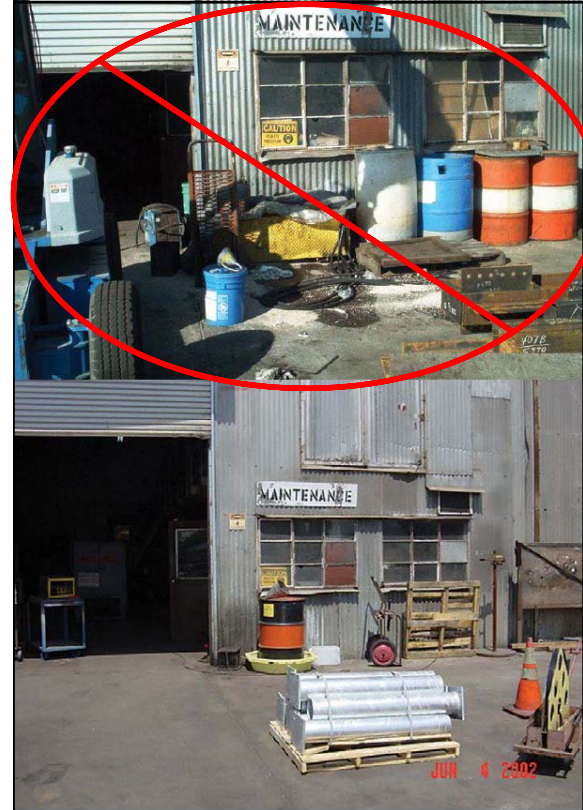
# Preventative Maintenance

- Develop a schedule for routine observations and maintenance for:
  - Structural BMPs (oil/water separator, catch basins, berms)
  - Equipment with potential to leak
- Check performance of equipment & systems
- Prompt repair or contain defective equipment
- *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”*



# Good Housekeeping

- Keep equipment and storage areas in clean and orderly manner
- Perform maintenance and repair activities indoors and under cover
- Maintain inventory of material used
- Prevent practice of hosing down the apron or hangar floor
- Collect storm water runoff from the maintenance area and provide treatment or recycling



# Spill Prevention & Response

- **Spill Prevention & Response (SRP) Plan**
  - Names and numbers for emergency contacts, coordinators and clean-up contractors
  - Identify and characterize potential spills
  - Eliminate or reduce spill potential
  - How to respond to different types and size of spills
- Develop and implement Spill Prevention Control & Countermeasure (SPCC) Plan





# Erosion and Sediment Control

- Construction projects of any size should be reviewed before the project begins to determine if adequate soil and erosion control measures will be implemented
- 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 including submitting a NOI and SWPPP





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

# Aircraft Deicing/Anti-icing

- **Ethylene glycol and Urea is prohibited**
- **Purpose:** Prevent or reduce the discharge of pollutants to soil, groundwater, and/or storm water from aircraft deicing
- Apply only required amounts of deicing fluid
- Use a range of glycol/water blends
- Upgrade existing truck fleet
- Limit secondary deicing
- Dry weather discharge of material is prohibited
- Recordkeeping: Report glycol releases to appropriate regulatory agencies

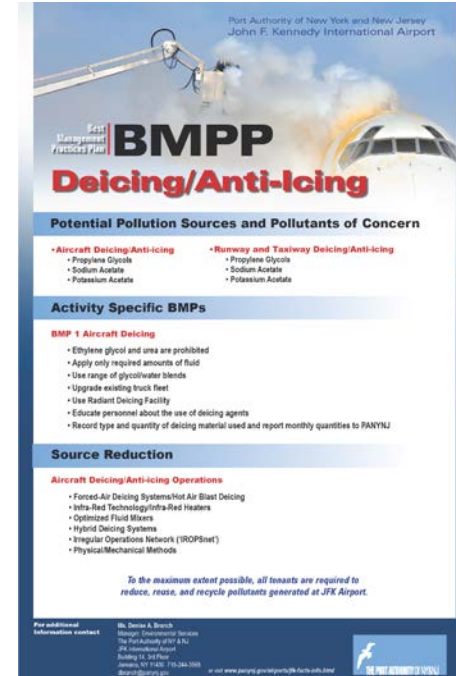


# Deicing Source Reduction

***“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
- Use of Warmed Fuel
- Temporary Deicing Pads
- Glycol Vacuum Vehicles



# Aircraft, Vehicle, and Equipment Fueling

- **Purpose:** Prevent or reduce the discharge of pollutants to storm water, groundwater, soil and air from aircraft, vehicle, and equipment fueling
- **Restock spill kits**
- Install berms, curbing, or canopies around fueling areas
- Post “**NO TOPPING OFF**” signs
- Use drain blockers at catch basins, or install gate valves at catch basins for use during fueling activity
- Install “breakaway” hose connections
- Designate area for mobile fueling
- Maintain monitoring equipment



# Aircraft, Vehicle, and Equipment Maintenance

Can this be prevented?





# Aircraft, Vehicle, and Equipment Maintenance

- **Purpose:** Prevent or reduce the discharge of pollutants to surface water, groundwater, POTW, soil and air from aircraft, vehicle, and equipment maintenance and repair
- Perform maintenance indoors and under cover
- If maintenance occurs outdoors, perform away from storm water drains
- Consider offsite maintenance by contractors
- Use drip pans
- Drain oil cans/ filters



# Aircraft, Vehicle, and Equipment Washing

- **Purpose:** Prevent or reduce the discharge of pollutants to soil, groundwater, and storm water drains from aircraft, vehicle, and equipment degreasing
- **Cover catch basins in areas where washing occurs**
- **Reclaim/recover 100% wash water and recycle or discharge appropriately**
- Use dry washing techniques in designated areas
- Provide training to employees



# Building Cleaning and Maintenance

- **Purpose:** Prevent or reduce the discharge of pollutants during building cleaning and maintenance activities
- **Common deficiencies observed:**
  - **Cap or disconnect floor drains in areas where maintenance occurs**
  - **Provide secondary containment for drums**
  - **Clean stained areas and contain/manage spills**
- Perform maintenance activities indoors and under cover
- Properly dispose of blowdown with other oily waste waters
- Properly dispose of landscape waste, wash water, sweepings, and sediments.
- Use dry pavement cleaning methods
- Initiate employee spill prevention and response training





# Chemical and Petroleum Bulk Storage

## Petroleum Bulk Storage (PBS) /Chemical Bulk Storage (CBS) :

“The operator must display a registration certificate which is current and valid on the premises of the facility at all times.”

“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 Institute.”

Operators of USTs must keep daily inventory records (and maintain them for five years). They must also test tanks and pipes every five years.

Operators of ASTs must conduct monthly visual inspections and a 10 year inspection.

Tanks that are temporarily out of service (30 days or more) must be drained of product, fill lines and gauge openings must be capped. Inspection and registration must continue.

A.P.I. COLOR CODES	
	UNLEADED REGULAR
	UNLEADED MIDGRADE
	UNLEADED PREMIUM
	UNLEADED REGULAR W/EXT.
	UNLEADED MIDGRADE W/EXT.
	UNLEADED PREM. W/EXT.
	KEROSENE
	VAPOR RECOVERY
	#1 FUEL OIL
	#2 FUEL OIL
	DIESEL, LOW SULFUR
	DIESEL, HIGH SULFUR

# NY PBS Regulation

Update the **PBS Registration** for your sites to include your name and authorization numbers to designate yourself as an operator.

- This counts as an “Information Correction”, there are no fees associated with this update.
- You may use the blank PBS registration application ([http://www.dec.ny.gov/docs/remediation\\_hudson\\_pdf/pbsrenewal.pdf](http://www.dec.ny.gov/docs/remediation_hudson_pdf/pbsrenewal.pdf)) to update your registration, or you may send a request for a pre-filled, digital copy of your registration by sending an email to [operatortraining@dec.ny.gov](mailto:operatortraining@dec.ny.gov).
- Be sure to specify the PBS numbers of the sites for which you want to be designated.

Print your **Authorization Certificate** and file it with your PBS records.

- Your certificate is accessible to you when you log in to your User Dashboard: ([www.dec.ny.gov/about/101500.html](http://www.dec.ny.gov/about/101500.html))

# NY PBS Regulation

**Used oil** is any oil, whether refined from crude or synthetic, that has been contaminated by physical or chemical impurities as a result of use.

## Typical uses include :

- Automotive and industrial lubricants
- Spent motor oil, hydraulic fluids
- Refrigeration coolants, metalworking, cutting oils, electrical insulating oil

## Storage Requirements Summary:

- **Above ground:** kept in good condition, must not leak, must be labeled "USED OIL", must be labeled with the tank's design and working capacity
- **Below ground:** fill pipes of underground tanks must also be labeled with the tank's capacity, also subject to Federal Regs 40 CFR 280
- **All tanks storing used oil must be registered with the NYSDEC.** The fees depend upon the total petroleum storage capacity of the facility, how it is used, and whether it is stored above ground or below ground. For more information, refer to the **NYSDEC Petroleum Bulk Storage Registration Fee Worksheet** at [https://www.dec.ny.gov/docs/remediation\\_hudson\\_pdf/pbsform.pdf](https://www.dec.ny.gov/docs/remediation_hudson_pdf/pbsform.pdf).
- Additional information about **used oil** can be found on the **NYSDEC webpage** at <https://www.dec.ny.gov/chemical/8786.html>



# Spills Management

What do we do now?



# Spills Management

Are we done yet?





# Spills Management



# Spills Management

- Develop spill prevention plans to contain accidental and continuous releases of petroleum products and/or hazardous substances
- Identify proper reporting procedures to implement in the event of a spill
- Immediate containment/cleanup of spills
- Maintain Spill Response Kit
  - Fueling Stations/ Areas
  - Material Storage/Handling
  - Maintenance Areas
- Required agency notification
- Properly dispose all absorbent material



# Reporting of Spill 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 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 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



# Reporting of Spill 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 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 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**

# Reporting of Spill Incidents

Within **one day** **ALL SPILLS** must be reported to PANYNJ:

**Tenants and contractors are required to notify Port Authority Central Police, Operations, and Environmental Services of any spill event.**

**\*Port Authority Central Police: 718-244-4333**

**\*Port Authority Operations: 718-244-3800**

**\*Port Authority Environmental Services: 718-244-3568**

*Tenants and contractors must complete the Spill Reporting Form **within one business day of any spill event.***

***Note: Reporting to the Port Authority does not preclude the requirement to contact other agencies (i.e. NYSDEC and NRC).***

## **Examples to be reported of ANY QUANTITY:**

- Fire Fighting Foam
- Maintenance chemicals
- Maintenance or cleaning oils or fluids, hydraulic fluid
- Propylene Glycol – deicing chemicals or blends
- Potassium Acetate – deicing chemicals or blends
- Petroleum, Heating oil, and Hazardous Substances

# Spill Response Reporting Form

## Spill Reporting Form

Please submit this form within one business day of any spill.

Tenants and contractors shall complete an electronic copy (or Print, complete, and scan completed copy) of the Spill Reporting Form and submit to the Manager of Environmental Services (JFK\_Environmental@panynj.gov) within one business day of the spill. Please include the type, amount, and cause of the spill as well as the spill response method and recommended remedial action.

Please review the Spill Reporting Guidance Document "When to Report a Spill" for contact information regarding spill events. JFK Spill Reporting Form is to be completed (within one business day) whenever a spill event occurs.

If you need help filling out this form, please contact [JFK\\_Environmental@panynj.gov](mailto:JFK_Environmental@panynj.gov)

### Spill Reporting Form

Ensure follow-up corrective action/remedial action

Presented in Annual Facility Review and Site Inspection Report

BMP Implementation Effectiveness

### BMP Key Compliance

Avoid costly permit violations and problems meeting SPDES permit compliance requirements with proper inspection and maintenance of BMPs. Stormwater BMPs require regular inspections and maintenance to ensure long-term function. Inspections and appropriate reporting are the most effective way to detect and avoid potential problems before they become a liability.

### References

The BMP and copies of all BMP forms are located on the Environmental Services website at <https://news1.panynj.gov/airports/fk-facts-info.html>

All forms should be submitted to: [JFK\\_Environmental@panynj.gov](mailto:JFK_Environmental@panynj.gov)

### Spill Information

*Instructions: Please completely fill out the following table identifying all aspects related to the individual spill event reported to the PANYNJ Environmental Services, NYSDEC Spills Hotline, and additional regulatory agencies. Provide the event date/time, location, type of spill, response, gallons spilled, cause/reason for spill or leak, NYSDEC spill number, if applicable, and the closure/corrective action status. Additional information regarding spill events may be obtained on the NYSDEC Spills incident database located at <http://www.dec.ny.gov/cfm/external/index.cfm?pageid=2>.*

Date/Time of Spill

Common Name of Material Spilled

Chemical Abstracts Services (CAS) Number

If applicable. Reference at <http://www.cas.org>

- All spills must be submitted to the online database within 24 hours

- Relevant links:

- Chemical CAS Information

- <https://www.cas.org/>

- Reportable quantities

- <http://www.epa.gov/ceppo/pubs/tile3.pdf>

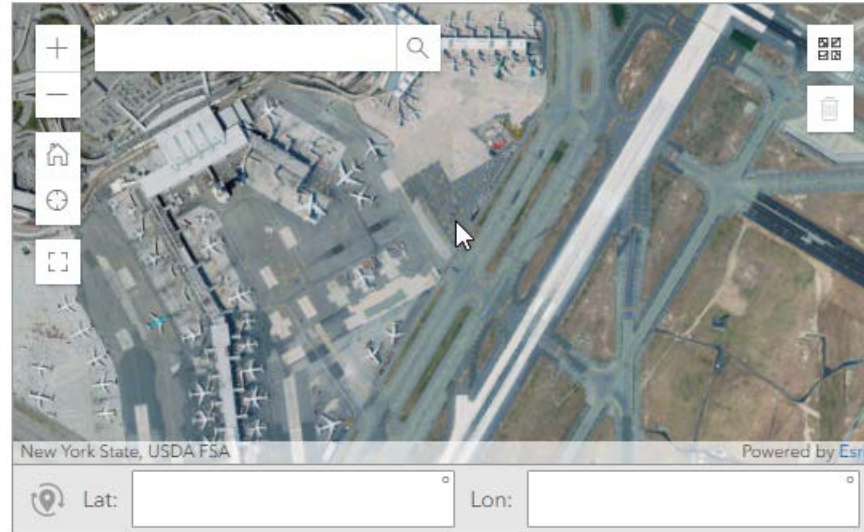
- Additional information

- <http://www.dec.ny.gov/cfm/external/index.cfm?pageid=2>

# Spill Response Reporting Form

## Location of Spill

Pan and click on the map where the spill has occurred



The image shows a web-based map interface for reporting a spill location. The map is an aerial view of an airport, likely JFK, with runways, taxiways, and terminal buildings visible. A mouse cursor is positioned over a runway. The interface includes a search bar at the top with a magnifying glass icon. On the left side, there are four icons: a plus sign for zooming in, a minus sign for zooming out, a house icon for home, and a clock icon for history. On the right side, there are two icons: a square with a crosshair for full screen and a trash can for clearing the map. At the bottom, there are two input fields for latitude and longitude, labeled 'Lat:' and 'Lon:'. The text 'New York State, USDA FSA' is visible at the bottom left, and 'Powered by Esri' is at the bottom right.

# Lavatory Service Operations

- Purpose: Reduce and eliminate discharges to the storm drain system associated with ground servicing of aircraft lavatory facilities
- **Discharge and clean trucks only in triturate facilities. Do not discharge to sanitary sewer.**
- Capture drippage using buckets or pans
- Absorbent material and other containment equipment should always be readily available



# Outdoor Handling of Material

- Purpose: Prevent or reduce the discharge of pollutants during loading and unloading of material and cargo
- Conduct loading/unloading under cover
- Transfer materials in paved areas away from storm drains
- Immediately contain and absorb leaks during transfers
- Use drip pans under hoses
- Keep containers closed when not in use.





# Outdoor Handling of Material



# Outdoor Handling of Material





# Outdoor Material and Equipment Storage

Which photo shows a proper method for outdoor chemical storage?



A



B



C

# Outdoor Material and Equipment Storage

- Purpose: Prevent or reduce discharge of pollutants from outdoor storage areas for significant material
- **Store on spill pallets, berming or secondary containment**
- Store materials indoors and under cover
- Conduct periodic inspections for spills, leaks, damaged containers/ hoses, and document
- Post Safety Data Sheet (SDS)
- Properly discharge stormwater/ spilled material from secondary collection
- Eliminate excessive oil and grease buildup on equipment



# Waste Management

- **Provide sheltered and designated waste storage and recycling areas**
- Streamline operations to minimize waste generation
- Maintain records of waste generation and disposal
- Obtain appropriate registrations for any hazardous waste generation
- Properly manage Universal Waste
- Drain all fluid from parts and equipment prior to disposal
- Verify proper waste disposal practices for contractors.



# Waste Management





# Waste Management



# Street Sweeping and Pavement Cleaning

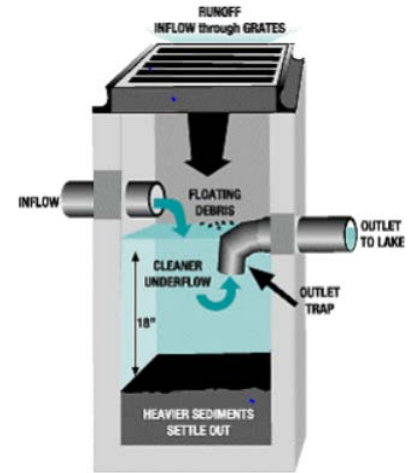
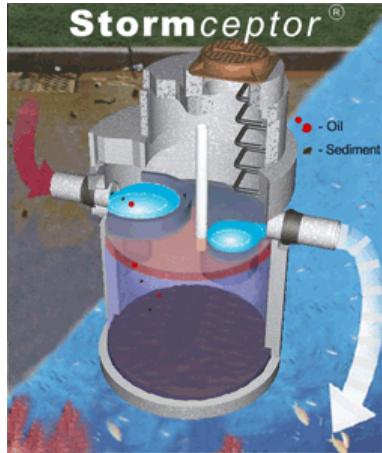
- **Purpose:** Reduce the amount of solids and floatable materials entering the storm system
- **Establish inspection schedule and regularly clean out catch basins**
- Street sweeping is required on a routine basis in catch basin areas.  
Aeronautical areas swept once per week
- Clean heavily utilized areas routinely to minimize small spills and leaks from entering storm drain
- Repair eroded sites



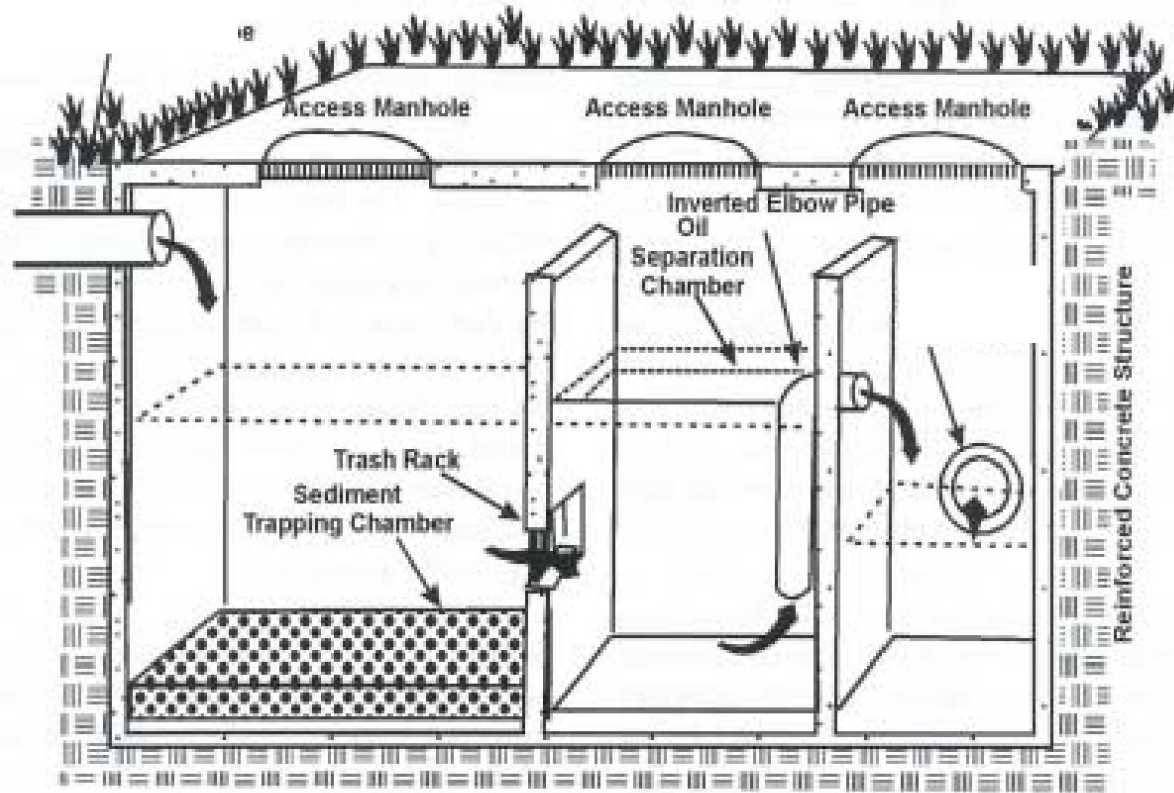
# Stormwater Facility Maintenance

## Oil/Water Separator, Catch Basins, Stormceptors

- Inspect and clean routinely for accumulated oil, grease, floating debris, and sediment
- Perform and document in a log book all inspections and maintenance operations
- Properly dispose of all liquid and solid waste from cleaning activities.



# Typical Oil/Water Separator





# Catch Basins

What is wrong with these photos?



# Catch Basins

- Catch basins are cleaned when deposits are one-third the distance from the basin bottom to the invert of the pipe or opening into out of the basin.
- If woody debris or trash accumulates in a catch basin, **clean the basin on at least a weekly basis.**
- Remove immediately any petroleum material in catch basins (including a sheen).
- Refer to the stormceptors's O&M manual for recommended cleaning frequency.





# PANYNJ Website

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

<https://www.panynj.gov/port-authority/en/business-opportunities/aviation-documents.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](http://www.nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=20000469L.txt)

- USEPA – Storm Water  
[www.epa.gov/ebtpages/watestormwater.html](http://www.epa.gov/ebtpages/watestormwater.html)



- NYSDEC – Division of Water SPDES Program

[www.dec.ny.gov/permits/6054.html](http://www.dec.ny.gov/permits/6054.html)



# Questions?

[JFK\\_Environmental@panynj.gov](mailto:JFK_Environmental@panynj.gov)

Chris Jones – [cjones@panynj.gov](mailto:cjones@panynj.gov) 718-244-3546

Thank You!