

**NYCT Fresh Pond Depot
Draft Upland Site Summary**

NYCT FRESH POND DEPOT (DAR SITE ID #18)

Address: 66-99 Fresh Pond Road, Ridgewood, New York
Tax Lot Parcel(s): Queens Block 3619, Lot 3
Latitude: 40.706704
Longitude: -73.895537
Regulatory Programs/
Numbers/Codes: AFS No. 3608100882, USEPA ID No. NYD980642193,
NYSDEC Spill No. 0000589, 0005652, 1107744, 1105032,
1008333, 0910152, 0806261, 0609826, 0609797, 0514695,
0509312, 0502946, 0401667, 0312955, 0312489, 0311654,
0202907, 0106034, 9710483, 9509740, 9509034, 9413884,
9010398, 9009520 and 9003392., CBS No. 2-000285, PBS No.
2-190276
Analytical Data Status: Electronic Data Available Hardcopies only
 No Data Available

**1 SUMMARY OF CONSTITUENTS OF POTENTIAL CONCERN (COPCs) TRANSPORT
PATHWAYS TO THE CREEK**

The current understanding of the transport mechanism of COPCs from the uplands portions of the New York City Transit Authority (NYCT) Fresh Pond Depot (site) to Newtown Creek is summarized in this section and Table 1 and supported in the following sections.

Overland Transport

The site is located approximately 1.41 miles from Newtown Creek and associated waterways. This is not a complete historical or current pathway.

Bank Erosion

The site is not adjacent to Newtown Creek or associated waterways. This is not a complete historical or current pathway.

Groundwater

Groundwater quality information for this site was not identified in documents available for review. The site is located approximately 1.41 miles from Newtown Creek and associated waterways. There is insufficient evidence to make a historical or current pathway determination.

Overwater Activities

This site is not adjacent to Newtown Creek or associated waterways and has no overwater activities. This is not a complete historical or current pathway.

Stormwater/Wastewater Systems

Information regarding on-site stormwater infrastructure and management was not identified in documents available for review. The site is within the Newtown Creek Water Pollution Control Plant (WPCP) sewershed. Stormwater and wastewater discharges from the site flow into a combined municipal sewer system. When the combined flows exceed the system's capacity, untreated combined sewer overflows (CSOs) are discharged to Maspeth Creek, a tributary to the Newtown Creek (NYCDEP 2007). The site is listed in a New York City Department of Environmental Protection (NYCDEP) Industrial Pretreatment Program Annual Report (NYCDEP 1988). There is insufficient evidence to make a historical or current pathway determination for direct discharge of stormwater and wastewater, and sewer/CSO.

Air Releases

The site is identified as having potential releases of nitrogen dioxide and volatile organic compounds (VOCs). There is a facility-wide permit for the site (AFS: 3608100882). The emissions are classified as potential uncontrolled emissions (USEPA 2011a). There is insufficient evidence to make a historical or current pathway determination.

2 PROJECT STATUS

No available documents containing environmental investigations were identified for this site. A New York State Department of Environmental Conservation (NYSDEC) Site Code was not found for this site (NYSDEC 2012).

An on-site compliance evaluation was conducted by the U. S. Environmental Protection Agency (USEPA) on March 23, 2011, in which violations or issues of compliance with the Resource Conservation and Recovery Act (RCRA) were found (USEPA 2011b). The site remains listed as in violation of RCRA Compliance statutes. No further information on the nature of these violations was found. On April 18, 2011, a written informal notice was submitted by the State of New York regarding RCRA, though no formal enforcement actions were taken.

3 SITE OWNERSHIP HISTORY

Respondent Member: Yes No

Owner	Years	Occupant	Type of Operation
	Pre-1906		Unknown
Brooklyn Manhattan Transit System	1906 – unknown	Fresh Pond Repair Shops	Auto repairs
City of New York and New York City Transit Authority	1959 – present	New York City Transit Authority	Bus depot

4 PROPERTY DESCRIPTION

The site is an approximately 3.5 acre bus depot operated by the Metropolitan Transit Authority (MTA), New York City Transit, approximately 1.4 miles from Newtown Creek. Bus maintenance occurs at this site. The following are key characteristics for the site:

- A brick building houses the NYCT Fresh Pond Depot.
- The site is flat and the surfaces are most likely concrete.
- The site is zoned for manufacturing (M1-1) and the surrounding area is zoned primarily as residential (e.g., R5B and R6B) (Map 13d, New York City 2011).
- Buildings, some parkland, and roadways lie between this site and Newtown Creek.
- The Fresh Pond Yard of the New York City Subway lies adjacent to this site (to the east). There are; however, no other surrounding facilities of interest. The Grover Cleveland High School lies between this site and Newtown Creek.
- There is limited public access to the site; however, the site is active as a bus depot.
- The site is within the Newtown Creek WPCP sewershed (Outfall NC-077).

5 CURRENT SITE USE

The site is currently operated and leased by NYCT as a bus depot (Metro Wiki, 2011). The North American Industry Classification System (NAICS) identifies the business of this facility as the following (USEPA 2011c):

NAICS Code	NAICS Description
485119	Other urban transit systems
561599	All other travel arrangement and reservation services
485999	All other transit and ground passenger transportation

Note:
NAICS – North American Industry Classification System

6 SITE USE HISTORY

The site previously was a trolley depot. In the early twentieth century, this area of Queens was sparsely developed (Sanborn 1898). The Brooklyn Manhattan Transit System built a repair shop on the site in 1907 (Sanborn 1936).

New York City Transit built the Fresh Pond Depot facility in 1959. The site is 183,608 square feet and the building is one story, 134,000 square feet and 500 feet by 268 feet (Findthedata.org 2012).

7 CURRENT AND HISTORICAL AREAS OF CONCERN AND COPCS

7.1 Uplands

The site has chemical bulk storage (CBS No. 2-000285) that expires on August 11, 2013. The type of chemical stored is unknown (NYSDEC 2012). The following table summarizes the 33 storage tanks under Petroleum Bulk Storage (PBS) No. 2-190276:

Tank ID	Date Installed	Tank Status	Tank Location	Capacity (gallons)	Product
001	12/01/60	Closed-removed 06/01/91	AST	5,000	Diesel
002	12/01/60	Closed-removed 06/01/91	AST	5,000	Diesel

003	12/01/60	Closed-removed 06/01/91	AST	5,000	Diesel
004	12/01/60	Closed-removed 06/01/91	AST	5,000	Diesel
005	12/01/60	Closed-removed 06/01/91	AST	5,000	Diesel
006	12/01/60	Closed-removed 06/01/91	AST	5,000	Diesel
007	12/01/60	Closed-in place 03/01/91	UST	4,000	Gasoline
008	12/01/60	Closed-removed 02/01/95	UST	4,000	Gasoline
010	12/01/60	Closed-in place 01/01/91	UST	1,000	Lube oil
112	05/01/95	Tank converted to non-regulated use	AST	1,000	Other
ATF-1	05/01/95	In service	UST	1,000	Other
ATF-2	08/01/99	In service	AST	1,000	Other
DSL-1	06/01/92	In service	UST	4,000	Diesel
DSL-2	06/01/92	In service	UST	4,000	Diesel
DSL-3	06/01/92	In service	UST	4,000	Diesel
DSL-4	06/01/92	In service	UST	4,000	Diesel
DSL-5	06/01/92	In service	UST	4,000	Diesel
DSL-6	06/01/92	In service	UST	4,000	Diesel
DSL-7	05/01/95	In service	UST	4,000	Diesel
DSL-8	05/01/95	In service	UST	4,000	Diesel
DSL-9	05/01/95	In service	UST	4,000	Diesel
EMGEN	08/01/99	In service	UST	600	Diesel
FRE-1	12/01/60	Closed – in place 12/01/98	UST	1,000	Lube oil
FRE-19	08/01/99	Administratively closed	AST	1,000	Other
FRE-2	12/01/60	Closed – in place 12/01/98	UST	1,000	Other
FRE-3	12/01/60	Closed – Removed	UST	1,000	Other
GAS	05/01/95	In service	UST	4,000	Gasoline
M/O-1	05/01/95	In service	UST	1,000	Lube oil
M/O-1	05/01/95	Administratively closed	AST	1,000	Other
M/O-2	08/01/99	In service	UST	2,500	Lube oil

M/O-3	12/01/91	In service	AST	1,000	Lube oil
W/O-1	08/01/99	In service	UST	2,500	Waste oil/used oil
W/O-2	12/01/99	In service	UST	1,000	Waste oil/used oil

Notes:

AST – aboveground storage tank

UST – underground storage tank

Potential historical and current contaminant sources at the site include those based on bus operation and equipment, and auto and bus maintenance and repair activities. Records of annual solid waste generator reports as reported to USEPA and the NYSDEC for wastes generated and removed from the site are available as copies of reports. A summary of the reported quantities are presented below:

Report Date	Constituent (USEPA Waste Code)	Quantity	Unit	Source
1986	Hazardous waste solid (X910)	1	tons	NYSDEC 1987
1986	Hazardous waste liquid (X900)	14	tons	NYSDEC 1987
1986	Hazardous waste liquid (X726)	30	tons	NYSDEC 1987
1986	Waste combustible liquid (D006)	23	tons	NYSDEC 1987
1987	Waste, 1,1,1 trichloroethane (U728)	1	tons	NYSDEC 1988
1987	Waste petroleum, naptha (D001)	1	tons	NYSDEC 1988
1988	Waste petroleum, naptha (D001)	2	whole tons	NYSDEC 1989
1988	Waste liquid NOS (D006)	27	whole tons	NYSDEC 1989
1988	Waste liquid NOS (C306)	3	whole tons	NYSDEC 1989
1988	Waste solid NOS (X725)	<1	whole tons	NYSDEC 1989
1989	Waste petroleum, liquid (X721)	11	tons	NYSDEC 1990
1989	Waste petroleum, liquid (D001)	22	tons	NYSDEC 1990
1989	Waste liquid NOS (D006)	204	tons	NYSDEC 1990
1989	Waste liquid NOS (C306)	18	tons	NYSDEC 1990

Report Date	Constituent (USEPA Waste Code)	Quantity	Unit	Source
1989	Waste liquid NOS (X726)	3	tons	NYSDEC 1990
1989	Waste liquid NOS (X726)	14	tons	NYSDEC 1990
1990	Waste petroleum, naptha (D039)	3800	unknown	USEPA 1991
1990	Oil water separator waste (D008)	44800	unknown	USEPA 1991
1991	Waste combustible liquid (D001)	2.7	tons	USEPA 1992
1991	Mineral spirits (D039)	2.0	tons	USEPA 1992
1991	Obsolete raw material (D002)	0.3	tons	USEPA 1992
1991	Waste petroleum, naptha (D001)	1.9	tons	USEPA 1992
1991	Waste petroleum, naptha (D039)	2.7	tons	USEPA 1992
1991	Obsolete raw material (D002)	0.5	tons	USEPA 1992
1991	Obsolete raw material, methanol (U154)	1.8	tons	USEPA 1992
1991	Waste flammable liquid (D001)	0.5	tons	USEPA 1992
2004	Total hazardous waste	18.82	tons	NYSDEC 2004
2007	Total hazardous waste	2.3	tons	NYSDEC 2008

Notes:

NYSDEC – New York State Department of Environmental Conservation

USEPA – U.S. Environmental Protection Agency

Based on these records, the COPCs for the NYCT Fresh Pond Depot site include 1,1,1 trichloroethane and various petroleum products.

7.2 Overwater Activities

This site is not adjacent to Newtown Creek or associated waterways and has no overwater activities.

7.3 Spills

Documented spills at the site are summarized in the following table:

NYSDEC Spill No.	Spill Date	Close Date	Material/Quantity Spilled	Resource Affected and Cause
9010398	12/26/90	05/25/95	Unknown petroleum and motor oil/Unknown quantity	Groundwater; tank test failure
9009520	11/30/90	10/08/04	Gasoline/Unknown quantity	Groundwater; tank test failure
9003392	06/25/90	05/11/04	Diesel/Unknown quantity	Soil; unknown cause
9413884	01/18/95	12/27/00	Unknown petroleum/Unknown quantity	Soil; unknown cause
9509740	11/02/95	12/27/00	Antifreeze/Unknown quantity	Soil; housekeeping listed as cause
9509034	10/22/95	12/27/00	Diesel/150 gallons	Soil; line test from fueling tank failure
9710483	12/12/97	06/28/05	Diesel/200 gallons	Soil; human error from commercial vehicle
0005652	08/10/00	07/10/02	Gasoline/Unknown quantity	Soil; line test failure
0000589	04/14/00	07/10/02	Gasoline/Unknown quantity	Soil; line test failure on the gasoline dispensing line
0106034	09/06/01	12/03/02	Motor oil/Unknown quantity	Soil; unknown cause
0202907	06/18/02	03/17/04	Diesel/Unknown quantity	Soil; pinhole leak in fill line for diesel tank 5 and 6
0311654	01/15/04	01/29/04	Motor oil/20 gallons	Soil; equipment failure
0312489	02/10/04	03/22/04	Waste oil or used oil/Unknown quantity	Groundwater; tank test failure due to potential damage caused by nearby construction activities
0312955	02/24/04	03/30/04	Gasoline/Unknown quantity	Soil; equipment failure
0401667	05/16/04	07/12/04	Antifreeze/Unknown quantity	Soil; unknown cause
0502946	06/11/05	06/14/05	Diesel/5 gallons	Soil; human error
0509312	11/03/05	11/03/05	Antifreeze/30 gallons	Soil; equipment failure
0514695	03/23/06	03/31/06	Diesel/Unknown quantity	Soil; equipment failure
0609797	11/28/06	12/04/06	Diesel/15 gallons	Soil; equipment failure
0609826	11/28/06	12/04/06	Diesel/30 gallons	Soil; equipment failure

NYSDEC Spill No.	Spill Date	Close Date	Material/Quantity Spilled	Resource Affected and Cause
0806261	09/04/08	09/04/08	Hydraulic oil/20 gallons	Soil; equipment failure
0910152	12/14/09	12/17/09	Diesel/5 gallons	Unknown
1008333	11/09/10	Open	Unknown petroleum/Unknown quantity	Soil; unknown cause
1107744	09/19/11	Open	Diesel/20 gallons	Resource affected unknown; equipment failure
1105032	08/02/11	08/02/11	Diesel/25 gallons	Resource affected unknown; equipment failure

Note:

NYSDEC – New York State Department of Environmental Conservation

8 PHYSICAL SITE SETTING

No site specific geologic or hydrogeologic information is available for the site. The following information is based on regional conditions in the Brooklyn/Queens area.

In general, the geologic setting of Newtown Creek area consists of Quaternary glacial deposits overlying Paleozoic gneiss and schist bedrock (Misut and Monti 1999). The contact between the glacial deposits and bedrock slopes rather steeply to the southeast, ranging in depth from less than 50 feet below ground surface (bgs) near the mouth of Newtown Creek to over 200 feet bgs at the eastern portions of the historical data review area. The near surface geology is of most interest relative to potential groundwater transport pathways from upland sites to the creek. In most areas, a heterogeneous anthropogenic fill unit of variable thickness (generally less than 20 feet thick) immediately underlies the surface. Beneath the fill in most areas are complex upper glacial deposits of Late Pleistocene age consisting of ablation till, outwash, and glaciolacustrine sediments. In some areas near Newtown Creek, a shell-bearing gray silt unit is present beneath the fill; this silt may represent post-glacial intertidal sediments deposited in wetlands adjacent to the creek prior to filling in the 1800s. An extensive sequence of regionally significant glacial units underlies the upper glacial deposits in areas where bedrock is deeper (Misut and Monti 1999).

The surface aquifer is typically contained with the upper glacial deposits and the lower portion of the anthropogenic fill layer. Depth to groundwater varies from a few feet to about 30 feet bgs in the historical data review area. Shallow groundwater generally flows towards and discharges to Newtown Creek (Misut and Monti 1999).

9 NATURE AND EXTENT (CURRENT UNDERSTANDING OF ENVIRONMENTAL CONDITIONS)

9.1 Soil

Soil Investigations Yes No
 Bank Samples Yes No Not Applicable
 Soil-Vapor Investigations Yes No

No soil investigations have been conducted for this site based on review of the site material for this site.

9.2 Groundwater

Groundwater Investigations Yes No
 NAPL Presence (Historical and Current) Yes No
 Dissolved COPC Plumes Yes No
 Visual Seep Sample Data Yes No Not Applicable

No groundwater investigations have been conducted for this site based on review of the site material for this site.

9.3 Surface Water

Surface Water Investigation Yes No
 SPDES Permit (Current or Past) Yes No
 Industrial Wastewater Discharge Permit (Current or Past) Yes No
 Stormwater Data Yes No
 Catch Basin Solids Data Yes No
 Wastewater Data Yes No

Information regarding on-site stormwater infrastructure and management was not identified in documents available for review. The site is within the Newtown Creek WPCP sewershed. Stormwater and wastewater discharges from the site flow into a combined municipal sewer system. When the combined flows exceed the system’s capacity, untreated CSOs are discharged to Maspeth Creek, a tributary to the Newtown Creek (NYCDEP 2007).

Previously, there may have been wastewater operations at this site, as the site was evaluated by the NYCDEP under its Industrial Pretreatment Program (NYCDEP 1988). Previously, this site was tracked by the NYCDEP under its Industrial Pretreatment Program (NYCDEP 1988). Sites tracked by NYCDEP are given a p-code (p-number); the p-code for the site is P-1024 (NYCDEP 1988). However, in a more recent NYCDEP Annual Progress Report, the site is no longer tracked under the Industrial Pretreatment Program (NYCDEP 2004, 2009).

9.4 Sediment

Creek Sediment Data Yes No Not Applicable

Sediment investigation information was not found in reviewed documents.

9.5 Air

Air Permit Yes No
 Air Data Yes No

9.5.1 Air Permit

There are active operations at the site that require air permitting. Information on the facility’s air permit appears below:

Permit Type	Permit Number	Effective Date	Frequency-Parameters
General Facility Permit	3608100882	Unknown	Nitrogen dioxide, no frequency specified
			VOC, 8-hour moderate

Note:
 VOC – volatile organic compounds

No specific air data were available for this site. The site is identified as having potential air releases of nitrogen dioxide and VOCs. These emissions were classified as potential uncontrolled emissions (USEPA 2011a).

10 REMEDIATION HISTORY (INTERIM REMEDIAL MEASURES AND OTHER CLEANUPS)

There are no known remediation activities at this site.

11 BIBLIOGRAPHY/INFORMATION SOURCES

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12 ATTACHMENTS

Figures

Figure 1 Site Vicinity Map: NYCT Fresh Pond Depot

Tables

Table 1 Potential Areas of Concern and Transport Pathways Assessment

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Table 1
Potential Areas of Concern and Transport Pathways Assessment – NYCT Fresh Pond Depot

Potential Areas of Concern	Media Impacted					COPCs														Potential Complete Pathway						
						TPH			VOCs			SVOCs	PAHs	Phthalates	Phenolics	Metals	PCBs	Herbicides and Pesticides	Dioxins/Furans							
	Gasoline-Range	Diesel – Range	Heavier – Range	Petroleum Related (e.g., BTEX)	VOCs	Chlorinated VOCs																				
Description of Areas of Concern	Surface Soil	Subsurface Soil	Groundwater	Catch Basin Solids	Creek Sediment	Gasoline-Range	Diesel – Range	Heavier – Range	Petroleum Related (e.g., BTEX)	VOCs	Chlorinated VOCs	SVOCs	PAHs	Phthalates	Phenolics	Metals	PCBs	Herbicides and Pesticides	Dioxins/Furans	Overland Transport	Groundwater	Direct Discharge – Overwater	Direct Discharge – Storm/Wastewater	Discharge to Sewer/CSO	Bank Erosion	Air Releases
Bus maintenance operations and waste handling	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	--	?	--	-	?	--	?
Spills	√	√	?	?	?	√	√	?	√	?	?	?	?	?	?	?	?	?	?	--	?	--	--	?	--	?
USTs/ASTs	?	?	?	?	?	√	√	?	√	?	?	?	?	?	?	?	?	?	?	--	?	--	--	?	--	?

Notes:

√ – COPCs are/were present in areas of concern having a current or historical pathway that is determined to be complete or potentially complete.

? – There is not enough information to determine if COPC is/was present in area of concern or if pathway is complete.

-- – Current or historical pathway has been investigated and shown to be not present or incomplete.

AST – aboveground storage tank

BTEX – Benzene, toluene, ethylbenzene, and xylenes

COPC – constituents of potential concern

CSO – combined sewer overflows

PAH – polycyclic aromatic hydrocarbons

PCB – polychlorinated biphenyl

SVOC – semi-volatile organic compounds

TPH – total petroleum hydrocarbons

UST – underground storage tank

VOC – volatile organic compounds

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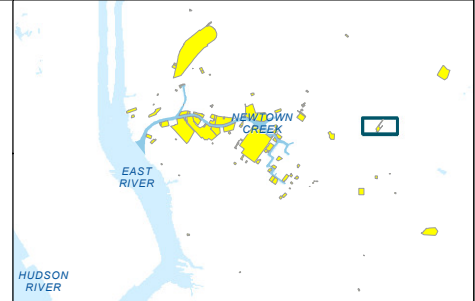
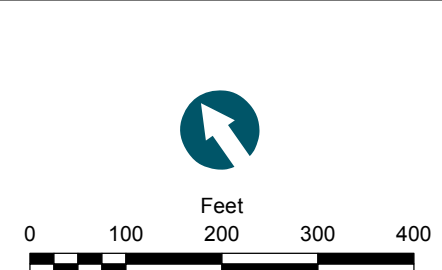


- USEPA Sample Locations (Surface and Subsurface)
- Shoreline (NYC Dept. of Information Technology, 2006)
- USGS Nat'l Elev. Dataset 5-foot Contours
- Selected Site Property Boundary
- Neighboring Site Property Boundary

- Outfall Class**
- Direct Discharge
 - General
 - Highway Drain
 - Major Stormwater Outfall
 - SPDES
 - Storm Drain

NOTES:

1. Outfall Labeling: BB: Bowery Bay; NC(B/Q): Newtown Creek, Brooklyn/Queens; ST: Stormwater.
2. Outfall locations are preliminary, compiled, estimated data based on New York City Department of Environmental Protection (NYCDEP) maps and tabulated data and other resources. Many outfall locations were taken from the New York City Shoreline Survey Program: Newtown Creek Water Pollution Control Plant Drainage Area, NYCDEP, March 31, 2003. Other locations were taken from an excerpt from a similar report from 2008 (the complete report was not included in files available for review). Finally, some outfall locations were inherited from previous Anchor QEA and Newtown Creek Project work. Latitudinal and longitudinal data provided in the 2003 and 2008 NYCDEP reports were rounded to the nearest second. This resulted in potential outfall location discrepancies of up to approximately 200 feet. All outfall locations are currently under field verification.
3. Aerial Photos: New York State Division of Homeland Security and Emergency Services, 2010.
4. Site Boundaries are based on New York City parcels data.
5. Coarse topographic contours are derived from U.S. Geological Survey 10-meter data.



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Figure 1
Site Vicinity Map
Draft Upland Site Summary: NYCT - Fresh Pond Depot
Newtown Creek RI/FS