

HAZARDOUS MATERIALS MANAGEMENT IN NEW YORK CITY

2024 Annual Report



NYC
Environmental
Protection

Eric Adams
Mayor

Rohit T. Aggarwala
Commissioner



October 1, 2024

I am pleased to present the New York City Department of Environmental Protection's (DEP) 2024 Hazardous Materials Management Annual Report. You will find data from reporting year 2023 and fiscal year 2024 as required by Local Laws 26 and 92, also known as the "Community Right-to-Know Laws," as well as information about DEP's comprehensive Right-to-Know Program. Community Right-to-Know Laws require facilities to report information about hazardous substances they store, use, and process. Having a database of this information protects community members, facility workers, emergency response personnel, and the environment, in the event of an accidental or other release of hazardous substances.

In the past fiscal year, DEP performed 5,659 inspections of facilities that store hazardous substances to ensure compliance under the Right-to-Know Law.

To learn more about DEP's Right-to-Know Program, please visit our website at nyc.gov/dep/tier2filing, or contact the Right-to-Know Program by email at deptier2@dep.nyc.gov, by phone at 718-595-4659 or write to us at:

Right-to-Know Program
New York City Department of Environmental Protection
59-17 Junction Boulevard
Flushing, New York, 11373-5108.

We all need to work together to keep our communities safe. So if you see or hear about materials that could be hazardous, please contact 311.

Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Rohit T. Aggarwala". The signature is fluid and cursive.

Rohit T. Aggarwala
Commissioner
NYC Chief Climate Officer

TABLE OF CONTENTS

5	Introduction
6	Analysis of the Citywide Facility Inventory Database
9	Facility Right-to-Know (RTK) Inspections
12	Risk Management Plans
13	Emergency Response
16	Toxic Chemical Releases
19	Administrative Information



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INTRODUCTION

In 1987, the New York City Hazardous Materials Emergency Response Law, or “Spill Bill,” was ratified by New York State. The law recognizes the need to protect human health and the environment against the accidental or threatened release of hazardous substances, and gives the New York City Department of Environmental Protection (DEP) the authority to respond to such releases.

Local Law 26 of 1988, the Community Right-to-Know (RTK) Law, requires the City to effectively regulate the storage, use, and handling of hazardous substances. As part of the law, DEP oversees the use and storage of hazardous substances that pose a threat to public health and the environment in the city through its Right-to-Know Program.

The RTK Program manages the reporting and storage of hazardous substances by requiring businesses and facilities to annually file a report detailing the quantity, location, and chemical nature of every hazardous substance stored within their facilities throughout the five boroughs. The program also grants DEP the authority to enforce action by issuing Commissioner’s Orders and Notices of Violation to help ensure safety and stability in regulation of hazardous substance and compliance under the Spill Bill and RTK Law. The RTK is comprised of Industrial Hygienist who possess the formal education and technical expertise to enforce Local Law 26 of 88. The reported information gathered from facilities is tallied and stored in the Citywide Facility Inventory Database (CFID) that is readily made available to city, state, and federal agencies during emergency responses.

The goal of the Right-to-Know Program and the Citywide Facility Inventory Database is to enhance preparedness and to minimize the number of hazardous substance releases that may put emergency responders and the public at risk. These hazardous substances or materials are also referred to as HazMat.

DEP’s Bureau of Police and Security’s Division of Emergency Response and Technical Assessment (DERTA) is the group within DEP authorized to implement and enforce the Right-to-Know Law. DERTA is a specially trained emergency response unit that responds to hazardous substance releases. The HazMat responders are comprised of chemists and engineers who possess the formal education, technical and tactical expertise required to effectively carry out emergency responses collectively by enforcing the Spill Bill and the Right-to-Know Law.

All the information for DERTA’s HazMat responses is archived in an agency-wide response database. The database consists of detailed information regarding the location of an incident, the incident description, the types of chemicals involved, and the emergency response action taken for remediation.

DEP has prepared the New York City Hazardous Materials Management 2024 Annual Report according to §24-715 of Local Law 26 of 1988.



ANALYSIS OF THE CITYWIDE FACILITY INVENTORY DATABASE (CFID)

Citywide Facility Inventory Database

On or before March 1st of each year, facilities that store hazardous substances are required under the Right-to-Know Law to file their inventory through DEP’s Right-to-Know Program. Facility Inventory Forms (FIF) are submitted to provide detailed quantitative information for substances stored during each fiscal year. DEP collects and archives the reported information in the Citywide Facility Inventory Database (CFID). The CFID data is collected under both the New York City Community Right-to-Know Law (RTK) and Title III of the Superfund Amendments and Reauthorization Act (SARA).

The CFID currently contains 12,629 reporting facilities within New York City. During reporting year 2023, 432 new facilities entered the database 33 facilities became exempt from filing, and 146 went out of business.

DERTA’s Tier II online system, simplifies the Right-to-Know Program filing process.

The comprehensive information collected by the Right-To-Know Program includes:

- Facility Inventory Forms
- Safety Data Sheet (SDS) for each reportable chemical
- Risk Management Plans (RMPs), if required
- Site Plans indicating storage location
- Notice of accidental spills and releases
- Extremely Hazardous Substance/Regulated Toxic Substance Reports
- Name(s) of emergency coordinators at extremely hazardous substance facilities.

The information contained within the CFID is often used by the New York City Police Department, the Fire Department of New York, and the New York City Office of Emergency Management. After a

Facilities in CFID Reporting Hazardous Substances by Community Board

Community Board	Bronx	Brooklyn	Manhattan	Queens	Staten Island
1	173	344	641	469	364
2	137	248	321	380	193
3	64	117	209	144	172
4	141	95	463	158	
5	91	271	1291	251	
6	104	184	451	94	
7	95	191	216	366	
8	108	86	296	130	
9	118	76	109	160	
10	131	116	99	144	
11	156	143	133	125	
12	211	160	198	292	
13		134	1	243	
14		121		92	
15		139			
16		75			
17		167			
18		228			
Total by Borough	1529	2895	4428	3048	729

Total Number Of Facilities In CFID: 12,629

comprehensive review process, DEP may provide information deemed suitable based upon internal policy, to elected officials, the public, and the city's Local Emergency Planning Committee to further increase safety awareness.

Extremely Hazardous Substances (Top 20)

Of the 4,956 hazardous substances regulated by the New York City Community Right-to-Know law, only 593 are considered to be Extremely Hazardous Substances (EHS). The EPA developed a list of 593 chemicals that are considered EHS based on the toxicity exhibited by their potential to cause death or serious health effects. Each substance was assigned a Threshold Planning Quantity by EPA that triggers the need to report under §302 of SARA Title III. The EHS list and its threshold planning quantities are intended to help communities focus on the substances and facilities of the most immediate concern for the protection of public safety, and for emergency planning and response.

It is important to note that the use of EHS can be an integral part of a business. For example, the telecommunications industry in New York City uses an EHS, sulfuric acid contained in batteries which comprise the back-up power systems necessary in the case of electrical power failure. There is no community exposure to sulfuric acid in this case unless there is an accidental release. A community may be exposed to chemicals utilized by businesses that provide services we all use on a regular basis.

Facilities that use and store EHS at or above the Threshold Planning Quantity are required to submit a Risk Management Plan (RMP) to DEP.

The table below depicts the 20 most frequently reported Extremely Hazardous Substances in New York City. A facility can report an EHS more than once, therefore the frequency column in the table indicates the number of times a substance is reported not the number of facilities.

Most Frequently Reported Extremely Hazardous Substances - Top 20

Rank	CAS Number	Chemical Name	Frequency Reported
1	7664939	SULFURIC ACID	8049
2	50000	FORMALDEHYDE	1064
3	7722841	Hydrogen Peroxide	427
4	108952	PHENOL	412
5	7664417	Ammonia	278
6	7664393	HYDROFLUORIC ACID	262
7	26628228	SODIUM AZIDE	256
8	67663	CHLOROFORM	202
9	108054	VINYL ACETATE	190
10	7697372	NITRIC ACID	171
11	123319	HYDROQUINONE	144
12	79061	ACRYLAMIDE	123
13	75569	Propylene Oxide	83
14	7664939	SULFURIC ACID	79
15	151508	Potassium Cyanide	75
16	79210	PEROXYACETIC ACID	69
17	62533	ANILINE	62
18	7487947	MERCURIC CHLORIDE	61
19	143339	Sodium Cyanide	54
20	108918	CYCLOHEXYLAMINE	53

Top Five Industries Reporting to RTK by Borough

The “North American Industry Classification System,” or NAICS code, is a number assigned by the Federal government to businesses, which identifies the industrial category to which any given business belongs.

More than half of all facilities in the CFID are industries that are identified by the following five NAICS Codes:

- 517210 - Cellular and Other Wireless Telecommunications,
- 811111 - General Automotive Repair,
- 811121 - Automotive Body, Paint and Interior Repair & Maintenance,
- 812320 - Dry Cleaning Services, and
- 517110 - Wired Telecommunications Carriers.

The number of NAICS facilities in the CFID is shown in the table below.

The total number of reporting facilities in CFID is 12,629. The table below indicates that the 8,633 facilities in the top five reporting industries encompass 68% of the CFID.

Cellular and Other Wireless Telecommunications (58%) and General Automotive Repair (22%) are the top two industries filing with the Right-to-Know Program, followed by Wired Telecommunications Carriers. Automotive Body, Paint and interior Repair & Maintenance, and Dry Cleaning Services.

Approximately 32% of the 8,633 facilities comprising the top five NAICS codes are located in Manhattan and most of them are Cellular and Other Wireless Telecommunications. Queens contains the second highest number of facilities in these categories with 25% and Brooklyn contains the third highest number of facilities in these categories with 24%. The Bronx and Staten Island have 13% and 6% of the facilities in these NAICS codes respectively.

Top Five Industries in CFID Reporting to RTK by Borough

NAICS Code	Facility Type	Borough					Total by NAICS	Percent of CFID
		Bronx	Brooklyn	Manhattan	Queens	Staten Island		
517210	Cellular and Other Wireless Telecommunications	563	1144	1982	1046	254	4989	58%
811111	General Automotive Repair	353	602	86	733	168	1942	22%
811121	Automotive Body, Paint and Interior Repair & Maintenance	139	177	16	231	65	628	7%
812320	Dry Cleaning Services	58	84	54	98	29	323	4%
517110	Wired Telecommunications Carriers	28	49	607	54	13	751	9%
Total Number of Facilities		1141	2056	2745	2162	529		
Borough as percent of City		13%	24%	32%	25%	6%		
Total							8,633	100%

FACILITY RIGHT-TO-KNOW (RTK) INSPECTIONS

With a total of 12,629 facilities reporting annually, the Right-to-Know program grants DEP the jurisdiction to enforce the Right-to-Know Law by conducting facility inspections on a regular basis throughout the city. The inspections involve a full site inventory analysis that includes an assessment in the proper storage and segregation of hazardous substances by class. Class is usually related to chemical compatibility and hazardous characteristics such as corrosivity, flammability and toxicity. Scheduled inspections performed by DERTA personnel confirm the quantities of hazardous substances reported by the facility in the Citywide Facility Inventory Database (CFID).

If the facility is located in a flood zone, in addition to the safe storage principles, it's also mandated: the facility stores chemicals in locations less likely to be flooded; elevate chemicals off the ground when possible; lock and secure storage cabinets to fixed structures; keep caps and lids on all chemical containers tightly closed to prevent water from entering containers in case of flooding; keep the number and quantity of stored chemicals to a reasonable minimum; use concrete or fixed solid structures as secondary containment; securely anchor above-ground storage tanks and all tanks (including underground) be tightly capped and vented, and other openings that are not liquid-tight must be extended above the 100-year floodplain level. Storing and processing of water reactive chemicals or any chemical that may become flammable, explosive, or pose other environmental danger in case of flooding are prohibited in the 100-year floodplain.

There are many facilities that are required to comply with the RTK Law, and they may not be aware of that requirement. DERTA locates new facilities by searching for specific trades using phone directories or lists of facilities compiled by specific North American Industry Classification System that may be procured from information groups. Oftentimes, citizen complaints to 311 may lead DERTA to businesses that are required to file but have not done so. In those cases, an inspection of the facility is performed and the business is given an allotted time to file under the RTK law. New facilities are also identified by performing "survey" inspections. These are inspections performed on businesses that are not in the CFID but are adjacent to or on the same block as the routine facility inspections.

During an emergency response, DERTA also conducts immediate (unscheduled), RTK inspections of facilities responsible for hazardous substance releases involving odors or spills. These inspections may result in the finding of hazardous substances that have been unreported by the facility. Such findings require the facilities to file under the RTK Law. In addition these findings allow DERTA to issue a Commissioner's Order and a Notice of Violation if the facility does not comply with the order.



Facilities Inspected for Fiscal Years 2020-2024

In Fiscal Year 2024, DERTA completed 5,335 facility inspections and 324 Con Edison transformer inspections with a grand total of 5,659 inspections completed.

The table below indicates the number of DERTA inspections performed in Fiscal Year 2024.



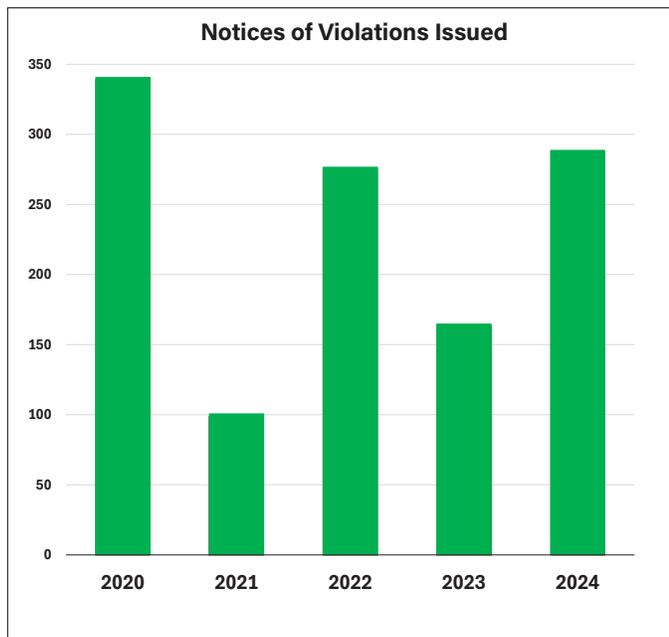
Facility Inspections Completed in FY 2024

Community Board	Bronx	Brooklyn	Manhattan	Queens	Staten Island
1	75	202	94	217	220
2	113	80	90	167	70
3	36	30	24	57	37
4	73	38	160	76	
5	44	135	513	154	
6	37	86	181	25	
7	35	84	64	260	
8	36	37	111	49	
9	39	23	28	101	
10	59	27	19	82	
11	71	48	46	56	
12	107	71	48	216	
13		65		136	
14		41		43	
15		59			
16		35			
17		111			
18		91			
55		1			
64			1		
81				1	
Total by Borough	725	1264	1379	1640	327

Notices of Violations Issued

The Right-to-Know Program is authorized to issue Notices of Violation to facilities for failure to submit completed Facility Inventory Forms, improper labeling of hazardous substance containers, failure to submit Safety Data Sheets (SDS), and failure to submit a Risk Management Plan. The majority of violations this year were issued for failure to submit a Facility Inventory Form. DERTA issued 297 Notices of Violation to facilities for non-compliance with reporting requirements.

The table and graph show the number of violations issued for Fiscal Years 2020-2024.



Notices Of Violation Issued for Fiscal Year 2020 - 2024

Type of Violations	Number Of Violations Issued				
	2020	2021	2022	2023	2024
Failure to File FIF	331	97	275	161	295
Failure to submit SDS	0	0	0	4	0
Failure to provide copies of FIF & SDS to emergency responders	4	0	0	0	2
Failure to Meet Labeling Requirement	4	1	0	0	0
Failure to Grant Access	1	3	1	0	0
Failure to File RMP	1		1	0	0
Other					0
Total Violations	341	101	277	165	297

RISK MANAGEMENT PLANS

According to Local Law 92 of 1993, any facility that stores Extremely Hazardous Substances (EHS) or regulated toxic substances listed under this law in quantities exceeding federally determined thresholds are required to file a Risk Management Plan (RMP). As per federal law these facilities must submit a new RMP every five years. Currently, there are 381 registered in the RTK Program active RMP facilities operating within the five boroughs. Since the enactment of this law, many facilities have significantly reduced their inventories of EHS to levels below reportable thresholds limits, resulting in reduced risks to facility workers, emergency response personnel, and the community.

For the 2023 reporting year, 1 new RMP has been received, 52 facilities have reported updates to their plans, 130 affidavits have been received indicating that no change has been made to their facility's RMP and 3 inspections were completed.

On March 1st of each year, a facility must submit either an affidavit stating there have been no changes from the previous calendar year, or they must provide an updated RMP. The table below indicates facilities that have filed an RMP.

Facility Risk Management Plans

Community Board	Bronx	Brooklyn	Manhattan	Queens	Staten Island
1	8	9	40	22	9
2	5	15	4	13	8
3	3	2	4	1	6
4	2	2	32	3	
5	3	11	36	5	
6	1	2	15	5	
7	1	8	10	15	
8	2	2	7	2	
9	1	1	2	1	
10	5	2		3	
11	3	2	3	1	
12	2	2	5	6	
13		2		5	
14		3		5	
15		6			
16		2			
17		1			
18		5			
Total by Borough	36	77	158	87	23

EMERGENCY RESPONSE



Emergency Response Activities

DERTA's HazMat Emergency Response originated in DEP's Bureau of Science and Technology in the 1970s. The team consists of specially trained emergency responders known as HazMat Specialists.

DERTA's HazMat Specialists, who possess an exceptionally high level of training in emergency response, are on call 24/7. Under the Citywide Incident Management System, HazMat emergency responders arrive at a potentially dangerous site to perform chemical identification of hazardous substances. To ensure maximum safety and security, the response team determines zones of delineation and develops strategies on proper containment, mitigation, disposal, and decontamination procedures.

Determining an effective mitigation strategy of the site relies heavily on on-site wet chemistry analysis and a sampling of the unknown chemical (in air, water, or soil.) This technique ensures an accurate chemical identification and determines whether or

not the hazardous substance can be safely transported off the contaminated site without causing injury or harm to emergency response personnel, the community, and the environment. The chemical identification process also determines the proper containment protocol required for transport and disposal under strict accordance with the United States Department of Transportation Federal Regulations and Guidelines.

DERTA's HazMat team utilizes the latest advanced equipment and analytical instruments, specifically designed for field use, to identify dangerous agents and hazardous unknown chemicals. The low-level detection equipment allows the team to conduct high-tech environmental monitoring for special events throughout the city, working alongside federal, state and local law enforcement agencies to immediately assess any potential chemical hazard if and when it develops. DERTA also conducts air plume dispersion modeling to perform risk assessments.

EMERGENCY RESPONSE (Continued)

DERTA's responsibility to the City is to ensure that any accidental release or intentional release of a hazardous substance be contained, controlled and remediated without endangering the community and the environment.

Enforcement Action

Title 24, Chapter 6 of the New York City Administrative Code, also known as the New York City Hazardous Substances Emergency Response Law (L.L. 42/87) or "Spill Bill," was enacted to authorize DEP to respond to emergencies or intentional releases of hazardous substances into the environment.

In the event of a hazardous chemical release, the bill authorizes the Commissioner of DEP to issue an order to the accountable party. The order stipulates a series of remedial instructions involving mitigation to be performed immediately by licensed contractors within a timely manner, as estimated by DERTA and agreed to by the responsible party. Failure or a refusal to comply with the Commissioner's Order results in the issuance of a Notice of Violation (NOV). A failure to notify DEP of a hazardous substance release also incurs the issuance of a Notice of Violation.

During Fiscal Year 2024, DERTA issued 119 Commissioner's Orders. Of which 18 NOVs were served for failure to comply with the Commissioner Orders.

Public Safety and Cost Reduction Mitigation Initiative

Mitigation and Removal

As a progressive measure in the mitigation and removal of hazardous waste throughout the five boroughs, DERTA formulated and developed its own tactical plan in dealing with removal of abandoned hazardous substances off-site as a cost cutting strategic alternative, if and when a responsible party is unidentifiable or unknown.

With approximately 3,033 response incidents per year and counting, 307 (10%) of these incidents involve abandoned chemicals and storage. Under routine circumstances, these substances are

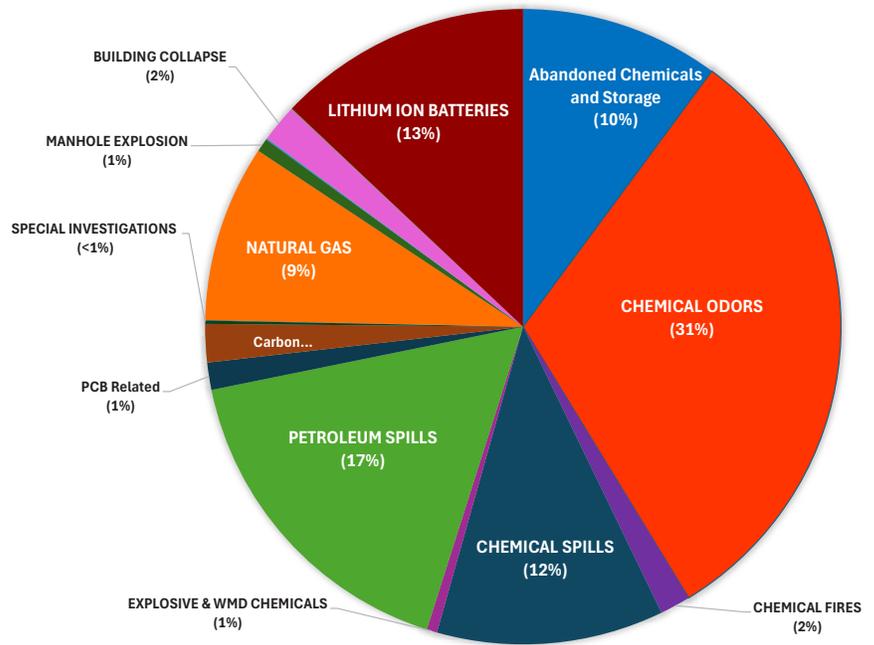
removed and transported by certified environmental contractors.

In certain cases however, where the quantity and volume of the abandoned substance meets the threshold standards within the plan, DERTA puts their hazardous waste management skills to use by performing the removal and transportation of the abandoned hazardous substance. The substance is overpacked by DERTA and safely transported to a secure location where it can be stored and bid out in a relatively safe and timely manner. This, in turn, avoids the lingering effects of pickups during off-hour late nights, weekends, and holidays, which are exorbitant cost contributing factors. The plan also considerably reduces the dependency of overnight (third party) security personnel and, most importantly, expedites the removal of hazardous substances from the streets to preserve a fixture of public health and safety.

In a typical abandoned chemical response scenario, there are three contributing factors that determine whether or not the hazardous substance removal will be undertaken by an environmental contractor. These include sampling, characterization, and identification of the abandoned material on-site through a combination of instrumentation readings and wet chemistry analyses by DERTA responders. If the material is deemed to be a petroleum-based product, the New York State Department of Environmental Conservation is notified for the removal. If the material is deemed to exhibit non-hazardous properties, the Department of Sanitation is notified for the removal. If the material is deemed to exhibit hazardous properties and characteristics, the removal, mitigation, and transport of the material will be the sole responsibility of DERTA, provided that it does not exceed the allowable storage quantities. Once the material is contained and secure, DERTA determines the strategies involved in its removal. With the cost reduction mitigation initiative as an option, DERTA continues to raise the bar in efficiency and maximizes the safety and health of New York City.

Hazardous Materials Responses by Incident Type

DERTA responded to 3,033 incidents of hazardous material releases in Fiscal Year 2024. Of these incidents, the top five categories were 31% responses to reports of chemical odors; 17% were petroleum spills; 13% were damaged lithium ion batteries; 12% were chemical spills; 10% were responses to abandoned chemicals and 9% were responses to natural gas releases (see graph and table below).



Hazardous Materials Responses in Fiscal Year 2024 (July '23- June '24)

CATEGORY	FISCAL YEAR 2023												TOTAL
	JUL '23	AUG '23	SEP '23	OCT '23	NOV '23	DEC '23	JAN '24	FEB '24	MAR '24	APR '24	May '24	JUN '24	
ABANDONED CHEMICALS & STORAGE	21	43	27	25	18	21	24	26	24	24	29	25	307
CHEMICAL ODORS	76	95	71	85	69	59	73	64	77	62	97	117	945
CHEMICAL FIRES	3	3	7	6	0	2	15	0	5	1	1	4	47
CHEMICAL SPILLS	28	32	39	31	23	23	17	27	21	32	28	49	350
EXPLOSIVE & WMD CHEMICALS	0	0	1	0	5	1	0	1	2	6	0	0	16
PETROLEUM SPILLS	56	70	47	34	36	26	25	35	49	47	36	52	513
PCB RELATED/TRANSFORMERS	1	2	8	3	0	8	7	2	0	1	5	5	42
INDOOR AIR/CARBON MONOXIDE	0	5	9	7	3	0	6	8	8	4	5	4	59
SPECIAL INVESTIGATIONS	0	0	0	1	2	1	0	1	0	0	0	0	5
ASBESTOS	0	0	0	0	0	1	0	0	0	0	0	0	1
NATURAL GAS	18	18	13	19	17	22	26	22	20	23	50	25	273
MANHOLE EXPLOSION	3	0	4	1	1	1	8	1	0	0	0	2	21
WATERMAIN BREAK	0	0	1	0	0	1	0	0	0	0	0	0	2
BUILDING COLLAPSE	6	3	6	1	2	1	8	9	6	9	4	3	58
STEAMPIPE EXPLOSION	0	0	0	0	0	1	0	0	0	0	0	0	1
LITHIUM ION BATTERIES	41	42	41	39	19	21	25	28	29	38	40	30	393
TOTAL	253	313	274	252	195	189	234	224	241	247	295	314	3,033

TOXIC CHEMICAL RELEASES

In accordance with §313 of Title III of the Federal Superfund Amendments and Reauthorization Act (SARA), companies and facilities within New York City must file their Toxic Release Inventory (TRI) data with the New York State Department of Environmental Conservation. The most current TRI data available is for reporting year 2023.

The United States Environmental Protection Agency (EPA) receives information on chemical emission reports submitted by facilities under the federal SARA Title III law. SARA Title III requires the reporting of annual releases of toxic chemicals to the air, water and land. Section 313 of that law mandates annual release reporting for more than 650 chemicals. These reports are due to the New York State Department of Environmental Conservation no later than July 1 of each year and cover activities for the previous calendar year.

TRI data presented in this section refer to 26 New York City facilities that have reported their releases to EPA, and only address air emissions that account for the majority of releases.

Facilities meeting the following criteria are required to submit TRI data:

- North American Industry Classification System code ranges from sections 31 through 33. The NAICS code ranges refer to facilities in the manufacturing and industrial sections. Starting in 1998, power-generating facilities were also required to report
- Ten or more full-time employees
- Manufacture or process 25,000 pounds per year or otherwise use 10,000 pounds of a listed toxic chemical during the calendar year.

The top five toxic chemicals released in New York City by descending order are Ammonia, n-Hexane, Xylene (mixed isomers) 1,2,4-Trimethylbenzene, and Ethylbenzene. These substances represent more than 98% of the total reported releases by weight. Ammonia alone represents 96% of the total reported released.

These releases were mostly from facilities in the following industrial sectors: electric utilities (30%), petroleum bulk terminals (33%), non-metallic mineral products (15%), primary metals (9%), paper (7%), printing (2%), petroleum(2%), computers and electronic products (2%).

Releases from facilities in the electric services industry accounted for all the Ammonia emissions, Electric services industry and petroleum bulk stations and terminals accounted for all n-Hexane, Xylene (mixed isomers) 1,2,4-Trimethylbenzene, and Ethylbenzene releases.

In analyzing the TRI release data in air, it is important to understand that the data does not represent the total value of toxic air emissions from the 26 reporting facilities alone in New York City. Under the minimum criteria required for reporting, there are many other types of facilities in the city that do not meet the requirements under SARA Title III, §313, but when their emissions are cumulatively added, they are a significant source and contributing factor in toxic air emissions. For example, dry cleaners, an industry that is not factored into the TRI data, represents a significant source for toxic air emissions. There are currently 330 dry-cleaning facilities operating in the CFID that utilize a hazardous substance commonly referred to as PERC (chemical name tetrachloroethylene or perchloroethylene); although PERC is not a chemical listed in the EHS list, it is still considered to be a probable carcinogen. Due to the relatively small operational size of a typical dry cleaning facility (less than 10 employees,) the toxic emissions generated by PERC by each dry cleaning facility tends to fall way below the threshold for TRI data reporting. As a result, dry cleaners are generally exempt from filing TRI data, and PERC, therefore, is generally unaccounted for in the releases.

Year 2023 Toxic Release Inventory Data In New York City By Community Board

Based on Year 2023 Section 313 data submitted to the State Emergency Response Commission

CB	Chemical Name	Release to Air (Pounds Per Year)
BX01		
	1,2,4-Trimethylbenzene	530.0000000
	Polycyclic aromatic compounds	0.0020000
	Summary For Community Board B01 (2 detail records)	
BX06		
	LEAD	0.0120000
	Summary For Community Board B06 (1 detail record)	
Total for Bronx (3 detail records)		530.0140000
BK01		
	1,2,4-Trimethylbenzene	277.7000000
	Benzene	524.9000000
	Ethylbenzene	93.6200000
	Lead	0.0090000
	n-Hexane	974.9000000
	Polycyclic aromatic compounds	39.3000000
	Toluene	740.5000000
	Xylene (mixed isomers)	309.4000000
	Summary For Community Board K01 (8 details records)	
BK02		
	Ammonia	22,451.0000000
	Summary For Community Board K02 (1 detail record)	
BK05		
	Copper	62.0000000
	Diisocyanates	3.8600000
	Lead compounds	33.8300000
	Manganese	2.0000000
	Nickel	1.0000000
	Summary For Community Board K05 (5 detail records)	
BK06		
	Lead	0.0252000
	Summary For Community Board K06 (1 detail record)	
BK07		
	Lead	0.0610000
	Summary For Community Board K07 (1 detail records)	
BK12		
	Lead	0.0030000
	Summary For Community Board K12 (1 detail records)	
Total for Brooklyn (17 detail records)		25,514.1082000
MN06		
	Benzo[g,h,i]perylene	0.0100000
	Polycyclic aromatic compounds	1.1400000
	Summary For Community Board M06 (2 detail records)	
Total for Manhattan (2 detail records)		1.1500000
QN01		
	1,2,4-Trimethylbenzene	3.8000000
	Ammonia	108,897.7000000

Year 2022 Toxic Release Inventory Data (Continued)

CB	Chemical Name	Release to Air (Pounds Per Year)
	Naphthalene	35.3000000
	Benzo[g,h,i]perylene	0.0120000
	n-Hexane	4.0000000
	Polycyclic aromatic compounds	33.6500000
	Summary For Community Board Q01 (6 detail records)	
QN02		
	Lead	0.0420000
	Summary For Community Board Q02 (1 detail record)	
QN07		
	Ethylbenzene	1.8100000
	Lead	0.0170000
	Naphthalene	3.8200000
	Polycyclic aromatic compounds	0.0600000
	Summary For Community Board Q07 (4 detail records)	
QN13		
	Cumene	597.7700000
	Ethylbenzene	607.4400000
	Naphthalene	597.7700000
	Xylene (mixed isomers)	631.5900000
	Summary For Community Board Q13 (4 detail records)	
QN14		
	Ammonia	10,862.0000000
	Summary For Community Board Q14 (1 detail record)	
Total for Queens (16) detail records)		122,276.7840000
SI01		
	Ammonia	5,120.9000000
	Mercury and mercury compounds	0.4000000
	Summary For Community Board SI01 (2 detail records)	
SI02		
	Lead and lead compounds	0.9000000
	Summary For Community Board SI02 (1 detail record)	
Total for Staten Islands (3 details records)		5,122.2000000

ADMINISTRATIVE INFORMATION

Agency	Division/ Program	Response Time (min)	Emergency personnel				Totals	
			No.	Title	Salary	Subtotal		
DEP	Hazardous Materials Emergency Response	5 - 10	1	Director	\$186,536.00	\$186,536.00	\$1,827,636.00	
			1	Deputy Director	\$145,389.00	\$145,389.00		
			4	WMD / Sr. HazMat Specialists	\$120,320.00	\$481,280.00		
			11	WMD / HazMat Specialists	\$92,221.00	\$1,014,431.00		
NYPD	Emergency Service Unit	30	1	Assistant Chief	\$276,463.00	\$276,463.00	\$53,914,723.00	
			1	Inspectors	\$245,006.00	\$245,006.00		
			1	Deputy Inspectors	\$233,490.00	\$233,490.00		
			8	Captains	\$222,512.00	\$1,780,096.00		
			15	Lieutenants	\$178,194.00	\$2,672,910.00		
			35	Sergeants	\$140,310.00	\$4,892,370.00		
			242	Detectives	\$135,369.00	\$32,759,298.00		
			87	Police Officers	\$127,070.00	\$11,055,090.00		
	Highway District Motor Carrier Safety Unit			1	Sergeant	\$139,782.00	\$139,782.00	\$1,164,641.00
				1	Detectives	\$135,369.00	\$135,369.00	
	COBRA Trained UMOS			7	Police Officers	\$127,070.00	\$127,070.00	\$70,113,148.00
				33	Lieutenants	\$178,194.00	\$5,880,402.00	
				77	Sergeant	\$139,782.00	\$10,763,214.00	
				58	Detectives	\$135,369.00	\$7,858,402.00	
*FDNY	FIRE	5 - 10	359	Police Officers	\$127,070.00	\$45,618,130.00	\$529,613,000.00	
			1	Assistant Chief	\$200,000.00	\$200,000.00		
			3	Deputy Assistant Chief	\$198,000.00	\$594,000.00		
			8	Deputy Chief	\$196,000.00	\$1,568,000.00		
			60	Battalion Chief	\$178,000.00	\$10,680,000.00		
			190	Captains	\$137,700.00	\$26,163,000.00		
	Medical			460	Lieutenants	\$121,800.00		\$56,028,000.00
				4500	Firefighters	\$91,000.00		\$409,500,000.00
				50	Officers	\$65,000.00		\$3,250,000.00
				190	Paramedic	\$57,000.00		\$10,830,000.00
DOHMH	Office of Environmental Investigations; Office of Radiological Health	30-45	270	EMT	\$40,000.00	\$10,800,000.00	\$1,692,651.15	
			6	City Research Scientist	\$97,768.00	\$586,608.00		
			1	Scientist (Radiation Response)	\$94,727.00	\$94,727.00		
			3	Assoc. Public Health Sanitarian	\$92,572.00	\$277,716.00		
			1	Health Services Manager	\$119,997.00	\$119,997.00		
			1	Public Health Emergency Preparedness Specialist	\$105,791.00	\$105,791.00		
DSNY	Environmental Police Unit	10 - 45	7	Public Health Sanitarian	\$71,825.00	\$502,778.15	\$1,692,651.00	
			1	Environmental Police Deputy Chief	\$120,409.00	\$120,749.00		
			1	Environmental Police Lieutenant	\$104,022.00	\$104,022.00		
			13	Environmental Police Officers	\$71,825.45	\$502,778.15		
OEM	Office of Emergency Management	30	23	Responders	\$105,070.00	\$2,416,610.00	\$2,416,610.00	
						Total	\$660,390,918.15	

*values are based on fiscal year 2021 budget.

ADMINISTRATIVE INFORMATION

New York City Department of Environmental Protection

Rohit T. Aggarwala, Commissioner

Bureau of Police and Security

Ari Maas, Deputy Commissioner

Division of Emergency Response and Technical Assessment

Harry Mayer REP, Director

Joanne Nurse, Deputy Director

ACKNOWLEDGEMENTS

The New York City Department of Environmental Protection would like to thank the members of the Hazardous Substance Advisory Board for their critical evaluation and suggestions on implementing the New York City Community Right-to-Know Law.

DEP also would like to thank the following:

- All emergency response personnel for their continued efforts to protect the environment and the health and safety of New York City.
- Agency coordinators who have provided information on emergency response included in this report:
 - Division of Emergency Response and Technical Assessment,
 - New York City Police Department
 - New York City Fire Department,
 - New York City Department of Health & Mental Hygiene,
 - New York City Department of Sanitation,
 - New York City Office of Emergency Management, and
 - New York State Emergency Response Commission.
- New York City-based facilities in compliance with the Right-To-Know law for the reporting and submission of their chemical inventory data, which allows DEP to compile the Citywide Facility Inventory Database.
- All concerned individuals who report unsafe acts, storage or releases that involve the spread of hazardous substances into our environment.



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