



October 1, 2018

I am pleased to present the New York City Department of Environmental Protection's (DEP) 2018 Hazardous Materials Management Annual Report. You will find data from fiscal year 2018 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 year, DEP performed more than 10,126 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, 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,

Vincent Sapienza, P

Commissioner

TABLE OF CONTENTS

- 1 Introduction
- 2 Analysis of the Citywide Facility Inventory Database
- 5 Facility Right-to-Know (RTK) Inspections
- 8 Risk Management Plans
- 9 Emergency Response
- 12 Toxic Chemical Releases
- 15 Administrative Information



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 unit is comprised of Industrial Hygienists who possess the formal education and technical expertise to enforce Local Law 26 of 1988. 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 has 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 2018 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 1 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 11,927 reporting facilities within New York City. During fiscal year 2018, 871 new facilities entered into the database 107 facilities became exempt from filing, and 461 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. The DEP, after a comprehensive review process, may provide information deemed

Facilities in CFID by Community Board

Community Board	Bronx	Brooklyn	Manhattan	Queens	Staten Island
1	182	345	561	478	349
2	128	205	252	362	190
3	65	131	209	145	168
4	148	86	380	153	
5	100	243	1035	234	
6	109	180	393	103	
7	96	190	207	363	
8	110	82	299	140	
9	126	84	99	156	
10	118	124	91	137	
11	153	153	126	128	
12	206	166	180	281	
13		109		227	
14		130		89	
15		142			
16		70			
17		175			
18		236			
TOTAL:	1541	2851	3832	2996	707

Total Number Of Facilities In CFID -11,927

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

Of the 4,956 hazardous substances regulated by the New York City Community Right-to-Know law, only 590 are considered to be Extremely Hazardous Substances (EHS). The EPA developed a list of 474 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.

Top 20 Extremely Hazardous Substances Reported

Rank	CAS Number	Chemical Name	Frequency Reported
1	7664-93-9	Sulfuric Acid	10389
2	50-00-0	Formaldehyde	1137
3	7664-39-3	Hydrofluoric Acid	492
4	7722-84-1	Hydrogen Peroxide	406
5	108-95-2	Phenol	403
6	108-05-4	Vinyl Acetate	266
7	108-91-8	Cyclohexylamine	265
8	7664-41-7	Ammonia	245
9	26628-22-8	Sodium Azide	226
10	7697-37-2	Nitric Acid	186
11	67-66-3	Chloroform	176
12	123-31-9	Hydroquinone	169
13	7647-01-0	Hydrochloric Acid	122
14	79-06-1	Acrylamide	106
15	151-50-8	Potassium Cyanide	93
16	75-56-9	Propylene Oxide	82
17	129-00-0	Pyrene	74
18	7487-94-7	Mercuric Chloride	68
19	143-33-9	Sodium Cyanide	64
20	62-53-3	Aniline	62

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.



Top Five Industries in CFID Reporting to RTK by Borough

NAICS	Facility Type			Total	Percent			
Code	Facility Type	Bronx	Brooklyn	Manhattan	Queens	Staten Island	by type	of CFID
517210	Cellular and Other Wireless Telecommunications	546	1118	2072	1049	259	5044	60
811111	General Automotive Repair	280	409	52	468	95	1304	15
811121	Automotive Body, Paint and Interior Repair & Maintenance	168	236	29	310	71	814	10
812320	Dry Cleaning Services	96	208	138	183	46	671	8
517110	Wired Telecommunications Carriers	23	41	484	50	16	614	7
Total Number of Facilities		1113	2012	2775	2060	487		
Borough as percent of City		14.2	25.1	29.3	25.2	6.2		
Total					_		8,447	

FACILITY RIGHT-TO-KNOW (RTK) INSPECTIONS

With a total of 11,927 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, its also recommended: the facility stores chemicals in locations less likely to be flooded, elevating chemicals off the ground when possible; locking and secures storage cabinets to fixed structures, keeping 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 aboveground storage tanks, all tanks (including underground) must be tightly capped and vented, all 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 identifies 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.

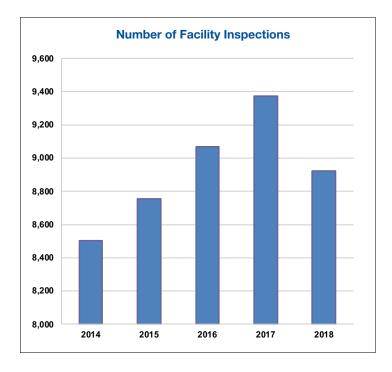
During an emergency response, DERTA also conducts immediate (unscheduled), RTK inspections of facilities responsible for hazardous substance releases involving odors or spills. These inspections may result in the finding of hazardous substances that have been unreported by the facility. Such findings 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 2014-2018

In Fiscal Year 2018, DERTA completed 8,913 facility inspections and 1,213 Con Edison transformer inspections with a grand total of 10,126 inspections completed.

The table below indicates the number of DERTA inspections performed in Fiscal Year 2018.



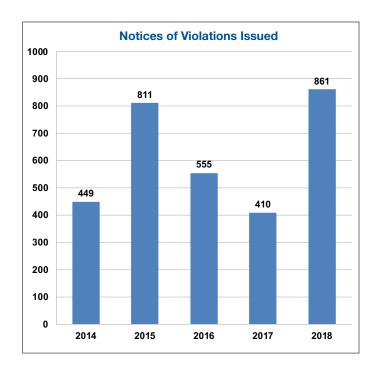
Facility Inspections Completed in FY 2018

Community Board	Bronx	Brooklyn	Manhattan	Queens	Staten Island
1	154	309	161	460	284
2	150	129	131	403	119
3	86	58	50	73	110
4	128	67	227	99	
5	91	234	613	239	
6	108	136	192	62	
7	75	191	84	355	
8	67	70	130	90	
9	123	59	36	151	
10	100	101	26	108	
11	155	156	63	81	
12	225	172	80	268	
13		115		206	
14		83		61	
15		109			
16		62			
17		219			
18		219			
Total	1,462	2,489	1,793	2,656	513

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 861 Notices of Violation to facilities for non-compliance with reporting requirements.

The table and graph show the number of violations issued for Fiscal Years 2014-2018.



Notices of Violation Issued for Fiscal Years 2014-2018

Two of Violetiese		Number Of Violations Issued						
Type of Violations	2014	2015	2016	2017	2018			
Failure to File FIF	425	774	543	393	851			
Failure to submit SDS	1	0	1	2	0			
Failure to provide copies of FIF & SDS to emergency responders	4	3	0	0	4			
Failure to Meet Labeling Requirement	10	27	0	0	2			
Failure to Grant Access	9	7	10	6	3			
Failue to File RMP	0	0	1	9	1			
Total Violations	449	811	555	410	861			

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. There are 366 active and registered 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 2017 reporting year, 15 new RMPs have been received, 67 facilities have reported updates to their plans, and 133 affidavits have been received indicating that no change has been made to their facility's RMP.

On March 1 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	Total
1	9	6	56	18	11	100
2	5	14	6	5	7	37
3	4	2	2	0	5	13
4	2	2	22	4		30
5	3	7	39	9		58
6	2	1	17	4		24
7	1	8	10	12		31
8	2	2	5	2		11
9	1	1	2	1		5
10	4	2	0	3		9
11	2	2	3	1		8
12	3	2	6	5		16
13		0		6		6
14		2		4		6
15		5				5
16		1				1
17		1				1
18		5				5
Total by Borough	37	63	169	74	23	366

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 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.

EMERGENCY RESPONSE (Continued)

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.

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 2018, DERTA issued 18 Commissioner's Orders of which 8 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 offsite as a cost cutting strategic alternative, if and when a responsible party is unidentifiable or unknown.

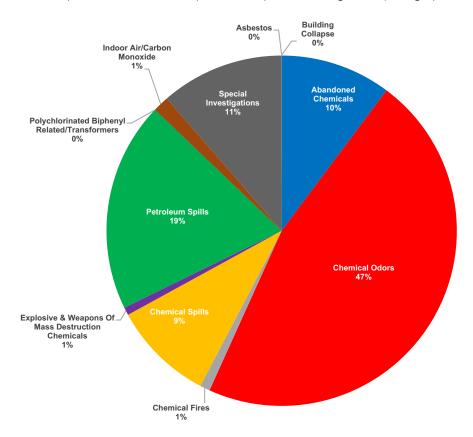
With nearly 3,600 response incidents per year and counting, 366 (10%) of these incidents involve abandoned chemicals. Under routine circumstances, these substances are removed and transported by certified environmental contractors.

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. 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 nonhazardous 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 in Fiscal Year 2018

DERTA responded to 3,582 incidents of hazardous material releases in Fiscal Year 2018. Of these incidents, 47% were responses to reports of chemical odors; 19% were petroleum spills; 10% were abandoned chemicals; 9% were responses to chemical spills and 11% were responses to special investigations (see graph and table below).



Hazardous Materials Responses in Fiscal Year 2018 (July '17- June '18)

					FI	SCAL Y	EAR 20	18					
CATEGORY	JUL '17	AUG '17	SEP '17	OCT '17	NOV '17	DEC '17	JAN '18	FEB '18	MAR '18	APR '18	MAY '18	JUN '18	TOTAL
Abandoned Chemicals	39	36	30	32	19	29	28	19	29	28	40	37	366
Chemical Odors	179	208	172	133	110	83	104	94	162	123	134	165	1667
Chemical Fires	5	6	3	4	2	2	1	1	5	0	2	2	33
Chemical Spills	44	38	33	24	23	19	19	22	24	25	29	35	335
Explosive & Wmd Chemicals	1	1	4	2	2	0	2	3	7	2	1	1	26
Petroleum Spills	68	71	68	77	40	40	45	48	47	49	72	69	694
Pcb Related/Transformers	0	0	0	0	0	0	0	0	0	0	0	0	0
Indoor Air/Carbon Monoxide	5	6	3	5	2	4	10	6	3	4	1	4	53
Special Investigations	17	46	39	29	25	32	68	36	30	25	29	30	406
Asbestos	0	0	0	0	0	0	0	0	0	1	0	0	1
Building Collapse	0	1	0	0	0	0	0	0	0	0	0	0	1
TOTAL	358	413	352	306	223	209	277	229	307	257	308	343	3582

TOXIC CHEMICAL RELEASES

Iln 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 fiscal year 2017.

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 34 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, toluene, xylene (mixed isomers, 1,2,4-Trimethylbenzene and Naphthalene. These substances represent more than 99.74% of the total reported releases by weight. Ammonia alone represents 97.9% of the total reported released.

These releases were mostly from facilities in the following industrial sectors: electric services (41.17%), concrete and asphalt manufacture (32.33%), petroleum bulk stations and terminals (11.42%), other chemical and allied products (9.20%), nonferrous metal (except aluminum) smelting and refining (5.88%).

Releases from facilities in the electric services industry accounted for all the ammonia emissions, Paint and coating manufacturing and petroleum bulk stations and terminals accounted for all the toluene releases. Electric services industry and petroleum bulk stations and terminals accounted for all n-hexane 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 34 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 610 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 2017 Toxic Release Inventory Data In New York City By Community Board

Based on Year 2017 Section 313 data submitted to the State Emergency Response Commission

СВ	Chemical Name	RELEASE TO AIR (Pounds Per Year)
B01		
	NAPHTHALENE	159.7
	1,2,4-TRIMETHYLBENZENE	380.56
	Summary For Community Board B01 (2 detail records)	
B03		
	PIPERONYL BUTOXIDE	5
	Summary For Community Board B03 (1 detail record)	
B06		
	LEAD	0.1411
	Summary For Community Board B06 (1 detail record)	
B09		
	1,2,4-TRIMETHYLBENZENE	37.9
	Summary For Community Board B09 (1 detail record)	
Total for	Bronx (6 detail record)	583.3011
K01		
	1,2,4-TRIMETHYLBENZENE	166.16
	BENZENE	213.77
	N-HEXANE	380.04
	XYLENE (MIXED ISOMERS)	124.2
	POLYCYCLIC AROMATIC COMPOUNDS	0.45
	ETHYLBENZENE	24.62
	TOLUENE	308.77
	LEAD	0.0849
	Summary For Community Board K01 (8 detail records)	
K02		
	AMMONIA	71,442
	Summary For Community Board K02 (1 detail record)	
K05		
	XYLENE (MIXED ISOMERS)	10
	METHYL ISOBUTYL KETONE	10
	TOLUENE	10
	METHANOL	10
	LEAD COMPOUNDS	61.67
	Summary For Community Board K05 (5 detail records)	
K06		
	LEAD	0.0695
	Summary For Community Board K06 (1 detail record)	
K07		
	XYLENE (MIXED ISOMERS)	76.8
	1,2,4-TRIMETHYLBENZENE	34.8
	LEAD	0.06105
	NAPHTHALENE	2.3
	N-HEXANE	0.32
	Summary For Community Board K07 (5 detail records)	

Year 2017 Toxic Release Inventory Data (Continued)

СВ	Chemical Name	Release to Air (Pounds Per Year)
K12		
	MERCURY	0.0042
	LEAD	0.1001
K15	Summary For Community Board K12 (2 detail records)	
KIJ	LEAD	50
	Summary For Community Board K15 (1 detail record)	
Total For	Brooklyn (23 detail records)	72,926.21975
M06		
	AMMONIA	52,847
	BENZO(G,H,I)PERYLENE	0.041
	POLYCYCLIC AROMATIC COMPOUNDS	1.19
	Summary For Community Board M06 (3 detail records)	
Total For	Manhattan (3 details records)	52,848.231
Q01		
	N-HEXANE	50.6
	1,2,4-TRIMETHYLBENZENE	171
	NAPHTHALENE	235.89
	AMMONIA	109,081.1
	TOLUENE	1,461
	BENZENE	54.11
	XYLENE (MIXED ISOMERS)	647.24
	ETHYLBENZENE	75.56
	BENZO(G,H,I)PERYLENE	0.0280565
	POLYCYCLIC AROMATIC COMPOUNDS	27.985
	Summary For Community Board Q01 (10 detail records)	
Q02		
	LEAD	0.0695
	Summary For Community Board Q02 (1 detail record)	
Q07	DENZO/C II INDEDVI ENE	0.0000
	BENZO(G,H,I)PERYLENE	0.0002
	LEAD POLYCYCLIC ADOMATIC COMPOUNDS	0.1187
	POLYCYCLIC AROMATIC COMPOUNDS	0.06
	TETRACHLOROETHYLENE	10
	ZINC (FUME OR DUST)	5
	NAPHTHALENE	10
Q13	Summary For Community Board Q07 (6 detail record)	
ŲIS	ETHYLBENZENE	36.7
	NAPHTHALENE	124.85
	Summary For Community Board Q13 (2 detail records)	124.00
Total For	Queens (19 detail records)	111,991.31
SI01	quotis (15 uotaii 16001us)	111,551.01
0.01	LEAD	0.107
	Summary For Community Board SI01 (1 detail record)	
SI02		
	LEAD	0.0461
	Summary For Community Board SI02 (1 detail record)	
Total For	Staten Island (2 detail records)	0.1531

ADMINISTRATIVE INFORMATION

Agency	Div/ Program	Time (min)	Emergency personnel				
			No.	Title	Salary	Subtotal	Totals
	Hazardous Materials Emergency Response	5 - 10	1	Director	\$139,031.00	\$139,031.00	
			1	Deputy Director	\$97,768.00	\$97,768.00	
			3	WMD / Sr. HazMat Specialists	\$94,759.25	\$284,277.75	
DEP			19	WMD / HazMat Specialists	\$64,098.00	\$1,217,862.00	
			1	Special Officer	\$51,993.00	\$51,993.00	
			1	Supervisor Electrician	\$104,260.00	\$104,260.00	\$1,895,191.75
			1	Deputy Chief	\$215,156.00	\$215,156.00	
	Emergency Service Unit	29	2	Deputy Inspector	\$195,227.00	\$390,454.00	
			4	Captains	\$186,093.00	\$744,372.00	
			17	Lieutenants	\$148,817.00	\$2,529,889.00	
			44	Sergeants	\$127,886.00	\$5,626,984.00	
			238	Detectives	\$109,682.00	\$26,104,316.00	
NYPD			139	Police Officers	\$102,874.00	\$14,299,486.00	\$49,910,657.00
	Highway District Motor		1	Sergeant	\$127,886.00	\$127,886.00	,.
	Carrier Safety Unit		8	Police Officers	\$102,874.00	\$822,992.00	\$950,878.00
	COBRA Trained UMOS		26	Lieutenants	\$148,817.00	\$3,869,242.00	
			81	Sergeant	\$127,886.00	\$10,358,766.00	
			35	Detectives	\$109,682.00	\$3,838,870.00	
			486	Police Officers	\$102,874.00	\$49,996,764.00	\$68,063,642.00
	FIRE	5 - 10	1	Assistant Chief	\$200,000.00	\$200,000.00	
			3	Deputy Assistant Chief	\$198,000.00	\$594,000.00	
			12	Deputy Chief	\$196,000.00	\$2,352,000.00	
			84	Battalion Chief	\$178,000.00	\$14,952,000.00	
			190	Captains	\$137,700.00	\$26,163,000.00	
FDNY			460	Lieutenants	\$121,800.00	\$56,028,000.00	
			4500	Firefighters	\$91,000.00	\$409,500,000.00	
	Medical		50	Officers	\$65,000.00	\$3,250,000.00	
			190	Paramedic	\$57,000.00	\$10,830,000.00	
			270	EMT	\$40,000.00	\$10,800,000.00	\$534,669,000.00
			3	City Research Scientist (Rad Response)	\$90,385.34	\$271,156.02	Ψοσ 1,000,000.00
	Office of Environmental Investigations; Office of Radiological Health	30-45	1	Scientist (Radiation Response)	\$88,781.00	\$88,781.00	
DOHWH			5	Assoc. PH Sanitarian (Environmental Investigations)	\$104,058.80	\$520,294.00	
DOHMH			1	Administrative Staff Analyst NM (Radiation Response)	\$89,175.00	\$89,175.00	
			5	Public Health Sanitarian II (Environmental Investigations)	\$76,032.60	\$380,163.00	\$1,349,569.02
DSNY	Environmental Police Unit	10 - 45	1	Deputy Director	\$77,284.00	\$77,284.00	
			1	Lieutenant	\$98,379.00	\$98,379.00	
			6	Environmental Police Officers	\$75,066.00	\$450,396.00	\$626,059.00
OEM	Office of Emergency Management	32	17	Responders	\$94,260.59	\$1,602,430.03	\$1,602,430.03
Budgets w	vere submitted by individ	dual agencies	3			Total:	\$659,067,426.80

DEP ADMINISTRATIVE INFORMATION

New York City Department of Environmental Protection

Vincent Sapienza, P.E., Commissioner

Bureau of Police and Security

Kevin McBride, Deputy Commissioner

Division of Emergency Response and Technical Assessment

Dr. Harry Mayer, Acting Director

Joanne Nurse, Acting 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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