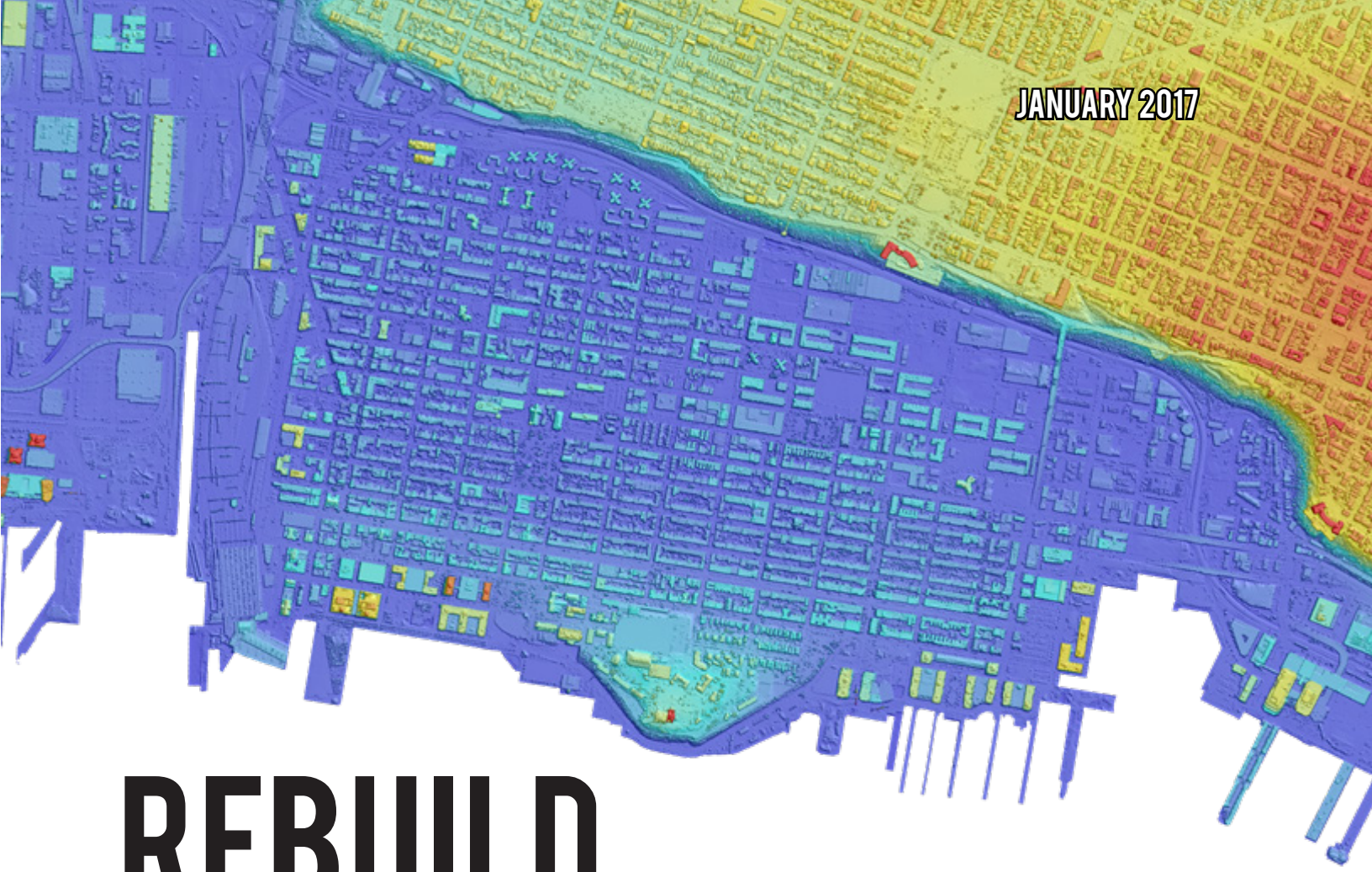


JANUARY 2017

REBUILD BY DESIGN

▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

HUDSON RIVER

Hoboken | Weehawken | Jersey City | New Jersey

HAZARDOUS WASTE SCREENING TECHNICAL ENVIRONMENTAL STUDY

Hazardous Waste Screening Technical Environmental Study

Rebuild By Design: Resist, Delay, Store, Discharge Project
Cities of Hoboken, Weehawken, and Jersey City
Hudson County, New Jersey

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LIST OF ACRONYMS

ACM	asbestos-containing material
ACO	Administrative Consent Order
AOC	area of concern
ARC	Access to the Regions Core
AST	above-ground storage tank
BEE	Baseline Ecological Evaluation
BFO	Bureau of Field Operations
BNs	base neutrals
BNAs	base neutral acid extractables
BTEX	benzene, toluene, ethylbenzene, and xylene
BUST	Bureau of Underground Storage Tanks
CEA	Classification Exception Area
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERLIS No Further Remedial Action Planned
CID	Case Inventory Document

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LIST OF ACRONYMS	
DER	Declaration of Environmental Restriction
DICAR	Discharge Investigation Corrective Action Report
DN	Deed Notice
DPW	Department of Public Works
DRO	Diesel Range Organics
ECRA	Environmental Cleanup Responsibility Act
EDR®	Environmental Data Resources, Inc.
EFR	enhanced fluid recovery
EIS	Environmental Impact Study
EPH	extractable petroleum hydrocarbon
ERNS	Emergency Response Notification System
GE	General Electric
GIN	General Information Notice
GIS	Geographic Information System
GPR	ground penetrating radar
GWQS	Ground Water Quality Standard
Hist HWS	Historical Hazardous Waste Sites
Hist LUST	Historical Leaking Underground Storage Tanks
HMIRS	Hazardous Materials Incident Report System
IGWSCC	Impact to Ground Water Soil Cleanup Criteria
IGWSRS	Impact to Ground Water Soil Remediation Standard
IGWSSL	Impact to Ground Water Soil Screening Level
IRM	interim remedial measure
ISRA	Industrial Site Recovery Act
KCS	Known Contaminated Sites
LBP	lead-based paint
LNAPL	light non-aqueous phase liquid
LOD	limit of disturbance
LSRP	Licensed Site Remediation Professional
LUST	Leaking Underground Storage Tank
MCL	maximum contaminant limit

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LIST OF ACRONYMS	
MGP	manufactured gas plant
MTBE	methyl tertiary butyl ether
MW	monitoring well
MOA	Memorandum of Agreement
NAPL	non-aqueous phase liquid
NFA	No Further Action
NJDEP	New Jersey Department of Environmental Protection
NJDOT	New Jersey Department of Transportation
NOD	Notice of Deficiency
NPL	National Priority List
NRDCSRS	Non-Residential Direct Contact Soil Remediation Standard
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OPRA	Open Public Records Act
PA	Preliminary Assessment
PAHs	polycyclic aromatic hydrocarbons
PAR	Preliminary Assessment Report
PCB	polychlorinated biphenyl
PCE	perchloroethylene / tetrachloroethene
PHC	petroleum hydrocarbon
PI	Program Interest
PID	photoionization detector
PP Metals	Priority Pollutant Metals
PRG	Preliminary Remediation Goals
RAO	Response Action Outcome
RAP	Remedial Action Permit
RAPR	Remedial Action Progress Report
RAR	Remedial Action Report
RASR	Remedial Action Selection Report
RAW/RAWP	Remedial Action Workplan
RDCSCC	Residential Direct Contact Soil Cleanup Criteria

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LIST OF ACRONYMS	
RDCSRS	Residential Direct Contact Soil Remediation Standard
RE	Receptor Evaluation
REC	recognized environmental condition
RI	Remedial Investigation
RIPR	Remedial Investigation Progress Report
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
ROD	Record of Decision
ROW	Right-of-Way
SESOIL	Seasonal Soil Compartment Model
SHWS	State Hazardous Waste Site
SI	Site Investigation
SIR	Site Investigation Report
SOCs	synthetic organic chemicals
SPLP	Synthetic Precipitation Leachate Procedure
SRP	Soil Reuse Plan
SRS	Soil Remediation Standard
SVOCs	semi-volatile organic compounds
TAL	Target Analyte List
TBA	Tertiary butyl alcohol
TCE	trichloroethylene
TCL	Target Compound List
TES	Technical Environmental Study
TIC	tentatively identified compound
TOC	total organic carbon
TOCSCC	Total Organic Contaminant Soil Cleanup Criteria
TPH/TPHC	total petroleum hydrocarbons
TSCA	Toxic Substances Control Act
UHOT	Unregulated Heating Oil Tank
USEPA	United States Environmental Protection Agency
UST	underground storage tanks

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LIST OF ACRONYMS	
VCP	Voluntary Cleanup Plan
VI	vapor intrusion
VOCs	volatile organic compounds
WRA	Well restriction area

EXECUTIVE SUMMARY

This Hazardous Waste Screening Technical Environmental Study (TES) was prepared by Dewberry Engineers Inc. (Dewberry), on behalf of the New Jersey Department of Environmental Protection (NJDEP), for the flood reduction improvements proposed for the Rebuild By Design project located in Hoboken, Jersey City, and Weehawken in Hudson County, New Jersey. The proposed project is necessary to reduce flood risk and minimize potential impacts from coastal storm surge, high tide and rainfall events in the Study Area. The objective of this study is to assess the potential for exposing soil and/or groundwater contamination during project construction, due to past or current land use activities within the Study Area. As part of the TES, Dewberry performed a Study Area reconnaissance, reviewed federal, state, municipal and historical records, and made inquiries with state and federal agencies regarding properties, businesses and environmental cases within the Study Area.

The Study Area for this Project is defined as the entire City of Hoboken, plus the northern portion of Jersey City and southern portion of Weehawken, as shown on Figures 1 and 2. The Analysis Area is a subset of the Study Area that includes properties within 100 feet of the limit of disturbance for any of the three Build Alternatives. Within the Analysis Area, properties were classified as Recognized Environmental Conditions (RECs) if there was documented and unresolved soil and/or groundwater contamination. The Analysis Area is intended to be wide enough to address mapping discrepancies based on available data collected and potential contamination migration from properties. RECs were identified based on observations made during the Study Area reconnaissance, information from records reviews, and over 175 file reviews of NJDEP data.

A total of 50 RECs were identified within the Study Area that have a possibility of being affected by the three Build Alternatives. In addition to historic fill material and railroad land use, there are 18 RECs that may affect one or more of the Resist alignments, and 42 RECs that may affect the Delay Store Discharge (DSD) portion of the proposed project.

A soil and groundwater Sampling, Analysis, and Monitoring Plan, as well as a Health and Safety Plan, will be developed and implemented in the proposed construction areas within and adjacent to these RECs to assess the presence, type and level of contamination. Sample locations would be biased toward the areas of proposed excavation, based on the engineering design, as well as towards locations adjacent to known or suspected contamination from RECs. All site investigation activities will need to be performed in accordance with the most current version of NJDEP Technical Requirements for Site Remediation, N.J.A.C. 7:26E, NJDEP Linear Technical Construction Guidance Document, and other applicable guidance documents.

The Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq. establishes a program for the licensing of environmental professionals who have the responsibility for oversight of contaminated site investigation and cleanup. Since contamination has been identified, or is suspected, within the Analysis Area and over 200 cubic yards of soil will be disturbed, the project will be required to enter the New Jersey Licensed Site Remediation

Professional (LSRP) Program as a Linear Construction Project and comply with Chapter 16 of the NJDEP Administrative Requirements for the Remediation of Contaminated Sites, N.J.A.C. 7:26C.

Should contamination be detected, a Material Management Plan (MMP) would be prepared to address the remedial approach. An MMP typically includes handling methods for regulated material; standard operating procedures for the excavation, stockpiling, transporting, measurement, and disposal of regulated material; receiving facility certification and permits; qualifications of the licensed hauler; proposed routes to the receiving facilities; waste characterization forms; a sampling and analysis protocol for characterizing the regulated material; and requirements of the receiving facility to accept the regulated material. Information in the MMP would be used to develop health and safety specifications and environmental plans for the project. Potential mitigation would include engineering controls. Due to the widespread occurrence of historic fill material within the Study Area and the abundance of RECs, it is anticipated that the majority of excavated soils will need to be properly disposed offsite. As the project qualifies as a Linear Construction Project, an institutional control (i.e., Deed Notice) would not be required for any contaminated material that remains onsite.

Potentially contaminated soils requiring excavation would be temporarily stockpiled pending waste characterization results. Excavation and staging would be performed using methods that minimize the disturbance of the soil. At a minimum, all potentially contaminated soil would be staged on an impervious surface and covered with plastic sheeting. Localized areas of contamination may necessitate removal, segregation/separate staging from other soils, and disposal off site at a licensed facility.

Due to the high water table within the Study Area and the depth of the proposed improvements, groundwater is anticipated to be encountered during construction. Regional groundwater contamination is likely present within the Study Area due to historic fill, as well as spills from industrial and commercial operations. Should groundwater contamination be identified, it may present a health risk to workers if encountered during construction. Groundwater would need to be handled in an NJDEP-approved manner. Drainage measures including dewatering may be instituted to control groundwater levels within excavations in the Analysis Area. Based on the varied locations throughout the Analysis Area expected to require dewatering, pumping any contaminated groundwater into tank trucks for offsite treatment and disposal is anticipated to be the most cost effective option.

Easements are proposed for all three Build Alternatives. Site investigation activities are recommended to be performed at these locations to confirm the presence, nature and extent of potential contamination. It is assumed that no buildings are to be acquired; if in the future any buildings are proposed for acquisition and subsequent demolition, they may require further investigation to confirm the presence and extent of Asbestos-Containing Materials (ACM), Lead-Based Paint (LBP), and Universal Waste to develop an approach to address these issues during construction.

1.0 INTRODUCTION

In order to address the need for flood risk reduction within the Superstorm Sandy-affected region, the United States Department of Housing and Urban Development (HUD) launched the Rebuild by Design (RBD) competition in 2013 inviting interdisciplinary design teams to craft pioneering resiliency solutions. During the course of this competition, a comprehensive urban storm water management strategy was developed for the Hoboken, Jersey City and Weehawken area that included hard infrastructure and soft landscape for coastal defense (Resist), policy recommendations, guidelines and urban infrastructure to slow storm water runoff (Delay), green and grey infrastructure improvements to allow for greater storage of excess rainwater (Store), and water pumps and alternative routes to support drainage (Discharge). This proposal was selected as a winner of the RBD competition, and HUD subsequently awarded the State of New Jersey $230 million for the implementation of the first phase of the "Hudson River Project: Resist, Delay, Store, Discharge" (the Project).

This Hazardous Waste Screening Technical Environmental Study (TES) was prepared by Dewberry Engineers Inc. (Dewberry), on behalf of the New Jersey Department of Environmental Protection (NJDEP), to evaluate the flood reduction improvements proposed for the RBD project. A summary of this TES will be provided in the Environmental Impact Statement (EIS) for the Project.

1.1 Project Location and Topography

The Project's Study Area encompasses the City of Hoboken and includes the southern portion of the Township of Weehawken and the northern portion of Jersey City. The Study Area has the following approximate boundaries: the portion of the Hudson River which encompasses piers within the Study Area to the east; Baldwin Avenue (in Weehawken) to the north; the Palisades to the west; and 18th Street, Washington Boulevard and 14th Street (in Jersey City) to the south. See Figures 1 and 2, Project Location and Study Area. The Study Area includes the entire comprehensive stormwater management approach which consists of the four components—Resist, Store, Delay and Discharge.

The Study Area is located along the banks of the Hudson River, beneath the Palisades, which rise to the west. Formerly an industrial waterfront community, over the past several decades the Study Area has become increasingly developed with multi-family residential and mid- and high-rise commercial development. Unobstructed views of Manhattan across the Hudson River have led much of this development to be located along the waterfront, but areas in the north and central interior portions of the Study Area have also seen an influx in residential development over the past decade.

The upland area within the Study Area is the land area above mean high tide, and is approximately 1,020 acres. The Study Area encompasses approximately 233 acres of the Hudson River. Figure 3 shows the Preliminary Flood Insurance Rate Map (FIRM) for the Study Area. The Base Flood Elevation (BFE) is the computed elevation to which floodwater is anticipated to rise during a one-percent chance annual flood. This area is also known as the 100-year

floodplain. The BFE is the regulatory requirement for the elevation or flood proofing of structures. The relationship between the BFE and a structure's elevation determines the flood insurance premium. Approximately 73 percent, or 16,800 parcels of land, within the Study Area are within the Hudson River's one-percent annual-chance floodplain (Zone AE/VE). The AE and VE zones are both 1% annual-chance floodplains, but the VE zone, which is usually along coastlines and typically does not extend beyond the waterfront (the streets, parks and esplanade directly bordering the Hudson River), is also subject to storm-induced velocity wave actions. About 4% of the land within the Study Area is within the VE zone and has base flood elevations (BFEs) of between 16 and 17 feet North American Vertical Datum (NAVD) 88 (the base flood elevation is the anticipated water level during a flood event). The majority of the Study Area (69%) is within the AE flood zone, with BFEs of between 10 and 12 feet NAVD 88. Within this area, there is a 1 percent probability of flooding in any given year. The area depicted in Figure 3 as having a 0.2 percent annual chance of flooding is also known as the 500-year floodplain. The area depicted in white on Figure 3 has an elevation higher than the estimated 500-year flood level.

Within the Study Area, there are two main entry points of floodwater during coastal storm surge events, such as Superstorm Sandy, the area around Long Slip Canal and Hoboken Terminal, and Weehawken Cove (see Figure 4). Flood waters enter at these points because they are the lowest areas of topography. Following a storm event, low-lying topography prevents water from receding. For reference, Figure 4 also displays the ground surface elevation in 5 foot contour intervals.

The topography of the Study Area is highest along the east-central portion abutting the coastline of the Hudson River at Castle Point. From here, the land slopes gently downward to the north (towards Weehawken Cove), south (towards the Hoboken Terminal and Jersey City) and to the west (towards the foot of the Palisades). This topography reflects the Study Area's history; when originally settled, Castle Point was an island surrounded to the north, south and west by wetlands. These wetlands were gradually filled in as the area grew. Today, these areas - in particular those to the west - are still extremely low-lying, in some places no more than three feet above mean sea level.

1.2 Project Background

The municipalities of Hoboken, Weehawken, and Jersey City were inundated by flood waters during Superstorm Sandy in October 2012. With half of Hoboken flooded for several days, most emergency services were unavailable, many residents were evacuated, and the National Guard was deployed to rescue those who could not evacuate. The magnitude of Superstorm Sandy's devastation, primarily attributed to a record-breaking storm surge during high tide, has overshadowed the fact that little precipitation fell during that storm. Had Superstorm Sandy been accompanied by a more typical heavy rainfall event, the Study Area's past history suggests that flooding levels and property damage could have been even higher.

The Study Area is vulnerable to two interconnected types of flooding: coastal flooding (both from storm surges as well as high tides) and systemic inland flooding (rainfall) which occurs during rainfall events that typically coincide with high tide. These flooding problems are attributed to several factors, including naturally low topography and proximity to waterways; impervious surface coverage and associated runoff; existing, relatively old, sewer

infrastructure with interconnected storm and sanitary sewer lines and insufficient discharge capability particularly during high tide.

As seen with Superstorm Sandy, coastal flooding can devastate widespread areas of the Study Area and cause significant economic damage and safety concerns. In addition, systemic inland flooding associated with rainfall tends to be more localized to inland areas of lower elevation, but happens with much greater frequency than coastal surges. The systemic inland flooding typically occurs when high volumes of water are brought into the combined storm-sewer system from rainfall events which coincide with an approaching high tide and/or storm surge. During a high tide or storm surge, the water level of the Hudson River can rise above the level of the combined storm-sewer outfalls; as a result, the river traps the water inside the combined storm-sewer system. Water then backs up within the system, flooding low-lying elevation inland areas with storm water and at times sanitary sewage.

1.2.1 Coastal Flooding

The coastal communities of Hudson County historically have been vulnerable to coastal flood events. This can be in the form of abnormally high tides that occur roughly twice a month (coinciding with full or new moons), or from storm surges brought on by coastal storms. According to FEMA's Preliminary Flood Insurance Study of Hudson County, New Jersey (FEMA, 2013), the most severe flooding for the coastal communities of Hudson County occurs from coastal storm surges during hurricanes. Coastal storm surge water is brought into the area from the Upper New York Bay, New York Bay and the Kill Van Kull, where it is then driven by winds upriver along the Hackensack, Passaic and Hudson Rivers, eventually overflowing onto the shoreline communities. The duration of coastal surges can be increased if the storm also brings about high amounts of rainfall. For example, in 2011, Hurricane Irene brought a five-foot storm surge to the Hudson River, flooding parts of Jersey City and Hoboken, along with 10 inches of rainfall. After the storm passed, flooding conditions remained because the vast amount of rainfall from the storm was draining through tributaries to the Hudson River, which was already swollen by the storm surge.

The coastal surge can be further exacerbated if it coincides with a high tide. For example, a strong storm surge on the Hackensack River on November 25, 1950 resulted in flood waters of 6.5 feet (nine feet above the low-tide level). If this coastal storm surge had occurred during high tide, flood levels would have reached 12 feet. A situation like this occurred during Superstorm Sandy; the storm surge coincided with a full moon, which caused an abnormally high tide. This factor significantly contributed to Superstorm Sandy's devastating flooding of the Study Area.

Superstorm Sandy exposed the vulnerabilities within the Study Area by flooding the coastal areas of Jersey City, Weehawken and Hoboken, as well as over two thirds of the City of Hoboken's low-lying elevation interior areas. Coastal storm surge waters flooded electric utility substations and transformers; power was not restored to many Jersey City and Hoboken residents for nearly two weeks. In addition, the storm surge flooded critical transportation infrastructure, including the Port Authority Trans Hudson (PATH) line at the Hoboken Terminal. Service on this line was not restored for several months, impacting 10,000-15,000 commuters on a daily basis

Studies conducted by the Stevens Institute of Technology Davidson Laboratory (Davidson Laboratory Technical Report TR-2933, October 2014) found that approximately 466 million gallons of water inundated the interior areas of Hoboken. The water entered at the lowest areas of elevation. Within the Study Area, there were two main entry points: the area around Long Slip Canal and Hoboken Terminal in the south of Hoboken, and Weehawken Cove in the north. In the south, the surface elevation ranges between two and five feet above sea level in and around Warrington Plaza and the Hoboken Terminal. Superstorm Sandy brought approximately 11 feet of coastal storm surge water into Warrington Plaza and Hoboken Terminal, resulting in flood waters of between six to nine feet above ground elevation In the area around Weehawken Cove, the elevations range between six and seven feet above sea level. When these elevations are compared to the storm surge levels caused by Superstorm Sandy, the degree of flooding becomes apparent.

The southern and northern low-lying elevation areas of the Study Area, along the Hudson River, acted as an inlet for flood waters into western Hoboken (see Figure 4). During Superstorm Sandy, according to the Stevens Study, approximately 232 million gallons of water entered at the southern breach point, to the south of the Hoboken Terminal. Approximately 78 million gallons of this water remained within the NJ TRANSIT rail yard, the balance of the water (154 million gallons) entered the western portion of the Study Area. Of the portion that entered from the south, 98 million gallons flowed across the rail yard before entering Hoboken along Observer Highway at Park and Willow Avenues, and 56 million gallons moved through Long Slip Canal towards Marin Boulevard. Some water passed from southwest Hoboken into Jersey City via Marin Boulevard, Grove Street and Jersey Avenue, which run beneath the Hudson Bergen Light Rail and NJ TRANSIT rail crossings. In addition, 191 million gallons of coastal storm surge water entered through northern Hoboken, in and around Weehawken Cove. This water flowed to the west into Weehawken, and then south, into the H7, H5, and ultimately H1 sewersheds, respectively (for reference of the combined sewer system, please see Figure 5).

The ground elevation in western Hoboken is low-lying; the H1 sewershed (the southwestern area of Hoboken; see Figure 5) in particular is on average about three feet above sea level. Floodwaters were funneled in from the north and south, inundating this portion of Hoboken, as well as the western areas of the H4, H5 and H7 sewersheds. Because the coastal storm surge prevented outflow from the combined storm-sewer system (the surge water elevation was above the outflow level), the surge waters had nowhere to flow and persistent inland flooding resulted. Ultimately, the outflows were underwater and the combined storm-sewer system was unable to discharge. In addition, because the storm surge prevented sewer outflow, domestic sanitary sewage backed up in residences and businesses, posing a public health risk. Overall, Superstorm Sandy caused approximately $100 million in damages to private property and $10 million in damages to City-owned property in Hoboken. Notably, Hoboken University Medical Center (the only hospital within the Study Area, located in south-central Hoboken) suffered significant flood damage; the hospital was forced to evacuate all patients the day prior to the storm, and was not able to fully reopen until November 14, over two weeks after the storm hit. In the interim, patients were redirected to other nearby hospitals - many of which were also damaged by Superstorm Sandy.

Sea-level rise and high tides also represent distinct coastal flooding concerns. The National Oceanic and Atmospheric Administration (NOAA) estimates sea levels may rise from between 0.5 to 3.5 feet by the year 2075.

Based on these projections of sea level rise, the associated base flood elevations along the Study Area's coastline will likewise increase, further compounding the risk of flooding. High tides will increasingly overtop the existing bulkheads, particularly during storm surges, thereby inundating the low-lying areas of the community with much greater frequency. Studies have shown that in the mid-1800s, there was a 1 percent annual chance of a bulkhead being overtopped by a storm surge within the New York Harbor area; today there is a 20 to 25 percent annual chance of bulkhead overtopping (Blumberg et al, 2015). Rising sea level also means that the North Hudson Sewerage Authority (NHSA) outfalls and other critical infrastructure will be closer to mean sea level, and will be inundated more frequently during high tides. As the vertical distance between the elevation of the water and the elevation of the outfalls decreases, less intense storm surge (which happen with greater frequency than stronger storms) will have the ability to inundate the outfalls, thereby reducing the ability of the system to properly drain storm waters. This means that over time, coastal flood events are expected to occur with greater frequency, which will increase the urgency for flood risk reduction measures.

1.2.2 Systemic Inland Flooding

The NHSA, which provides storm and sanitary sewer utility service to the Study Area, has a combined sewer system that was built in two periods, during the 1850s, and from the 1920s to the 1940s. The combined sewer system handles both sanitary sewerage and storm water runoff. Hoboken is divided into seven main drainage areas (H1-H7, see Figure 5). Sewerage is conveyed through the system by gravity from its source (e.g., a residence or business) through combined sewer mains beneath street beds to the system's main interceptor pipelines. During dry conditions, a system of pump stations located within the NHSA's service area pumps the sewerage to the NHSA's Adam's Street Wastewater Treatment Plant (WWTP). This WWTP serves Hoboken, Weehawken and Union City. During rainstorms, storm water (i.e., rainfall runoff) flows into the combined sewer mains via street and curb inlets, and combines with the sanitary sewerage. If the combined sewer-flow volume exceeds the treatment volume capacity (between 32 and 36 million gallons per day) of the WWTP, a portion of the combined sewer overflow volume is pumped into the Hudson River through the various outfalls located along Hoboken's waterfront.

Inland flooding occurs when the combined sewer system is unable to outflow excess water into the Hudson River. This typically occurs when high volumes of water are brought into the combined sewer system during a high tide and/or storm surge and the outfalls are closed and are unable to discharge. Rainfall events of greater than two inches, combined with a high tide of four feet or greater, occurred 26 times in Hoboken from 2002 to 2012. This is expected to increase in frequency over time based on projections of sea levels rising. As a result, high tides and storm surges are expected to block or obstruct the outfalls for increasingly longer periods of time.

Potential flooding can be further exacerbated if rainfall occurs during high tide and during the daytime hours, when sanitary flows are highest. During a high tide or storm surge, the water level of the Hudson River can rise above the level of the combined sewer outfalls; as a result, the river traps the water inside the combined sewer system. Raw sewage and storm water then backs up through curb inlets and domestic interior plumbing, and floods streets as well as basements of homes and businesses. After flood waters recede, sewage residue (as well as residues from

diesel, gasoline and other common roadside chemicals and contaminants) coats roadways, sidewalks, homes and businesses, representing a public health risk, and necessitating cleanup subsequent to the storms.

The most significant inland flooding typically occurs in the H1 sewershed (see Figure 5). A sewershed is a division of a drainage area that is managed by a stormwater utility. The H1 sewershed is located in the southwest area of Hoboken and is bounded generally by Observer Highway to the south, Clinton Street to the east, 7th Street to the north and the NJ TRANSIT Hudson-Bergen Light Rail to the west. This sewershed is extremely low-lying, generally less than three feet above sea level. The most frequent flooding in this sewershed occurs typically around Patterson Avenue and 1st Street (in the vicinity of the 2nd Street Light Rail Station) and Jackson Street and 4th Street. This part of the Study Area is also home to several of the Hoboken Housing Authority's communities, including the Andrew Jackson Gardens and the Monroe Gardens senior housing center, whose residents (i.e., low income and/or elderly) are particularly vulnerable to the impacts from flooding.

The NHSA installed a 50-million gallon-per-day (MGD) wet-weather pump for the H1 sewershed in 2012; however, analysis in 2013 by EmNet indicated that flooding still occurs in severe storms. The pump was activated 36 times between December 2012 and August 2013; of these activations, four storm events led to flooding. In addition to the H1 sewershed, the western areas of sewersheds H4 and H5 (just to the north of H1) also experience significant flooding, notably along 9th Street between Monroe Street and Madison Street.

The Study Area's flooding is greatly exacerbated by its high degree of impervious surface coverage: the Study Area is approximately 94 percent impervious, from building footprints or paved areas such as streets, sidewalks and parking lots. This is a product of the area's population density; with a population per square mile of 39,066, Hoboken is the nation's fourth densest municipality. The area's high impervious cover means that almost all the rainfall that reaches the ground is funneled rapidly into the combined sewer system through building downspouts and street-level storm drains, instead of being discharged onto permeable ground for gradual infiltration, as would be the case in areas with lower impervious coverage. This, coupled with the inability of the system to discharge during a high tide or storm surge, results in inundation of the combined sewer system during a rainfall event and backing up of the sewer system. Ultimately, this leads to the flooding events in low-lying areas, resulting in damage to buildings, residences, cars and infrastructure.

These various factors all contribute to the need to develop a comprehensive flood risk reduction strategy to safeguard against damage to people, property and infrastructure.

1.3 Project Authorization and Regulatory Framework

This Project is funded by HUD Community Development Block Grant - Disaster Relief (CDBG-DR) funds and compliance with a full range of federal, state and local environmental laws is required, as provided in FR notice 79 FR 62182, published October 16, 2014 [Docket No. FR-5696-N-11]. The Project's compliance with all applicable environmental laws and authorities as stated in HUD regulations (24 CFR 58.5 and 58.6), will be demonstrated.

In accordance with 24 CFR 58.1(b)(1), the State of New Jersey, acting through the New Jersey Department of Community Affairs (NJDCA), has assumed environmental compliance responsibilities for the Superstorm Sandy CDBG-DR programs on behalf of HUD. The NJDCA has designated the New Jersey Department of Environmental Protection (NJDEP) to assist with the environmental review. The NJDEP has prepared this DEIS in accordance with HUD's procedures for NEPA found at 24 CFR Part 58, et al. An NOI to prepare the EIS (as defined at 40 CFR 1508.22) was published on September 4, 2015. Simultaneously, the Draft Scoping Document was made available for a 30-day public comment period, and a public meeting was held to discuss scoping on September 24, 2015, followed by drop-in sessions open to the public on September 29 and October 1, 2015. The Final Scoping Document was published on the Project website (http://www.nj.gov/dep/floodhazard/rbd-hudsonriver.htm) in November 2015.

This DEIS is being made available to the general public for comment, as well as circulated to stakeholders, organizations and government agencies that have jurisdiction by law or special expertise with respect to the proposed action. Three agencies/organizations have been identified as being cooperating agencies: U.S. Environmental Protection Agency (EPA), NJ TRANSIT and the Port Authority of New York/New Jersey (PANYNJ). Additionally, three agencies/organizations have been identified as participating agencies: Federal Transit Agency (FTA), National Marine Fisheries Service (NMFS) and Amtrak.

A Notice of Availability of this DEIS has been published in the Federal Register and local media outlets in accordance with HUD and the Council on Environmental Quality (CEQ) regulations. After a 45-day public comment period has elapsed, public comments will be addressed in a Final EIS (FEIS) The FEIS will be circulated in the same manner as the DEIS (including the publication of a Notice of Availability) and will have a comment period of 30 days. If, after the completion of the FEIS comment period, no additional significant comments are received, the NJDEP will complete a Record of Decision (ROD). The ROD designates the selected action, and provides the basis for its selection. It identifies environmental impacts as well as any required mitigation measures that were developed during the EIS process.

1.4 Funding

The Disaster Relief Appropriations Act of 2013 (Public Law 113-2, approved January 29, 2013) was enacted to assist New Jersey's and other disaster-impacted states' recovery efforts for disasters that occurred between 2011 and 2013, including Superstorm Sandy. It appropriates monies targeted for disaster recovery to various federal agencies. Among those monies, the federal government appropriated $16 billion in CDBG-DR funds to be split among states that experienced natural disasters from 2011 to 2013, which the President declared to be Major Disasters. These CDBG-DR funds are administered by HUD and are to be used to address unmet disaster recovery needs, including funding needs not satisfied by other public or private funding sources like Federal Emergency Management Agency (FEMA) Individual Assistance, Small Business Administration Disaster Loans or private insurance. And, as a precondition to receiving CDBG-DR funds, New Jersey was required to submit a comprehensive Action Plan that detailed its unmet needs and described the proposed uses of CDBG-DR funds to address those needs.

The CDBG-DR Action Plan was developed by the NJDCA and approved on April 29, 2013. The Action Plan proposes a range of programs to provide relief following the extensive devastation caused by the storm to the affected residential/business communities and infrastructure. The Action Plan is updated periodically, and Amendment 12 "Substantial Amendment for the Third Allocation of CDBG-DR Funds" was approved on April 20, 2015. Amendment 12 was prepared pursuant to FR-5696-N-11, in order to access the third round of CDBG-DR funds allocated for the New Jersey RBD projects. Amendment 12 provides details on funding, timeline and citizen participation with regard to the Project. Another amendment to the Action Plan will be required to finalize the allocation of funding towards the Preferred Alternative that will be identified through this NEPA process.

In the Federal Register notice announcing award of this funding (79 Federal Register 62182), HUD provided the following direction, “CDBG-DR funds are provided to assist in the implementation of the first phase (“Phase 1”) of the proposal titled “Resist, Delay, Store, Discharge.” Page 14 of the April 2014 Resist, Delay, Store, Discharge final proposal states that Phase 1 includes: (1) a master plan for the entire strategy, (2) studies and pilot projects on various aspects of the overall strategy and (3) the following catalytic projects: coastal defense at Hoboken Station and surroundings, coastal defense at Weehawken Cove, pump station and greenbelt CSO wetland pilot project. Therefore, the current HUD funding will be provided for the implementation of Phase 1 elements only. This includes the environmental impact analysis of the overall comprehensive master plan of the entire project (including Resist and Delay, Store, Discharge), and the construction of the Resist components. The Delay, Store, Discharge (DSD) elements would be implemented separately by the City of Hoboken or other partners as funding becomes available.

2.0 PURPOSE AND NEED

The purpose and need statement for the Project was developed through a comprehensive process that began with the development of the original Rebuild by Design proposal submitted to HUD for funding, continued through the public scoping process and concept and alternative development for the EIS. Key stakeholders, including elected officials, agencies with regulatory authority, community leaders and the general public were involved at each stage.

2.1 Purpose

The Study Area, comprising the entire City of Hoboken, and adjacent areas of Weehawken and Jersey City (see Section 1.1), is vulnerable to flooding from both coastal storm surge and inland rainfall events. The purpose of the Project is to reduce the flood risk to flooding areas within the Study Area. The Project intends to minimize the impacts from surge and rainfall flood events on the community, including adverse impacts to public health, while providing benefits that will enhance the urban condition, recognizing the unique challenges that exist within a highly developed urban area.

2.2 Need

The historic flooding, and the high likelihood of future flood events from both rainfall and coastal surge flooding, has a tremendous impact on the lives of Study Area residents from a health and safety and economic perspective. When critical infrastructure, including fire stations, hospitals, and a waste water treatment plant (Figure 6) is impacted, it affects the welfare of the entire community. The economic livelihood of the community is diminished by the business disruptions caused by flooding and continual costs to repair and restore homes and businesses, with costs often exceeding the average National Flood Insurance claim award. The future potential for flooding is significant based on Hoboken's topography and the need for a project that minimizes flooding is critical to the health and safety and economic vitality of Hoboken and its affected neighbors in Weehawken and Jersey City.

The Study Area is a very dense urban area of Hudson County that is situated along the Hudson River directly west of Manhattan, New York. The Study Area is vulnerable to two interconnected types of flooding: coastal flooding from storm surge and high tide, as well as systemic inland (rainfall) flooding from medium (generally a 5-year, 24-hour) to high (generally over 10-year, 24 hour) rainfall events.

- Coastal flooding happens with much less frequency than rainfall flooding events, but can devastate widespread areas of the Study Area and cause significant economic damage and safety concerns.
- Rainfall-induced flooding occurs with significantly greater frequency than coastal flooding, but causes less severe economic damage and safety concerns.

The flooding problems for both coastal flooding and rainfall-induced flooding can be attributed to several factors, including naturally low topography and proximity to waterways; significant areas impervious ground coverage which

causes surface runoff; existing combined storm sewer infrastructure which cannot handle the volume of water during significant rainfall events and insufficient storm sewer discharge capability, particularly during high tide.

The topography of the Study Area is highest along the east-central portion abutting the coastline of the Hudson River at Castle Point. From here, the land slopes gently downward to the north (towards Weehawken Cove), south (towards the Hoboken Terminal and Jersey City) and to the west (towards the foot of the Palisades). This topography reflects the Study Area's history; when originally settled, Castle Point was an island surrounded to the north, south and west by wetlands. These wetlands were gradually filled in as the area was developed. Today, these areas – in particular those to the west – are still extremely low-lying, in some places no more than three feet above sea level.

The City of Hoboken's exposure to flood hazard risks is evident by the number of properties included in the FEMA National Flood Insurance Program (NFIP). The NFIP is intended to reduce the financial and recurring impact of flooding on private and public structures by providing affordable insurance to property owners and encouraging adoption of floodplain management regulations. Mortgage lenders for properties within the Special Flood Hazard Area (SFHA) (areas with a 1 percent annual chance of flooding, also referred to as the base floodplain or the 100-year floodplain) require owners to obtain flood insurance from the NFIP. In addition, property owners receiving awards following presidentially-declared disasters (such as Superstorm Sandy) are also often required to obtain NFIP insurance. According to NFIP statistics (https://www.fema.gov/policy-claim-statistics-flood-insurance), as of August 31, 2016, the City of Hoboken had 9,446 NFIP policies in place (the highest in Hudson County), with premiums totaling $7,213,754 (the highest in Hudson County and fifth highest in New Jersey). In addition, the overall liability to the NFIP from property owners in Hoboken was over $2 billion (third highest in New Jersey) with an average claim amount of $26,733.

The need for the Project that minimizes the impacts from coastal and rainfall flooding is necessary and essential to protect public health and safety, and the economic vitality of the community of Hoboken and its neighbors in Weehawken and Jersey City.

2.3 Goals and Objectives

A Project is intended to create a resilient community that is able to resist and rapidly recover from disasters or other shocks with minimal outside assistance. The Project is a comprehensive urban water strategy whose overall purpose is to reduce flood hazard risks, and which seeks to leverage resiliency investment to enhance the urban condition. The ability to meet this purpose will be measured in terms of Goals and Objectives. Goals (in italics below) are overarching principles that guide decision-making. Goals are measured in terms of Objectives, which are measurable steps to meet the Goal. The Goals and Objectives for the Project are:

- Goal: Contribute to Community Resiliency:
- Objective: The Project will seek to integrate flood hazard risk reduction strategies with emergency, civic, and cultural assets. The Project will reduce flood risks within the Study Area, leading to improved resiliency and the protection of accessibility and on-going operations of services (including protecting physical

infrastructure such as hospitals, fire stations and police department buildings as well as roadways and transit resources). This would allow these key assets to support emergency preparedness and community resiliency during and after flood events.

- Goal: Reduce Risks to Public Health:
- Objective: In addition to providing protection to critical healthcare infrastructure (such as local hospitals and emergency preparedness services), the Project will aim to reduce the adverse health impacts that result from combined sewage backups onto streets, and within businesses and residences, through a reduction in storm water infiltration into the existing combined sewer collection system.

- Goal: Contribute to On-going Community Efforts to Reduce FEMA Flood Insurance Rates:
- Objective: The City of Hoboken's exposure to flood risks has resulted in some of the highest insurance premiums in the state. The City has long had a goal of reducing those rates through a number of comprehensive flood risk reduction programs, such as those identified in the City's Green Infrastructure Plan. The NFIP's Community Rating System (CRS) allows municipalities to reduce their flood insurance rates through implementation of comprehensive floodplain management. The Project will propose concepts and alternatives that are consistent with Hoboken's overall effort of reducing FEMA Flood Insurance Rates.

- Goal: Delivery of Co-Benefits:
- Objective: Where possible, the Project will seek to integrate the flood hazard risk reduction strategy with civic, cultural and recreational values. The Project will look to incorporate active and passive recreational uses, multi-use facilities, and other design elements that integrate the Project into the fabric of the community. In this way, the Project will complement local strategies for future growth.

- Goal: Connectivity to the Waterfront:
- Objective: The Study Area's waterfront is currently the location of a vast length of interconnected parks and public walkways which contribute to the vibrancy of the community. The Project will aim to incorporate features that do not restrict access to the waterfront. Where feasible, the Project will build upon, and enhance, existing waterfront access points while providing flood risk reduction.

- Goal: Activation of Public Space:
- Objective: The Project will develop concepts that reduce risks to private and public property from flood impacts while also incorporating design elements that activate public and recreational spaces, thereby enhancing quality of life for the community.

- Goal: Consider Impacts from Climate Change:
- Objective: The Project will take into account the projected impacts from climate change, particularly as it relates to sea-level rise and its impacts on the frequency and degree of flooding.

3.0 BUILD ALTERNATIVES

NEPA documents must evaluate all reasonable alternatives (40 CFR 1502.14). The alternatives to be considered in any NEPA document are driven by the purpose and need for the action. The purpose and need for the Project is to reduce the potential for and magnitude of flooding impacts arising from both coastal storm surge and rainfall events (see Chapter 2.0 Purpose and Need). The success of constructing a reliable and permanent comprehensive flood risk reduction system relies upon designing Project approaches that consider existing infrastructure and environmental constraints, while also designing a flood risk reduction system in accordance with the regulatory standards (such as FEMA flood elevation standards, the NJDEP Flood Hazard Area Control Act, and local floodplain ordinances).

The following three Build Alternatives were developed through a year-long concept development process that considered engineering and environmental constraints while meeting the project's stated purpose and need. The project team met with stakeholders – public and private – as well as the community at-large to develop these project concepts. Concepts were eliminated from further consideration if they were determined to be infeasible, either due to engineering constraints or due to excessive time required to obtain permits. The concepts that were not eliminated were further refined into the following three Build Alternatives. The EIS will evaluate these as well as a No Action Alternative.

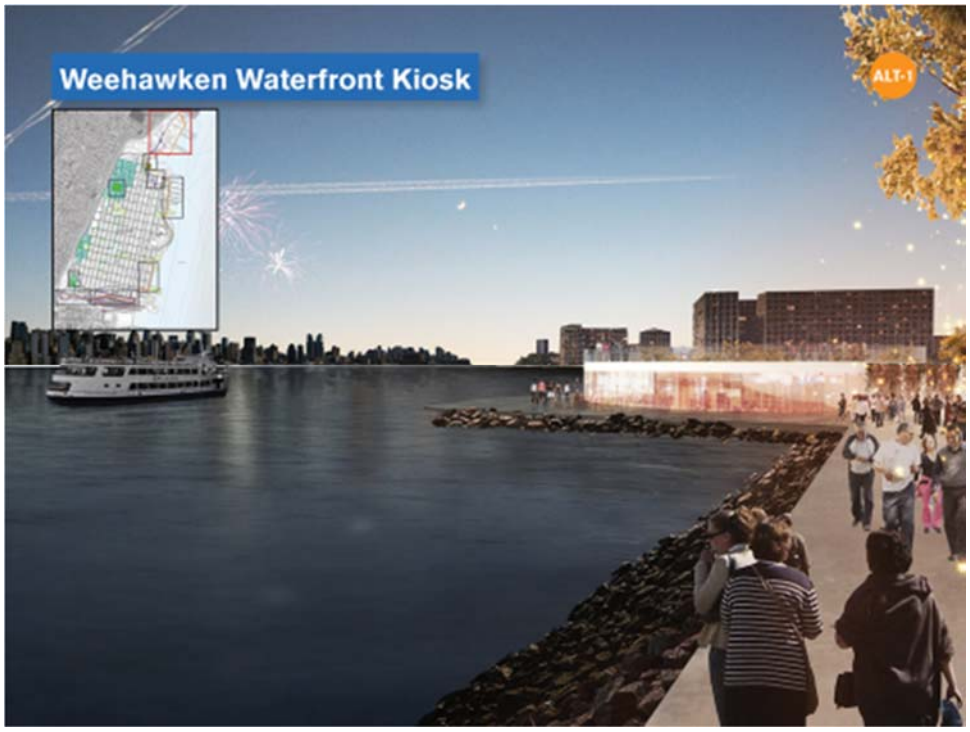
All resist structure heights described in this section are approximate. Structure heights will be finalized as part of the project's final design process.

3.1 Alternative 1

Resist Alignment

Alternative 1 (which was developed from the earlier Concept B and components of the southern alignment of Concept E) provides coastal flood risk reduction to approximately 98 percent of the population within the Study Area 100-year floodplain.

Alternative 1 provides the greatest level of flood risk reduction by locating the resist structures primarily along the waterfront. This alternative's resist structure generally follows the waterfront from the Lincoln Tunnel in Weehawken south to Weehawken Cove where it is envisioned that a boathouse will be incorporated into the structure. The resist structure at Lincoln Harbor ranges from 7.5 to 15.5 feet above ground level (note that all references to resist infrastructure height are in relation to height above ground level) and nine feet along the Cove. Urban placemaking amenities under consideration in this area include a new Lincoln Harbor ferry stop (see Photograph 1) and an improved park space along the north of Weehawken Cove (in the area of the existing park adjacent to Harbor Boulevard). In addition, a bermed and terraced Cove Park will be incorporated into the southwest corner of Weehawken Cove. This would include existing undeveloped land as well as the currently-developed Cove Park (adjacent to Harborside Lofts at 1500 Garden Street). Potential amenities at this park may include playgrounds, lawn areas, game courts, and a viewing deck overlooking Weehawken Cove (see Photograph 2).



Photograph 1: Lincoln Harbor Ferry Stop



Photograph 2: Cove Park

The alignment continues around the waterside of the Tea Building, at a height of between nine and 12.5 feet, and heads south in front of Maxwell Place at about nine feet in height. The resist structure continues south along the waterfront to the intersection of Sinatra Drive North and Frank Sinatra Drive, just south of Maxwell Place Park where the ground elevation begins to rise, and the wall tapers down to meet it at height of one foot. There will be a series of gates along the waterfront to allow access onto piers and across road intersections during non-flood conditions. Possible designs for the resist structure in this area include an elevated promenade north of the Tea Building, raised terraced parks adjacent to Shipyard Park, and bermed/terraced park areas at the location of the existing Maxwell Place Park (see Photograph 3).



Photograph 3: Maxwell Place Park

The resist structure also has a component along Sinatra Drive from 4th Street to 1st Street, in South Hoboken, where the design may consist of an elevated walkway and park space (between 2.5 feet and one foot in height along Sinatra Drive) that ties into a deployable system running east/west on 1st Street (up to 7.5 feet high). In the southern portion of the Study Area, two options will be analyzed: Option 1 features an alignment south of Observer Highway, within the rail yard (south of the proposed Hoboken Yard Redevelopment Area) at approximately five to 11 feet in height. Option 2 includes an alignment along Observer Highway from Washington Street to Marin Boulevard, on an alignment that runs behind NJ TRANSIT offices at a height of about 11 feet. The alignment includes gates for access at various locations including the Marin Boulevard, Grove Street and Newark Avenue underpasses beneath the rail lines, as well as protection where HBLR tracks pass below the NJ TRANSIT overpass in the southwest corner of the Study Area. Urban amenities in these areas include lighting, murals, seating, plantings and wayfinding/signage. Steel sheeting will also be installed along the NJ TRANSIT railroad embankment.

Delay, Store, Discharge

The DSD elements of the Project consist of three large stormwater detention facilities and approximately 61 small tanks (ROW sites) that will include new and/or improved stormwater management techniques designed to complement other efforts by the City of Hoboken as part of the Green Infrastructure Strategic Plan and multiple redevelopment plans (discussed further under Land Use). Details on individual sites and specific plans have been developed as part of the feasibility design. The text below describes the major components that comprise this element of the Project. The location of the proposed facilities are based on studies of the existing flooding "hotspots" in Hoboken. Additionally, two new outfalls are proposed associated with the DSD sites.

BASF Site

The northwest corner of Hoboken south from the NHSA Treatment Plan is a natural topographical low point and catchment area where collection and delay/storage of stormwater can be enhanced by the development of the Northwest Park (BASF Property). The 4.3-acre property was acquired by the City of Hoboken and includes the property at Block 107, Lot 1. The City has recently conducted an Environmental Assessment for the acquisition of this property. The site, which is currently paved and impermeable, is planned for conversion to green park space with an underground stormwater storage/holding tank. A new pump and outfall would be linked to this facility to provide a discharge from the overall catchment area. Amenities under consideration for this park follow three themes: destination, recreational and ecological. A destination park provides for trails and urban landscape features, a recreational park provides for developed recreational uses such as ball fields and skateboard areas and an ecological park provides an opportunity for the public to engage with native vegetation and wildlife.

NJ TRANSIT Site

The area surrounded by the Hoboken Housing Authority (HHA) at Jackson and Harrison Streets from 2nd Street to 6th Street also serves as a natural low-lying catchment area. A high level storm sewer collection system will be added in this 17-acre development to support the discharge component of the Site and direct the stormwater overflow towards the west. On the west side of this neighborhood, a stormwater tank will be incorporated along the light rail line to provide storage of the water drained from the HHA area. A pump station would be incorporated to discharge overflows from the stormwater tank into the existing ditch located at the west side of the NJ TRANSIT Light Rail. NJ TRANSIT ditch currently conveys runoff from the Light Rail property and the Palisades Hill slope to an existing discharge at the Hudson River. Urban amenities under consideration include active and passive recreational options, such as playgrounds, green space and planted areas.

Block 10 Site

The site is located in the southwestern corner of Hoboken adjacent to Academy Bus facility and south of Paterson Avenue. Portions of this currently-paved parcel will be converted to a permeable park space allowing water to infiltrate into the ground. A high level storm sewer collection system will be added to this 8.0 acre watershed, stormwater runoff will be conveyed to a proposed underground detention facility where peak flows will be controlled and delayed before discharging into the existing NHSA combined sewer. Urban amenities under consideration include active and passive recreational options such as playgrounds, green space and game courts. The City of

Hoboken intends to proceed with acquisition of this property after the Record of Decision (ROD) is issued for the Project.

Pump Stations

Three pump stations will be required as part of the discharge component. One pump station is proposed to discharge the overflow from the proposed NJ TRANSIT site detention facility, a force main from the pump station will cross under the HBLR and discharge to the existing ditch located at the west side of the HBLR tracks. A second pump station is required to discharge overflows from the BASF site detention tank. A 2,700 foot long force main will convey the runoff to a new discharge proposed at Weehawken Cove; and a third pump is proposed to the north of Clinton Street (north end of the existing NJ TRANSIT ditch) in the vicinity of the NHSA treatment plant. The purpose of the Clinton Street pump station is to release flows from the ditch to compensate the additional flow discharged from the NJ TRANSIT site, and to prevent surcharge of the existing ditch during backflow conditions. A 720-foot long force main will convey the runoff to a new discharge proposed at Weehawken Cove.

Two new outfall pipes in northern Weehawken Cove are proposed as the discharge component of the Project. One outfall would drain the flow of the existing ditch running along the western side of the HBLR line. This outfall is proposed to be located in the northern part of the Cove near Lincoln Harbor. The second outfall is proposed to be located north of Cove Park to drain the BASF site's catchment area via force main discharge.

Construction and Implementation

Construction for resist infrastructure of this alternative would last approximately 44 months and need to be completed by September 2022. The construction would occur concurrently for the northern and southern resist features. Equipment required for this project includes: dump trucks, back hoes, pile drivers, concrete trucks and other assorted delivery trucks. Some street closures will be required, in particular for gate construction. Pile driving will be required over a 10 month period. A total of 8-9,000 crew days will be required to complete this construction.

Recognizing funding limitations, the DSD portion under Alternative 1 is anticipated to be constructed over the next 15 to 20 years. DSD represent the framework for a future storm water strategy that will need to be implemented by the City of Hoboken and other partners, and can be integrated into the city's existing plans.

Due to the project being in the early stages of planning and design, there are many unknown variables. Modifications to design may arise from obtaining more accurate existing information or other unforeseen deviations from the feasibility study brought about by outside sources (such as more accurate information regarding location of utilities). As a result, the contingency is approximately 25% of the construction and engineering cost.

The construction and final design costs of Resist and DSD are estimated as follows.

Table 3-1 – Alternative 1 Construction Costs

	ESTIMATED COST (MILLIONS)
Estimated Resist Cost	$433.1 to $485.5 million
Estimated Resist Contingency Cost	$98.4 to $111.6 million
Estimated Total Resist Cost	$531.5 to $597.1 million
Estimated DSD Cost	$126.4 and $148 million

Source: Dewberry 2015-2017

These amounts are estimates of the cost to construct Resist and DSD, as well as estimated cost factors for construction and engineering project contingencies.

3.2 Alternative 2

Resist Alignment

Alternative 2 was developed from the earlier Concept E with two modifications. First, the northern Hoboken portion of the alignment along the Tea Building waterfront walkway was moved to 15th Street (south of the Tea Building) to maintain a distinction from Alternative 1. Second, because of the length and height of structure required along Hudson Street or Shipyard Lane, as well as the significant number of gates required for each, the alignment was moved to Washington Street. Washington Street was chosen due to the width of the street to accommodate the necessary structure and potential to blend structural amenities into the commercial nature of the area. This alternative provides coastal flood risk reduction to approximately 86 percent of the population residing within the Study Area 100-year floodplain.

This alternative's resist structure begins near the HBLR Lincoln Harbor station at Waterfront Terrace at an initial height of about 6.5 feet, traveling south towards Harbor Boulevard at a height of between9.5 to 11.5 feet. Opportunities for urban enhancement in the northern portion of the Study Area under Alternative 2 are limited due to siting conditions and include lighting, murals and seating. The resist features then run south along Weehawken Cove at nine feet where it is envisioned that a boathouse will be incorporated into the structure. In addition, a bermed and terraced Cove Park will be incorporated into the southwest corner of the Weehawken Cove. This would include existing undeveloped land as well as the currently-developed Cove Park (adjacent to Harborside Lofts at 1500 Garden Street). Potential amenities at this park may include playgrounds, lawn areas, game courts, and a viewing deck overlooking Weehawken Cove (see Photograph 2).

The structure continues to 15th Street, and travels east along 15th Street from the northern end of Garden to Washington Streets where it will be about seven to eight feet high. Urban amenities in this area may include a bermed park long 15th Street in front of the Tea Building. The resist feature then continues south along Washington Street, tapering to grade level at 13th Street. Street crossings will feature gates to allow for access during non-flood conditions. Consideration will be given to adapting the use of structures in a way to provide urban amenities and

landscape enhancements, including elevated walkways and pocket parks, plantings and/or seating areas along Washington Street (see Photograph 4).



Photograph 4: Washington Street from 15th Street, facing south

There will then be two options in the south, along the Hoboken Terminal rail yard: Option 1 will feature an alignment south of Observer Highway, within the rail yard (south of the proposed Hoboken Yard Redevelopment Area) at approximately five to 11 feet in height. Option 2 will include an alignment along Observer Highway from Washington Street directly to Marin Boulevard. The alignment includes gates for access at various locations including the Marin Boulevard, Grove Street and Newark Avenue underpasses beneath the rail lines, as well as protection where HBLR tracks pass below the NJ TRANSIT overpass in the southwest corner of the Study Area. Urban amenities in these areas include lighting, murals, seating, plantings and wayfinding/signage. Steel sheeting will also be installed along the NJ TRANSIT railroad embankment.

During a coastal storm surge event, water from the Hudson River is expected to inundate unprotected areas of the Hoboken waterfront. If the river water overtops the waterfront bulkhead during a storm event, water can enter into the storm sewer system through existing inlets and unsealed manhole covers. While Alternative 1 would prevent a storm surge from entering the city streets, Alternative 2 leaves portions of the city streets and sewer system unprotected. To prevent water intrusion into the existing sewers under Alternative 2, a separation of the sanitary/storm water collection system is proposed by the construction of a “High Level" storm sewer collection system. In addition to the installation of this new storm sewer system, the existing NHSA combined sewer inlets and manholes would be sealed and lined. This proposed drainage would be designed to prevent additional sewer

backflow that could cause major flooding issues within the Alternative 2 protected areas during a storm surge event. Storm water collected in this "High Level" storm sewer system would gravity flow into the Hudson River.

Delay, Store, Discharge

See above description under Alternative 1.

Construction and Implementation

Construction for resist infrastructure under this alternative would last approximately 44 months and need to be completed by September 2022. The construction would occur concurrently for the northern and southern resist features. Equipment required for this project includes: dump trucks, back hoes, pile drivers, concrete trucks and other assorted delivery trucks. Some street closures will be required, in particular for gate construction. Pile driving will be required over 12 months. A total of 6-7,000 crew days will be required to complete this construction.

Recognizing funding limitations, the DSD portion under Alternative 2 is anticipated to be constructed over the next 15 to 20 years. DSD represent the framework for a future storm water strategy that will need to be implemented by the City of Hoboken and other partners, and can be integrated into the city's existing plans.

Due to the project being in the early stages of planning and design, there are many unknown variables. Modifications to design may arise from obtaining more accurate existing information or other unforeseen deviations from the feasibility study brought about by outside sources (such as more accurate information regarding location of utilities). As a result, the contingency is approximately 25% of the construction and engineering cost.

The construction and final design costs of Resist and DSD are estimated as follows.

Table 3-2: Alternative 2 Construction Costs

	ESTIMATED COST (MILLIONS)
Estimated Resist Cost	$193.8 to $224.7 million
Estimated Resist Contingency Cost	$44.4 to $52.2 million
Estimated Total Resist Cost	$238.2 and $276.9 million
Estimated DSD Cost	$126.4 and $148 million

Source: Dewberry, 2015-2017

These amounts are estimates of the cost to construct Resist and DSD, as well as estimated cost factors for construction and engineering project contingencies.

3.3 Alternative 3

Resist Alignment

Alternative 3 was developed from the earlier Concept A, which was revised to relocate portions of the resist alignment to areas that would minimize impacts on the community. The alternative utilizes a private alleyway that parallels 14th Street to extend to Washington Street to meet the same flood resist goals. Washington Street was again chosen due to the width of the street to accommodate the necessary structure and potential to blend structural amenities into the commercial nature of the area. This alternative provides coastal flood risk reduction to approximately 85 percent of the population residing within the Study Area 100-year floodplain.

This alternative's resist structure begins at 6.5 feet in height near the HBLR Lincoln Harbor station at Waterfront Terrace, traveling south along HBLR rising to about 11 feet in height, and then continuing south along Weehawken Cove towards Garden Street at nine feet in height. Opportunities for urban enhancement in the northern portion of the Study Area under Alternative 3 are limited due to siting conditions and include lighting, murals and seating. It is envisioned that a boathouse will be incorporated into the structure. In addition, a bermed and terraced Cove Park will be incorporated into the southwest corner of the Weehawken Cove. This would include existing undeveloped land as well as the currently-developed Cove Park (adjacent to Harborside Lofts at 1500 Garden Street). Potential amenities at this park may include playgrounds, lawn areas, game courts, and a viewing deck overlooking Weehawken Cove (see Photograph 2).

A structure would then down the east side of Garden Street adjacent to the west of the Hudson Tea Parking Garage, starting at eight feet in height and tapering down to five feet in height. The structure along Garden Street may consist of an elevated planter with seating. The structure would then continue down the alleyway midway between 15th and 14th Streets from Garden to Washington Streets at four feet in height. Urban amenities within the alleyway could include planters (see Photograph 5). The structure would then travel south along Washington Street at 3.5 feet in height, tapering down to grade level at 13th Street. Street crossings will feature gates to allow for access during non-flood conditions. Consideration will be given to adapting the use of structures in a way to provide urban amenities such as seating and landscape enhancements.



Photograph 5: Resist Feature along the West Alleyway

There will then be two options: Option 1 will include an alignment south of Observer Highway, within the rail yard (south of the proposed Hoboken Yard Redevelopment Area) at approximately five to 11 feet in height. Option 2 will feature an alignment along Observer Highway from Washington Street directly to Marin Boulevard. The alignment includes gates for access at various locations including at the Marin Boulevard, Grove Street and Newark Avenue underpasses beneath the rail lines, as well as protection where HBLR tracks pass below the NJ TRANSIT overpass in the southwest corner of the Study Area. Urban amenities in these areas include lighting, murals, seating, plantings and wayfinding/signage. Steel sheeting will also be installed along the NJ TRANSIT railroad embankment.

During a coastal storm surge event, water from the Hudson River is expected to inundate unprotected areas of the Hoboken waterfront. If the river water overtops the waterfront bulkhead during a storm event, water can enter into the storm sewer system through existing inlets and unsealed manhole covers. While Alternative 1 would prevent a storm surge from entering the city streets, Alternative 3 leaves portions of the city streets and sewer system unprotected. To prevent water intrusion into the existing sewers under Alternative 3, a separation of the sanitary/storm water collection system is proposed by the construction of a “High Level" storm sewer collection system. In addition to the installation of this new storm sewer system, the existing NHSA combined sewer inlets and manholes would be sealed and lined. This proposed drainage would be designed to prevent additional sewer backflow that could cause major flooding issues within the Alternative 3 protected areas during a storm surge event. Storm water collected in this “High Level” storm sewer system would gravity flow into the Hudson River.

Delay, Store, Discharge

See above description under Alternative 1.

Construction and Implementation

Construction for resist infrastructure in Alternative 3 would last approximately 44 months and need to be completed by September 2022. The construction would occur concurrently for the northern and southern resist features. Equipment required for this project includes: dump trucks, back hoes, pile drivers, concrete trucks and other assorted delivery trucks. Some street closures will be required, in particular for gate construction. Pile driving will be required over nine months. A total of 6,000 crew days will be required to complete this construction.

Recognizing funding limitations, the DSD portion under Alternative 3 is anticipated to be constructed over the next 15 to 20 years. DSD represent the framework for a future storm water strategy that will need to be implemented by the City of Hoboken and other partners, and can be integrated into the city's existing plans.

Due to the project being in the early stages of planning and design, there are many unknown variables. Modifications to design may arise from obtaining more accurate existing information or other unforeseen deviations from the feasibility study brought about by outside sources (such as more accurate information regarding location of utilities). As a result, the contingency is approximately 25% of the construction and engineering cost.

The construction and final design costs of Resist and DSD are estimated as follows.

Table 3-3: Alternative 3 Construction Costs

	ESTIMATED COST (MILLIONS)
Estimated Resist Cost	$185.4 to $220.6 million
Estimated Resist Contingency Cost	$39.1 to $47.9 million
Estimated Total Resist Cost	$224.5 and $268.5 million
Estimated DSD Cost	$126.4 and $148 million

Source: Dewberry, 2015-2017

These amounts are estimates of the cost to construct Resist and DSD, as well as estimated cost factors for construction and engineering project contingencies.

3.4 No Action Alternative

The No Action Alternative provides a baseline condition that allows a comparison between proposed actions and the act of doing nothing. Under this alternative, no Resist structure would be constructed. While the City of Hoboken may continue with plans to develop the BASF and Block 10 sites, a comprehensive DSD system would not be built. The No Action Alternative also includes other ongoing or planned projects in the Study Area that are proposed to be completed by 2022. This included the following projects:

1. Long Slip Fill and Rail Enhancement Project (NJ TRANSIT)
2. Property Development between Long Slip Canal and 14th Street, Jersey City (Newport Associates)
3. H1 and H5 Wet Weather Pump Stations (NHSA)
4. Southwest Resiliency Park (City of Hoboken)
5. City Hall Green Infrastructure Improvements (City of Hoboken)
6. Washington Street Rain Gardens (City of Hoboken)

4.0 METHODOLOGY

The following sections discuss the methodology employed during this study.

4.1 General

This Hazardous Waste Screening TES was prepared by Dewberry on behalf of the NJDEP. As this Project is funded by HUD Community Development Block Grant - Disaster Relief funds, compliance with NEPA and related laws and authorities is required. In accordance with HUD policy, as described in 24 CFR 50.3(i) and 24 CFR 58.5(i) (2), an environmental review of properties was conducted, including evaluation of previous uses of sites and other evidence of contamination. The results of this TES will be incorporated into an EIS, to be prepared subsequently.

After an analysis of various environmental and engineering criteria, three alternatives were selected for study in the EIS process. The Hazardous Waste Screening TES described herein was conducted for properties within 100 feet of the limits of disturbance for each of the three proposed alternatives. The scope-of-work for this report included:

- Study corridor reconnaissance
- Historical records review
- Review of Federal and State records
- Inquiries with State and Federal agencies

The methodology associated with each of the specific items listed above is discussed in Sections 4.2 through 4.5. Section 5.0, Summary of Findings/Existing Conditions, presents the information obtained from the Study Area reconnaissance, historical records review, a review of federal and state records, and agency coordination. Resources that were reviewed, but which yielded no pertinent information, are not cited in this report. In Section 6.0, Discussion of Recognized Environmental Conditions (RECs), only those properties with a likely potential to impact the proposed alternatives are discussed.

The Study Area is defined as the entirety of the City of Hoboken, along with portions of northern Jersey City and southern Weehawken, as shown in Figure 2. However, an Analysis Area for the Hazardous Waste TES was defined as the area within 100 feet of the limits of disturbance of the alternatives to encompass all adjacent properties despite mapping discrepancies based on available data collected, and to identify potential contamination migration from off-site properties. See Figure 10.

4.2 Study Corridor Reconnaissance

A field reconnaissance of the Study Area was conducted to assess specific environmental criteria as they pertain to the proposed construction activities within the Rebuild By Design Study Area. The reconnaissance was conducted

on September 9, 2015 and June 26, 2016. An additional site visit was conducted on September 13, 2016 to confirm the presence and size of above-ground storage tanks (ASTs). Businesses within the Study Area were inspected from the street or curb to determine the nature of the operations and any impacts they may have on the proposed work. Additionally, select properties within the Study Area were inspected for ASTs, storage containers or drums of hazardous materials, stained pavement/soil, stressed vegetation, electrical transformers or hydraulic equipment that possibly contain polychlorinated biphenyls (PCBs), and surface indications of underground storage tanks (USTs).

4.3 Historical Records Review

To determine if any historic land uses in the Study Area were of a contamination concern, Sanborn Fire Insurance Maps from 1885, 1887, 1891, 1900, 1906, 1910, 1936, 1937, 1950, 1951, 1979, 1988 and 2006 were reviewed. Information obtained from a review of the Sanborn Fire Insurance Maps is provided in Section 5.2.1 of this report. Copies of the Sanborn Fire Insurance Maps and details of the review are included in Appendix A.

Additionally, historical aerial photographs from 1940, 1943, 1951, 1954, 1961, 1966, 1974, 1981, 1985, 1991, 1994-95, 2006, 2009, 2011, and 2013 were reviewed. Information obtained from a review of the historic aerial photography is provided in Section 5.2.2 of this report. The Environmental Data Resources, Inc. (EDR®) Aerial Photo Decade Package obtained from EDR®, of Shelton, Connecticut, which was used for the review, is provided in Appendix B.

4.4 Review of Federal and State Records

Information from federal and state environmental records, identifying sites with recorded environmental activities, was obtained from EDR®. The EDR® report dated July 9, 2015 was reviewed, the location of each site was verified within the Study Area, additional information regarding each site was gathered, and a summary of the findings was compiled. A copy of the EDR® DataMap™ Area Study report is included in digital format within Appendix C. A listing of the various federal and state electronic databases that were reviewed to identify known and potentially contaminated sites within the Study Area is also provided in Appendix C.

Searches of the NJDEP databases were also accessed through the NJDEP website (Data Miner). NJDEP Geographic Information System (GIS) data layers for Known Contaminated Sites (KCSs), Classification Exception Areas (CEAs), and Deed Notices (DNs) within the Study Area were evaluated. United States Environmental Protection Agency (USEPA) database searches were accessed through the USEPA website. All record searches were conducted to identify sites with recorded environmental activities within the Analysis Area, which includes the area within 100 feet of the limit of disturbance of the Build Alternatives.

Ultimately, the following databases were considered critical to identifying potentially contaminated sites.

- NJ Release
- NJ Spills
- NJ Voluntary Cleanup Plan (VCP)
- NJ State Hazardous Waste Sites (SHWS)
- NJ Brownfields
- NJ Engineering Controls
- NJ Institutional Controls
- NJ Historical Leaking Underground Storage Tanks (Hist LUST)
- NJ Historical Landfill
- NJ Leaking Underground Storage Tanks (LUST)
- NJ Historical Hazardous Waste Sites (Hist HWS)
- NJ Groundwater Contamination Areas
- Hazardous Materials Incident Report System (HMIRS)
- Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)
- Comprehensive Environmental Response, Compensation, and Liability Information System - No Further Remedial Action Planned (CERC-NFRAP)
- US Brownfield
- Emergency Response Notification System (ERNS)
- National Priority List (NPL)
- Delisted NPL
- NPL Liens
- US Engineering Controls
- US Institutional Controls
- US Brownfields
- Record of Decision (ROD)
- NJ Chrome

A summary of findings is provided in Section 5.3.

4.5 Agency Coordination

Federal and State regulatory agencies were contacted or visited concerning environmental incidents at businesses or other locations within the Study Area that may have an impact on the proposed work. In cases where remediation of a site is overseen by a Licensed Site Remediation Professional (LSRP), Dewberry made attempts to contact the LSRP of Record for site specific information, if warranted.

File reviews were conducted at NJDEP's offices in Trenton, NJ to obtain additional information on the nature of soil and groundwater contamination within the project Study Area. Any potentially contaminated sites identified through

database review, historic mapping and imagery, or NJDEP's Data Miner site that could not be eliminated as RECs based on the data reviewed were submitted for file review at NJDEP under an Open Public Records Act (OPRA) request. The file reviews were conducted for at least 175 potentially contaminated sites on multiple days between August, 2015 and June, 2016. These sites were all mapped within 100 feet of the limit of disturbance for Resist and/or Delay, Store, Discharge alignments and could potentially impact the RBD Hudson River Project. The 100-foot buffer was included to encompass all adjacent properties, despite mapping discrepancies based on available data collected, and to identify potential contamination migration from off-site properties. A summary of the findings from the file reviews is included in Section 5.4.

Dewberry contacted the Public Affairs Specialist from the EPA Region 2 Hudson River Field Office on January 12, 2016 to obtain information on contamination within the Hudson River. The EPA provided Dewberry with information regarding previous samples collected more than 20 years ago in the area of Jersey City. Correspondence is attached in Appendix D. This site is listed as REC-3 and is described in Section 6.0.

5.0 SUMMARY OF FINDINGS/ EXISTING CONDITIONS

5.1 Study Area Reconnaissance

A reconnaissance of the Study Area was conducted on September 9, 2015 and June 26, 2016 to obtain a better understanding of the potential hazardous waste concerns. The Study Area is in a heavily developed urban setting with land uses ranging from residential to industrial. During the site reconnaissance, the information presented in the EDR® report was evaluated and existing environmental conditions were assessed. Specific information related to sites is included in Section 6.0.

5.2 Historical Records Review

This section presents a summary of the historical records review. Section 5.2.1 presents information obtained from the historical Sanborn Fire Insurance Map review and Section 5.2.2 summarizes the findings of the aerial photograph review.

5.2.1 Sanborn Fire Insurance Map Review

Limited Sanborn Fire Insurance coverage was available for the Study Area for the years 1885, 1887, 1891, 1900, 1906, 1910, 1936, 1937, 1950, 1951, 1979, 1988 and 2006 for portions of Hoboken, Weehawken and Jersey City. Maps were reviewed for areas of the Study Area in which construction under one or more alternatives is proposed. A review of the available Sanborn Maps indicates that the southern portion of the Study Area has consisted of a large railroad terminal with transportation operations from the earliest map in 1885 until the present. From 1887 until at least 1988, the Hudson River waterfront consisted of ship yards and piers, with ferries and various other maritime operations that supported major industries. By 2006, most of the maritime operations were no longer present.

From 1887 to 1988, the first few blocks inland from the waterfront consisted of a variety of commercial and industrial operations that supported daily living and development (banking, hotel, lumber, coal, iron works, cattle, food, etc.). By 2006, most of the industrial operations were no longer present and those areas had been converted into residential or office buildings. North of the railroad and west of the near-waterfront, the inland areas were sparsely developed with primarily residential properties prior to 1937. After this time, some industrial/manufacturing properties were in operation, likely until the mid-1960s to early-1970s. However, most of the area has since become mainly residential and commercial with an occasional industrial/manufacturing property.

Due to the size of the Study Area, the Sanborn maps were reviewed in subsets, selected to cover all areas of proposed improvements. Appendix A contains a detailed summary of the observations made during the historical Sanborn Map review. A key map within Appendix A identifies the subset areas that were reviewed.

5.2.2 Aerial Photograph Review

Dewberry obtained historical aerial photographs of the project Study Area from EDR® for the following years: 1940, 1943, 1951, 1954, 1961, 1966, 1974, 1981, 1985, 1991, 1995-94, 2006, 2009, 2011, and 2013.

Due to the size of the Study Area, the photos were prepared in six different sections. Each year's description is discussed by year, index number, and area (Hoboken waterfront or inland). The results of the aerial photograph review were consistent with what was observed in the Sanborn maps.

Appendix B contains copies of the aerial photographs and detailed observations made during the review.

5.3 Regulatory File Review/Environmental Information Inventory

Based on a review of the EDR® Report, NJDEP's GIS data layers, NJDEP's Data Miner online database, and the USEPA website, there are dozens of KCSs, including parcels with soil and groundwater contamination, located within the Study Area. In addition, based on NJDEP mapping, nearly the entire Study Area is underlain by historic fill material, and based on NJDEP's Historic Fill Material Technical Guidance it can be assumed that this material contains contaminants typical of historic fill including elevated concentrations of polycyclic aromatic hydrocarbons (PAHs) and metals. Table 5-1 Summary of Regulatory Database Information in the Tables Section summarizes the information collected from the database reviews. Individual properties or environmental incidents may be listed on multiple databases.

5.3.1 National Priority List (Superfund) Sites

One site within the Study Area is listed on USEPA's NPL. The NPL is a subset of the Comprehensive Environmental Response, CERCLIS and identifies sites for priority cleanup under the Superfund program. This site is known as Hudson River PCB Superfund site. A 200-mile portion of the river was added to the USEPA NPL in 1983, requiring Superfund cleanup. According to the USEPA, General Electric Co. (GE) reportedly discharged 1,330,000 pounds of PCBs into this stretch of river. This site is discussed further in Section 5.4.1 and Section 6.0.

5.3.2 UST Sites and LUST Sites

A review of the NJDEP's Regulated UST Facilities database on April 20, 2016 revealed that registered USTs are or had been located on 132 sites within the Study Area. Most of the registered USTs have been removed from the sites. Only 50 of the properties have registered USTs that are currently in-use or have not been removed (see Table 5-2 in the Tables Section and Figure 11).

There are also 18 Leaking UST sites, according to a review of the NJ LUST database. Leaking USTs are discussed in more detail in the file review summaries contained in Section 6.0.

5.3.3 Known Contaminated Sites

A review of the SHWS list and NJ Historic Hazardous Waste Site (HWS) list revealed that there are 241 NJ SHWS and 101 Historic HWS sites within the Study Area. These databases include all KCS except for those associated with the Bureau of Underground Storage Sites (BUST). KCS are sites where contamination of soil and/or groundwater is confirmed at levels greater than the applicable cleanup criteria or standard. Remedial activities are underway or required at the sites with an on-site source(s) of contamination and at locations where the source(s) of contamination is unknown. Sites with completed remedial work that require engineering and/or institutional controls have reporting measures in place to ensure the effectiveness of past actions, and some include maintenance and/or monitoring.

5.3.4 NJ Release and NJ Spills

A review of the NJ Release database reveals that there are 948 NJ Release sites and 301 NJ Spill sites within the Study Area. NJ Release sites are those sites with a documented hazardous material release. NJ Spills sites include all sites with hazardous materials known or unknown spills to the ground as reported to the NJDEP's Environmental Action Line.

5.3.5 NJ Engineering Controls and NJ Institutional Controls

A review of the NJ Engineering Controls database and the NJ Institutional Controls database reveals that there are 21 sites with engineering controls and 19 sites with institutional controls in place within the Study Area. These are sites where engineering controls and/or institutional controls remain in place as part of a remedial action to address soil and/or groundwater contamination. An engineering control is a method built into the design to minimize a hazard, while an institutional control is a legal document that restricts the use of the contaminated property and holds the owner(s) to the regulatory/statutory requirements for cleanup. These restrictions ensure protection of human health and the environment as long as they are maintained.

NJDEP file reviews identified additional sites that have NJ Engineering Controls and NJ Institutional Controls within the Study Area. Sites of concern including those with engineering and institutional controls are discussed in Section 6.0. Sites with institutional controls are identified in Figures 12-15.

5.3.6 NJ Voluntary Cleanup Plan

A review of the NJ Voluntary Cleanup Plan (VCP) list reveals that there are 155 NJ VCP sites within the Study Area. Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.

5.3.7 NJ Brownfields

A review of the NJ Brownfields list reveals that there are 73 Brownfields sites within the Study Area. Brownfields are identified as former or current commercial or industrial use sites that are presently vacant or underutilized, on which there is suspected to have been a discharge of a contamination to the soil or groundwater at concentrations greater than applicable cleanup criteria or standard.

5.3.8 NJ Groundwater Contamination Areas

A review of the NJ Groundwater Contamination Areas list reveals that there is one NJ Groundwater Contamination Area within the Study Area. NJ Groundwater Contamination Areas are sites where groundwater contamination has been identified and, where appropriate, the NJDEP has established a CEA. CEAs are institutional controls in geographically defined areas within which the New Jersey Ground Water Quality Standards (GWQS) for specific contaminants have been exceeded. When a CEA is designated for an area, the constituent standards and designated aquifer uses are suspended for the term of the CEA.

Ferguson Propeller at 1132 Clinton Street is listed as having groundwater contamination of multiple constituents. A CEA has been in place since 1997 for acenaphthene, benzene, ethylbenzene, fluorene, phenanthrene, pyrene, toluene, trichloroethylene (TCE), and xylenes for a duration of 17 years. A CEA has been in place since 1997 for arsenic, cadmium, chromium, copper, lead, and mercury for a duration of 999 years.

NJDEP file reviews identified additional sites that have a CEA within the Analysis Area. Sites of concern, including those with CEAs, are discussed in Section 6.0. CEAs are also shown in Figures 8-11.

5.3.9 Potential Asbestos-Containing Material / Lead-Based Paint Sites

Demolition of existing structures is not anticipated to be required as part of the proposed construction activities associated with the Rebuild By Design project. Federal regulations were implemented in 1978 to restrict the use of lead in residential and commercial paints. USEPA promulgated the asbestos ban rule in 1989. If the design changes and existing structures are planned for demolition, based on the estimated age of a structure, there may be a likelihood of encountering asbestos-containing material (ACM) (i.e., piping insulation, roofing materials, wallboard, etc.) lead-based paint (LBP) and universal waste during demolition.

5.4 Agency Coordination

5.4.1 Federal Agencies

Dewberry corresponded with USEPA's Hudson River Field Office in January through March 2016 (see Appendix D) to obtain additional information on the PCB Superfund site located within the Hudson River. The USEPA provided information on the Hudson River PCB Superfund site, as well as Quanta Resources, which contaminated the river with coal tar creosote via their facility in Edgewater, NJ.

A summary of the information obtained from USEPA on Hudson River contamination is included within Section 6.0.

5.4.2 NJDEP Offices

OPRA file reviews were requested and conducted for at least 175 potentially contaminated properties on multiple days between August, 2015 and May, 2016 at NJDEP's offices in Trenton, NJ. Properties were selected for file review that could not be eliminated from concern based on reviews of desktop data sources including the EDR• database report and NJDEP Data Miner online database. Summaries of the file reviewed sites that were later determined to be of concern are included in Section 6.0.

6.0 DISCUSSION OF RECOGNIZED ENVIRONMENTAL CONDITIONS (RECs)

As part of the Hazardous Waste Screening TES, site reconnaissance was performed, historical records were reviewed, federal and state records were reviewed, and inquiries were made with state and federal agencies regarding properties, businesses and cases within the Study Area.

The Sanborn maps and aerial photographs indicate that the southern portion of the Study Area has consisted of large railroad terminal transportation operations from before 1885 until the present. The Hudson River waterfront consisted of ship yards, piers, ferries and various other maritime operations that supported major industries prior to 1988. By 2006, most industrial operations were no longer present and the majority of the Study Area had been converted into residential or commercial buildings.

As summarized in Section 5.0, database reviews indicate one NPL site; 18 Leaking UST sites; 241 NJ SHWS; 101 Historic HWS sites, 948 NJ Release sites; 301 NJ Spill sites; 21 sites with engineering controls; 19 sites with institutional controls; and 73 Brownfield sites within the Study Area.

In order to identify sites that could potentially impact proposed improvements, sites within the Analysis Area (i.e., properties within 100 feet of the limit of disturbance) were classified as RECs if there was documented and unresolved soil and/or groundwater contamination. A total of 50 RECs were identified, see Figure 12. Detailed summary descriptions of the environmental condition of each REC researched within the Analysis Area (based on information obtained during a review of available NJDEP case files) are included below. Table 6-1 in the Tables Section contains a summary of each of the properties within the Study Area that contain at least one REC.

REC-1 Historic Fill Material

When the Europeans first sailed up the Hudson River in the early 1600s, the land currently identified as Hoboken was an island. The current western portion of Hoboken was originally marshland. Hoboken Kill previously ran through this marshland and, during high tide, overflowed its banks inundating the adjacent swamps, rendering the land now known as Hoboken as an island.

The eastern, upland area of Hoboken was the first area of Hoboken to be developed, as a resort area known as Elysian Fields. As the population grew, the adjacent undeveloped tidal marches began to be filled for the development of buildings and infrastructure. As the city limits grew into the marshland throughout the 1800s and early 1900s, the western wetland edge slowly disappeared. During this time, the shoreline was modified, channels dredged and wetlands were filled to accommodate development. Dredge and fill activities associated with residential development was the biggest contributor to the wetland losses. Developed acreage for the City increased from 130 acres in the early 1800s to approximately 800 acres today. This increase in developed acreage was the result of the filling of the western marshland as well as building bulkheads along the Hudson River and filling the back land.

As shown in Figures 11-14, historic fill material has been mapped throughout the Study Area. This historic fill map was generated by the NJDEP Department of Land Use Management and the New Jersey Geologic Survey. Historic fill material is defined as a non-indigenous material placed on a site in order to raise the topographic elevation of the site. Although contamination cannot be confirmed without the collection and analysis of samples, historic fill material deposited in the Study Area and throughout Hudson County and the State of New Jersey has been found to contain contaminants in excess of corresponding NJDEP Soil Remediation Standards (SRS). The most common contaminants identified in historic fill material include semi-volatile organic compounds (SVOCs) and metals. Site investigation (SI) and remedial investigation (RI) activities performed throughout the Study Area have confirmed the presence of contaminated fill material throughout Study Area, including the low former marsh area and the bulk head area adjacent to the Hudson River. Due to the nearly ubiquitous nature of the contaminated historic fill material throughout the Study Area, historic fill material in itself has been identified as an REC and designated as REC-1. This REC is shown on Figures 11-14 and is summarized in Table 6-1.

REC-2 Historic and Current Railroad Land Use

As shown in Figures 8-11, both current (PATH, NJ TRANSIT Hudson-Bergen Light Rail and NJ TRANSIT Commuter Rail) and historic rail use has occurred at various locations though out the Study Area, predominantly along the waterfront and southern extent of Hoboken. Although information regarding the exact hazardous material and substance use at these locations was not always available during the subject assessment, typical hazardous materials used during historical rail usage includes degreasing solvents, petroleum based lubricants (some of which may contain PCBs) from engines and electrical equipment, and some heavy metals. Since most new train engines use diesel fuel, diesel range organics (DRO) may be a common contaminant of the surface and subsurface soils and shallow groundwater in engine fueling areas.

Track and switching areas may have DRO and oil-contaminated surface soils and rail ballast due to the constant use and repetitive minor leakage of engines and rail cars. The maintenance/material storage yard areas used a wide variety of solvents, paints, treated railroad ties and wastes. Historical leakage due to poor housekeeping and spills of oils, hazardous materials, paints, solvents, and creosote from railroad ties account for the majority of the contamination incurred. Due to the volume and concentration of the hazardous materials shipped via rail, special attention should be given to areas where historical (accidental) tank car releases of hazardous materials may have occurred. Additionally, due to the widespread nature of historic rail use within the Study Area, historic rail use in itself has been identified as a REC and designated as REC-2. This REC is shown on Figures 11-14 and is summarized in Table 6-1.

REC-3 Hudson River Sediments

Hudson River sediments in the vicinity of the Study Area have been contaminated by historic industrial use both adjacent to and upstream of Hoboken. The contaminated Hudson River sediments have been identified as REC-3. Two USEPA Superfund sites have been identified that have contributed to the impacted sediments that have the potential to impact the various design alternatives within the Study Area and are discussed below.

Hudson River PCBs, USEPA ID No. NYD980763841

The Hudson River is 315 miles long running from northeastern New York and draining into the Atlantic Ocean between New York City and Jersey City. Approximately 200 miles of the river is deemed polluted and part of the Hudson River PCB Superfund site. The 200-mile portion was added to the USEPA NPL in 1983, requiring Superfund cleanup. According to the USEPA Record of Decision (ROD), the Hudson River PCBs Site ("Site") (USEPA Identification No. NYD980763841) includes a nearly 200-mile stretch of the Hudson River in eastern New York State from the Village of Hudson Falls to the Battery in New York City. The New York State Department of Environmental Conservation (NYSDEC) divided the contaminated portion into the Upper Hudson River, which starts from Hudson Falls and ends at the Federal Dam at Troy, and the Lower Hudson River, which starts from the Federal Dam at Troy and ends at the Battery.

According to the ROD, during an approximate 30-year period ending in 1977, General Electric Company (GE) used PCBs in its capacitor manufacturing operations at its Hudson Falls and Fort Edward, New York Facilities and PCB oils were discharged both directly and indirectly into the Hudson River from these plants. The USEPA estimated that approximately 1,330,000 pounds of PCBs were discharged during this time frame. The release of PCBs into the river has caused the wildlife in the area to be affected. The ROD states that "data recently released by NYSDEC found elevated levels of PCBs in biota. As a result, NYSDEC placed a ban on fishing on the Upper Hudson in 1976 that was eventually changed to a catch-and-release program in 1995. The ROD also states that New York State Department of Health (NYSDOH) "continues to recommend that people eat none of the fish from the Upper Hudson River, that children under the age of 15 and women of child-bearing age eat none of the fish from the river for the entire 200-mile length of the Superfund site, and that the general population eat none of most species of fish caught between the Federal Dam at Troy and Catskill."

GE, under the supervision of the USEPA and NYSDEC, has dredged parts of the Upper Hudson River since 2012. No work or plans have been discussed or performed regarding the Lower Hudson River (in the vicinity of the Study Area). Dewberry contacted the USEPA Hudson River Field Office and requested information regarding the Lower Hudson area, specifically the areas nearby Hoboken. The data and information provided indicate that little to no information have been collected within the area of Hoboken or near this project. It could not be determined what PCB impact (if any) has occurred to the Hudson River sediments in the vicinity of the Study Area.

Quanta Resources, One River Road, Edgewater, USEPA ID No. NJD000606442

The Quanta Resources Corporation site is located in Edgewater, New Jersey. For close to 100 years starting in the late 1800s, coal tar, paving and roofing materials were made at the site by various entities. Quanta Resources operated an oil processing facility there from 1974 to 1981, when the NJDEP closed the site after discovering large quantities of PCB-laden oil in storage tanks. Groundwater and soils at the site are contaminated with arsenic, chromium, lead and harmful chemicals, all of which can pose significant threats to human health. A plume of coal tar creosote, a thick, oily liquid used in roofing and paving that has been classified as a probable carcinogen, exists

beneath the site and several adjacent properties, and extends into the Hudson River. USEPA's removal of some of the contamination has addressed immediate human health threats. Recreational activities in the Hudson River and eating fish from the river are not recommended.

From about 1876 to 1967, coal tar, paving and roofing materials were manufactured on site. Allied Chemical Corporation's Asphalt Division (now Honeywell) took over operations in 1930. In 1974, Allied Chemical sold the property to Mr. James Frola and Mr. Albert Von Dohln. In 1977, Mr. Frola and Mr. Von Dohln leased the property to E.R.P. Corporation for the storage and recycling of oil. Shortly thereafter, E.R.P. assigned its lease to Edgewater Terminals, Incorporated. Quanta Resources Corporation began operating at the property after a transfer of the lease from Edgewater Terminals. From 1974 to 1981, Quanta Resources operated a waste oil processing facility. The site had 61 ASTs with a total capacity of over nine million gallons, along with an unknown number of USTs and numerous underground pipes. These tanks were used to store oil, tar, asphalt, sludge, process water and other unknown liquids.

In July 1981, NJDEP forced the closing of the Quanta Resources facility when sampling found that storage tanks contained large quantities of oil with PCBs concentrations as high as 260 parts per million (ppm). After initial actions to protect human health and the environment, and additional SIs, USEPA placed the site on the Superfund program's NPL in September 2002.

In 1984, the State of New Jersey asked USEPA to help address the PCBs and other hazardous liquid wastes on the now-abandoned facility through its Emergency Response program. Between 1984 and 1988, USEPA directed and provided oversight of several cleanup actions by parties responsible for the contamination. About 1.35 million gallons of PCB-contaminated oil was removed for off-site treatment. Over 1.5 million gallons of coal tar were removed from storage tanks and recycled. Over 60 ASTs and 10 USTs, as well as numerous underground pipes, were removed. USEPA began its RI and feasibility study for the land portion of the site in June 2005. The presence of non-aqueous phase liquid (NAPL) coal tar, multiple historical industrial operations next to the site, and several other factors prompted USEPA to conduct a technical impracticability analysis as part of the evaluation of remedial measures to address contaminated groundwater. USEPA concluded that the site's characteristics make groundwater restoration technically impracticable.

As with the Hudson River PCB Superfund Site, the Quanta Resources site has the potential to impact the Hudson River sediments in the vicinity of the Study Area and has been identified as a contributor to REC-3.

REC-4 NJ TRANSIT Rail Yard, Block 139 Lots 1.01, 1.02, 2, and 3 (Hoboken), Block 6102 Lots 2 and 3 (Jersey City), Block 7302 Lot 1 (Jersey City) and Southeast Corner of Marin Boulevard and 18th Street, Block 7202, Lot 3; Approximate Address: 125 Eighteenth Street, Jersey City

This site is located between Observer Highway in Hoboken and 18th Street in Jersey City, east of Grove Street in Jersey City. The municipal boundary between Hoboken and Jersey City bisects the rail yard diagonally, essentially

in an east/west direction. Portions of the property (Block 7302, Lot 1 and Block 6102, Lots 2 and 3 in Jersey City) are currently owned by the New Jersey Department of Transportation (NJDOT), while the others (Block 139, Lots 1.01, 1.02, 2, and 3 located in Hoboken) are owned by NJ TRANSIT.

SI activities performed in the 1980s and 1990s identified site contaminants including volatile organics, pesticides, PCB (Aroclor-1260), SVOCs, and metals. Areas of concern (AOCs) included various 55-gallon drums storing hazardous materials, six ASTs, an old UST, electrical transformers, and a pit reportedly used for waste oil and sludge. A Preliminary Assessment (PA) performed in 1985 noted over 50 55-gallon drums on site, and indicated several spills had occurred. The NJDEP issued an Administrative Consent Order (ACO) to the Conrail Hoboken Facility citing the facility was contaminated with "large amounts of spilled and dumped diesel fuel, lube oils, solvents, and industrial cleaning agents, and other miscellaneous chemicals as a result of the intentional or unintentional actions or omissions of Conrail."

In 1994, a UST Closure Plan Implementation Summary and Site Investigation Report (SIR) was prepared that included an NJDEP approval form for the removal of a 5,000-gallon #2 fuel oil UST and appurtenant piping dated January 29, 1993. The UST was reportedly discovered during the installation of perimeter fence for the rail yard. The tank was removed in June 1993 and no evidence of a discharge was observed from the UST. Subsequent to the tank closure activities and SI report, NJDEP approved a No Further Action (NFA) proposal for the UST citing contaminant levels below regulatory standards and groundwater not being impacted.

The large contiguous portion of the rail yard, located north of 18th Street and Long Slip Canal is underlain by historic fill material which has been confirmed to contain contaminants including volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), base-neutral acid extractables (BNAs), PCBs, pesticides, and elevated concentrations of metals. Previous investigations identified the presence of PAHs and metals in groundwater, which are known to be a regional concern from the deposition of historic fill. Per correspondence with the current LSRPs of record for the site, the site is in the RI phase and confirmatory samples will be collected to establish current environmental conditions at the site. A Receptor Evaluation (RE) was prepared for the site in January 2014.

The site does not currently have any institutional or engineering controls in place; however, a chain-link fence surrounding the rail yard restricts access by the public. The LSRP indicated that the on-site contamination would potentially be addressed through a Deed Notice (DN) for soil and a CEA for groundwater. The DN and CEA would include reference to site contaminants associated with both the historic fill identified at the site as well as additional contaminants associated with historic rail usage.

The NJTRANSIT portion of the site located at the southeast Corner of Marin Boulevard and 18th Street represents a concern due to the former presence of petroleum storage and dispensing facilities. Block 7202, Lot 3 consists of a small piece of land located on the southeast corner of Luis Munoz Marin Boulevard and 18th Street in Jersey City within the parking lot area of Newport Plaza/Newport Center Mall. This parcel of land formerly contained a 300,000-gallon diesel AST that supplied fuel to the main Hoboken Rail Yard, a 1,500-gallon petroleum UST, a tanker truck off-loading/fueling station, and an electric distribution building. The 300,000-gallon diesel fuel AST was removed in

April 2006 during redevelopment excavation activities. Upon removal of the UST, visual inspection of the surrounding soil indicated a release of petroleum had occurred. The UST was located in an area of known diesel fuel groundwater contamination that was being investigated in the late 1990s, early 2000s and again in 2006. Interim remedial measures (IRM) were performed to recover petroleum product. An RI of the site is ongoing per correspondence with the LSRP for the site.

As previously discussed in Section 5.0 historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Typical site contaminants associated with historic rail usage at the site have been identified as REC-4A. The numerous historic discharges reported at the site and associated site contaminants addressed in NJDEP's ACO have been identified as REC-4B. The petroleum impacts to both soil and groundwater at the NJ TRANSIT portion of the site have been identified as REC-4C.

REC-5 Observer Highway Redevelopment - 50 Bloomfield Street and 51 Garden Street, Block 210.01, Lot 29, Hoboken

This property (Observer Highway Redevelopment) was previously an industrial site used for warehousing as early as 1906. Site reconnaissance has confirmed that the entire site has since been redeveloped as a high-rise apartment complex and garage. In 1989, remedial action including the removal of contaminated soil was completed and a letter of NFA was issued by the NJDEP in 1990. A cap was installed in 1990 as an integral structural element of the new apartment complex. A DN and the cap (including concrete spread footings and piers for the building) are in place to address petroleum hydrocarbon (PHC) and lead contamination remaining in the soil. No groundwater contamination was identified.

Although historic fill material has not been confirmed at the site, as discussed in Section 5.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). The petroleum and lead contamination confirmed at the site and addressed in the site's DN has been identified as REC-5.

REC-6 Former Maxwell House Coffee - 1101-1125 Hudson Street, Block 261.01, Lot 1, Block 261.02, Lot 1, Block 261.03, Lot 1, Block 261.04, Lot 1, Block 261.06, Lot 1, and Block 201.07, Lot 1, Hoboken

This property was formerly owned by Kraft General Foods and was operated as Maxwell House Coffee Company until 1992. Site reconnaissance confirmed that the property has been redeveloped into several multi-story residential buildings. The company formerly had nine USTs with a total storage capacity of 200,000 gallons. According to NJDEP file review documents, three tanks were indicated as abandoned, four tanks contained No. 2 fuel oil, and the remaining two tanks contained No. 6 fuel oil. According to NJDEP Data Miner, all the USTs were removed in late 1992.

Per correspondence with the LSRP, the site was divided into six blocks, Block A through Block F, for the purposes of remediation. Active remediation for Blocks A (Block 261.04, Lot 1), B (Block 261.03, Lot 1), and E (Block 261.06,

Lot 1 and Block 261.07, Lot 2) is completed, engineering controls have been installed, and NFAs have been issued. For Block C (Block 261.01, Lot 1), D (Block 261.02, Lot 1), and F (Block 261.02, Lot 1), active remediation work has been completed and engineering controls are installed; however, the administrative portion of the work including the reporting and issuance of a Response Action Outcome (RAO) has yet to be completed.

The LSRP reported that discharges to the property from former storage facilities for chlorinated organic solvents have occurred. Soil impacted by the discharges was excavated and disposed off-site, but residual contamination of groundwater exists. Ongoing monitored natural attenuation is occurring and downward trends in concentrations have been observed. The groundwater monitoring is expected to last for a least another year. The goal of the monitored natural attenuation is a site-wide CEA; however, the date of establishment for the institutional control is yet to be determined.

Although historic fill material has not been confirmed at the site, as discussed in Section 5.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). The remaining chlorinated organic impacted groundwater at the site has been identified as REC-6.

REC-7 Union Dry Dock and Repair Company - 901 Sinatra Drive, Block 259, Lot 1, Hoboken

This property was used as a repair yard for barges since the early 1900s. Site reconnaissance confirmed that the property is currently being used as a scrap yard; piers are still present. In 1993 during the removal of one 1,000-gallon unleaded gasoline UST and one 1,000-gallon diesel fuel UST, evidence of a release was noted. A 1994 UST Closure and Site Assessment Summary stated that one post-excavation soil sample exceeded the applicable NJDEP standards for total petroleum hydrocarbon (TPH); an NFA was requested. A 2009 PA and SIR/RAWP proposed a soil and groundwater investigation to delineate PAHs, trichloroethylene (TCE), metals and naphthalene. Correspondence with the LSRP of Record for the site indicated that the LUST was dealt with some years ago and he was not at liberty to discuss the details of the ongoing tasks.

Although historic fill material has not been confirmed at the site, as discussed in Section 5.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). The unknown status of the reported PAH, TCE, naphthalene and metals impacts to soil and groundwater at the site has been identified as REC-7.

REC-8 Anthony Dell Aquilla (a.k.a., BDLJ Associates, LLC; Hoboken Cove) - 1500 Hudson Street, Block 126, Lot 5; Block 255, Lot 4.03 and 7; Block 264, Lot 3.01; Block 268.01, Lots 1, 2, 3, and 4; Block 269.02, Lot 1; Block 269.03, Lot 1; and Block 269.04, Lot 1, Hoboken

The site formerly had a 12-story multi-tenant building with an attached one-story warehouse (1500 Hudson Street), a 10-story concrete building (1501 Bloomfield Street), and a one-story brick and stucco building (50-52 14th Street). Additional facilities included a small warehouse and rail car repair shop. Railroad spurs formerly occupied the property accessing the 12-story and 10-story buildings. A summary of the operational history indicated use of the

property as a shipyard in the late 1880s. The site was redeveloped between 1915 and 1919 and utilized by Standard Brands (a.k.a., Lipton Tea) for the production of food products consisting primarily of tea, coffee, and coconut oils until the 1970s. The "Tea Building" was formerly one contiguous U-shaped building. The property was acquired by Mr. Dell Aquilla in 1978 and renovated. Tenants' operations were primarily related to the garment industry. The Dell Aquilla property declared bankruptcy and was subsequently acquired and owned by BDLJ Associates from 1997 through 2004. The property is now owned and managed by Toll Brothers Inc. Site reconnaissance confirmed that the property is currently occupied by multi-story residential buildings and a parking garage.

A Phase I Environmental Site Assessment performed by others in August 1992 identified two 110,000-gallon No. 5 and No. 6 fuel oil ASTs on former Block 268, Lot 1, two 6,000-gallon USTs on former Block 268, Lot 2.1, and an AST on the property at 1501 Bloomfield Street. Soil sampling in 1987 identified petroleum contamination adjacent to the fuel oil USTs and contaminated historic fill. An RI was performed in 1995 to further delineate/characterize the historic fill at the site. A Phase II SI performed in 1996 indicated the AST was a 30,000-gallon No. 6 fuel oil tank with secondary containment. During the investigation, free product was identified in one of the monitoring wells (MWs) and an absorbent sock was installed. The reported two 6,000-gallon USTs could not be located during a 1996 geophysical survey. Soil and groundwater samples collected in 1987 and 1996 identified concentrations of TPH and PAHs exceeding NJDEP Residential Direct Contact Soil Cleanup Criteria (RDCSCC). Investigation of the former railroad spurs identified TPH and VOCs concentrations below regulatory standards, five PAHs/base neutral SVOCs were identified exceeding the RDCSCC but below the NJDEP Impact to Ground Water Soil Cleanup Criteria (IGWSCC). The report attributed the PAH concentrations to the presence of historic fill rather than the former railroad operations. Investigation of the historic fill material indicated TPH, SVOCs, trace VOCs and metals at concentrations above the RDCSCC.

Various Restricted Use NFAs have been issued for AOCs including the two 110,000-gallon USTs and historic fill. The site has been capped, a DN filed and redeveloped as a multi-story residential building called the Tea Building.

As previously discussed in Section6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Residual petroleum contamination associated with the former USTs at the site has been identified as REC-8.

REC-9 SGS US Testing - 1409-1427 Park Avenue, Block 126, Lots 3, 6.01, and 7.01, Hoboken

Site reconnaissance confirmed that this site is currently a mixed-use retail/residential building that was redeveloped in 2013. Prior to the construction of the current building, SGS US Testing Co., Inc. operated on the site from 1926 to 1995. The building was then converted into a parking garage in 1996 until the garage was demolished in 2013. A 10,000 gallon No. 4 heating oil UST was present, and was removed by SGS in 1995. An NFA was issued for the tank closure on February 8, 1996. According to a PA dated May 2012, 20 AOCs were discovered during the site reconnaissance.

Light non-aqueous phase liquid (LNAPL) consisting of weathered No. 4 heating oil was observed below the slab of the former building. It is believed that the free product was from the former 10,000 gallon heating oil tank that was removed in 1995. Soil sampling results indicated that select PAH compounds (benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and dibenz(a,h)anthracene), and select metals (aluminum, beryllium, lead, manganese, mercury, nickel, silver, and zinc) were detected above applicable NJDEP standards. Tetrachloroethene (PCE), TCE, PCBs, and dieldrin were also detected in some samples above applicable NJDEP standards. The PAH compounds and metals were attributed to historic fill, but further investigation regarding the PCE, TCE, PCBs, and dieldrin was warranted. The historic fill will be addressed through the remedial action at the site, which will consist of engineering and institutional controls (DN and CEA).

Groundwater sampling results did not contain any contaminants related to a petroleum release, but metals (iron, manganese, and sodium) were discovered above applicable NJDEP standards. The metals were attributed to the historic fill present in the region. However, previously installed temporary MWs indicated that chlorinated solvents above applicable NJDEP standards were identified in the groundwater samples. Although a CEA for benzene, ethylbenzene, xylene, methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA) from another property is mapped on the southwest corner of the subject property, groundwater samples did not contain any contaminants related to a potential off-site release.

According to a Remedial Investigation Report/Remedial Action Workplan (RIR/RAW) for soils only, the PCE, TCE, and dieldrin were delineated and found not to extend past the property boundary. Site-specific Impact to Ground Water Soil Remediation Standards (IGWSRS) were also calculated for the contaminants via Seasonal Soil Compartment Model (SESOIL) modeling, and was found that the contaminants would not impact groundwater. As a result, no further soil investigations or soil remediation was recommended. Remedial actions included the excavation and off-site disposal of soil and concrete at an approved disposal facility, the capping of the contaminants with an engineering control, and the implementation of a DN and RAP (RAP) for Soil. An amended DN was recorded on August 14, 2015. A RAO for soils only was issued by the LSRP on August 25, 2015.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Residual soil contaminants including TCE, PCE, PCBs and dieldren are also present in site soils and have been identified as REC-9.

REC-10 Hoboken/Weehawken Cove (a.k.a., Old Todd Shipyard, Former Todd Shipyard, and Former Rail Siding) - 1501 Park Avenue, Block 267, Lot 1, and Block 269.04, Lot 1, Hoboken

The site was used as a shipyard since the late 1880s with industrial activities including casting, forging, ship repairs, metal spraying, heavy fabrication, pressure tanks, and special process equipment. Site reconnaissance confirmed that currently the site is developed primarily as park land. A vacant lot containing groundwater monitoring wells is also located on the site, adjacent to Weehawken Cove. Three AOCs were identified during SI activities including USTs, ASTs, and historic fill material. Soil and groundwater contamination has been documented at the site including TPH/PAH, base neutrals (BNs), PCBs and metals in soil; and free product, lead, benzene, toluene,

ethylbenzene, and xylene (BTEX) and BNs/PAHs in groundwater. In 2005, a DN was proposed for soil and Monitored Natural Attenuation with a 15-year CEA for groundwater.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The reported free product, lead, BTEX and PAH contamination in groundwater has been identified as REC-10.

REC-11 R. Neumann and Company - 300 Observer Highway, Block 2, Lot 12, Hoboken

The R. Neumann and Company site consists of Block 2, Lots 12 through 26 and Block 2.1, Lots 1 through 9. The property is bound to the north by Newark Street, to the south by Observer Highway, to the east by Willow Avenue, and the west by the Observer Plaza residential apartment building. Site reconnaissance confirmed that the former industrial buildings are still present on site. Files reviewed at the NJDEP identified AOCs including four 2,000-gallon fuel oil USTs, ACM, waste-storage area, underground chemical storage tanks, boiler room drums, transformers, and floor drains in four different buildings. Documentation of subsurface investigation activities to delineate free petroleum product was dated June 1991 and a Communications Center Notification Report was dated November 1991. Two discharges were reported for the property, one was the result of damaged piping and the other was the result of a tank overfill.

Per correspondence with the LSRP of Record for the site, engineering and institutional controls will be established to address contaminated historic fill material. The LSRP stated there is one AOC involving diesel fuel that is causing contamination in one of the groundwater MWs at the site and that the groundwater has not been otherwise impacted by the site operations. Remedial action for the soil impacted by diesel fuel will include excavation and disposal which could also potentially complete the groundwater remedy so that the case can be closed without the need to establish engineering or institutional controls. If a CEA is needed for groundwater impacted by the diesel fuel, it will be of finite duration. No off-site groundwater contamination is currently suspected or confirmed.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The reported petroleum contamination in groundwater has been identified as REC-11.

REC-12 Millennium Towers (a.k.a., Former Lifschultz Fast Freight Property) - 677 Grove Street and 850 Jersey Avenue, Block 261, Lot B2; Block 294, Lot A2; and Block 294.5, Lot D1, Jersey City

The site, Millennium Towers (a.k.a., Former Lifschultz Fast Freight Property) is located at 677 Grove Street, 850 Jersey Avenue, Jersey City. Site reconnaissance confirmed that the site currently consists of vacant, undeveloped, vegetated land of approximately three acres located between Jersey Avenue and Grove Street from 18th Street to the Hudson-Bergen Light Rail railroad tracks. A PA/SI/RAWR report prepared by Dresdner Robin dated November 2006, identified eight AOCs at the site including former 19th Street and Erie Street crossing the site; potential for unidentified USTs; historic fill material; potential impacts from off-site adjacent facilities including a gas station and

18th Street sewer; piles of "domestic and construction debris" throughout the site; previous site usage as a railroad, slaughter house, lumber yard, poultry shed, truck repair garage, and truck trailer parking area; former storm-sewer basin; and reported and observed surface staining. SI activities were recommended for all AOCs with the exception of the debris piles. Dewberry contacted the LSRP for additional information; the LSRP's response did not include any additional information beyond that obtained during the file review.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Other potential site contaminants from past site usage (volatiles, semivolatiles, metals, PCBs) have been identified as REC-12.

REC-13 Former Cocheo Brothers Inc. - 1801 – 1831 Willow Ave, Block 11, Lot 5 and Block 12, Lots 1, 7, and 8, Weehawken

This site, known as the Former Cocheo Brothers Incorporated facility, is located on the north side (Block 12, Lots 1, 7, and 8, ½ of the block of land) and south side (Block 11, Lot 5, between 18th Street and the HB Light Rail railroad tracks) of 18th Street between Willow Avenue and Park Avenue. Site reconnaissance confirmed that Block 11, Lot 5 is developed as a multi-story residential building. Block 12, Lots 1, 7 and 8 are occupied by the former industrial building.

A Remedial Action Workplan (RAW) dated February 7, 1997 indicated that a 2,000-gallon No. 2 fuel oil UST was located beneath the concrete sidewalk on the north side of 18th Street, installed sometime in the 1950s. Soil borings were installed and sampled. Laboratory analysis identified TPH concentrations exceeding the NJDEP SCC in one sample on the eastern side of the UST. A groundwater investigation identified VO and BN concentrations below the GWQS. Due to the close proximity of the UST to the building and a municipal water line, a tank excavation was not feasible and therefore the tank was abandoned in place on October 25, 1996. A proposal for excavation, handling, and collection of post excavation soil samples for the TPH "hot spot" was reviewed noting that the excavation could possibly be constrained by the nearby building and the underground municipal water line. A Certificate for Abandonment-In-Place was dated March 4, 1997.

An Entire Site Limited Restricted Use NFA was issued to Mica Furniture Manufacturing (a later tenant - Block 12, Lot 1) dated August 19, 1998. The Limited Restricted Use NFA included a CEA to cover volatile organic tentatively identified compounds (TICs) with a duration of five years. A notice was included in the NFA letter indicating that MTBE contamination was detected above the GWQS at the site and was attributed to an off-site source.

In 2009, two rounds of groundwater sampling were performed to determine whether the CEA could be removed. A letter from NJDEP to the property owner indicated that impacts to groundwater from benzene and TBA, attributed to an off-site source, were detected in the October 2009 groundwater sampling event. As a result, NJDEP did not approve the removal of the CEA and required Cocheo Brothers Inc. to perform a RI of the contamination as well as conduct a PA/SI to determine the source of the contaminants.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Potential petroleum contamination from the former 2,000-gallon fuel oil UST abandoned at the site has been identified as REC-13A. Benzene, MTBE and TBA impacts to groundwater have been identified as REC-13B.

REC-14 Hoboken Department of Public Works (DPW) – 256 Observer Highway Block 1, Lot 1, Hoboken

The Hoboken Municipal Garage is located on a portion of the block of land from Observer Highway north to Newark Street between Willow Avenue and Park Avenue. Site reconnaissance confirmed that the DPW is still operating at the property. In April 2009, a PA/SI/RI/RAWP was prepared by CMX Engineering for the Hoboken DPW. The PA/SI/RI/RAWP identified 11 AOCs at the site including former ASTs and USTs, hazardous waste storage and handling, hydraulic lifts, historic fill and potential regional groundwater contamination from industrial properties. The Hoboken DPW site currently has a Remedial Action Permit for Soil and DN with engineering controls for Block 1, Lot 1. The DN, recorded April 5, 2011, includes benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluroanthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, carbazole, arsenic, chromium (total), and lead. A CEA was established for the site due to groundwater contamination with concentrations of lead and benzo (a) anthracene exceeding the GWQS for a term of 999 years.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Additional impacts to soil and groundwater at the site from historic commercial/industrial operations at the site and surrounding area have been identified as REC-14.

REC-15 International Bus Service, Inc. (a.k.a., Trailways, Inc., Grayline) – 1501-1507 Clinton Street and 1502-1530 Willow Avenue, Block 133, Lots 1 – 5 and 7 – 17, Hoboken, and Burlington Coat Factory (a.k.a., Park Willow LLC; Toni Linda Ltd.) – 1500 Clinton Street, Block 131, Lot 1, Hoboken

The Program Interest (PI) number for this site contained two distinct facility names on two separate but adjacent blocks. The facilities and their existing conditions are discussed separately as follows:

<u>International Bus Service, Inc. (a.k.a., Trailways, Inc.; Grayline; Coach USA Bus Terminal)</u>

The site is located in northern Hoboken on the block encompassed by 15th and 16th Streets between Grand and Clinton Streets. Site reconnaissance confirmed that the southern half of the block is used as an industrial garage, while the northern half is a paved parking lot. The June 2016 field reconnaissance noted that there is on-going remediation at the site and a frak tank for contaminated groundwater is on site. A review of the RIR provided an extensive summary of previous historical site and RIs and remedial activities beginning in 1986 and 1987 and proceeding through 2013.

Remedial action activities conducted at the site included the establishment of a CEA which was approved by the NJDEP on April 3, 2006 for “light non-aqueous phase liquid (LNAPL), benzene, benzo(a)anthracene,

benzo(a)pyrene, benzo(a)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, individual and total BN TICs, and lead for an indeterminate duration." "The CEA covers the extent of the entire site and extends slightly off-site to the west and east." The RIR also outlined previous remedial actions taken for each specific AOC identified and recommended further tasks including evaluation of the effectiveness of the remedial actions to date, preparation of an amended RAW to include a DN with engineering controls, preparation of an RAR with RAP for soil/groundwater, and appropriate monitoring plan for LNAPL and other contaminants of concern.

Burlington Coat Factory (a.k.a., Park Willow LLC; Toni Linda Ltd.)

The site is located on the block encompassed by Clinton Street (to the west) and Willow Avenue (to the east) between 15th and 16th Streets. Site reconnaissance confirmed that the site is developed with a two-story industrial building. According to a PA/SI/RAW dated April 2007, 13 AOCs were identified on the property (Block 133, Lot 1 through 5 and 7 through 17). According to the case inventory document (CID), the status of the AOC associated with historic fill (AOC-1) at the site is currently unknown. A DN with engineering controls and CEA were recommended for metals and PAHs, but the file review did not indicate that such institutional controls were established. AOC-2 includes a 4,000-gallon heating oil UST that was removed in September 2013. Post-excavation soil samples indicated no residual impacts or concentrations of petroleum compounds above the applicable soil remediation standards. An Unrestricted Use AOC-Specific RAO for AOC-2 was issued on May 19, 2015. Nine of the AOCs (AOCs 3 through 11) identified were investigated during the SI stage and no impacts were identified; therefore, no further investigation was recommended. The NJDEP approved this recommendation in the SIR on December 20, 2010.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The LNAPL identified beneath the site has been identified as REC-15A. Potential impacts from the 10,000-gallon UST identified at the site (unknown contents) has been identified as REC-15B.

REC-16 Hoboken Service Center Inc./Amoco Station - 425 Newark Street, Block 2, Lot 1, Hoboken

This property was formerly operated as an Amoco Station. Site reconnaissance confirmed that the site is still operated as a gasoline service station. According to a SIR dated October 2000, the site contained five USTs that were decommissioned and removed on April 12, 2000. Three of the tanks were of 5,000-gallon capacity and contained unleaded gasoline, one tank was a 4,000-gallon capacity UST that contained diesel fuel, and the third tank was a 550-gallon capacity UST that contained waste oil. During removal staining was observed around the tanks, and the NJDEP hotline was contacted. Case No. 00-05-02-1001-52 was assigned to the site.

Approximately 700 tons of impacted soil was removed from the UST area. A total of 17 soil samples and one groundwater sample were collected. Results of the six soil samples collected from the former diesel fuel area reported concentrations of TPHC in all samples, but none exceeded the 1,000 ppm Impact to Groundwater SCC. Of the 11 samples collected from the area of the former unleaded gasoline USTs and the waste oil UST, results for

one sample reported concentrations of MTBE, total xylenes, acrylonitrile, and 1,1,2-trichloroethane above the applicable “most stringent cleanup criteria”. Results of the single waste oil soil sample showed TPHC concentrations above the applicable “most stringent cleanup criteria”. Results of the groundwater sample reported concentrations of MTBE, TBA, benzene, and tetrachloroethene above the applicable Groundwater Quality Standards. Based on the detected contaminants and their concentrations, PetroScience recommended further investigation at the site.

The NJDEP Data Miner web application reported multiple LSRP retention and dismissal activities. The most recent retention was dated July 31, 2014, and the most recent dismissal was dated February 24, 2015. No other reports were observed during the file review.

Although historic fill material has not been confirmed at the site, as discussed in Section 5.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). The reported VOC (including chlorinated organics) and SVOC contamination in both soil and groundwater has been identified as REC-16.

REC-17 Former Service Station - 150 14th Street, Block 255, Lot 2, Hoboken

Site reconnaissance confirmed that this site is currently developed with a five-story mixed use building. A restaurant is located on the first floor and the remaining upper four floors is utilized for residential use. The site was previously operated as a retail petroleum service station. Impacts to site soils and groundwater were identified following the 1992 removal of four USTs from the site including one 1,000-gallon diesel fuel UST and three 1,000-gallon gasoline USTs. SI and remediation activities included the installation of soil test pits and borings, removal of petroleum contaminated soil, and installation and sampling of both temporary and permanent groundwater MWs. Decreasing volatile organic contaminant concentrations were reported in groundwater and a CEA was placed on the site in 2013. The proposed duration of the CEA was 8.18 years for both benzene and TICs. All site MWs exhibited a decreasing trend in contaminants with the exception of MW3R which was the only well that had a contaminant (benzene) detected in excess of GWQS by more than an order of magnitude. As such, additional RI activities (including the installation and sampling of additional soil borings) surrounding MW3R was performed. The results of these activities indicated additional impacted soil from the UST removals was still present surrounding MW3R and is acting as a continued source of contamination to the groundwater in the vicinity.

In order to assist in the remediation of the remaining impacted soil and aid in the natural attenuation of the benzene concentrations in MW3R, a NJDEP Permit-by-Rule was approved on July 16, 2014. This permit approval allowed for the installation of six injection points surrounding MW3R in which RegenOx and ORC Advanced would be injected to assist in the biodegradation of the remaining benzene contamination. The permit approval included periodic groundwater sampling following injection. Additional data regarding the injection of these compounds and the required follow-up groundwater monitoring was not included in the NJDEP case file reviewed. As such, the CEA placed on the site and the residual benzene impacts to both soil and groundwater remain a REC to this site.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The petroleum-related contamination in the soil and groundwater identified at the site has been identified as REC-17.

REC-18 Henkel Corp. (a.k.a., BASF/Cognis Corporation) - 12th Street, Block 210.01, Lot 29, Hoboken

The site was operated by the Cognis Corporation (Cognis), formerly known as Henkel Corporation (Henkel) who manufactured materials for the automobile industry. The property was recently acquired by the City of Hoboken for development as a park. Site reconnaissance confirmed that the site is currently vacant, paved lots. A PA for Cognis, dated September 2001 identified six spill listings reported at the site. Three of the listings, involving No. 4 heating oil, diesel fuel, and hydrochloric acid, had NJDEP Case Numbers assigned and were reportedly contained and cleaned up. The remaining three listings involved hydrochloric acid, hydraulic oil, and methanol. NJDEP Case Numbers were assigned and were reportedly contained; however, cleanup was not mentioned.

Four USTs were previously registered and located at the 12th Street property. Two USTs reportedly contained gasoline measuring 1,000 and 2,000 gallons; one contained diesel fuel measuring 3,000 gallons; and one contained wastewater measuring 1,000 gallons. As a result of the PA performed on the Cognis property, further investigation was required. The SI was performed to satisfy NJDEP Industrial Site Recovery Act (ISRA) requirements as a result of a real estate transaction between the previous owner, Henkel, and Cognis. Phase I and Phase II field investigations were conducted between January through April 2002, and March through June 2003, respectively. Phase III investigation activities were performed from November 3 through 12, 2003.

The conclusions and recommendations of the Phase III report stated that no additional delineation of VOC was performed during Phase III of the investigation. The bis (2-chloroethyl) ether contamination was reportedly not attributable to historic fill and the origin is unknown. Delineation of the dioxins and furans, attributed to the presence of fired coal within the historic fill material, was considered complete. The contamination was considered to be confined above a thick layer of organic rich peat and underlying “laterally extensive, thick, silty clay.”

A Vapor Intrusion (VI) Investigation was performed and the results presented to the NJDEP in December 2011. The assessment included a physical investigation of a daycare center approximately 125 feet north of the Cognis property, as well as other potential receptors within a 100-foot radius of locations where concentrations of VOC are known to exist above the (VI) Groundwater Screening Levels. The VI Investigation Report identified no VI pathway to the neighboring receptors.

An Environmental Assessment for the property, prepared for the City of Hoboken in 2016, noted that BASF completed Remedial Action of PCB-impacted soil between December 2015 and February 2016. A 6-inch asphalt cap was installed as part of the engineering controls specified in an approved Remedial Action Workplan to address historic fill-related contaminants remaining in soils at the site. A Deed Notice was filed by BASF on August 29, 2016. Groundwater investigations between 2002 and 2016 identified VOCs, metals, SVOCs, PCBs and surfactants above the NJDEP GWQS.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Remaining groundwater contamination has been identified as REC-18.

REC-19 Poggi Press - 1501-1531 Adams Street, Block 130, Lots 1 and 17, Hoboken

Site reconnaissance confirmed that the site is currently used for bus parking. This site is identified as having two historic discharges. The first occurred on June 17, 2005 and was assigned NJDEP Case No. 05-06-17-1236-31. The spill was the result of a UST discharge that was later closed by a LSRP on December 6, 2013.

The second discharge was also the result of a UST discharge (a 4,000-gallon gasoline UST). Although documentation regarding the closure of this spill was not included in NJDEP files, it was reported that that cleanup was pending and being performed under the oversight of a LSRP.

Although historic fill material has not been confirmed at the site, as discussed in Section 5.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). The unknown status of the remediation of the 4,000-gallon gasoline UST discharge and potential (remaining) impacts to both soil and groundwater has been identified as REC-19.

REC-20 American Eagle Magnesium & Aluminum Corp - 1316 Adams Street, Block 113, Lots 7-10 and 23-26, Hoboken

This site is located at Block 113, Lots 7-10 and 23-26. It has been owned and operated by American Magnesium from 1937-2012 and by MRC Properties from 2012 to the present. Site reconnaissance confirmed that the property is developed as a cinema.

Investigation of the site was triggered via ISRA due to the cessation of operations in 2012. An LSRP was retained and a PA, SI, and RE performed in October 2012, and a RI was reportedly “In Process”. Numerous AOCs were identified, two of which required additional investigation and remediation including petroleum contamination beneath a former 550-gallon AST (requiring remediation) and the presence of historic fill material beneath the entire site. The placement of a site-wide DN was recommended to address the historic fill material identified at the site and nearly ubiquitous in the surrounding area.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The unknown status of the remediation of the petroleum contamination identified beneath the former 550-gallon AST has been identified as REC-20.

REC-21 Tarragon Corp. - 1024-1030 Adams Street, Block 100, Lot 10, Hoboken

This site is located at Block 100, Lot 10. Site reconnaissance confirmed that the site is currently developed as a two-story building of mixed residential and commercial use. A PA and SI was performed in April 2006. TCE and PCE contamination was identified as the result of off-site impacts originating from the Ferguson Propeller Site, located at 1132 Clinton Street. During the performance of the PA, the only other AOC identified was the Ferguson Propeller site located approximately 50 feet to the east. The Ferguson Propeller site is discussed below (NR1348).

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The identified TCE and PCE contamination in groundwater has been identified as REC-21.

REC-22 Atlantic Steamers Supply Co. – 1100-1118 Adams Street, Block 104, Lot 1.01, Hoboken

Site reconnaissance confirmed that the site is currently developed as a multi-story residential building. This site was listed in the Cleanup Star Program due to the investigation and remediation of discharges from both a 1,000-gallon and 8,000-gallon heating oil UST. The discharges from these USTs were later issued an Unrestricted Use NFA from the NJDEP on September 2, 2005.

During the SI activities performed, PCB contamination was also identified at the site. Due to the split use of the property (half of the property was already redeveloped for residential use), the owner entered into two separate Memorandum of Agreements (MOAs) with the NJDEP to investigate and remediate the PCB contamination identified, one for 1100 Adams Street Urban Renewal and one for 1118 Adams Street Urban Renewal. After completion of localized remedial actions, DNs were recorded for each MOA in 2006 including site-wide engineering controls to prevent contact with the remaining PCB contamination. The NJDEP later issued Conditional, Site-Wide NFAs for both portions of the site on May 16, 2008.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The residual PCB contamination at the site (also addressed in the DN placed on the site) has been identified as REC-22.

REC-23 Tarragon Corp. (a.k.a., 1100-1110 Jefferson Street) - 1101-1111 Madison Street Block 103, Lot 1.01, and 1100-1110 Jefferson Street, Block 103 Lot 27.01, Hoboken

The site is located at Block 103, Lots 1.01 and 27.01 (formerly Lots 1-6 and 27-32). The site occupies the southern portion of Block 103 and is bound to the south by 11th Street, to the west by Madison Street, to the east by Jefferson Street, and to the north by Block 103, Lots 7 and 26. Site reconnaissance confirmed that the site is currently vacant. In November 2005, a PA conducted at the site identified nine AOCs. During the same month, the property owner entered into an MOA with the NJDEP to investigate and remediate the site as necessary. Following the performance

of an SI, it was determined that a NFA was necessary at these AOCs with the exception of AOC-3 (Historic Fill) and AOC-9 (Historical Uses of Northern Portion of Block 103).

Contaminated historic fill material was identified throughout the site which resulted in impacts to both soil and groundwater in excess of NJDEP SRS and GWQS. In addition, PCB impacts were also identified within the northern portion of the site, but determined to be a result of an off-site source adjacent to the north of the site and not the responsibility of the subject property owner.

Following completion of SI and RI activities, the historic fill material was confirmed to exist site-wide extending to a maximum depth of 15.5 feet below grade. The selected remedial strategy was the establishment of a DN on the property (which included the construction of a site-wide engineering control preventing contact with the historic fill) as well as the placement of a CEA on the property preventing use of the groundwater for potable and irrigation uses at the site. Although redeveloped as one residential property, the LRSP filed two DNs for the property, one for Lot 1.01 and one for Lot 27.01 as each of these lots has separate mailing addresses. An Entire Site, Restricted Use RAO was issued for the site on October 11, 2013.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The residual PCB contamination at the site (also addressed in the DNs placed on the site) has been identified as REC-23.

REC-24 1405 Clinton Street, Block 123, Lot 1.1, Hoboken

This property is currently developed with a residential condominium building, confirmed during site reconnaissance that was formerly used as a correctional facility/halfway house. According to multiple reports by Dresdner Robin of Jersey City, New Jersey, the site is downgradient from and has been impacted by numerous contaminated sites, including PSE&G's Former Hoboken Gas Works site (PI No. 006372), Bridge Service Station (PI No. 009652), Hess Station 30504 (PI No. 009110), and Metro Web Corporation (PI No. G000013306). The site has also been impacted by historic fill material.

During construction of the current building, a 3,000-gallon heating oil UST was discovered. NJDEP Case No. 11-07-15-1548-53 was assigned to this tank which later received a NFA from the NJDEP on January 14, 2013. Another 1,000-gallon heating oil UST was later discovered and assigned NJDEP Case No. 14-04-22-1021-28. A NFA was issued for this tank on April 23, 2014.

The property has a DN (filed on November 24, 2014) for historic fill contaminants including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, arsenic, beryllium, cadmium, copper, lead, mercury, nickel, silver, and zinc. A RAP for Soil was obtained and became effective on October 13, 2015 and a CEA/Well Restriction Area (WRA) was established on October 8, 2015.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Potential site contaminants from upgradient, off-site sources has been identified as REC-24.

REC-25 Former Ferguson Propeller, Inc. (a.k.a., Curling Club and The Rivington Hoboken Apartments)- 1132 Clinton Street, Block 151, Lots 1 – 7 and Block 156, Lot 6, Hoboken

The property is encompassed by Adams and Clinton Streets between 11th and 12th Streets. Block 151 is located between Adams and Grand Streets and Block 156, Lot 6 is located between Grand and Clinton Streets. Site reconnaissance confirmed that both portions of the property have been developed with multi-story residential buildings.

According to the Remedial Action Report dated January 2000, the site was formerly operated "as a foundry and machine/reconditioning shop since the late 1880s until the closure of onsite operations." Investigations were performed to meet the requirements of ISRA. The site investigations, including a PA, SI, RI, and RAW were performed.

An Entire Site Restricted Use NFA and Covenant Not to Sue dated October 3, 2000 was issued for Block 151, Lots 1, 2, 3, 4, 5, 6, 6.1, 6.2, and 7, and Block 156 Lot 6. The NFA conditions included a DN and CEA/WRA. The CEA applied to arsenic, cadmium, chromium, copper, lead, mercury, benzene, ethylbenzene, toluene, xylenes, trichloroethene, acenapthene, fluorine, phenanthrene, and pyrene. The CEA was established for a duration of 17 years for the predicted degradation of VOCs (including chlorinated organics). The duration for the CEA for metals is indeterminate.

As previously discussed in Section 5.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Volatile organic contamination in groundwater beneath the site (including chlorinated organics) has been identified as REC-25.

REC-26 Hoboken Coal Gas (PSE&G) (a.k.a., Former Hoboken Gas Works) - 1200 Clinton Street, Block 110, Lot 1, Hoboken

The Hoboken Coal Gas site consists of the land located between Clinton Street and Grand Street from 12th Street to 13th Street. Site reconnaissance confirmed that a multi-story residential building is currently being constructed on the site. According to the Soils Remedial Action Report for Former Hoboken Gas Works dated August 2015, the site was used as a manufactured gas plant (MGP) facility "from the late 1860s through approximately the mid to late 1930s. The MGP process facility itself was located on the adjacent Block 116. The subject site, Block 110, was used for gas and fuel storage which included three "holders" and a bulk oil storage UST. PSE&G took ownership of the site in 1954 and operations conducted at the site since then included warehousing and truck terminal operations. "Multiple USTs were documented" at the site and used as part of the on-site operations. The USTs were removed prior to the remedial action.

The RA report had a section discussing previous site assessments and investigations. A SI was performed in 1998 and identified the following 10 AOCs:

- AOC 1 – MGP Located on Block 110. A pump station associated with the MGP was also identified on the eastern portion of the site. Benzene, ethylbenzene, and xylenes were detected at concentrations exceeding NJDEP Residential and Non-Residential Soil Cleanup Criteria and IGWSCC. PAHs were detected beneath the floor of the former garage building located on the southern portion of Block 110.
- AOC 2 – historic industrial operations on Block 110 including machine shop, metalizing company, and chemical company which operated two large hydrogen storage tanks on the site as part of the nitrous oxide plant. AOC 2 was not addressed in the ERM RAR.
- AOC 3 – 3,000-gallon gasoline UST, a 4,000-gallon diesel fuel UST, and a 6,000-gallon diesel fuel UST. The USTs were reportedly installed subsequent to MGP operations and were used by owners/operators other than PSE&G. The USTs were removed in 1998 prior to NJDEP UST regulations, therefore no specific regulatory documentation on the UST removal and closure was available.
- AOC 4 – 3,000-gallon gasoline UST located on Block 114. The UST was cleaned and removed as a result of a fire. The UST was issued a NFA in September 1994. (Note: This AOC was indicated as being located on Block 114 – not the subject site).
- AOC 5 – Discharge of hazardous substances on Block 114 as result of a fire which destroyed the building in 1994.
- AOC 6 – Historic fill material on Blocks 109, 110, 113, and 114. PAHs and other BNs and some heavy metals exceeding the NJDEP Residential Direct Contact SCC. The historic fill material on Block 110 is identified as AOC-6A in ERM's RAR.
- AOC 7 – 550-gallon heating oil UST and a waste oil UST. The capacity of the waste oil UST was not reported. The USTs were removed from the site in 1997 and post-excavation soil samples indicated TPH, SVOCs, and metals concentrations exceeding the NJDEP Residential and Non-Residential SCC and Impact to Groundwater criteria adjacent to the 550-gallon UST. Remedial action was proposed.
- AOC 8 – Pump Island located north of the former garage building. The pump island was assumed to be used to service one or more of the USTs formerly at the site. Soil contamination was observed during the removal of the pump island. Soil sampling indicated that benzene concentrations exceeded the NJDEP Residential SCC and Impact to Ground Water criteria and xylene concentrations exceeded the Impact to Ground Water Ground Water criteria.
- AOC 9 – contaminated groundwater on Blocks 109 and 110. VOCs, particularly benzene, phenanthrene, arsenic, lead, cyanide, and PCBs were detected at levels exceeding the NJDEP GWQS. Groundwater is not addressed in ERM's Soil RAR.
- AOC 10 – free product on the groundwater at the site. "Free product was reported in several locations at the site that were not associated with other AOCs in soil borings and on groundwater. Free product in soil was removed as part of this RA. Groundwater impacts are being addressed separately."

An addendum to a 2011 RAWP was prepared to "address omissions and clarify the scope of work" before remediation was implemented. The RAWP addendum addressed AOC-1, AOC-3, AOC-6A, AOC-7, and AOC-8. Remedial excavation was performed in three phases:

- Phase I – included Excavation No. 1 and consisted of removing gas holders No. 1 and No. 2, in their entirety, and excavation of soils to a depth of approximately 28 feet below ground surface (bgs). Two isolated areas, excavation No. 1A and Excavation No. 1B were completed to the depth of 32 feet bgs and 38 feet bgs, respectively. Soils within 20 grid cells (20 feet by 20 feet each) were classified as hazardous waste due to the concentrations of lead that rendered the soil within this area hazardous.
- Phase II – included Excavation No. 3 and consisted of removing gas holder No. 3 in its entirety and the remnant MGP plant associated bulk oil UST foundation, and excavation of soils to a depth of approximately 20 feet bgs. Three isolated areas, Excavation No. 3A, Excavation No. 3B, and Excavation No. 3C were excavated to depths of 29 feet, 23 feet, and 26 feet bgs, respectively. Phase II also included excavating a portion of Excavation No. 4 to 4.5 feet bgs. Soil within one grid cell were classified for disposal as hazardous waste due to the concentrations of lead that rendered the soil within this area hazardous.
- Phase III - Excavation No. 2 consisted of excavation of soils to a depth of 24 feet bgs, and excavating a portion of Excavation No. 4 to 4.5 feet bgs. No hazardous soils were identified in Phase III based on the results of the prior waste classification.

Post-excavation soil samples were collected from each excavation. The samples were analyzed for Target Compound List (TCL) VO+15, TCL PAHs and Phenolics, and Target Analyte List (TAL) Metals and Cyanide. Laboratory analytical results are as follows:

Phase I: No exceedances were detected in 21 of 22 samples. One sample was reported as having concentrations of benzo(a)pyrene and dibenz(a,h)anthracene exceeding the NJDEP Non-Residential Direct Contact Soil Remediation Standards (NRDCSRS).

Phase II: Approximately half of the samples from this were identified as having concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h) anthracene, indeno(1,2,3-cd)pyrene, and naphthalene exceeding the NJDEP NRDCSRS. Six of the samples had concentrations of benzene and styrene exceeding the NJDEP NRDCSRS.

Phase III: Two of 15 samples exhibited concentrations of benzo(a)pyrene and dibenz(a,h)anthracene, and one sample exhibited a concentration of 1,2-dibromoethane exceeding the NJDEP NRDCSRS.

The excavation was backfilled with certified clean fill from three different sources: Liberty Stone, P Park, and Plymouth Industries. The site is known to be underlain by approximately six to 14 feet of historic fill material. The different phases of excavation removed portions, but not all, of the historic fill. The remaining historic fill was proposed to be addressed by the placement of engineering and institutional controls.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The remaining petroleum/MGP impacts to soils and groundwater at the site has been identified as REC-26.

Rite Aid Pharmacy and Laundromat (a.k.a., Advance at Hoboken, a.k.a., Rite Aid Pharmacy and Laundromat, a.k.a., Cumberland Gulf, Cumberland Farms, Hoboken Gas Works) - 1316-1330 Willow Avenue, Block 116, Lot 1.2 (a.k.a., Lot 1.02), Hoboken

This site, Block 116, is associated with NR1349 above, the former MGP site on Block 110. Documents available for review for this block included an Addendum to RAW – Soils, Block 116, Lot 1.2 dated April 2014. The addendum included installation of a permanent groundwater barrier, in-situ stabilization of historic fill-impacted soil, and pore pressure reduction, groundwater conveyance, and pre-treatment and discharge system. The report also included a revised cost estimate and schedule.

The addendum to the RAWP noted that the developer, Advance at Hoboken, LLC, entered into a MOA with the NJDEP and "assumed the remedial obligation for the on-site soils only. PSE&G remains liable for groundwater contamination beneath the Site and soil and groundwater contamination related to MGP operations that may have migrated offsite. Cumberland Farms remains responsible for soil and groundwater contamination related to retail gasoline operations that may have migrated offsite." The original RAW and the Bedrock SIR were approved by NJDEP in October 2009. Remedial actions included implemented were bedrock surface investigation, pre-remediation activities, removal of three regulated USTs, and excavation and off-site disposal of approximately 55,700 cubic yards of contaminated soil.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The remaining petroleum/MGP impacts to site soils and groundwater (from the adjacent Hoboken Coal Gas site discussed above) have been identified as REC-26.

Cumberland Farms – Gulf Station, 1316-1330 Willow Avenue, Block 116, Lot 1.2, Hoboken

Site reconnaissance confirmed that a multi-story residential building is currently under construction at the site. According to an Addendum to RAW dated April 2014, the site is "the location of a former manufactured gas plant (MGP) and a known LUST site, is the subject of Memorandum of Agreements between the NJDEP and two responsible parties, Public Service Electric and Gas (PSE&G) and Cumberland Farms Incorporated (CFI)". PSE&G "remains liable for groundwater contamination beneath the Site and soil and groundwater contamination related to MGP operations that may have migrated off site. Cumberland Farms remains responsible for soil and groundwater contamination related to retail gasoline operations that may have migrated offsite." The developer, Advance at Hoboken, LLC (Advance) entered into a MOA with the NJDEP and assumes the remedial obligation for the on-site soils only.

According to a CID worksheet and RAR Form (no RAR was reviewed), three AOCs were identified. AOC-1 consists of the soils (non-fill) from the gas station and coal gas site. Contaminants for this AOC include PAHs, metals, and VOs. Excavation and stabilization was performed in 2014. AOC-2 consist of the groundwater on the property. Contaminants include VOs, PAHs, and metals. AOC-2 is being addressed by PSE&G. AOC-3 is the historic fill that is present on the site. Contaminants include PAHs and metals. Excavation, stabilization, and capping was completed in 2014 for this AOC. A DN was also filed in November 2015 for the historic fill material. A RAP Application for soils was also sent to the NJDEP on November 11, 2015.

According to the NJDEP Data Miner, a RAO-A Restricted Use was filed on December 17, 2015 and the overall case is identified as Active. The RAO was not observed in the documents provided during the NJDEP File Review.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Petroleum and MGP impacts to soil and groundwater at the site have been identified as REC-26.

REC-27 PSE&G Vault Expansion Project at the Hoboken Substation and In Front of 1331 Grand Street, Block 141, Lot 12.01, Hoboken

This project involved the installation of two new underground switch vaults as part of the "Hoboken Substation Upgrade/Expansion Project" according to the Final Linear Construction Report for the PSE&G Hoboken Vault Expansion Project. Due to the generation of soil exceeding 200 cubic yards, the project was entered into the Linear Construction Program under the oversight of an LSRP.

The project began in October 2013 and involved the installation of underground switch vaults that were approximately seven feet by 19 feet by 10 feet. One of the vaults was installed adjacent to the PSE&G Hoboken Substation north of 16th Street between Grand and Clinton Streets. The second vault was to be installed at the intersection of Grand and 15th Streets; however, during the excavation, free-phase petroleum product was encountered and therefore the location was backfilled with clean gravel and the location abandoned. The NJDEP was notified via the NJDEP Hotline and NJDEP Case No. 13-10-24-1624-24 was assigned. The abandoned location is adjacent to the International Bus Services, Inc., also referred to as Trailways, Inc., which is currently under a CEA restriction that extends off-site to the east and west of the block. The second vault location was subsequently moved south to be located in front of 1331 Grand Street.

The soil generated from the excavations was managed in accordance with the Linear Construction Guidance. Because the existence of the free-phase petroleum contamination adjacent to the International Bus Services, Inc., facility was already known to NJDEP, the report indicated that PSE&G was "not required to provide any further notifications" and that the incident number should be closed.

Although historic fill material has not been confirmed at the site, as discussed in Section 6.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). The free-phase petroleum contamination identified at the site has been identified as REC-27.

REC-28 Church Towers - 10 Church Towers, Block 157, Lot 1, Hoboken

Site reconnaissance confirmed that this property contain multi-story residential buildings. The site formerly had two 15,000-gallon No. 4 heating oil USTs. According to a RIR Addendum dated June 26, 2008, the tanks were removed in April 2000 and the contractor observed a product discharge within a return pipeline. Free-phase product was observed on the concrete pad beneath the UST. The contractor installed a replacement UST about 125 feet away from the former UST location, and found that the new excavation also contained free-phase product. Five MWs were installed and collected groundwater samples. Results indicated benzene concentrations above NJDEP GWQS. A fingerprint analysis of the free product found that the product observed was “diesel and/or degraded fuel oil.”

Additional soil and groundwater sampling was performed on September 9 and 10, 2003. Laboratory results indicated TPH concentrations in the soil ranged from not detected to 3,600 milligrams per kilogram (mg/kg) but all below the action level of 10,000 mg/kg. Contingent analysis of the sample exhibiting the highest TPH concentration did not reveal any PAH concentrations above the most stringent NJDEP SCC. The groundwater sample results reported no VOC compounds above the NJDEP GWQS and one sample with VO TICs reported at a concentration above the 500 micrograms per liter (ug/L) GWQS for TICs. No BN compounds were reported at concentrations above the NJDEP GWQS, but one sample reported a BN TIC concentration above the GWQS of 500 ug/L. Furthermore, 2-methylnaphhthalene was detected in one sample at a concentration of 110 ug/L, which is slightly above the NJDEP GWQC of 100 ug/L for this compound. Other targeted VOC and BN compounds were not detected above their corresponding NJDEP GWQS.

Additional groundwater sampling events were performed on September 3 and December 28, 2004. Groundwater samples were collected and analyzed for VOCs, MTBE, TBA, and SVOCs. Free product was observed in MW-4 and MW-6. During the September event, groundwater samples were collected from MW-1, MW-2, MW-3, and MW-5 with only MW-3 reporting a detection above the GWQS, specifically of benzene at a concentration of 110 ug/L that exceeded the NJDEP GWQS of 1 ug/L. No other contaminants were detected at concentrations in excess of their corresponding NJDEP GWQS.

During the December event, benzene was detected in MW-3 at a concentration of 159 ug/L, which is in excess of NJDEP GWQS of 1 ug/L. Naphthalene was also detected in this well at a concentration of 368 ug/L, which is above the NJDEP GQC of 300 ug/L. No other VOC or BN compounds were detected at concentrations above their corresponding NJDEP GWQS.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Petroleum impacts (including benzene) to both soils and groundwater at the site has been identified as REC-28.

REC-29 Demarest School - 400-414 Bloomfield Street, Block 191, Lot 1, Hoboken

Site reconnaissance confirmed that the property is still occupied by a public school. A SIR for the A.J. Demarest Middle School dated January 2015, identified three AOCs including a former 15,000-gallon #4 heating oil UST, a suspected 1,000-gallon UST with unknown contents and historic fill. The SIR included a November 2014 geophysical survey report. Preliminary findings of the geophysical survey indicated that an approximately 12 foot by 40 foot vault was located adjacent to the school building beneath the sidewalk fronting Bloomfield Street. The SIR report indicated that the vault was associated with the building's boiler room.

It was later determined that the vault area was with the former 15,000-gallon UST and the approximate limits of the excavation and soil stockpile area. The survey also identified a second suspected UST, estimated to be 1,000-gallon capacity. The suspected UST is located beneath the sidewalk by the parking area entrance off of Bloomfield Street.

The SI was implemented on November 24, 2014. A total of nine borings were advanced and one temporary well point was installed. The soil borings were advanced in the approximate area of the extent of the former UST excavation. No soil borings were advanced adjacent to the suspected 1,000-gallon UST to determine presence/absence of any potential impacts. Soil samples were collected at the approximate former tank invert, between 11 and 12 feet bgs, and between zero and six inches above the groundwater table which was encountered between 10 and 11 feet bgs.

Laboratory analytical results identified the presence of petroleum impacts to soil and groundwater. EPH concentrations ranged between less than 2 mg/kg to 19,000 mg/kg, which exceeds the NJDEP Residential TPHC/EPH Criteria. Four samples contained concentrations of PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene) exceeding the NJDEP NRDCSRS in one or more of the four samples. Laboratory analytical results of the groundwater sample indicated concentrations of benzo(a)pyrene and benzo(b)fluoranthene exceeding the NJDEP GWQS.

It was recommended that a geophysical survey of the remaining area of the site be performed to identify any other potential USTs, and further SI and RI activities to delineate petroleum impacts from AOC-1. It was also recommended that a test pit be excavated to confirm the presence, size and orientation of the suspected 1,000-gallon UST. Further RI of soil and groundwater impacts related to historic fill was also recommended.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Petroleum related impacts to soil and groundwater at the site from historic USTs has been identified as REC-29.

REC-30 600 Harrison Street, Block 72, Lot 1, Hoboken

The site is the triangular piece of land located north of 6th Street between Harrison Street and the Hudson-Bergen Light Rail railroad. The parcel was formerly used as an auto junkyard beginning in approximately 1979. Site reconnaissance confirmed that the site is currently being cleared for construction.

The site was subject to a MOA dated January 20, 2006 with the NJDEP for the purpose of Brownfield Redevelopment. A RAR was prepared for soil and groundwater at the Former Hoboken Auto Body Site – West Parcel dated June 30, 2006. The remedial action included excavation of historic fill material to a depth of 2.5 feet bgs. The site was found to be completely underlain by historic fill to a depth of up to 5.5 feet bgs. Approximately 950 tons of historic fill material was excavated, screened to remove large debris, and disposed of as non-hazardous regulated material. Post-excavation soil samples indicated concentrations of contaminants characteristic of historic fill material including PAHs and metals, exceeding regulatory standards remain in the subsurface. As a result it was recommended that the remedial approach moving forward to be the establishment of engineering and institutional controls for the entire site.

A groundwater SI was performed in 2006 and consisted of the installation and sampling of six shallow MWs to a depth of 18.5 feet bgs. Benzene, several BNs and metals exceeded the NJDEP GWQS. Free product was discovered in 2012. The LNAPL appeared to be lubricating oil and hydraulic fluid. In 2013 product depth was estimated to be approximately two inches. Fingerprint analysis of the product indicated hydraulic fluid and/or 50W motor. Product recovery was performed by utilizing a vacuum truck. An investigation concurrent with the product removal concluded there was no off-site migration of product, the LNAPL thickness exhibited a decreasing trend, and the aerial extent of the product did not appear to be expanding.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. LNAPL at the site (lubricating oil and hydraulic fluid) has been identified as REC-30.

REC-31 Grand Street Condominiums (a.k.a., Former RG Delivery) - 1200 Grand Street, Block 109 (Entire Block), Hoboken

This site is part of the former Hoboken Gas Works MGP complex that included Block 110, Block 116, and Block 109, discussed in REC-26. Site reconnaissance confirmed that this site is currently developed with a multi-story residential building. A 2002 Remedial Action Selection Report (RASR) for the former Hoboken Gas Works indicated that migration of contaminants from Block 110 to a portion of Block 109 had occurred in the saturated soils. In addition, three leaking USTs have been removed and investigated at Block 109, as described below.

In 2003 a leaking 1,000-gallon No. 2 fuel oil UST was removed and cleaned at the former R.G. Delivery Services (Block 109 and Block 114). TPHC was detected above the NJDEP criteria in one post excavation sample and was

further analyzed for VOCs. No volatiles were detected above the NJDEP Default Impact to Groundwater. The excavation was recommended to be filled with certified clean fill.

In 2005, an inactive 8,000-gallon No. 2 heating oil UST was removed from the site. The UST was discovered during redevelopment construction activities. Visual evidence of petroleum discharge to the soil, only, was observed and Case No. 05-03-11-15-21 was assigned to the case. Soil results indicated that two of the samples contained concentrations of TPHC above 1,000 mg/kg. Contingent analyses were activated and results indicated that no VO compounds were present; therefore, no further soil delineation was warranted. Groundwater results indicated that benzene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, benzo(a)pyrene, and dibenz(a,h)anthracene were found to be above the NJDEP GWQS. The contamination observed in the groundwater was attributed to an off-site source that is undergoing its own investigation (Block 110 property).

A 1,500 gallon UST containing No. 2 heating oil was also discovered in 2005 during construction activities. Impacted soil was disposed off-site and Incident No. 05-08-13-1139-19 was assigned. Post excavation soil analytical results indicated that concentrations of TPHC were below the 1,000 mg/kg NJDEP SCC; therefore, no further soil delineation was warranted. A sheen was observed in the groundwater. Groundwater results indicated traces of benzene, benzo(a)anthracene, benzo(k)fluoranthene, and benzo(a)pyrene above NJDEP's GWQS. TICs were also found above VOC and SVOC GWQS. However, the benzene contamination only marginally exceeded the GWQS, so further ground water investigations and/or remedial actions were not recommended. No further action was recommended for this UST.

According to a RAR dated October 2006, all remedial actions proposed in RAWs have been implemented. These actions included the management of contaminated soils, the capping of contaminated soil, the preparation/recording of a DN, the removal/closure of the former USTs, and the proper abandonment/decommissioning of two onsite MWs. No record of an RAO was identified and the case is still active.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Petroleum/MGP impacts to soil and groundwater at the site have been identified as REC-31.

REC-32 Grand Adams Apartments - 300 Grand Street, Block 51, Lots 1-9 and 26-35, Hoboken

Site reconnaissance confirmed that this site currently consists of a residential condominium building. According to a Supplemental RIR/RAW dated May 2006, the site historically had four 5,000-gallon No. 4 fuel oil USTs. The report states, "Reportedly, these were rendered inactive during Site rehabilitation in 1980 and subsequently removed in 1985". A soil remedial action was conducted in December 2004. Post-excavation samples showed that soil contamination remained on site after the remedial activities. The contaminants of concern are TPHC, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, and benzene. Due to the contaminants on site, a DN was proposed for the site.

Upon the approval from the NJDEP, a DN was filed for the Site and recorded on January 30, 2008. The DN includes the capping of the contaminants of concern with the appropriate engineering controls. Once the DN was recorded, a Restricted NFA was issued on February 28, 2008. A RAP for soils was also approved on October 2, 2015.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Residual benzene contamination in soil from the former heating oil USTs has been identified as REC-32.

REC-33 Grand Street Mercury -720 and 722-732 Grand Street, Block 85, Lots 14, 15.01, and 15.02, Hoboken

The site was operated by the Cooper Hewitt Electric Company from 1910 to 1919. GE partially owned the property from 1919 until its full acquisition in 1930. The property was eventually sold to Quality Tool and Die Company in 1955, who owned the property until 1993, when it was sold to the Grand Street Artists Partnership. The on-site buildings were converted into residential apartments, a townhouse, and a grass-covered field. The buildings were subsequently demolished, and site reconnaissance confirmed that the site is currently vacant.

The Cooper Hewitt Electric Company and GE produced mercury vapor lamps in the industrial building. Quality Tool and Die manufactured precision tools. According to a Public Health Assessment for the site, Quality Tool and Die completed the Environmental Cleanup and Responsibility Act (ECRA) protocols prior to the sale to the Grand Street Artists Partnership. The Assessment stated that a UST and surrounding contaminated soil were removed as part of the ECRA case. The owner of Quality Tool and Die certified that the UST and the contaminated soil was the only AOC on site. The UST area was capped and a Declaration of Environmental Restriction (DER) and Grant of Easement was recorded with the County Clerk. The NJDEP issued a negative declaration on February 8, 1993 for Quality Tool and Die's ECRA case, which was later rescinded in December 1996.

Under the ownership of the Grand Street Artists Partnership, the existing buildings and their rooms were converted into residential apartment units that were sold individually. During renovations however, pools of elemental mercury were discovered under the fourth and fifth-floor floorboards. Mercury vapor samples were collected and were found to range from 5 µg/m3 to 888 µg/m3. Urine samples were also collected from the residents, and were found to range from 3-102 µg/L in 31 adults, and 7.0-67.3 µg/L in six children. As a result, an order was issued to evacuate the residents from the site. On September 30, 1997, the USEPA issued a ROD and the site became a Superfund site.

According to a letter from the NJDEP to the USEPA dated June 8, 1997, five alternatives were proposed for the cleanup for the site. Based on evaluations, the NJDEP and USEPA accepted the alternative that involved demolition of the buildings with permanent relocation of the building residences, sampling, excavation, off-site disposal of contaminated soil, and a groundwater investigation.

The USEPA identified GE as the responsible party for the site. Soil samples collected by GE indicated that mercury concentrations varied in range. According to a 2003 Soil Removal Work Plan, mercury concentrations in 68 shallow soil samples ranged from non-detect to 11,700 mg/kg, while concentrations in 31 deep samples ranged from non-

detect to 11,000 mg/kg. The site-specific soil Preliminary Remediation Goal (PRG) was 23 mg/kg average total mercury concentration for soil above the zone of saturation, and 520 mg/kg average total mercury concentration for onsite soils located below the groundwater table. According to USEPA's Superfund Preliminary Site Close Out Report, dated September 2005, soils on five adjacent residential properties with mercury levels above 23 mg/kg were also addressed as part of the remedial action.

The buildings and parking lot on site were demolished in 2003. During the removal of the buildings' basement slabs, mercury was observed in the underlying soil. Sampling showed that the soil was more contaminated than had been expected, and the contamination extended below the water table. Soil removal work was completed in December 2004. Ten MWs were also installed on the site and sampled in December 2004 and June 2005. Both rounds indicated that mercury levels were below two parts per billion (ppb), which is both the federal Maximum Contaminant Level (MCL) and the New Jersey MCL. As a result, the site was finally removed from the NPL list in August 2007; however due to remaining levels of mercury at the site this former Superfund site remains an REC

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Residual mercury contamination to both soil and groundwater at this former Superfund site has been identified as REC-33.

REC-34 TriBoro Hardware and Industrial Supplies Inc. - 812 Grand Street, Block 91, Lots 1.02 and 2, Hoboken

Site reconnaissance confirmed that the former Triboro property has been redeveloped into a multi-story residential building. A 2001 PA did not identify any AOCs on the subject site. However, based on the likelihood of historical urban fill at the site and other soil and groundwater data from investigations performed adjacent to the subject property, a subsurface investigation was performed including soil and groundwater sampling. Laboratory analytical results for soil and groundwater samples indicated exceedances of heavy metals and PAHs, commonly known to exist in contaminated historic fill. The groundwater was also found to contain VOCs exceeding GWQS in the eastern portion of the site; however, these constituents were attributed to an off-site source. In May 2004, a DN for Triboro Enterprises, LLC (Former Triboro Hardware Site) was prepared for PAHs and metals typical of historic fill.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Volatile organic contamination in groundwater has been identified as REC-34.

REC-35 Interboro Recycling/Tarragon Corporation - 1001-1015 and 1114 Madison Street, 1000-1002 and 1024-1030 Jefferson Street, Block 99, Lots 1-32, Hoboken

Site reconnaissance confirmed that this property is occupied by a residential apartment building located at 1001-1015 and 1114 Madison Street, and 1001-1002 and 1024-1030 Jefferson Street. The site is designated as Block 99, Lots 1-32 in the local tax map. According to a 2008 Remedial Action Report, AOCs included historic fill, numerous petroleum USTs and former industrial operations.

SI activities were performed to address AOCs. Based on the findings, a CEA for lead and arsenic was established, a DN for historic fill and TPHC was recorded, and the entire property was capped. The site received a Conditional NFA on October 16, 2009.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. TPHC contamination in site soils from the former presence of petroleum USTs has been identified as REC-35.

REC-36 1100-1114 Madison Street and 1101-1113 Monroe Street, Block 102, Lots 1-8 and 25-32, Hoboken

Site reconnaissance confirmed that the property is currently a vacant site, and is located at 1100-114 Madison Street and 1101-1113 Monroe Street. The site has been designated Block 102, Lots 1-8 and 25-32 in the local tax map. Prior to April 2013, the site had been utilized, under the oversight of the NJDEP, as a temporary staging area for soil excavated from other properties within this re-development zone in Hoboken.

According to a 2015 RAR, the site was formerly owned by Interboro Disposal and Allegro Sanitation. In 1986, the NJDEP found that the owner had been using the property as an illegal transfer station and landfill between 1979 and 1986. Large quantities of household refuse, demolition debris (including asbestos), and regulated medical waste were found on site in 1986. Buried medical waste was observed during removal of the slab and footing of a former building in 2004. The medical waste was found to be concentrated within the northern portion of the property. Approximately 445 pounds of medical waste was removed. Analytical results from 50 surface and near-surface soil samples collected throughout the site indicated concentrations of PCBs ranging from 0.2 ppm to 23 ppm.

In 2013 three AOCs were identified and investigated including historic fill, PCBs, and historic site operations. Soil samples collected for historic fill contained PAHs and metals, specifically lead, above NJDEP SRS. Groundwater samples contained metals, which were attributed to the regional historic fill. PCB hotspots were found throughout the property, but groundwater was not affected by the PCBs.

Approximately 6,060 tons of soil were removed from the site, including 5,316 tons of non-Toxic Substances Control Act (TSCA) soils, 83 tons of TSCA PCB contaminated/lead classified hazardous waste soil, and 662 tons of lead classified hazardous waste soil. Virgin basalt and quarry aggregate were used as backfill and as an engineering control. The soil excavation activities performed remediated the majority of the PCBs and lead contamination present on the property. A DN was filed on June 25, 2015. A RAP-Soil and CEA for historic fill applications were sent to the NJDEP on August 6, 2015. An RAO-Restricted Use with Permit Requirements was issued on November 10, 2015 for the property.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Residual PCB contamination is soil has been identified as REC-36.

REC-37 Universal Folding Box Co. - Madison Street and 13th Street, Block 106, Lots 1-32 and Block 111, Lots 2-14, and 14.1, Hoboken

Site reconnaissance confirmed that this site is located at 1200-1330 Madison Street, and is currently a vacant warehouse/industrial building.

A 1993 RIR stated that a 3,000-gallon no. 2 heating oil UST and two 5,000-gallon no. 2 heating oil USTs were removed from the property. One inch of free product was observed on the groundwater during excavation activities. Approximately 125 cubic yards of contaminated soil were removed and approximately 2,070 gallons of residual fuel oil and water were pumped from the excavation and disposed off-site. Five wells were then installed within and adjacent to the excavation area. Groundwater sampling showed that the adjacent areas did not have contaminants above NJDEP GWQS, and that the only AOC was within the excavation area that was remediated. The NJDEP subsequently issued an NFA for the heating oil USTs on October 21, 1994.

In 2002, the property went through the ISRA process and received a conditional NFA for the entire site. The conditional NFA required the implementation of institutional and engineering controls to address the presence of historic fill. Several other ISRA cases occurred in the 2000s. All of the ISRA triggers were closed with NFAs, with the exception of Case E20050428, which NJDEP Data Miner shows being currently active.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Residual petroleum-based impacts to both soil and groundwater at the site have been identified as REC-37.

REC-38 Levolor Lorentzen Inc. - 700-720 Monroe Street, (B80, L1.01 &10.01), (B81, L2.01 & 3.01), (B82, L3), and (B87, L1.01), Hoboken

Site reconnaissance confirmed that there are currently mixed use residential/commercial buildings at this site. The lot bounded by 8th and 9th Streets and Jackson and Monroe Streets is currently vacant and monitoring wells are present. In 1951, Levelor Lorentzen, Inc. (LLI, a.k.a., Levelor) began operating a vinyl blind manufacturing facility at the site. In 1986, LLI, in anticipation of ceasing operations at the site, entered into an ACO with the NJDEP to clean up site impacts resulting from their operations. In 1990, Levelor sold the property to Colpro, Inc. (Colpro) but retained responsibility for the site cleanup. Remedial activities were performed at the site from early 1988 through 1998. Numerous AOCs were identified that caused impacts to the subsurface including leaks from two 6,000-gallon No. 6 oil USTs and an interior TCE storage area. Numerous SI and RI activities (including both soil and groundwater sampling) were conducted. Following the performance of remedial activities at these AOCs, Levelor submitted a Final RAR to the NJDEP in December 1997 recommending the placement of a CEA on the site due to remaining VOC contamination in groundwater in excess of NJDEP GWQS. The NJDEP approved the December 1997 RAR and issued an Entire Site Restricted Use NFA Letter to Levelor on May 19, 1998.

In 1998, after the NFA letter was issued, Colpro requested that the NJDEP remove the restriction on residential development of the site. In 2001, Morgan Stanley become the successor to Levelor (the responsible party) and Monroe Center Development (MCD) became the successor to Colpro (the property owner). In order for the residential redevelopment restriction to be lifted from the site, the NJDEP required MCD to perform a risk-based analysis which was later submitted as part of the May 2003 RAW. This RAW was approved by the NJDEP which required the performance of additional SI activities regarding the CEA and the installation of a vapor collection system. During the ensuing SI activities including the excavation of test pits, free-phase petroleum product was reportedly encountered in the top four-foot soil horizon. Later RI and RA activities were performed at the site including the excavation of approximately 1,300 tons of volatile impacted soil and the recovery of approximately 10,000 gallons of impacted groundwater.

The remediation areas corresponded to the locations of the two original AOCs identified at the site. On June 8, 2009, following numerous requests and failure of Morgan Stanley to meet required investigation and remediation schedules, the NJDEP rescinded the May 19, 1998 NFA on the basis that a complete site assessment and investigation of the site and AOCs identified was not performed and/or presented to the NJDEP.

Although an RAO was issued for VI at Monroe Center Buildings C&E (since constructed at 720 Monroe Street), investigation and remediation of both soil and groundwater impacts at the site are still ongoing. Most recent SI activities performed at the site through March 2015 identified PHCs, VOCs, SVOCs, metals, pesticides and PCBs in excess of NJDEP SRS. Regarding groundwater, VOCs (including TCE and its breakdown products) were observed in excess of NJDEP GWQS.

MCD, now operating at the site as Bijou Properties, has since retained an LSRP (in May 2014) to oversee the continued investigation and remediation of both soil and groundwater impacts at the site. Information regarding the present status of any investigation and/or remediation activities at the site regarding soil and groundwater impacts was not available during a recent review of NJDEP case files.

Although historic fill material has not been confirmed at the site, as discussed in Section 6.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). Residual volatile, TPH, semi-volatile metals and PCB impacts to soil and residual chlorinated organic impacts to groundwater likely remain at the site and have been identified as REC-38.

REC-39 301 Newark Street, Block 2.01, Lots 5 and 6, Hoboken

Site reconnaissance confirmed that this property is currently developed as a multi-story residential building. The R. Neumann site is adjacent to the south of the subject property. Two sumps are located on the subject property, and according to a Focused PAR dated June 2013, free product was found in soil borings that were drilled adjacent to the sumps. The free product was found to be related to No. 4 heating oil.

The owner stated that No. 4 heating oil was never stored on the subject property, however, the subject property was formerly a part of the R. Neumann building, which is adjacent to the subject property. The R. Neumann building had four 6,000-gallon heating oil USTs, with three of the tanks containing No. 4 heating oil and the fourth tank containing No. 6 heating oil. It was reported that when the subject property was a part of the R. Neumann building, the four tanks were used to help fuel the operations on the subject property. As the subject property had no signs of storing No. 4 heating oil on site, and that free product was not observed in the sumps, it was concluded that the source of the contamination was attributable to an off-site source (adjacent R. Neumann site). An Unrestricted Use AOC-specific RAO, dated June 28, 2013, was filed for the site. The RAO was amended on September 17, 2013. The amended RAO added the PI and Case Nos. for the R. Neumann site.

Although historic fill material has not been confirmed at the site, as discussed in Section 6.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). The free-phase product identified at the site has been identified as REC-39.

REC-40 Metro Web Corporation, 1420-1424 Willow and 1427 Clinton Street, Block 116, Lot 1.2, Hoboken

Site reconnaissance confirmed that this site is currently vacant. It was formerly a warehouse operated by Metro Web Corporation. The site is going through the ISRA process for the sale of the property and cessation of business operations (E20010322). According to the General Information Notice (GIN) dated April 30, 2009, the site had additional ISRA applications including: a Non-Applicability Determination issued May 26, 1987 to Willow Avenue Associates; a Negative Declaration issued September, 30 1992 to KAR Financial Printing of New Jersey, Inc., ECRA Case No. 91363; and a GIN in August 2001, ISRA Case No. E20010322.

A PAR was submitted on July 9, 2003 that identified several AOCs during their site inspection, but only the AOCs associated with USTs, former discharge areas and historic fill required further investigation. According to a Remedial Investigation Progress Report (RIPR), dated January 3, 2006, a RIR (not available at the NJDEP file review) was submitted along with the PAR. The RIPR stated that ground penetrating radar (GPR) activities were performed within the interior of the building, and that interior sampling was performed to determine the concrete depth and whether the soil beneath the concrete might have been impacted by the historic industrial uses. Soil samples were collected and analyzed with results indicating that the contaminants in excess of the NJDEP SCC are consistent with the constituents of historic fill and their concentrations fall within the average and maximum concentrations of Historic Fill Material as found in Table 4-2 from N.J.A.C. 7:26-4.6. The RIPR also stated that during GPR activities, a 550-gallon former gasoline UST was found parallel to Willow Avenue. Due to the proximity to the adjacent roadway, this UST was subsequently abandoned in place. A site-wide DN was recommended to be recorded for the property for the historic fill and other contaminants found, along with additional groundwater monitoring to help delineate on-site contamination reportedly originating from an off-site source.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Petroleum-related contamination in the soil and groundwater at the site has been identified as REC 40.

REC-41 Albee Services, 410 8th Street, Block 91, Lot 1.1, Hoboken

Site reconnaissance confirmed that Public Storage is the current owner of this site that is operated (in its entirety) as a self-storage facility. Catharted 410 Eighth St., LLC, the previous owner operated the subject site as Albee Services (exact operations not reported). Albee Services remediated contaminated soil at the property to the extent practicable and the NJDEP approved that remedial action on June 25, 2001. As soil contamination (including lead and mercury) remains in the site soils, a site-wide DN (including a site-wide engineering control) has been placed on the property to prevent contact with the remaining impacted soil. Engineering controls placed on the property include an asphalt cap (parking area) and a concrete cap (site building). The DN was filed on June 23, 2009 and required the preparation of a Biennial Certification Monitoring Report which includes an inspection of the existing engineering controls to confirm that they are still protective of human health and the environment. A review of the past three certification reports indicates that the engineering controls are still protective.

Although historic fill material has not been confirmed at the site, as discussed in Section 6.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). Residual mercury impacts to site soils has been identified as REC-41.

REC-42 LMT Steel Products, Inc. - 551 11th Street, Block 94, Lot 1, Hoboken

Site reconnaissance confirmed that this site is currently occupied by a ShopRite Supermarket and associated parking lot. It was formerly utilized by LMT Steel. According to a NJDEP letter dated November 30, 2004, LMT Steel sold the property prior to completing ISRA requirements. This letter also stated that LMT did not address many concerns that were requested, including proper sampling and restrictions on a draft DN. The letter made reference to a SI and RAR dated December 1999, however, such a report was not observed in the records inspected during the NJDEP file review.

According to a RE form, the latest laboratory data available was from June 31, 2003 and no other information was referenced in the form. A PAR prepared for a daycare dated May 2015 was reviewed. The PAR focused primarily on the current structure (the commercial unit) rather than the former structure operated by LMT Steel. The PAR makes reference to the active case that is being addressed under LMT Steel's PI Number.

According to the NJDEP Data Miner, two activities are identified for PI No. G000043351 (LMT Steel. Activity No. ISR030002 is listed as "Transferred pending payment". Activity No. LSR100001 is listed as "Active". The latest activity was "Data Cleanup Completed" and was dated September 11, 2015.

Although historic fill material has not been confirmed at the site, as discussed in Section 6.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). Potential, unknown site contaminants from prior site operations has been identified as REC-42.

REC-43 Jefferson Street Properties - 1515 Jefferson Street, Block 199, Lot 1, Hoboken, a.k.a., Miles Square Towing, 1520-1530 Jefferson Street, Block 199, Lot 1, Hoboken

Site reconnaissance confirmed that this property is currently developed as a bus garage.

1515 Jefferson Street

According to a SIR dated September 25, 1995, two USTs were removed from the site on June 28, 1995. Each tank had a 5,000-gallon capacity and both contained light diesel fuel. Post-excavation soil samples indicated two samples with TPH results above the "1,000 ppm limit" which triggered contingent analysis that were reported at concentrations below the soil cleanup criteria. As a result, an NFA was requested for the two tanks. The NJDEP issued an NFA for the closure of the tanks on November 27, 1995.

1520-1530 Jefferson Street

According to a RAR prepared for this site dated February 18, 2015, three USTs were abandoned in place. The first tank was a 1,000-gallon No. 2 heating oil UST; the second tank was a 2,000-gallon medium diesel fuel UST; and the third tank was a 3,000-gallon leaded gasoline UST. Samples were collected along the perimeter of the tanks. It was reported that "soil samples were subjected to analysis for EPH for the fuel oil and diesel fuel tanks, and volatile organics plus lead for the leaded gasoline tank." Impacted soil was observed above the three USTs. Approximately 22.87 tons of impacted soil was removed from the 1,000-gallon UST, approximately 26.70 tons of impact soil was removed from the 2,000-gallon UST, and no soil was removed from the 3,000-gallon UST due to structural reasons. The 1,000-gallon UST samples were analyzed for EPH with contingent analysis for naphthalene and 2-methylnaphthalene. Final results indicated that naphthalene and 2-methylnaphthalene were below SCC. The 2,000 gallon UST samples were analyzed for EPH. Results indicated that EPH was below 1,000 ppm, therefore, no additional analysis were required. SSG did not discuss the results of from the 3,000-gallon UST.

One round of groundwater samples were collected in the area of the three tanks. Analytical results from the 1,000-gallon UST indicated that VO concentrations below GWQS and BN compounds above GWQS. BN compounds above GWQS were reported to be associated to the historic fill material in the region. An LSRP issued a RAO for the 1,000-gallon UST only. Analytical results from the 2,000-gallon UST indicated that VO concentrations were below GWQS and BN concentrations were above GWQS. As reported, "although in a region of historic fill, the 2-methylnaphthalene and phenanthrene are associated with contents of the tank". Although an RAO was issued for the 1,000-gallon UST, further investigation for the 2,000 and 3,000-gallon USTs was recommended.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Petroleum impacts to soil and groundwater have been identified as REC-43.

REC-44 Haulaway Incorporated -- 1417-1429 Adams Street, Block 121, Lots 7-13 and 18, Hoboken

Site reconnaissance confirmed that this property is currently utilized for bus parking. It was formerly developed with a light industrial/commercial building that had two former 4,000-gallon No. 2 diesel fuel USTs that were removed in 2014. According to a Tank Closure/SIR dated March 6, 2015, the tanks were not in use at the time of the removal. Field evidence of impacted subsurface conditions was identified, including stained soils underlying and immediately surrounding the tanks. The NJDEP was contacted and Case No. 14-05-27-1625-03 was assigned. Post-excavation samples were collected. It was reported that the samples were found to contain soil contaminants in excess of NJDEP SCC. The EPH concentration was reported in excess of the Residential SRS in four post-removal sidewall soil samples, and 2-methylnaphthalene was reported in excess of the Default Impact to Groundwater Soil Screening Level in two of the post-removal sidewall soil samples."

Subsequent to the tank removal activities, additional field investigations were performed on the property for "due diligence purposes related to the purchase of the Site." Groundwater samples collected from a temporary well installed within the area of the former tanks were found to contain PAHs exceeding the NJDEP GWQS. However, it was noted that these PAHs are common historic fill constituents, and attributed to the regional historic fill. It was reported, "therefore, these compounds are not suspected to be associated with the UST system or Case No. 14-05-27-1625-03, and will be addressed separately". It was also reported that VOCs in the groundwater did not exceed their NJDEP GWQS. Soil samples were also collected and it was reported that "soil investigation activities indicated concentrations of Category 1 EPH in excess of the Residential SRS throughout the parking lot. Furthermore, 2-methylnaphthalene was reported in excess of the Default Impact to Ground Water Soil Screening Level (IGWSSL) in two soil samples collected and naphthalene was reported in excess of the NJDEP SRS in one soil sample.

Work was also performed within the building itself, and found that "Category 2 EPH impacted soil beneath the northwest portion of the Site building; no VOCs were identified in this sample with concentrations in excess of NJDEP SRS. Furthermore, no VOCs were identified with concentrations in excess of NJDEP GWQS in a groundwater sample collected in this location. Further, remaining soil samples collected from beneath the Site building did not contain Category 2 EPH or VOCs with concentrations in excess of their NJDEP SRS, and groundwater samples collected from temporary well points within these soil borings did not contain VOCs in excess of their NJDEP GWQS."

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Petroleum impacts to soil and groundwater have been identified as REC-44.

REC-45 1032-1040 Grand Street, Block 150, Lot 3, Hoboken

Site reconnaissance confirmed that this property is currently utilized as a commercial property, operating as a self-storage facility. According to a Memorandum letter from the NJDEP dated October 20, 2000, "the site has always operated as a manufacturing/industrial facility. Several tenants have occupied the facility. Solvents were used by

some of the tenants in their manufacturing processes." The letter also states that chlorinated solvents have been found in groundwater samples on the site, and that it is known that "a chlorinated solvent plume is also emanating on to this site from a neighboring ISRA site, Ferguson Propeller. The Ferguson plume is a mapped CEA and is responsible for at least 10 ppb of the chlorinated problem on the 1040 Grand Street site".

According to an Engineered System Response Action Report dated June 22, 2012, the site "was occupied by a machine company and a plastic manufacturing company from at least 1937 until 1960. Later, multiple commercial and light industrial tenants occupied the Site, until 1998 when "A Space Station" gutted the building and renovated it into a self-storage facility." The report states that two 5,000-gallon No. 4 oil USTs, along with impacted soil, were removed in 1995. Groundwater samples collected in the area were found to be contaminated with chlorinated solvents. The NJDEP issued a NFA letter for Case No. 95-08-21-1608 for the UST closure. However, since chlorinated solvents were detected in a water sample taken as part of the UST system investigation, the NJDEP transferred the case to the Bureau of Field Operations (BFO) for additional investigation.

Groundwater contamination was present in two upgradient sites, specifically the Ferguson Propeller site and the Henkel Corporation site. According to the report, TCE, PCE, and vinyl chloride were detected at concentrations exceeding the NJ GWQS. Henkel reportedly manufactured chemicals for cosmetics, plastic, textiles, and adhesives". The report states that a CEA has been placed on the Ferguson site for VOCs, and that the subject property is part of the CEA boundary.

A NFA was issued in 2000 for chlorinated contaminated soil at the site loading dock. Groundwater sampling was conducted in July 2001 from four MWs located up-gradient and down-gradient of the dock, and one at the dock. All samples were analyzed for VOCs with analytical results indicating TCE and its daughter products (1,2-dichloroethylene [1,2-DCE] and vinyl chloride) as compounds of concern detected at concentrations above the NJDEP GWQS. A CEA was proposed but denied by the NDJEP since the case manager reported that "the groundwater data did not show a decreasing trend and levels of chlorinated compounds were fluctuating."

Sub-slab soil gas sampling was performed in the building using 1.0 liter SUMMA canisters. Samples were collected and analyzed for VOCs via USEPA Method TO-15 with results indicating exceedance of the NJDEP Nonresidential Soil Gas Screening level of 27 µg/m3 for TCE (379 µg/m3). Indoor Air sampling was also performed with results identifying an exceedance of the NJDEP Nonresidential Indoor Air Screening level of 3 µg/m3 for TCE (6.4 µg/m3). As a result, a VI mitigation system was installed.

A LSRP retention form, dated February 6, 2015 was also observed in the NJDEP files. No other recent documents were observed at the time of Dewberry's file review.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Chlorinated organic contamination is groundwater beneath the site has been identified as REC-45.

REC-46 Ehrlich Trucking - 700 First Street, Block 25, Lots 1, 2, 3, and 4, Hoboken

Site reconnaissance confirmed that this site is currently developed with a residential condominium building and parking garage. It was formerly operated as a trucking facility. According to a RIR Addendum dated August 2000, three 3,000-gallon leaded/unleaded USTs were removed from the site on April 2, 1997 as discussed in the RIR dated November 19, 1998. The decommissioning activities revealed lead concentrations above the applicable most stringent NJDEP SCC. Groundwater was observed in the UST excavation. PMK reported that they were retained to remove a 550-gallon heating oil tank and to perform additional SIs within the area of the three former tanks. It was also reported that staining was observed in the area of the removed tank and that post-excavation samples were collected with results indicating targeted contaminants were below the most stringent NJDEP Soil Cleanup Criteria. However, a sheen was observed on the surface of the groundwater in the UST excavation. The NJDEP was notified and Case No. 98-08-30-1215-05 was assigned to the discharge. PMK also attempted to remediate the impacts in the immediate vicinity of the former 3,000-gallon UST excavations. Subsequent to remedial activities, additional post-excavation soil samples were collected and revealed lead concentrations above the NJDEP Soil Cleanup Criteria.

A ground water investigation was also conducted with two temporary wells installed in the area of the 3,000-gallon USTs. Samples were collected and analyzed with results indicating benzene concentrations above the NJDEP GWQS. The temporary wells were replaced with one permanent MW and resampled with results indicating benzene at 14 ppb which is above the GWQS. A second round of sampling revealed a benzene concentration of 9.6 ppb above the GWQS of 1 ppb for benzene. Implementation of a CEA for benzene on the site was recommended.

Additional SIs of soil and groundwater were performed that indicated lead in soil and benzene and lead in groundwater. Therefore, no further investigations were required, but the implementation of a DN for historic fill and a CEA for benzene will be necessary. The NJDEP issued a NFA for three 3,000-gallon unleaded USTs, one 750-gallon unleaded gasoline UST, one 550-gallon diesel/unleaded gasoline tank, one 3,000-gallon leaded gasoline tank, and one 1000-gallon No. 2 fuel oil tank, and Historic Fill. The NFA was issued on March 13, 2001, along with an indeterminate CEA for historic fill. A DN was also filed on April 21, 2004 for historic fill.

Currently, the site has been submitting Remedial Action Protectiveness/Biennial Certification Forms. The most recent form observed during the NJDEP file review was signed August 1, 2015.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. Benzene impacted groundwater at the site has been identified as REC-46.

REC-47 Irving's Service Center - 701-703 First Avenue, Block 11, Lot 8, Hoboken

Site reconnaissance confirmed that the site is currently operated as Irving's Service Center and car wash (and owned by Manuel Mojica). The site was previously owned and operated by George Franke Associates. Two 3,000-

gallon leaded gasoline USTs were previously located at the site which were removed in 1991. Although a complete UST Closure Report (with all the required documentation) was not submitted to the NJDEP, post-excavation soil samples reportedly did not contain targeted compounds in excess of the NJDEP SCC. The two leaded gasoline USTs were replaced by two unleaded gasoline USTs of the same size.

George Franke Associates went bankrupt in early 1995. Manuel Mojica (the subsequent and current property owner) performed additional site assessment activities in April and May 1995 including the installation and sampling of soil borings. Results of the sampling identified a lead concentration of 469 ppm, in excess of the NJDEP SCC of 400 ppm. The NJDEP issued a directive to Mr. Mojica on November 27, 1995 requiring the delineation of the lead exceedance previously detected. Mr. Mojica reported that the lead exceedance was due to historic fill and not to the former tanks and no further investigation was required. The NJDEP issued a second directive to Mr. Mojica on March 18, 1996 requiring delineation of the lead exceedance if the chosen remedial alternative was the placement of an institutional and engineering control on the property.

To date, no additional SI or remediation activities have been reported to the NJDEP and the required tank registration documentation expired on June 30, 2013. On December 16, 2013, the NJDEP issued an ACO to Mr. Mojica requiring the submittal of updated UST registration documentation and the performance of the required SI and RI activities. On January 13, 2014, Mr. Mojica retained an LSRP to oversee the required additional SI and RI activities, however, the LSRP later dismissed himself from the case on September 12, 2014. The two 3,000-gallon leaded gasoline USTs were removed from the site on July 21, 2014. Additional documentation regarding the lead impacts to site soil was not submitted to the NJDEP.

The NJDEP issued a second ACO to Mr. Mojica on February 29, 2016 due to the absence of the required lead delineation activities at the site and the retainage of an LSRP to oversee the required SI and RI activities. No further documentation regarding SI or RI activities at the site was available during the NJDEP file review. The lead impacts identified at the site remain a REC.

Although historic fill material has not been confirmed at the site, as discussed in Section 6.0, due to its nearly ubiquitous nature throughout the City, the potential presence of historic fill material at this site is considered a REC (REC-1). Potential petroleum impacts to soil and groundwater from historic USTs have been identified as REC-47.

REC-48 Parcel R208 – NJ TRANSIT – 77 West 18th Street, Block 2, Lot 3 (Weehawken); Block 142, Lot 1; Block 143, Lot 2; Block 136, Lot 6.02 (Hoboken)

Site reconnaissance confirmed that the property is currently vacant. It formerly contained a one-story garage that was formerly operated by Vanessa Express Bus Company. NJ TRANSIT acquired the property for use as a staging area for the subsequently cancelled Access to the Regions Core (ARC) tunnel project. According to a UST Closure/SIR dated January 2013, SIs activities indicated that SVOCs, PCBs, TPH, chlorinated organics, pesticides, and metals were detected above NJDEP SRS in soil samples in an area of a former AST. PCBs were also detected in groundwater samples above NJDEP GWQS.

An 8,000-gallon diesel fuel UST was also discovered during the installation of test pits. The tank and associated piping were removed on September 20, 2012. Post-excavation soil samples were collected and analyzed for EPH with contingent analysis for SVOCs. Two samples were additionally analyzed for naphthalene and 2-methylnaphthalene, and concentrations were found to be below NJDEP's SRS. No further SI activities were recommended for the removal of the tank.

According to a RIR/RAW dated June 2016, 9 AOCs were identified on the property. Site investigation activities found that four of the AOCs required remedial activities. These AOCs include PCE identified in soil in the area of a former 250-gallon waste oil AST (AOC-2), elevated levels of PAHs, metals, and PCBs due to historic fill on the site (AOC-4), elevated levels of VOC associated with a former loading/unloading area (AOC-5), and elevated levels of benzene and chlorobenzene found in the storm sewers/floor drains (AOC-7). The consultants recommended the removal of the contaminated soils and the proper implementation of institutional and engineering controls. Remedial actions are anticipated to begin in April 2017.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The petroleum, PCB, chlorinated organic, and pesticides contamination in soil and groundwater has been identified as REC-48.

REC-49 Singer Property – 3 and 4 West 18th Street, Block 2, Lot 2; Block 143, Lot 3; Block 144, Lots 2-19; Block 145, Lots 3, 4, 10, & 11, Weehawken

Site reconnaissance confirmed that this property is currently vacant. The land was acquired by NJ TRANSIT for use as a staging area for the subsequently cancelled ARC tunnel project. According to a RE form dated February 29, 2012, the site was historically utilized by a steel company, followed by a lumber warehouse. Railroad sidings were reportedly located in the northern portion of the property and were removed by 1977. It was reported that fill material was brought on to the site in order be able to use the land.

According to the RE form, SI activities performed in 2004 and 2005 identified historic fill contaminants on the site. PCBs in soil were also identified to be above NJDEP RDCSCC and the USEPA High Occupancy Use Criteria of 10 mg/kg. Initial groundwater sampling from temporary wells found PCBs, arsenic, and lead above GWQS; however, subsequent sampling from permanent MWs only detected lead above GWQS.

According to an RIR/RAW dated June 2016, further investigation was performed on the site to address the site-wide contamination. The report indicated that the PCBs were delineated horizontally and vertically to 10 mg/kg. Groundwater samples collected from permanent wells also indicated that the groundwater on the site has been impacted by the historic fill. The consultants recommended remedial action to address the historic fill and PCBs, as well as the implementation of a CEA for historic fill on the property. The consultants predicted that the remedial actions would start in April 2017.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. PCB contamination in soil has been identified as REC-49.

REC-50 Digital Realty Trust – 300 Boulevard East, Block 34.03, Lot 11.01, Weehawken

The subject property measures 5.93 acres and is currently developed with an 118,000 square foot commercial building. According to a PAR dated August 24, 2010, the property was occupied by a coal company prior to the 1900's, and was later re-developed for a commercial printing company around 1950. The commercial printing structure was later demolished and rebuilt in the 1990s with the office/warehouse building currently present at the site. The PAR identified 18 AOCs, with 8 requiring further investigation.

According to a SIR dated April 20, 2011, 18 soil borings were drilled to a depth of 15 feet bgs in the areas of the AOCs. Soil samples were collected and analyzed for TPH, TAL/TCL+30 analysis, and hexavalent chromium. The analytical results were compared to NJDEP's RDCSRS and IGWSRS. Results indicated that TPH, VOCs (benzene and toluene), metals, and SVOCs were above SRS. Benzene, SVOCs, PCBs, and metals were also found to be above Ecological Screening Values. It was determined that the metals and SVOC contamination was attributed to the regional historic fill. Further RI activities, including a groundwater investigation, was recommended by the consultant to address the on-site contamination. No other work has been completed since the SIR.

As previously discussed in Section 6.0, historic fill material (REC-1) is nearly ubiquitous throughout the City and Study Area and has been confirmed to be present at this site. The unknown status of the identified TPH, VOC, and PCB contamination in soil has been identified as REC-50.

7.0 IMPACT ANALYSIS, MITIGATION and BEST MANAGEMENT PRACTICES

The following sections describe the RECs that may be impacted by each of the Build Alternatives, based on historical information/data reviewed, the results of the Study Area reconnaissance, and the location of the proposed improvements in relation to the RECs. The RECs were identified independently from the alternatives so they are not numbered sequentially for any of the three alternatives. Table 7-1, below, provides a summary of the RECs potentially affected by each alternative. Table 7-2 in the Tables Section provides the summary with detailed location information.

Table 7-1

Summary of Findings

SITE ID		IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE (RESIST ONLY)	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE (RESIST ONLY)	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE (RESIST ONLY)
REC-1	Historic Fill	X	X	X	X
REC-2	Current/Historic Rail Use	X	X	X	X
REC-3	Hudson River Sediments		X	X	X
REC-4A	NJDOT/NJ TRANSIT Rail Yard	X	X	X	X
REC-4B					
REC-4C					
REC-5	Observer Highway Development	X	X*	X*	X*
REC-6	Former Maxwell House Coffee	X^	X	X	X

SITE ID		IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE (RESIST ONLY)	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE (RESIST ONLY)	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE (RESIST ONLY)
REC-7	Union Dry Dock & Repair Company		X		
REC-8	Dell Aquilla Site (aka Hoboken Cove)	X	X	X	X
REC-9	SGS US Testing	X^		X	X
REC-10	Hoboken/ Weehawken Cove (aka Old Todd Shipyard)	X	X	X	X
REC-11	R. Neumann & Co.	X	X*	X*	X*
REC-12	Millenium Towers (aka Lifschultz Fast Freight)		X	X	X
REC-13A	Former Cocheo Brothers	X	X	X	X
REC-13B					
REC-14	Hoboken DPW	X	X*	X*	X*
REC-15A	International Bus Service and Burlington Coat Factory	X	X	X	X
REC-15B					

SITE ID		IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE (RESIST ONLY)	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE (RESIST ONLY)	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE (RESIST ONLY)
REC-16	Hoboken Service Center/ Amoco Station			X*	X*
REC-17	Former Service Station	X^		X	X
REC-18	Cognis Corporation	X	X	X	X
REC-19	Poggi Press	X	X	X	X
REC-20	American Eagle Magnesium and Aluminum Corp.	X	X	X	X
REC-21	Tarragon Corp.	X	X	X	X
REC-22	Atlantic Steamers Supply Co.	X	X	X	X
REC-23	Tarragon Corp.	X	X	X	X
REC-24	1405 Clinton Street	X	X	X	X
REC-25	Former Ferguson Propeller, Inc.	X	X	X	X
REC-26	Hoboken Coal Gas; Cumberland Farms/Gulf Station	X	X	X	X
REC-27	PSE&G Vault Expansion Project	X	X	X	X
REC-28	5-15 Church Towers	X	X	X	X

SITE ID		IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE (RESIST ONLY)	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE (RESIST ONLY)	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE (RESIST ONLY)
REC-29	Demerest School	X	X	X	X
REC-30	Harrison Realty Associates	X	X	X	X
REC-31	Grand Street Condominiums	X	X	X	X
REC-32	Grand Adams Apartments	X	X	X	X
REC-33	Grand Street Mercury	X	X	X	X
REC-34	Triboro Hardware	X	X	X	X
REC-35	Interboro Recycling	X	X	X	X
REC-36	1100-1114 Madison Street & 1101-1113 Monroe Street	X	X	X	X
REC-37	Universal Folding Box Co.	X	X	X	X
REC-38	Levelor Lorentzen, Inc.	X	X	X	X
REC-39	301 Newark Street	X	X	X	X
REC-40	Metro Web Corporation	X	X	X	X

SITE ID		IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE (RESIST ONLY)	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE (RESIST ONLY)	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE (RESIST ONLY)
REC-41	Albee Services	X	X	X	X
REC-42	LMT Steel Products, Inc.	X	X	X	X
REC-43	Jefferson Street Properties	X	X	X	X
REC-44	Haulaway Inc.	X	X	X	X
REC-45	1032-1040 Grand Street	X	X	X	X
REC-46	Ehrlich Trucking	X	X	X	X
REC-47	Irving's Service Center	X	X	X	X
REC-48	Parcel R208 - NJ TRANSIT	X	X	X	X
REC-49	Singer Property	X	X	X	X
REC-50	Digital Realty Trust			X	X

* Applies to Option 2 only

^ Applies to Alternatives 2 and 3 only

Source: Dewberry, 2015-2017

In the sections below, impacts are divided into Resist impacts and DSD impacts for each alternative. Within the Resist sections, Study Area-wide impacts are discussed, followed by impacts in the northern and southern sections of proposed Resist features. Within the DSD discussion, impacts are further subdivided into northern (north of 9th Street), central (between 9th street and 2nd Street) and southern (south of 2nd Street) portions of the Study Area.

7.1 Alternative 1

For the Alternative 1 Resist features, Option 1 has the potential to impact 10 RECs and would require the off-site disposal of 150,993 tons of contaminated soil, while Option 2 has the potential to impact 13 RECs and would require the off-site disposal of approximately 150,265 tons of contaminated soil. Construction of the DSD features has the potential to impact 42 RECs. Alternative 1 RECs are discussed below in Sections 7.1.1 and 7.1.2, and shown on Figure 13.

7.1.1 Resist

The following RECs are located within 100 feet of the Resist features of Alternative 1 and may be impacted by the potential construction activities:

- Historic Fill Material, Study Area-wide (REC-1)
- Current/Historic Rail Use, Various Locations (REC-2)
- Hudson River Sediments (REC-3)
- NJDOT/NJ TRANSIT Rail Yard, Hoboken and Jersey City (REC-4)
- Observer Highway Development, 50 Bloomfield Street and 51 Garden Street, Hoboken (REC-5)
- Former Maxwell House Coffee, 1101-1125 Hudson Street, Hoboken (REC-6)
- Union Dry Dock and Repair Company, 901 Sinatra Drive, Hoboken (REC-7)
- Dell Aquilla Site (a.k.a., Hoboken Cove), 1500 Hudson Street, Hoboken (REC- 8)
- Hoboken/Weehawken Cove (a.k.a., Old Todd Shipyard), 1501 Park Avenue, Hoboken (REC- 10)
- R. Neumann and Co., 300 Observer Highway, Hoboken (REC-11)
- Millennium Towers (a.k.a., Lifschultz Fast Freight), 677 Grove Street and 850 Jersey Avenue, Jersey City (REC-12)
- Hoboken Department of Public Works (DPW), 256 Observer Highway (REC-14)
- International Bus Service/Burlington Coat Factory, 1501-1507 Clinton Street and 1502-1530 Willow Avenue, Hoboken (REC- 15)

Due to the nearly ubiquitous nature of historic fill material (REC-1) in this area, there is a high likelihood of encountering fill material during construction associated with Alternative 1. In fact, the entire Study Area may be assumed to contain historic fill. Historic fill material deposited in the Study Area has been found to contain concentrations of SVOCs and metals above NJDEP SRS. Historic fill is regulated material and therefore, must be reused or disposed of in accordance with all local and State regulations and guidelines.

There is a high likelihood of exposing railroad related contamination (REC-2) during construction activities associated with Alternative 1. Historically, rail lines were present along the waterfront in Weehawken and northern Hoboken, adjacent to and coincident with the proposed Resist structure, from the northernmost extent of the structure, south to the Tea Building. Historic and current rail use also dominates the southern portion of Hoboken

and northern Jersey City. The NJ TRANSIT rail yard (REC-4) and associated tracks extending to the west are coincident with Resist features proposed along the southern side of Hoboken. Soil sampling in the 1980s and 1990s identified volatile organic, pesticide, PCB, SVOC, and metal contamination. PAHs and metals have also contaminated the groundwater. A 300,000-gallon diesel AST was located at the southeast corner of Marin Boulevard and 18th street until 2006. While this location is outside of the Study Area, remediation from a documented spill is still on-going and there is the potential for additional groundwater contamination from this source to become exposed during construction. Railroad related contamination could also be exposed due to construction at the proposed gates at Marin Boulevard, Grove Street and Jersey Avenue, as well as proposed work where the HBLR tracks pass under the NJ TRANSIT overpass in the southwest corner of the Study Area. Finally, the HBLR tracks run along the western edge of the Study Area, adjacent to work proposed at the Housing Authority and BASF properties. There is the potential to expose soils with elevated concentrations of pesticides, PCBs, creosote, heavy metals, DRO, and other petroleum and solvent-related contaminants during excavation in the above-described areas.

Alternative 1 locates the Resist structures primarily along the waterfront. During construction, there is a risk of excavating PCB-contaminated sediments in the Hudson River (REC-3). The Hudson River PCB Superfund Site includes 200 miles of the river from northeastern New York to the Atlantic Ocean. It is unknown whether PCB-impacted sediments are located in the portion of the river adjacent to the proposed construction. In addition, a plume of coal tar creosote from the Quanta resources site in Edgewater reportedly extends into the Hudson River, north of the proposed project. The Quanta site itself is contaminated with PCBs as well. Because sediment excavation is anticipated for this alternative, there is potential to encounter Hudson River bottom sediment with elevated levels of PCBs or other contamination discharged from industrial activities along the shore. Any sediment removed would need to be disposed in accordance with all applicable regulations.

Area of Southern Resist Features

Soils contaminated with PHC and lead remain at the Observer Highway Development site (REC-5). The proposed Option 2 Resist feature is across Observer Highway from REC-5, and may expose these soils during construction, as well as contamination from railroad related operations.

There are confirmed soil and groundwater impacts from diesel fuel at the R. Neumann property (REC-11). Although no off-site groundwater contamination is currently suspected or confirmed, there is a possibility of exposing contaminated groundwater during construction for the Resist feature across Observer Highway.

The Hoboken DPW site (REC-14) has a CEA established at the site for concentrations of lead and benzo(a)anthracene exceeding the GWQS. As the Option 2 Resist feature is located across the street from this site, there is a potential for exposing contaminated groundwater related to the site during construction of Option 2. In addition, there may be regional groundwater contamination from industrial properties in this area. Any contaminated water generated during dewatering will be transported off-site for treatment and disposal, as discussed under Conceptual Mitigation, below.

The Resist structure in the southwest corner of the Study Area passes within 100 feet of the northern edge of Millennium Towers (a.k.a., Former Lifschultz Fast Freight) property (REC-12). Based on past site usage as a railroad, slaughter house, lumber yard, poultry shed, truck repair garage, and truck trailer parking area, there is the potential to expose soil and/or groundwater contamination including elevated concentrations of volatiles, semi-volatiles, metals and PCBs during construction of the Resist structure.

Area of Northern Resist Features

The proposed waterfront Resist structure for Alternative 1 passes through the Maxwell House property (REC-6). Chlorinated solvents remain in groundwater beneath the site. Therefore, there is the potential to expose contaminated groundwater during the construction at that location. An easement is currently proposed at REC-6. Immediately to the south of Maxwell House is the Union Dry Dock (REC-7), where PAH, TCE, naphthalene and metals contamination exists in soil and groundwater. The status of the impacts is unknown. Although the proposed Resist structure ends at the northernmost end of the Union Dry Dock site, there is the potential for exposing the soil and/or groundwater contamination from this source during construction.

The proposed waterfront Resist structure that skirts Weehawken Cove passes along the edge of the Dell Aquilla property (currently known as the Tea Building) (REC-8) and encircles the Weehawken Cove property (a.k.a., Old Todd Shipyard) (REC-10). Although the Dell Aquilla property has been capped, and a DN filed, there is residual petroleum contamination associated with former USTs at the site. If construction requires the cap to be removed or pierced, there is the potential for exposing soils contaminated with petroleum-related compounds. An easement is currently proposed at REC-8. At the Weehawken Cove property, soil contamination including TPH/PAH, BNs, PCBs and metals, and groundwater contamination including free product, lead, BTEX and BNs/PAHs remains from leaking USTs and ASTs. A DN and CEA are in place, but there is the potential to expose soil and groundwater contamination at this site during construction.

Inland from Weehawken Cove are the International Bus Service, Inc. and Burlington Coat Factory sites (REC-15). A CEA is in place for LNAPL, benzene, PAHs, naphthalene and lead, that extends off-site to the east and west. There is the potential for contaminated groundwater to have migrated toward Weehawken Cove and beneath the proposed Resist feature.

7.1.2 Delay, Store, Discharge

The following RECs are located within 100 feet of the DSD features of Alternative 1 and may be impacted by the potential construction activities:

- Former Cocheo Brothers, 1801-1831 Willow Avenue, Weehawken (REC-13)
- BASF (a.k.a., Henkel Corp. / Cognis Corporation), 12th Street, Hoboken (REC-18)
- Poggi Press, 1501-1531 Adams Street, Hoboken (REC-19)

- American Eagle Magnesium and Aluminum Corp., 1316 Adams Street, Hoboken (REC-20)
- Tarragon Corp., 1024-1030 Adams Street, Hoboken (REC-23)
- Atlantic Steamers Supply Co., 1100-1118 Adams Street, Hoboken (REC-22)
- Tarragon Corp., 1101-1111 Madison Street and 1100-1110 Jefferson Street, Hoboken (REC -23)
- 1405 Clinton Street, Hoboken (REC-24)
- Former Ferguson Propeller, Inc., 1132 Clinton Street, Hoboken (REC-25)
- Hoboken Coal Gas and Cumberland Farms/Gulf Station, 1200 Clinton Street and 1316-1330 Willow Avenue, Hoboken (REC- 26)
- PSE&G Vault Expansion Project, In front of 1331 Grand Street, Hoboken (REC-27)
- 5-15 Church Towers, Hoboken (REC-28)
- Demerest School, 400-414 Bloomfield Street, Hoboken (REC-29)
- Harrison Realty Associates, 600 Harrison Street, Hoboken (REC-30)
- Grand Street Condominiums, 1200 Grand Street, Hoboken (REC-31)
- Grand Adams Apartments, 300 Grand Street, Hoboken (REC- 32)
- Grand Street Mercury, 720-732 Grand Street, Hoboken (REC-33)
- Triboro Hardware, 812 Grand Street, Hoboken (REC-34)
- Interboro Recycling, 1001-1015 and 1114 Madison Street, 1000-1002 and 1024-1030 Jefferson Street, Hoboken (REC-35)
- 1100-1114 Madison Street and 1101-1113 Monroe Street, Hoboken (REC-36)
- Universal Folding Box Co., Madison Street and 13th Street, Hoboken (REC-37)
- Levelor Lorentzen, Inc., 700-720 Monroe Street, Hoboken (REC-38)
- 301 Newark Street, Hoboken (REC-39)
- Metro Web Corporation, 1420-1424 Willow Avenue and 1427 Clinton Street, Hoboken (REC -40)
- Albee Services, 410 8th Street, Hoboken (REC-41)
- LMT Steel Products, Inc., 551 11th Street, Hoboken (REC-42)
- Jefferson Street Properties, 1515-1530 Jefferson Street, Hoboken (REC-43)
- Haulaway, Inc., 1417-1429 Adams Street, Hoboken (REC-44)
- 1032-1040 Grand Street, Hoboken (REC-45)
- Ehrlich Trucking, 700 First Street, Hoboken (REC-46)
- Irving's Service Center, 701-703 First Avenue, Hoboken (REC-47)
- Parcel R208 – NJ TRANSIT, 77 West 18th Street, Hoboken (REC-48)
- Singer Property, 3 and 4 West 18th Street, Hoboken (REC -49)

RECs Nos. 1, 2, 4, 5, 8, 10, 11, 14, and 15 are also located within 100 feet of the DSD features of Alternative 1, but have been described previously under Section 7.1.1.

Area of Northern DSD Features

Table 7-3 lists the storage tanks that are proposed in the northern portion of the Study Area, north of 9th Street.

Table 7-3

Storage Tanks Proposed in the Northern Portion of the Study Area

TANK ID	TANK LENGTH (FEET)	TANK DIAMETER (FEET)	TANK TYPE	ADDRESS
T10-MAD	10	5	Green-Grey Tank	900 Madison Street
T11-MAD	10	5	Green-Grey Tank	900 Madison Street
T2-MON	11	5	Green-Grey Tank	900 Madison Street
T3-ADM	20	5	Green-Grey Tank	1020 Adams Street
T5-JEF	15	5	Green-Grey Tank	1000 Jefferson Street
T6-JEF	20	5	Green-Grey Tank	917-1105 Jefferson Street
T8-MAD	11	5	Green-Grey Tank	1000 Madison Street
T9-MAD	16	5	Green-Grey Tank	900 Madison Street
TD12-13ST	18	5	Green-Grey Tank	311 13th Street
TD25-WIL	16	5	Green-Grey Tank	1520 Willow Avenue
TD31-CLA	12	5	Green-Grey Tank	1132 12th Street

Source: Dewberry, 2015-2017

A discharge pipeline passes across the Weehawken Cove property (a.k.a., Old Todd Shipyard) (REC-10) to the river. Soil contamination including TPH/PAH, BNs, PCBs and metals, and groundwater contamination including free product, lead, BTEX and BNs/PAHs remains from leaking USTs and ASTs at this site. A DN and CEA are in place, but there is the potential to expose soil and groundwater contamination from this site during construction of the discharge pipeline.

A discharge pipeline also passes adjacent to the Former Cocheo Brothers Inc. (REC-13). Based on potential petroleum contamination from a former 2,000-gallon fuel oil UST, and benzene, MTBE and TBA impacts to groundwater, there is the potential to expose contaminated groundwater during the construction of the pipeline adjacent to the Former Cocheo Brothers Inc. site.

Inland from Weehawken Cove are the International Bus Service, Inc. and Burlington Coat Factory sites (REC-15). Discharge pipeline construction proposed along Clinton Street and Grand Street between 15th and 16th Streets may impact diesel fuel contamination released from a UST at the bus company. A CEA is in place for LNAPL, benzene, PAHs, naphthalene and lead, that extends off-site to the east and west, where the pipelines are proposed. Similarly, installation of the discharge pipeline proposed along Clinton Street between 15th and 16th Streets, and tank TD-25WIL proposed near the intersection of Willow Avenue and 16th Street, may impact possible contamination from a 10,000-gallon UST of unknown contents or status at the coat factory.

In the northwest portion of Hoboken, delay and storage features are proposed to alleviate flooding due to topographic low points and catchment area. The six-acre BASF property (REC-18) is proposed to be developed into Northwest Park, a green park space with an underground water storage/holding tank. A new pump and outfall would be linked to this site to assist in discharge of storm water from the catchment area. Piping is proposed on various streets surrounding the BASF property to collect and transport storm water. BASF is a former industrial site with confirmed volatile organic contamination in groundwater and potential VI migrating off-site to adjacent properties. Although the BASF site is currently paved and impermeable, it will be excavated during construction. There is the potential to expose historic fill and volatile organic-contaminated soil and groundwater during construction at the site.

In addition, there are multiple contaminated sites adjacent to the proposed pipelines associated with the proposed Northwest Park. Poggi Press (REC-19) is located between Grand and Adams Streets, under which pipelines are proposed. The status of a discharge from a 4,000-gallon gasoline UST is unknown and there could be soil and groundwater contamination remaining at the site, and possibly migrated offsite to the proposed construction areas. Haulaway, Inc. (REC-44) is also located between Grand and Adams Streets, south of REC-19. This site has reported concentrations of EPH and naphthalene in soil above the residential SRS and 2-methylnaphthalene in excess of the IGWSSL. This contamination could be encountered during pipeline installation along streets. At the intersection of 15th and Grand Streets, PSE&G attempted to install a vault and found free-phase petroleum product in 2013 (REC-27). The contamination was attributed to a diesel fuel release from International Bus Service, Inc. and Burlington Coat Factory sites (REC-15). American Eagle Magnesium and Aluminum Corp. (REC-20) and 1405 Clinton Street (REC-31) are located south of REC- 44 between Grand and Adams Streets. The status of petroleum contamination from a former AST at American Eagle is unknown. The site at 1405 Clinton Street has reportedly been impacted by offsite contamination from numerous upgradient contaminated sites. The Hoboken Coal Gas Site (REC-26) is located between Clinton and Grand Streets from 12th to 13th Streets. Petroleum and MGP impacted soil and groundwater remaining at the site may be exposed during construction for the proposed pipeline along Grand and 13th Streets, as well as for tanks proposed near the corners of Clinton and 13th Streets (TD12-13ST), and Clinton and 12th Streets (TD-31CLA) if the contamination has migrated. Previous sampling indicated that some soils were classified as hazardous due to the high concentration of leachable lead.

Former Ferguson Propeller, Inc. (REC-25) is located between Clinton and Adams Streets, between 11th and 12th Streets, adjacent to the BASF site (REC-18) and proposed associated pipelines. There are also two tanks proposed in the vicinity, near the corner of Clinton and 12th Streets (TD-31CLA), and on Adams Street south of the Ferguson site (T3-ADM). A conditional NFA letter has been issued for the Ferguson site, but metals and volatile organics including chlorinated organics remain in groundwater at elevated concentrations. It has been reported that the contaminated groundwater has migrated offsite. For instance, 1032-1040 Grand Street (REC-45) is located just south of the Ferguson property and NJDEP correspondence indicates that the Ferguson plume of chlorinated-contaminated water has migrated beneath the 1032-1040 Grand Street property. The TCE, PCE and vinyl chloride found in groundwater at the site may also be migrating from the BASF property as well. Proposed improvements including the pipelines along Grand and Adams Streets, as well as a tank proposed to the west on Adams Street (T3-ADM), may expose the chlorinated solvent-impacted groundwater in this area. Tarragon Corp. (REC-21) located

immediately west of REC-45, also reports chlorinated solvents in groundwater that migrated from Ferguson Propeller, as well as PCB contamination remaining with institutional and engineering controls. During excavation for the tank proposed on the southeast corner of Tarragon Corp. (T3-ADM), there is the potential for soils contaminated with PCBs and groundwater contaminated with chlorinated solvents.

Atlantic Steamers Supply Company (REC-22) is located between Adams and Jefferson Streets, south of the BASF site. Residual PCB contamination may be impacted by excavation for pipeline immediately adjacent to the site and a tank at the corner of 11th and Jefferson Streets (T5-JEF). Similarly, Tarragon Corp. (REC- 23), located one block west of REC-22 and south of BASF, has a DN for residual PCB contamination reportedly attributed to migration from BASF. The PCB contamination in this area could be impacted by excavation for BASF-related improvements south of 12th Street.

Interboro Recycling (REC-35) is located south of 11th Street between Jefferson and Madison Streets. There is a DN for soils at the site for TPHC due to petroleum contamination, and a CEA is in place for lead and arsenic in groundwater. During excavation for the two tanks proposed at 11th and Madison Streets (T8-MAD and T9-MAD), and one tank at 11th and Jefferson Streets (T5-JEF), contaminated groundwater may be exposed. LMT Steel Products, Inc. (REC-42) is located south of 11th Street, between Monroe and Madison Streets. PCB contamination was reported in soils and there is the possibility for unknown site contaminants from prior site operations as a steel manufacturer. Therefore, there is a potential to encounter contamination during construction of the four proposed tanks along Madison Street (T8-MAD, T9-MAD, T10-MAD and T11-MAD), adjacent to the property, and the one proposed tank along Monroe Street on the western side of the property (T2-MON). The property at 1100-1114 Madison Street and 1101-1113 Monroe Street (REC-36) also contains soil contaminated with residual PCBs and lead, after remediation including the removal of soils with hazardous concentrations of lead.

Residual petroleum-based impacts to both soil and groundwater from former heating oil USTs at Universal Folding Box Company (REC-37) have the potential to be impacted by proposed pipelines along Madison Street between 12th and 14th Streets. Similarly, petroleum impacts to soil and groundwater at Jefferson Street Properties (REC-43) may be exposed during excavation for the pipeline along Jefferson Street north of 15th Street. Contamination from these RECs may also be impacted by the proposed installation of pipeline along the HBLR.

The installation of pipeline along Clinton Street between 13th and 15th Streets may expose contamination from several sources, including petroleum-related contamination from former USTs at Metro Web Corporation (REC-40). Contamination from Metro Web and other off-site sources such as Hoboken Gas Works and Cumberland Farms/Gulf Station (REC-26) is suspected to have migrated to 1405 Clinton Street (REC-24), where a DN and CEA are in place. The Cumberland Farms/Gulf Station site (REC-26) has soil and groundwater petroleum contamination related to retail gasoline operations that is suspected to have migrated off site. This site was formerly a MGP and the soil and groundwater are contaminated with VOCs, PAHs and metals.

The proposed pump station located in the northwest corner of the Study Area, south of West 18th Street, as well as the proposed pipeline along the HBLR, are in close proximity to Parcel R208 – NJ TRANSIT (REC-48) and the

Singer Property (REC-49). The NJ TRANSIT site is a former bus garage and construction staging area with SVOCs, PCBs, TPH, chlorinated organics, pesticides, and metals above NJDEP SRS in soil samples in an area of a former AST. PCBs were also detected in groundwater samples above NJDEP GWQS. PCB contamination was also identified in soils at the Singer Property. Therefore, there is a potential to expose soil and groundwater contamination during the construction of the proposed pump station.

Area of Central DSD Features

Table 7-4 lists the storage tanks that are proposed in the central portion of the Study Area.

Table 7-4
Storage Tanks Proposed in the Central Portion of the Study Area

TANK ID	TANK LENGTH (FEET)	TANK DIAMETER (FEET)	TANK TYPE	ADDRESS
T15-MAD	20	5	Green-Grey Tank	514 Madison Street
T16-MAD	13	5	Green-Grey Tank	502 Madison Street
T1-6ST	16	5	Green-Grey Tank	601 Grand Street
T1-7ST	20	5	Green-Grey Tank	7th and Monroe Streets
T1-GAR	20	5	Grey Tank	4th and Garden Streets
T1-HAR	11	5	Green-Grey Tank	600 Jackson Street
T2-4ST	14	5	Green-Grey Tank	308 Willow Avenue
T2-5ST	17	5	Green-Grey Tank	423 5th Street
T2-6ST	20	5	Green-Grey Tank	530 Jefferson Street
T2-7ST	20	5	Green-Grey Tank	600 Jackson Street
T2-BLM	15	5	Green-Grey Tank	4th and Bloomfield Streets
T2-JAC	10	5	Green-Grey Tank	600 Jackson Street
T3-3ST	16	5	Green-Grey Tank	232 Jefferson Street
T3-4ST	15	5	Grey Tank	332 Adams Street
T3-6ST	15	5	Green-Grey Tank	600 Jefferson Street
T3-GND	10	5	Green-Grey Tank	812 Grand Street
T3-JAC	20	5	Grey Tank	6th and Jackson Streets
T4-4ST	18	5	Green-Grey Tank	332 4th Street
T4-5ST	20	5	Green-Grey Tank	501 Madison Street
T4-6ST	20	4	Grey Tank	600 Monroe Street
T4-GND	20	5	Green-Grey Tank	351 8th Street

TANK ID	TANK LENGTH (FEET)	TANK DIAMETER (FEET)	TANK TYPE	ADDRESS
T5-5ST	20	4	Grey Tank	423 Jackson Street
T5-9ST	16	5	Green-Grey Tank	402 9th Street
T5-GND	20	5	Green-Grey Tank	632 Grand Street
T5-JAC	20	5	Grey Tank	400 Jackson Street
T6-4ST	17	5	Green-Grey Tank	400 Harrison Street
T6-5ST	20	5	Curb Bumpout Tank	500 Monroe Street
T6-ADM	12	5	Green-Grey Tank	410 8th Street
T6-GND	15	5	Green-Grey Tank	536 Grand Street
T6-MON	20	5	Curb Bumpout Tank	700 Monroe Street
T7-5ST	12	5	Grey Tank	636 Fifth Street
T7-JEF	20	5	Green-Grey Tank	228 Jefferson Street
T7-MON	20	5	Green-Grey Tank	701 Monroe Street
T8-ADM	17	5	Green-Grey Tank	501 Adams Street
T9-ADM	20	5	Green-Grey Tank	300 Adams Street
TD14-CLA	20	5	Green-Grey Tank	411 Clinton Street
TD1-4ST	12	5	Green-Grey Tank	308 Willow Avenue
TD1-WIL	20	5	Green-Grey Tank	400 Willow Avenue
TD23-CLA	18	5	Green-Grey Tank	527 Clinton Street
TD30-CLA	18	5	Green-Grey Tank	807 Clinton Street
TD6-WIL	20	5	Green-Grey Tank	422 Willow Avenue

Source: Dewberry, 2015-2017

There are two tanks proposed at the corner of Grand and 6th Streets (T6-GND and T1-6ST), one tank (TD23-CLA) at the corner of Clinton and 6th Streets, and three more proposed at the corner of Clinton and 4th Streets (T2-4ST, TD14-CLA, and TD1-4ST). These tanks have the potential to impact contamination at the 5-15 Church Towers site (REC-28). Free product was observed onsite related to two former 15,000-gallon heating oil tanks. Soil and groundwater are impacted by petroleum contamination, including benzene. Two additional tanks (T1-GAR and T2-BLM) are proposed on 4th Street at Garden and Bloomfield Streets, respectively. Construction for the installation of these tanks may impact the Demerest School site (REC-29), which has petroleum impacts to soil and groundwater from leaking USTs. There may also be a 1,000-gallon UST remaining beneath the sidewalk by the parking area entrance off of Bloomfield Street.

Harrison Realty Associates (REC-30) is adjacent to the HBLR, along which a pipeline is proposed, a tank proposed at 6th and Harrison Streets (T1-HAR), and work proposed at the Hoboken Housing Development. Free product was

discovered at Harrison Realty Associates in 2012. The LNAPL appeared to be hydraulic fluid and lubricating oil from the property's former use as an auto junk yard. Although product recovery was conducted and there did not appear to be offsite migration, the close proximity of proposed DSD features means there is the potential to expose contamination during construction.

TPHC and benzene contamination is present in soils at the Grand Adams Apartments (REC-32). Although the soil has been capped, a DN in place, and a conditional NFA issued, the contamination could be exposed during the installation of the proposed tank at Adams and 3rd Streets (T9-ADM), which is immediately adjacent to the Grand Arms Apartments.

Grand Street Mercury (REC-33), a former Superfund Site, is located in close proximity to tanks proposed at Grand and 8th Streets (T4-GND), and at Adams and 8th Streets (T6-ADM). The site was heavily contaminated by mercury, including below the water table. Although remediation was conducted, there is the potential to find residual mercury in soils and groundwater in the vicinity. Albee Services (REC-41), located across 8th Street from Grand Street Mercury, has reported lead and mercury remaining in site soils. It is possible that the mercury has migrated from Grand Street Mercury to Albee and therefore may have contaminated the proposed location of tank T6-ADM.

Triboro Hardware (REC-34) has documented VOCs in groundwater exceeding GWQS. The contamination is attributed to an offsite source. There is the potential to expose contaminated groundwater during the installation of tanks proposed at the corner of 9th and Grand Streets (T5-9ST), and along Grand Street between 8th and 9th Streets (T3-GND and T4-GND).

Three tanks proposed at Monroe and 7th Streets (T6-MON, T7-MON, and T1-7ST) and two tanks proposed at Jackson and 7th Streets (T2-JAC and T2-7ST), as well as a pipeline proposed along the HBLR, are all within close proximity to Levelor Lorentzen, Inc. (REC-38). This former manufacturing site had leaks from No. 6 heating oil USTs and a TCE storage area. Residual volatile, semi-volatile, metals and PCB impacts to soil, and residual chlorinated organic impacts to groundwater, may remain and have the potential to be exposed during construction in the area.

Area of Southern DSD Features

Table 7-5 lists the storage tanks that are proposed in the southern portion of the Study Area.

Table 7-5

Storage Tanks Proposed in the Southern Portion of the Study Area

TANK ID	TANK LENGTH (FEET)	TANK DIAMETER (FEET)	TANK TYPE	ADDRESS
T1-NEW	20	5	Green-Grey Tank	77 Willow Avenue
T2-2ST	16	5	Green-Grey Tank	133 Jackson Street
T3-OBS	20	5	Green-Grey Tank	417 Newark Street

TANK ID	TANK LENGTH (FEET)	TANK DIAMETER (FEET)	TANK TYPE	ADDRESS
T5-OBS	20	5	Grey Tank	550 Observer Highway
T6-NEW	20	5	Grey Tank	Newark Ave and Monroe Street
T7-OBS	20	5	Grey Tank	Observer Highway and Jackson Street
T8-JEF	20	5	Green-Grey Tank	111 Jefferson Street
TD4-OBS	20	5	Green-Grey Tank	256 Observer Highway
TD8-GAR	11	5	Green-Grey Tank	77 Park Avenue

Source: Dewberry, 2015-2017

Soils contaminated with petroleum hydrocarbons (PHC) and lead remain at the Observer Highway Development site (REC-5). Although the site is capped and a DN is in place, there is a possibility of encountering contaminated soil during construction for the proposed tank on Garden Street, between Observer Highway and Newark Street (TD8-GAR).

During installation of tanks proposed at Willow Avenue and Newark Street (T1-NEW), and at Willow Avenue and Observer Highway (TD4-OBS), there is the potential for exposing contaminated groundwater related to the Hoboken DPW site (REC-14). A CEA has been established at the DPW site for concentrations of lead and benzo(a)anthracene exceeding the GWQS. In addition, there may be regional groundwater contamination from industrial properties in this area.

There are confirmed soil and groundwater impacts from diesel fuel at the R. Neumann property (REC-11). Although no off-site groundwater contamination is currently suspected or confirmed, there is a possibility of exposing contaminated groundwater during construction for the tank proposed immediately adjacent to the R. Neumann property, on Observer Highway, east of the intersection with Newark Avenue (T3-OBS). The proposed tank may also impact the Hoboken Service Center Inc. /Amoco Station (REC-16). This site has reported volatile organic contamination including chlorinated organics, in both soil and groundwater. Northeast of the R. Neumann property (REC-11) is a former auto body repair shop referred to as 301 Newark Street (REC-39). Free product identified as No. 4 heating oil was observed onsite at 301 Newark Street. The contamination is attributed to the R. Neumann site as the auto body shop did not store No. 4 heating oil. Because the plume appears to be migrating northward, there is the potential to expose petroleum contamination during construction for the proposed tank at Newark Street and Willow Avenue (T1-NEW).

Ehrlich Trucking (REC-46) is located just south of the Hoboken Housing Authority and east of the proposed pipeline along the HBLR. Benzene contamination remains in groundwater at Ehrlich Trucking due to former leaking gasoline USTs. There is the potential for petroleum impacted groundwater to be exposed during construction of DSD features in the vicinity.

Irving's Service Center (REC-47) is across Paterson Avenue from the Block 10 proposed improvements. Elevated concentrations of lead due to former leaded gasoline USTs remain in the soil at the site. There was no indication that delineation of the exceedances or groundwater sampling had been conducted in accordance with NJDEP ACOs. Therefore, the potential exists for lead or other petroleum-related contamination to migrate via groundwater to the Block 10 site and be exposed during construction.

7.2 Alternative 2

For the Alternative 2 Resist features, Option 1 has the potential to impact 13 RECs and would require the off-site disposal of 138,450 tons of contaminated soil, while Option 2 has the potential to impact 17 RECs and would require the off-site disposal of approximately 138,139 tons of contaminated soil. Construction of the DSD features has the potential to impact 42 RECs. Alternative 2 RECs are discussed below in Sections 7.2.1 and 7.2.2, and shown on Figure 14.

7.2.1 Resist

The following RECs may be impacted by the potential construction activities associated with the Resist features of Alternative 2:

- Historic Fill Material, Study Area-wide (REC-1)
- Current/Historic Rail Use, Various Locations (REC-2)
- Hudson River Sediments (REC-3)
- NJDOT/NJ TRANSIT Rail Yard, Hoboken and Jersey City (REC-4)
- Observer Highway Development, 50 Bloomfield Street and 51 Garden Street, Hoboken (REC-5)
- Former Maxwell House Coffee, 1101-1125 Hudson Street, Hoboken (REC-6)
- Dell Aquilla Site (a.k.a., Hoboken Cove), 1500 Hudson Street, Hoboken (REC-8)
- SGS US Testing, 1409-1427 Park Avenue, Hoboken (REC- 9)
- Hoboken/Weehawken Cove (a.k.a., Old Todd Shipyard), 1501 Park Avenue, Hoboken (REC-10)
- R. Neumann and Co., 300 Observer Highway, Hoboken (REC-11)
- Millennium Towers (a.k.a., Lifschultz Fast Freight), 677 Grove Street and 850 Jersey Avenue, Jersey City (REC-12)
- Former Cocheo Brothers, 1801-1831 Willow Avenue, Weehawken (REC-13)
- Hoboken DPW, 256 Observer Highway (REC- 14)
- International Bus Service/Burlington Coat Factory, 1501-1507 Clinton Street and 1502-1530 Willow Avenue, Hoboken (REC-15)
- Hoboken Service Center/Amoco Station, 425 Newark Street, Hoboken (REC-16)
- Former Service Station, 150 14th Street, Hoboken (REC-17)
- Digital Realty Trust, 300 Boulevard East, Weehawken (REC-50)

Due to the nearly ubiquitous nature of historic fill material (REC-1) in this area, there is a high likelihood of exposing fill material during construction associated with Alternative 2. In fact, the entire Study Area may be assumed to contain historic fill. Historic fill material deposited in the Study Area has been found to contain concentrations of SVOCs and metals above NJDEP SRS. Historic fill is regulated material and therefore, must be reused or disposed of in accordance with all local and State regulations and guidelines.

There is a high likelihood of exposing railroad related contamination (REC-2) during construction activities associated with Alternative 2. Historically, rail lines were present along the waterfront in Weehawken and northern Hoboken, adjacent to and coincident with the proposed Resist structure, from the northernmost extent of the structure, south to the Tea Building. Historic and current rail use also dominates the southern portion of Hoboken and northern Jersey City. The NJ TRANSIT rail yard (REC-4) and associated tracks extending to the west, as well as the PATH rail tracks, are coincident with Resist features proposed along the southern side of Hoboken. Soil sampling in the 1980s and 1990s identified volatile organic, pesticide, PCB, SVOC, and metal contamination. PAHs and metals have contaminated the groundwater. A 300,000-gallon diesel AST was located at the southeast corner of Marin Boulevard and 18th street until 2006. While this location is outside of the Study Area, remediation from a documented spill is still on-going and there is the potential for additional groundwater contamination from this source in the Study Area. Railroad related contamination could also be exposed during construction at the proposed gates at Marin Boulevard, Grove Street and Jersey Avenue, as well as proposed work where the HBLR tracks pass under the NJ TRANSIT overpass in the southwest corner of the Study Area. Finally, the HBLR tracks run along the western edge of the Study Area, adjacent to work proposed at the Housing Authority and BASF properties. There is the potential to expose soils with elevated concentrations of pesticides, PCBs, creosote, heavy metals, DRO, and other petroleum and solvent-related contaminants during excavation in the above-described areas.

Portions of the Alternative 2 northern Resist structure are located along the waterfront. As currently designed, sediment excavation from the Hudson River is not anticipated for Alternative 2. If design plans change, there is a risk of exposing PCB-contaminated sediments in the Hudson River (REC-3). The Hudson River PCB Superfund Site includes 200 miles of the river from northeastern New York to the Atlantic Ocean. It is unknown whether PCB-impacted sediments are located in the portion of the river adjacent to the proposed construction. In addition, a plume of coal tar creosote from the Quanta resources site in Edgewater reportedly extends into the Hudson River, north of the proposed project. The Quanta site itself is contaminated with PCBs as well. Any sediment removed would need to be disposed in accordance with all applicable regulations.

Area of Southern Resist Features

Soils contaminated with PHCs and lead remain at the Observer Highway Development site (REC -5). The proposed Option 2 Resist feature is across Observer Highway from REC-5, and may expose these soils during construction, as well as contamination from railroad related operations.

There are confirmed soil and groundwater impacts from diesel fuel at the R. Neumann property (REC-11). Although no off-site groundwater contamination is currently suspected or confirmed, there is a possibility of exposing contaminated groundwater during construction for the Resist feature across Observer Highway.

The Hoboken DPW site (REC-14) has a CEA established at the site for concentrations of lead and benzo(a)anthracene exceeding the GWQS. As the Option 2 Resist feature is located across the street from this site, there is a potential for exposing contaminated groundwater related to the site. In addition, there may be regional groundwater contamination from industrial properties in this area.

The Hoboken Service Center Inc. /Amoco Station (REC-16) site has reported volatile organic contamination including chlorinated organics, in both soil and groundwater. A Resist feature, Option 2, is proposed across Observer Highway from the Hoboken Service Center and could impact the site.

The Resist structure in the southwest corner of the Study Area passes through the northern edge of Millennium Towers (a.k.a., Former Lifschultz Fast Freight) property (REC-12). Based on past site usage as a railroad, slaughter house, lumber yard, poultry shed, truck repair garage, and truck trailer parking area, there is the potential to expose soil and/or groundwater contamination including elevated concentrations of volatiles, semi-volatiles, metals and PCBs during construction of the Resist structure.

Area of Northern Resist Features

The proposed northern Resist structure passes through the Dell Aquilla property (currently known as the Tea Building) (REC-8) and encircles the Weehawken Cove property (a.k.a., Old Todd Shipyard) (REC-10). Although the Dell Aquilla property has been capped, and a DN filed, there is residual petroleum contamination associated with former USTs at the site. If construction requires the cap to be removed or pierced, there is the potential for exposing soils contaminated with petroleum-related compounds. An easement is currently proposed at REC-8. At the Weehawken Cove property, soil contamination including TPH/PAH, BNs, PCBs and metals, and groundwater contamination including free product, lead, BTEX and BNs/PAHs remains from leaking USTs and ASTs. A DN and CEA are in place, but there is the potential to expose soil and groundwater contamination at this site during construction.

The northern Resist structure for Alternative 2 runs along 14th street, within 100 feet of SGS US Testing (REC-9). This site has confirmed chlorinated solvents in soil, but modeling indicated that groundwater was not impacted. Since no construction work is proposed on the SGS property, this site only represents an REC related to possible contaminated groundwater migration for Alternative 2.

Installation of a high level storm sewer is proposed within 100 feet of a Former Service Station (REC-17). Petroleum-related contamination remains in soil and groundwater at the site. A CEA is in place for elevated concentrations of benzene in groundwater. Therefore, there is the potential to expose petroleum-related contamination in soil and/or groundwater during construction in this area.

High level storm sewer improvements are also proposed adjacent to the Maxwell House property (REC-6). Chlorinated solvents remain in groundwater beneath the site. Therefore, there is the potential to expose contaminated groundwater during the sewer construction at that location.

The northern Resist structure also runs along Harbor Boulevard and Park Avenue, within 100 feet of Former Cocheo Brothers Inc. (REC-13). Based on potential petroleum contamination from a former 2,000-gallon fuel oil UST, and benzene, MTBE and TBA impacts to groundwater, there is the potential to expose contaminated groundwater during the construction of the Resist structure adjacent to the Former Cocheo Brothers Inc. site.

Inland from Weehawken Cove are the International Bus Service, Inc. and Burlington Coat Factory sites (REC-15). A proposed Resist feature located along the eastern side of Park Avenue may expose contamination from a diesel fuel release from a UST at the bus company. A CEA is in place for LNAPL, benzene, PAHs, naphthalene and lead, that extends off-site to the east and west. Similarly, the Resist feature may impact potential contamination from a 10,000-gallon UST of unknown contents or status at the coat factory.

A berm is proposed north of 19th Street in Weehawken, adjacent to the south of Digital Realty Trust (REC-50). The Digital Realty Trust property has confirmed soil contamination from TPH, benzene, and toluene, in addition to historic fill-related constituents. There is the potential to encounter contaminated soil and groundwater, which has not yet been investigated, during construction for the berm. Railroad contamination may also be encountered in this area as the HBLR runs adjacent to the proposed berm.

7.2.2 Delay, Store, Discharge

The RECs that would potentially be impacted by DSD improvements for Alternative 2 are identical to those outlined for Alternative 1 and that are discussed under Section 7.1.2.

7.3 Alternative 3

For the Alternative 3 Resist features, Option 1 has the potential to impact 13 RECs and would require the off-site disposal of 137,712 tons of contaminated soil, while Option 2 has the potential to impact 17 RECs and would require the off-site disposal of approximately 137,431 tons of contaminated soil. Construction of the DSD features has the potential to impact 42 RECs. Alternative 3 RECs are discussed below in Sections 7.3.1 and 7.3.2, and shown on Figure 15.

7.3.1 Resist

The following RECs may be impacted by the potential construction activities associated with the Resist features of Alternative 2:

- Historic Fill Material, Study Area-wide (REC-1)
- Current/Historic Rail Use, Various Locations (REC-2)
- Hudson River Sediments (REC-3)
- NJDOT/NJ TRANSIT Rail Yard, Hoboken and Jersey City (REC-4)
- Observer Highway Development, 50 Bloomfield Street and 51 Garden Street, Hoboken (REC-5)
- Former Maxwell House Coffee, 1101-1125 Hudson Street, Hoboken (REC-6)
- Dell Aquilla Site (a.k.a., Hoboken Cove), 1500 Hudson Street, Hoboken (REC-8)
- SGS US Testing, 1409-1427 Park Avenue, Hoboken (REC-9)
- Hoboken/Weehawken Cove (a.k.a., Old Todd Shipyard), 1501 Park Avenue, Hoboken (REC-10)
- R. Neumann and Co., 300 Observer Highway, Hoboken (REC-11)
- Millennium Towers (a.k.a., Lifschultz Fast Freight), 677 Grove Street and 850 Jersey Avenue, Jersey City (REC-12)
- Former Cocheo Brothers, 1801-1831 Willow Avenue, Weehawken (REC-13)
- Hoboken DPW, 256 Observer Highway (REC- 14)
- International Bus Service/Burlington Coat Factory, 1501-1507 Clinton Street and 1502-1530 Willow Avenue, Hoboken (REC-15)
- Hoboken Service Center/Amoco Station, 425 Newark Street, Hoboken (REC-16)
- Former Service Station, 150 14th Street, Hoboken (REC-17)
- Digital Realty Trust, 300 Boulevard East, Weehawken (REC-50)

Due to the nearly ubiquitous nature of historic fill material (REC-1) in this area, there is a high likelihood of exposing fill material during construction associated with Alternative 3. In fact, the entire Study Area may be assumed to contain historic fill. Historic fill material deposited in the Study Area has been found to contain concentrations of SVOCs and metals above NJDEP SRS. Historic fill is regulated material and therefore, must be reused or disposed of in accordance with all local and State regulations and guidelines.

There is a high likelihood of exposing railroad related contamination (REC-2) during construction activities associated with Alternative 3. Historically, rail lines were present along the waterfront in Weehawken and northern Hoboken, adjacent to and coincident with the proposed Resist structure, from the northernmost extent of the structure, south to the Tea Building. Historic and current rail use also dominates the southern portion of Hoboken and northern Jersey City. The NJ TRANSIT rail yard (REC-4) and associated tracks extending to the west, as well as the PATH rail tracks, are coincident with Resist features proposed along the southern side of Hoboken. Soil sampling in the 1980s and 1990s identified volatile organic, pesticide, PCB, SVOC, and metal contamination. PAHs and metals have contaminated the groundwater. A 300,000-gallon diesel AST was located at the southeast corner of Marin Boulevard and 18th street until 2006. While this location is outside of the Study Area, remediation from a documented spill is still on-going and there is the potential for additional groundwater contamination from this source in the Study Area. Railroad related contamination could also be impacted by construction at the proposed gates at Marin Boulevard, Grove Street and Jersey Avenue, as well as proposed work where the HBLR tracks pass under the NJ TRANSIT overpass in the southwest corner of the Study Area. Finally, the HBLR tracks run along the western

edge of the Study Area, adjacent to work proposed at the Housing Authority and BASF properties. There is the potential to expose soils with elevated concentrations of pesticides, PCBs, creosote, heavy metals, DRO, and other petroleum and solvent-related contaminants during excavation in the above-described areas.

Portions of the Alternative 3 northern Resist structure are located along the waterfront. As currently designed, sediment excavation from the Hudson River is not anticipated for Alternative 3. If design plans change, there is a risk of exposing PCB-contaminated sediments in the Hudson River (REC-3). The Hudson River PCB Superfund Site includes 200 miles of the river from northeastern New York to the Atlantic Ocean. It is unknown whether PCB-impacted sediments are located in the portion of the river adjacent to the proposed construction. In addition, a plume of coal tar creosote from the Quanta resources site in Edgewater reportedly extends into the Hudson River, north of the proposed project. The Quanta site itself is contaminated with PCBs as well. Any sediment removed would need to be disposed in accordance with all applicable regulations.

Area of Southern Resist Features

Soils contaminated with PHCs and lead remain at the Observer Highway Development site (REC -5). The proposed Option 2 Resist feature is across Observer Highway from REC-5, and may expose these soils during construction, as well as contamination from railroad related operations.

There are confirmed soil and groundwater impacts from diesel fuel at the R. Neumann property (REC-11). Although no off-site groundwater contamination is currently suspected or confirmed, there is a possibility of exposing contaminated groundwater during construction for the Resist feature across Observer Highway.

The Hoboken DPW site (REC-14) has a CEA established at the site for concentrations of lead and benzo(a)anthracene exceeding the GWQS. As the Option 2 Resist feature is located across the street from this site, there is a potential for exposing contaminated groundwater related to the site. In addition, there may be regional groundwater contamination from industrial properties in this area.

The Hoboken Service Center Inc. /Amoco Station (REC-16) site has reported volatile organic contamination including chlorinated organics, in both soil and groundwater. A Resist feature, Option 2, is proposed across Observer Highway from the Hoboken Service Center and could expose contamination from this REC.

The Resist structure in the southwest corner of the Study Area passes within 100 feet of the northern edge of Millennium Towers (a.k.a., Former Lifschultz Fast Freight) property (REC-12). Based on past site usage as a railroad, slaughter house, lumber yard, poultry shed, truck repair garage, and truck trailer parking area, there is the potential to expose soil and/or groundwater contamination including elevated concentrations of volatiles, semi-volatiles, metals and PCBs during construction of the Resist structure.

Area of Northern Resist Features

The proposed northern Resist structure passes through the Dell Aquilla property (currently known as the Tea Building) (REC-8) and encircles the Weehawken Cove property (a.k.a., Old Todd Shipyard) (REC-10). Although the Dell Aquilla property has been capped, and a DN filed, there is residual petroleum contamination associated with former USTs at the site. If construction requires the cap to be removed or pierced, there is the potential for exposing soils contaminated with petroleum-related compounds. An easement is currently proposed at REC-8. At the Weehawken Cove property, soil contamination including TPH/PAH, BNs, PCBs and metals, and groundwater contamination including free product, lead, BTEX and BNs/PAHs remains from leaking USTs and ASTs. A DN and CEA are in place, but there is the potential to expose soil and groundwater contamination at this site during construction.

The northern Resist structure runs along an east-west private alleyway between 14th and 15th Streets, along the northern edge of a Former Service Station (REC-17). Petroleum-related contamination remains in soil and groundwater at the site. A CEA is in place for elevated concentrations of benzene in groundwater. Therefore, there is the potential to expose petroleum-related contamination in soil and/or groundwater during construction of the Resist structure in this area.

High level storm sewer improvements are proposed adjacent to the Maxwell House property (REC-6). Chlorinated solvents remain in groundwater beneath the site. Therefore, there is the potential to expose contaminated groundwater during the sewer construction at that location.

The northern Resist structure for Alternative 3 runs within 100 feet of SGS US Testing (REC- 9). This site has confirmed chlorinated solvents in soil, but modeling indicated that groundwater was not impacted. Since no construction work is proposed on the SGS property, this site only represents an REC related to possible contaminated groundwater migration for Alternative 3.

The northern Resist structure also runs along Harbor Boulevard and Park Avenue, within 100 feet of Former Cocheo Brothers Inc. (REC-13). Based on potential petroleum contamination from a former 2,000-gallon fuel oil UST, and benzene, MTBE and TBA impacts to groundwater, there is the potential to expose contaminated groundwater during the construction of the Resist structure adjacent to the Former Cocheo Brothers Inc. site.

Inland from Weehawken Cove are the International Bus Service, Inc. and Burlington Coat Factory sites (REC-15). A proposed Resist feature located along the eastern side of Park Avenue may expose contamination from a diesel fuel release from a UST at the bus company. A CEA is in place for LNAPL, benzene, PAHs, naphthalene and lead, that extends off-site to the east and west. Similarly, the Resist feature may impact potential contamination from a 10,000-gallon UST of unknown contents or status at the coat factory.

A berm is proposed north of 19th Street in Weehawken, adjacent to the south of Digital Realty Trust (REC-50). The Digital Realty Trust property has confirmed soil contamination from TPH, benzene, and toluene, in addition to

historic fill-related constituents. There is the potential to encounter contaminated soil and groundwater, which has not yet been investigated, during construction for the berm. Railroad contamination may also be encountered in this area as the HBLR runs adjacent to the proposed berm.

7.3.2 Delay, Store, Discharge

The RECs that would potentially be impacted by DSD improvements for Alternative 3 are identical to those required for Alternative 1 and are discussed under Section 7.1.2.

7.4 Mitigation and Best Management Practices included in Alternatives 1, 2 and 3

The following measures will be implemented in order to minimize impacts of the Project on hazardous waste:

- A soil and groundwater Sampling, Analysis, and Monitoring Plan (SAMP), as well as a Health and Safety Plan (HASP), will be developed and implemented in the proposed construction areas within and adjacent to these RECs to assess the presence, type and level of contamination. Sample locations would be biased toward the areas of proposed excavation, based on the engineering design, as well as towards locations adjacent to known or suspected contamination from RECs. All site investigation activities will need to be performed in accordance with the most current version of NJDEP Technical Requirements for Site Remediation, N.J.A.C. 7:26E, NJDEP Linear Technical Construction Guidance Document, and other applicable guidance documents.
- Alternate construction methods, such as installing casing around piles or using shallower depth structural supports, may be required in areas contaminated with chlorinated solvents to minimize the risk of cross contamination.
- Health and safety precautions would be instituted for the protection of the construction personnel and the public. Methods may include dust control measures to prevent the accidental inhalation of contaminated soil. Construction workers should wear personal protective equipment (PPE) to minimize exposure to any possible contamination and adhere to strict OSHA guidelines, as applicable.
- Soil and groundwater sampling and site investigation activities intended to determine the presence, type and level of contamination will be performed on any sites proposed for acquisition.
- The project will enter the New Jersey LSRP Program as a Linear Construction Project and comply with Chapter 16 of the NJDEP Administrative Requirements for the Remediation of Contaminated Sites, N.J.A.C. 7:26C.
- Should contamination be detected, a Material Management Plan (MMP) would be prepared to address the remedial approach. An MMP typically includes management techniques for regulated material; standard operating procedures for the excavation, stockpiling, transporting, measurement, and disposal of regulated material; receiving facility certification and permits; qualifications of the licensed hauler; proposed routes to the receiving facilities; waste characterization forms; a sampling and analysis protocol for characterizing the regulated material; and requirements of the receiving facility to accept the regulated material.

Information in the MMP would be used to develop health and safety specifications and environmental plans for the project. Potential mitigation would include engineering controls. Due to the widespread occurrence of historic fill material within the Study Area and the abundance of RECs, it is anticipated that the majority of excavated soils which are not re-used on-site will need to be properly disposed offsite.

- Potentially contaminated soils requiring excavation would be temporarily stockpiled pending waste characterization results. Excavation and staging will be performed using methods that minimize the disturbance of the soil. At a minimum, all potentially contaminated soil would be staged on an impervious surface and covered with plastic sheeting. If it is determined that soils contain hazardous waste, they should not be moved from one stockpile to another without prior approval from the NJDEP and/or necessary permits and approved remedial action plans. No excavation/movement of contaminated soil or hazardous waste may occur without prior NJDEP and/or EPA approval, as applicable.
- Due to the high water table within the Study Area and the depth of the proposed improvements, contaminated groundwater is anticipated to be encountered during construction. Groundwater would be handled in an NJDEP-approved manner. Drainage measures including dewatering may be instituted to control groundwater levels within excavations. Contaminated groundwater will be pumped into tank trucks for offsite treatment and disposal.
- At the completion of construction, a Linear Construction Report (LCR) would need to be prepared to document soil excavation activities and the management of contaminated soil and groundwater during construction. Additionally, the LCR would document the extent of contamination left in place or reused within the project limits and the remedial activities completed on the project. Although not required for Linear Construction Projects, a Response Action Outcome (RAO) may be issued by the LSRP in some cases.
- All project activities must be performed in accordance with state and federal regulations, including all applicable Resource Conservation and Recovery Act (RCRA) standards.

7.5 No Build Alternative

Since no construction activity would occur with the No Build Alternative, no further investigations are required and potential impacts would not occur. However, by selecting the No Build Alternative, contamination that would otherwise be remediated through construction of the selected alternative would remain in place.

8.0 ACCEPTABLE SEPARATION DISTANCE

24 CFR Part 51 Subpart C requires HUD-funded projects to determine whether they are within proximity to stationary facilities that store, handle or process explosive or flammable materials. Specifically, the regulations require determining whether the potential exists for exposure of the project to thermal radiation and blast-overpressure. Projects that include outdoor recreational uses are required by HUD to undergo this analysis because of the vulnerability of park occupants to blast-overpressure and thermal radiation. All three of the RBDH project's Build Alternatives include proposed outdoor park and open spaces; therefore, the project is subject to these regulations.

As stated in HUD's October 2011 Acceptable Separation Distance Guidebook (https://www.hudexchange.info/resource/2762/acceptable-separation-distance-guidebook/), this analysis may be conducted in four steps:

1. Identify facilities that store, handle or process explosive or flammable materials within stationary above-ground storage tanks (ASTs).
2. Calculate the Acceptable Separation Distance (ASD) between the facility and the subject project.
3. Determine whether the project is within the ASD of that facility.
4. If the project is beyond the ASD, it is in compliance with this regulation. If the project is within the ASD, mitigation may be required.

The primary component of this analysis is determining the ASD of an identified AST and determining whether or not the subject project is within this area. The ASD is the area beyond which the explosive or combustive hazard will cause thermal radiation or blast-overpressure damage to buildings or individuals. ASDs for Blast Over Pressure, Thermal Radiation for People, and Thermal Radiation for Buildings were considered. Ultimately, the ASD for Thermal Radiation for People was used, as it is the most conservative value.

Tanks were initially inventoried by using aerial photographs, and then field verified. Aerial photographs were studied to identify any ASTs within one mile of proposed improvements for all three Build Alternatives. On September 13, 2016, Dewberry staff conducted a site visit to confirm the presence and size of the tanks identified on the aerial photographs. Tank sizes were estimated by measuring dimensions off of aerial photographs and confirming during the site reconnaissance. Due to limited site access, some tanks could only be viewed from a distance; dimensions and capacities are approximate.

The ASD of the ASTs was calculated using HUD's online Acceptable Separation Distance Electronic Assessment Tool (https://www.hudexchange.info/environmental-review/asd-calculator/). This tool was developed by the Environmental Planning Division to calculate the ASD from stationary hazards such as ASTs. Information including whether the tank is under pressure, whether the tank is diked, and the volume in gallons of the tank was entered into the online tool for each tank. The calculated ASD for Thermal Radiation for People was noted for each tank and plotted as a circle around each tank.

Using GIS, the ASD for Thermal Radiation for People for each tank was viewed relative to the locations of proposed improvements for the three Build Alternatives (including Resist and Delay, Store, Discharge). Tanks with ASDs that do not intersect with locations of proposed improvements were excluded from further analysis. Tanks with ASDs that do intersect with the locations of proposed improvements required further analysis. Improvements in the overlapping areas were reviewed to see if parks are proposed, and aerial photographs were used to identify intervening development. Each AST was analyzed to see if mitigation would be required.

A total of 10 ASTs were identified within one mile of the three (3) Build Alternatives. A summary of the ASTs is provided in Table 8-1, below. Two of the ASTs (AST 1 and AST 2) were identified in the Manhattan Borough of New York City and were considered not to be of concern, based on the distance from the project as well as intervening development including the Hudson River. The locations of the remaining eight ASTs are shown on Figure 16.

Table 8-1

Above-Ground Storage Tanks

TANK ID	LOCATION	SIZE/CAPACITY	ASD FOR THERMAL RADIATION FOR PEOPLE (FEET)	WITHIN ASD?
AST 1	13th Avenue and 11th Avenue, NYC. AST is located next to a building labeled “Salt Storage Facility”, at the New York City Sanitation Department.	Approx. 10’ diameter and 30’ high. Capacity is approx. 20,000 gallons.	963.41	No
AST 2	Near the Highline at W30th St and 11th Avenue, NYC. AST is located adjacent to a train yard.	Approx. 20’ diameter and 56’ tall. Capacity is approx. 160,000 gallons.	2291.06	No
AST 3	18th St and 14th St, Jersey City. Tank is located at concrete plant adjacent to Hudson River.	Approx. 30’ long and 5’ diameter. Capacity is approx. 5,000 gallons.	540.74	No
AST 4	18th St and 14th St, Jersey City. Tank is located at concrete plant adjacent to Hudson River.	Approx. 30’ long and 5’ diameter. Capacity is approx. 5,000 gallons.	540.74	No

TANK ID	LOCATION	SIZE/CAPACITY	ASD FOR THERMAL RADIATION FOR PEOPLE (FEET)	WITHIN ASD?
AST 5	NJ TRANSIT Railyard, at Observer Highway and Marin Blvd., Hoboken.	Approx. 40' tall and 20' diameter. Capacity is approx. 100,000 gallons. There is secondary containment in the form of an 80' by 32' fabricated steel vessel.	229.16	Yes
AST 6	NJ TRANSIT Railyard, at Observer Highway and Marin Blvd., Hoboken.	Approx. 40' tall and 20' diameter. Capacity is approx. 100,000 gallons. There is secondary containment in the form of an 80' by 32' fabricated steel vessel.	229.16	Yes
AST 7	Neumann Leather facility on Willow Avenue, Hoboken.	Approx. 30' long and 20' diameter. Capacity is approx. 70,000 gallons. There is secondary containment in the form of a 33' by 10' fabricated steel vessel.	97.33	No
AST 8	Frank Sinatra Drive at Castle Point	Approx. 6' long and 5' diameter. Capacity is approx. 1,000 gallons.	276.57	No
AST 9	Frank Sinatra Drive at Castle Point	Approx. 6' long and 3' diameter. Capacity is approx. 300 gallons.	167.48	No
AST 10	Cognizant Technology building on JFK Blvd., Weehawken	Approx. 30' long and 13' diameter. Capacity is approx. 30,000 gallons.	1140.69	Yes

Source: HUD's online Acceptable Separation Distance Electronic Assessment Tool; and Dewberry field work 2015-2017

As summarized in the table above, three of the ASTs (AST 5, AST 6 and AST 10) had ASDs that intersected proposed improvements for one or more Build Alternatives. AST 5 and AST 6 are adjacent approximately 100,000-gallon ASTs located in NJ TRANSIT's Railyard at the southern end of Hoboken. These tanks have secondary containment. The ASDs of the tanks (229.16 feet each) are located outside of the area where pedestrians currently walk (the sidewalks along the south side of Observer Highway). Under each Build Alternative, two Resist alignments are offered as options at the NJ TRANSIT Railyard: Option 1, which is located within the railyard, immediately south of an area of existing rail spurs and maintenance buildings that is proposed for potential future redevelopment (Hoboken Yard Redevelopment Plan), and Option 2, which is located immediately north of this redevelopment area, and generally travels along the south side of Observer Highway. The Resist barrier construction is proposed within the ASD of ASTs 5 and 6. However, there are no recreational improvements proposed along the Resist barrier within the ASD of these tanks and the construction of the Resist barrier in this location is not anticipated to result in any change in current public use patterns in this area. Therefore, based on HUD guidance, mitigation would not be required.

AST 10 is an approximately 30,000-gallon AST located on the eastern side of the Cognizant Technology building on JFK Blvd. in Weehawken. The tank is approximately 200 feet southwest of the Lincoln Harbor Light Rail Station. The ASD for this tank (1,140.69 feet) intersects the Hudson River waterfront walkway, where recreational improvements are proposed under Build Alternative 1. However, there is intervening development in the form of a multi-story parking garage to the east and a multi-story office and retail building to the southeast. No additional parklands or gathering places are proposed within the ASD of AST 10 for Build Alternatives 2 and 3. Therefore, based on HUD guidance, mitigation would not be required for AST 10.

9.0 CONCLUSIONS AND RECOMMENDATIONS

A total of 50 RECs were identified within the Analysis Area that have the possibility of being affected by the three Build Alternatives. In addition to historic fill material and railroad land use, there are 18 RECs that may affect one or more of the Resist alternatives, and 42 RECs that may affect the DSD portion of the proposed project. These RECs are environmental concerns that have the potential for soil and/or groundwater contamination within the proposed area of ground disturbance for one or more Build Alternatives.

A soil and groundwater SAMP, as well as a HASP, will be developed and implemented in the proposed construction areas within and adjacent to these RECs to assess the presence, type and level of contamination. Sample locations would be biased toward the areas of proposed excavation, based on the engineering design, as well as towards locations adjacent to known or suspected contamination from RECs. All site investigation activities will need to be performed in accordance with the most current version of NJDEP Technical Requirements for Site Remediation, N.J.A.C. 7:26E, NJDEP Linear Technical Construction Guidance Document, and other applicable guidance documents.

Additionally, the Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq. establishes a program for the licensing of environmental professionals, who have the responsibility for oversight of contaminated site investigation and cleanup. Since contamination has been identified or suspected within the Analysis Area, and over 200 cubic yards of soil will be disturbed, the project will be required to enter the New Jersey LSRP Program as a Linear Construction Project and comply with Chapter 16 of the NJDEP Administrative Requirements for the Remediation of Contaminated Sites, N.J.A.C. 7:26C.

Should contamination be detected, an MMP would be prepared to address the remedial approach. An MMP typically includes management techniques for regulated material; standard operating procedures for the excavation, stockpiling, transporting, measurement, and disposal of regulated material; receiving facility certification and permits; qualifications of the licensed hauler; proposed routes to the receiving facilities; waste characterization forms; a sampling and analysis protocol for characterizing the regulated material; and requirements of the receiving facility to accept the regulated material. Information in the MMP would be used to develop health and safety specifications and environmental plans for the project. Potential mitigation would include engineering controls. Due to the widespread occurrence of historic fill material within the Study Area and the abundance of RECs, it is anticipated that the majority of excavated soils will need to be properly disposed offsite. As the project qualifies as a Linear Construction Project, an institutional control (i.e., Deed Notice) would not be required for any contaminated material that remains onsite.

Potentially contaminated soils requiring excavation would be temporarily stockpiled pending waste characterization results. Excavation and staging will be performed using methods that minimize the disturbance of the soil. At a minimum, all potentially contaminated soil would be staged on an impervious surface and covered with plastic sheeting. Localized areas of contamination may necessitate removal, segregation/separate staging from other soils, and disposal off site at a licensed facility.

Due to the high water table within the Study Area and the depth of the proposed improvements, groundwater is anticipated to be encountered during construction. Regional groundwater contamination is likely present within the Study Area due to historic fill, as well as spills from industrial and commercial operations. Should groundwater contamination be identified, it may present a health risk to workers if encountered during construction. Groundwater would need to be handled in an NJDEP-approved manner. Drainage measures including dewatering may be instituted to control groundwater levels within excavations. Based on the varied locations throughout the Analysis Area expected to require dewatering, pumping any contaminated groundwater into tank trucks for offsite treatment and disposal is anticipated to be the most cost effective option.

Implementation of the due diligence site investigation and Proposed Actions may involve approval of City permit applications for the opening of a roadway or sidewalk (municipal right-of-way) and/or discussions/agreement between the construction contractor and the Cities of Hoboken, Jersey City, Weehawken and/or a private property owner, should said property require due diligence investigation. The NJDEP would need to be notified in the event that a previously unknown discharge of hazardous material were to be identified during the SI process. Any work in the NJ TRANSIT railroad right-of-way will require the proper notification of the agency, proper and current safety training for personnel involved, and NJ TRANSIT protective personnel. There is the potential to encounter unregistered USTs and disused wooden coal chutes, formerly used to deliver coal to basement coal furnaces, beneath the sidewalks during construction. Care should be taken during excavation to remove these items completely, if encountered. Construction work in areas with chlorinated solvent contamination, such as in the vicinity of REC Nos. 6, 7, 9, 16, 21, 25, 38, 45, and 48, may require alternative construction methods to minimize the risk of cross contamination.

At the completion of construction, a LCR would need to be prepared to document soil excavation activities and the management of contaminated soil and groundwater during construction. Additionally, the LCR would document the extent of contamination left in place or reused within the project limits and the remedial activities completed on the project. Although not required for Linear Construction Projects, an RAO may be issued by the LSRP in some cases.

Easements are currently proposed for all three Build Alternatives. Site investigation activities are recommended to be performed at these locations to confirm the presence, nature and extent of potential contamination. An easement is proposed at REC-8 for all Build Alternatives, and an easement is proposed at REC-6 for Alternative 1 only. It is assumed that no buildings are to be acquired; if in the future any buildings are proposed for acquisition and subsequent demolition, they may require further investigation to confirm the presence and extent of ACM, LBP, and Universal Waste to develop an approach to address these issues during construction.

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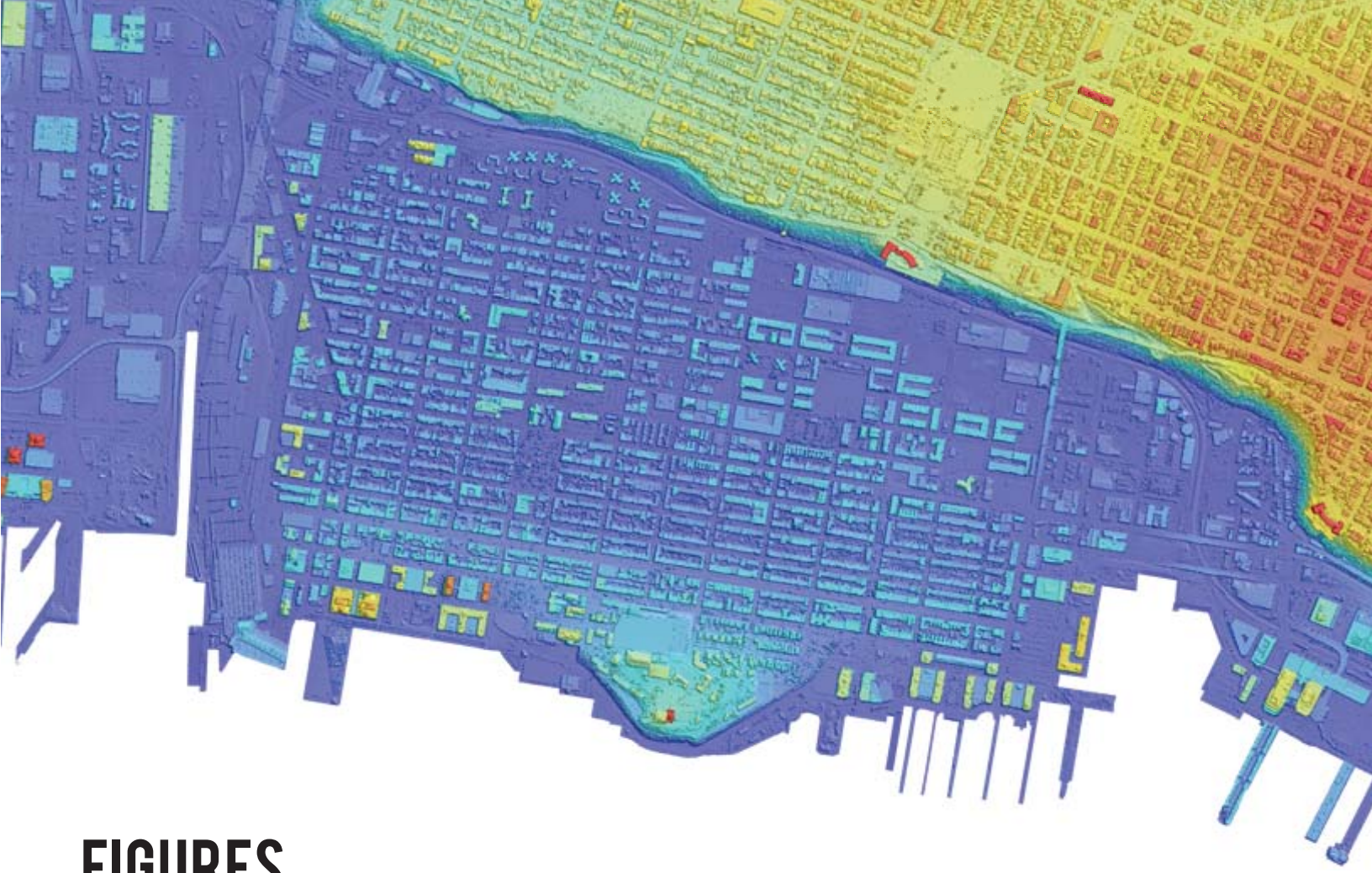
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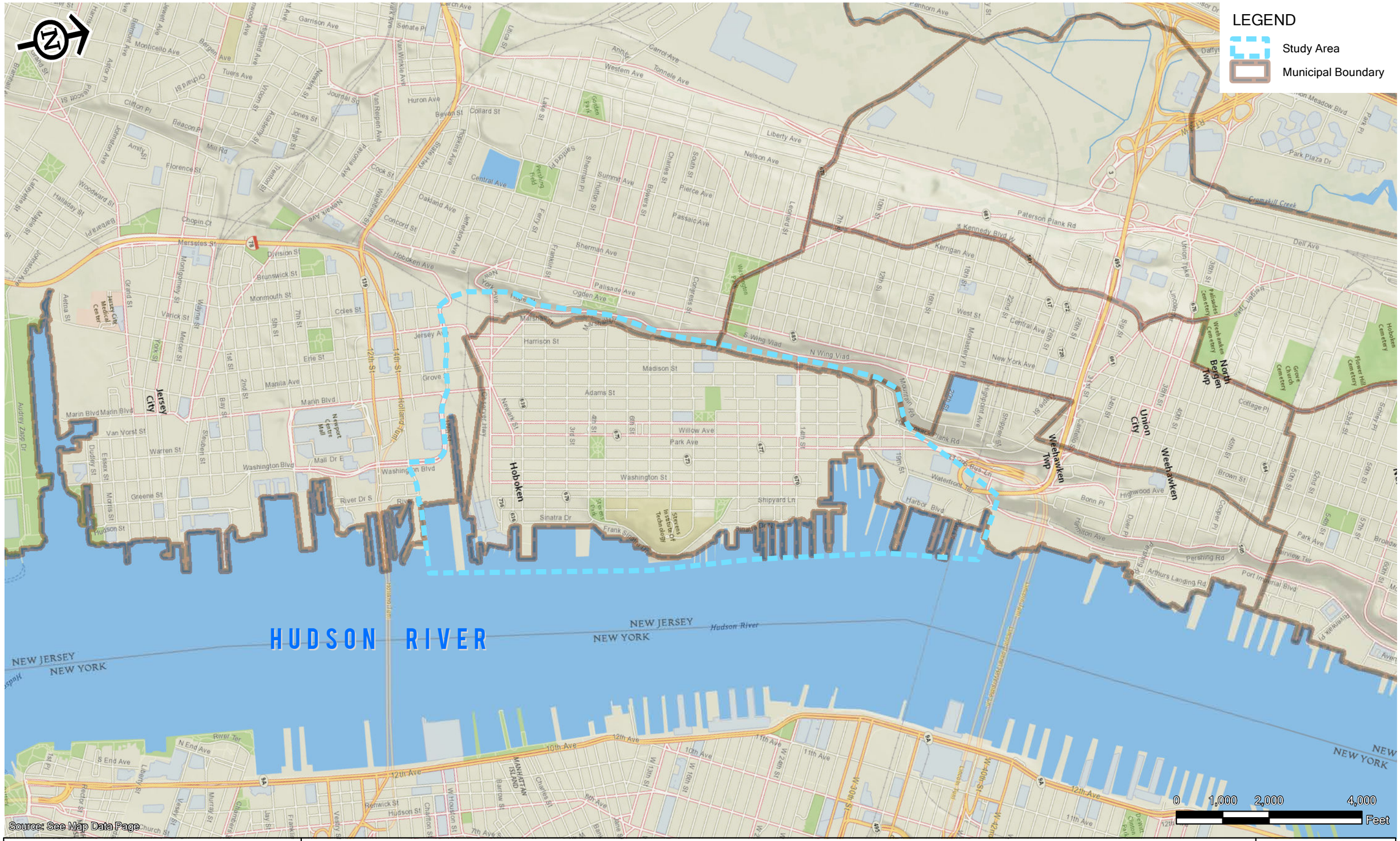
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FIGURES



REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Project Location Map

January 2017

FIGURE 1



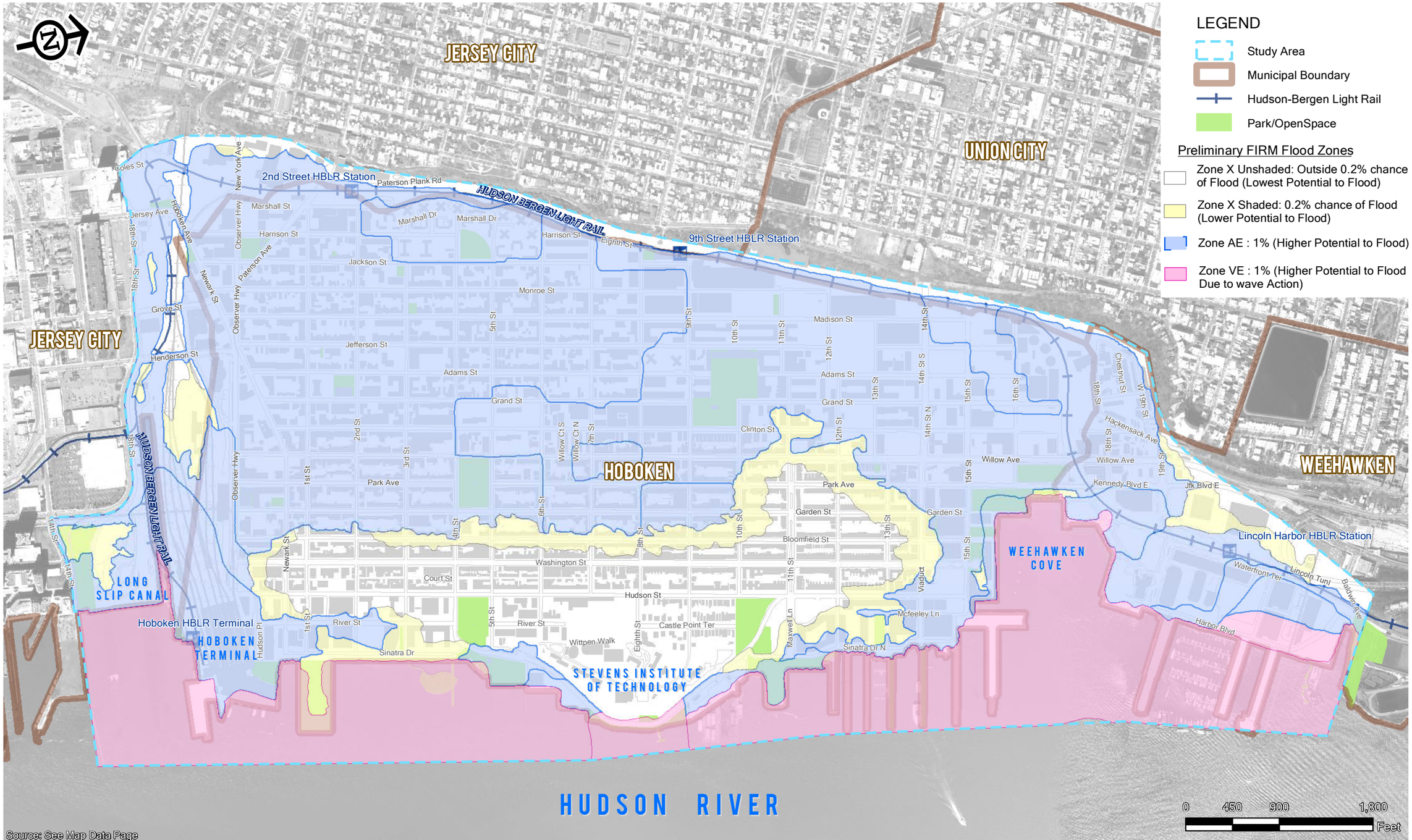
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Study Area Map

January 2017

FIGURE 2



Source: See Map Data Page

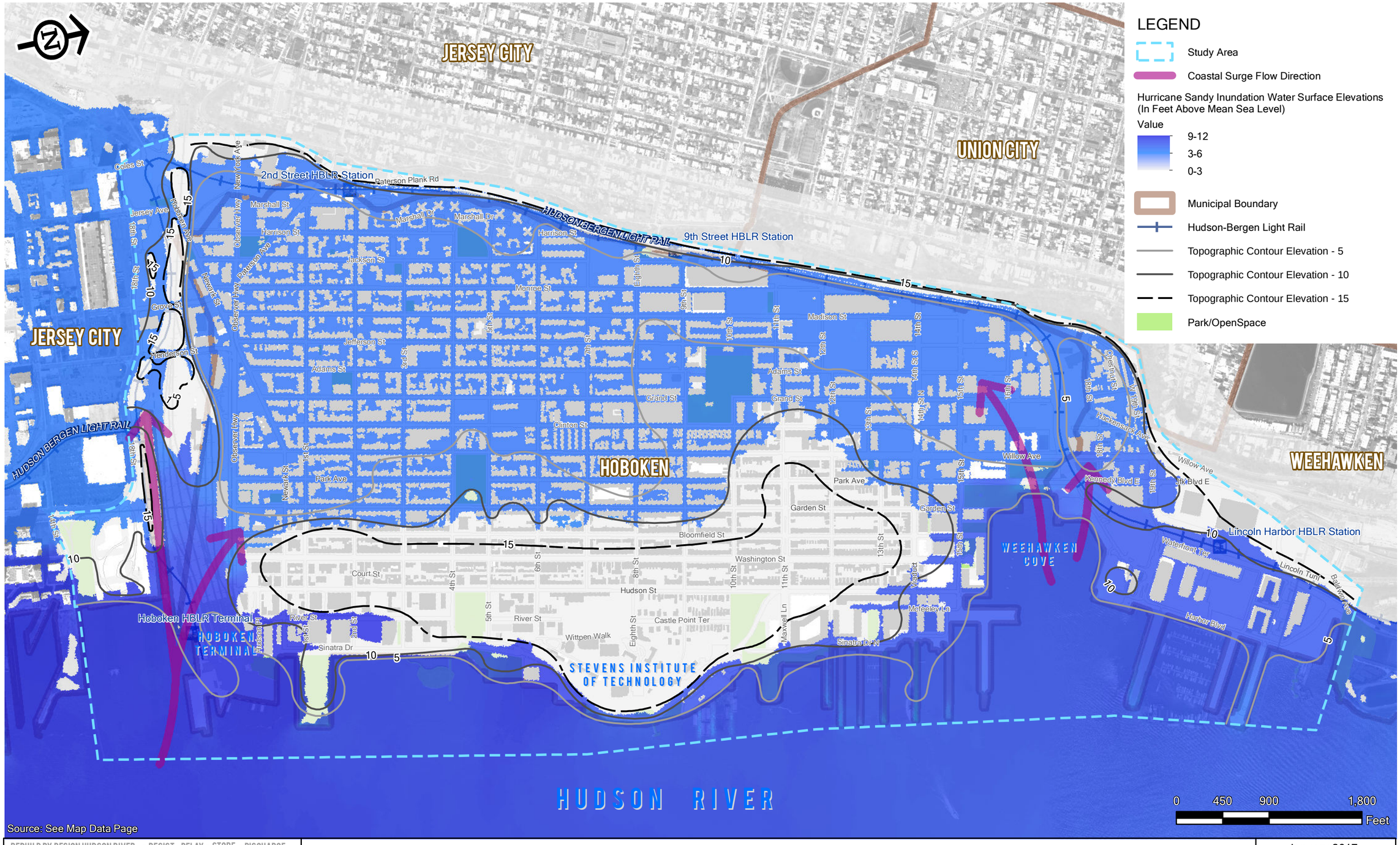
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Preliminary FIRM Flood Zone Map

January 2017

FIGURE 3



Source: See Map Data Page

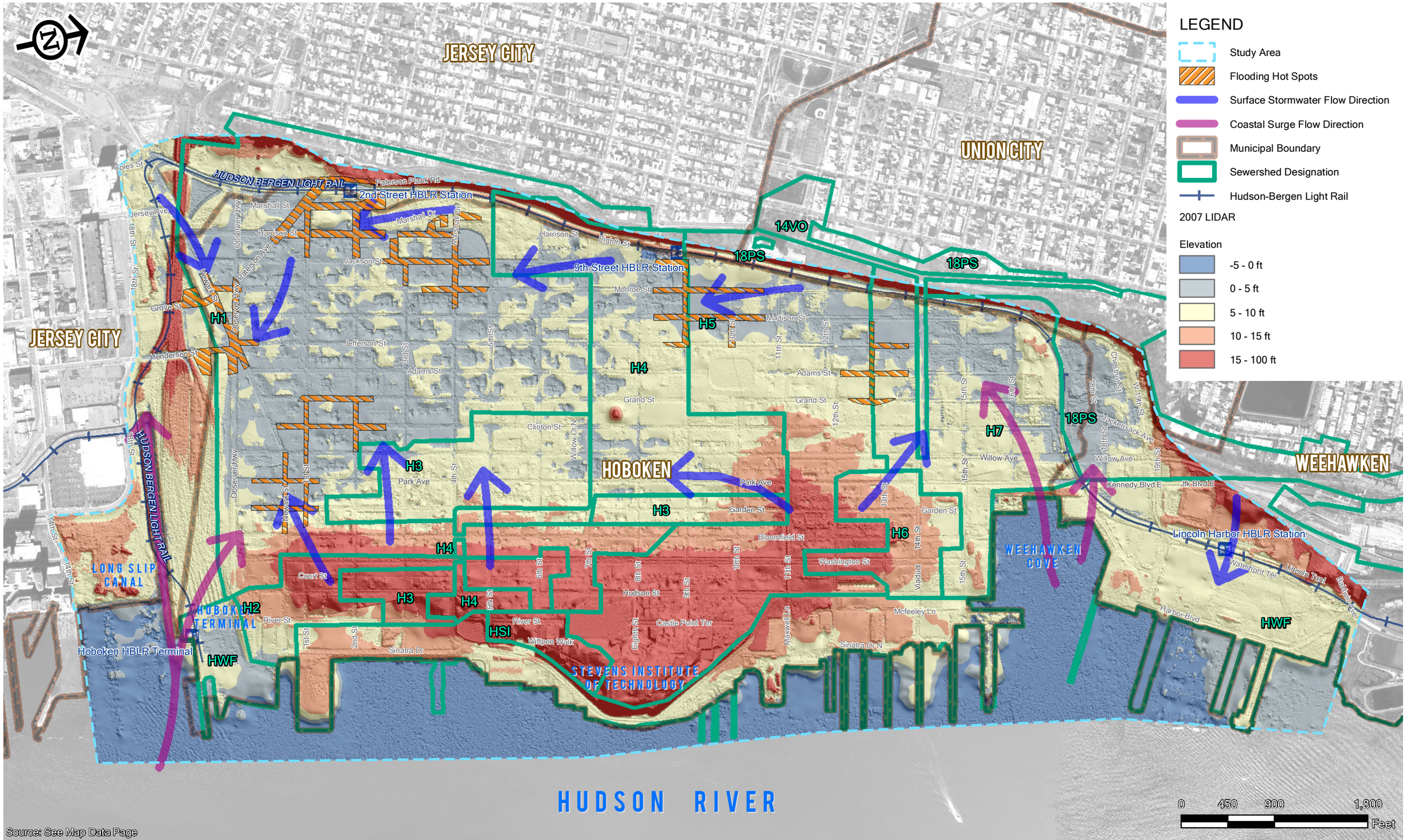
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Study Area Inundation during Superstorm Sandy

January 2017

FIGURE 4



Source: See Map Data Page

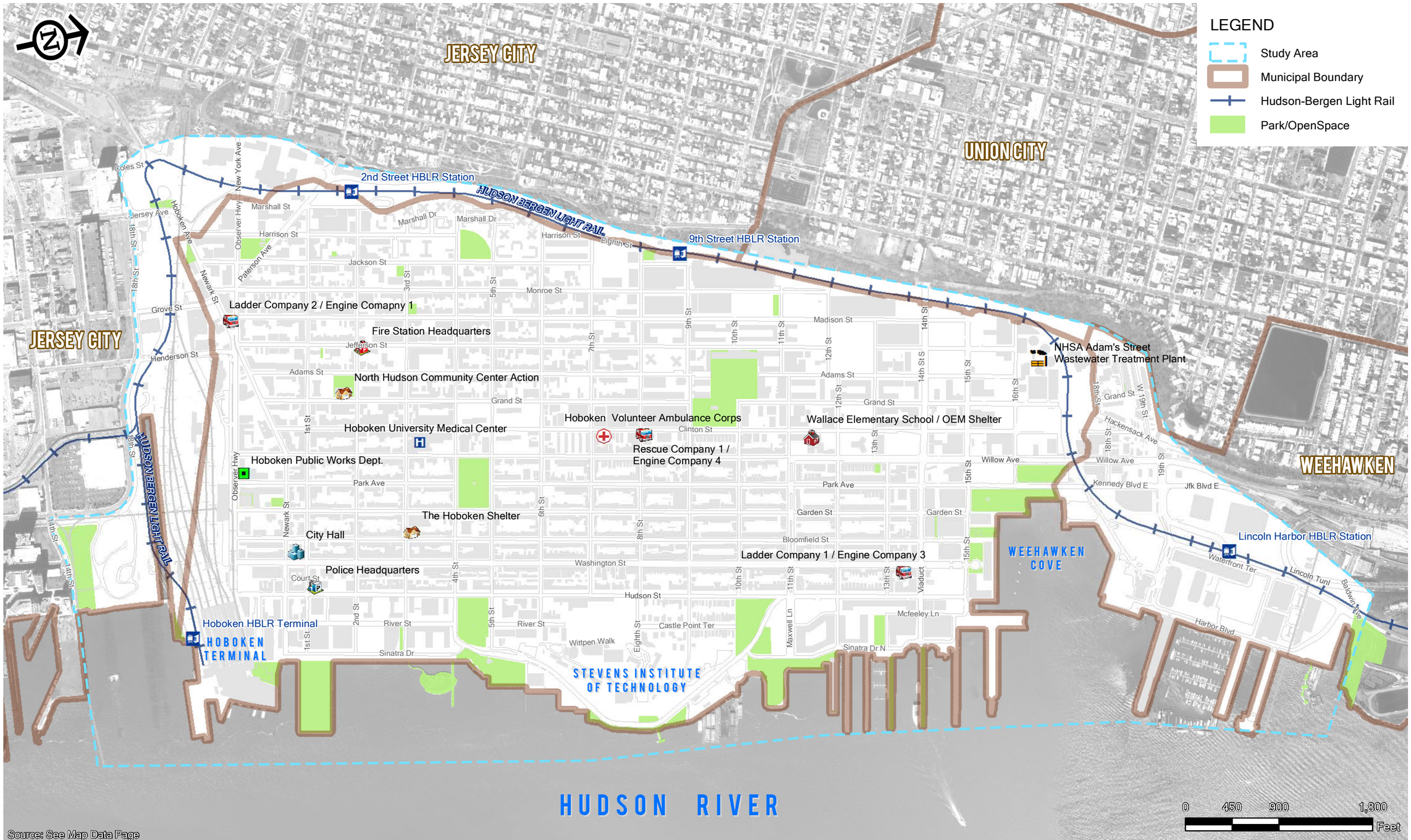
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Topography / NHSA Sewershed / Flooding Hot Spots Map

January 2017

FIGURE 5



Source: See Map Data Page

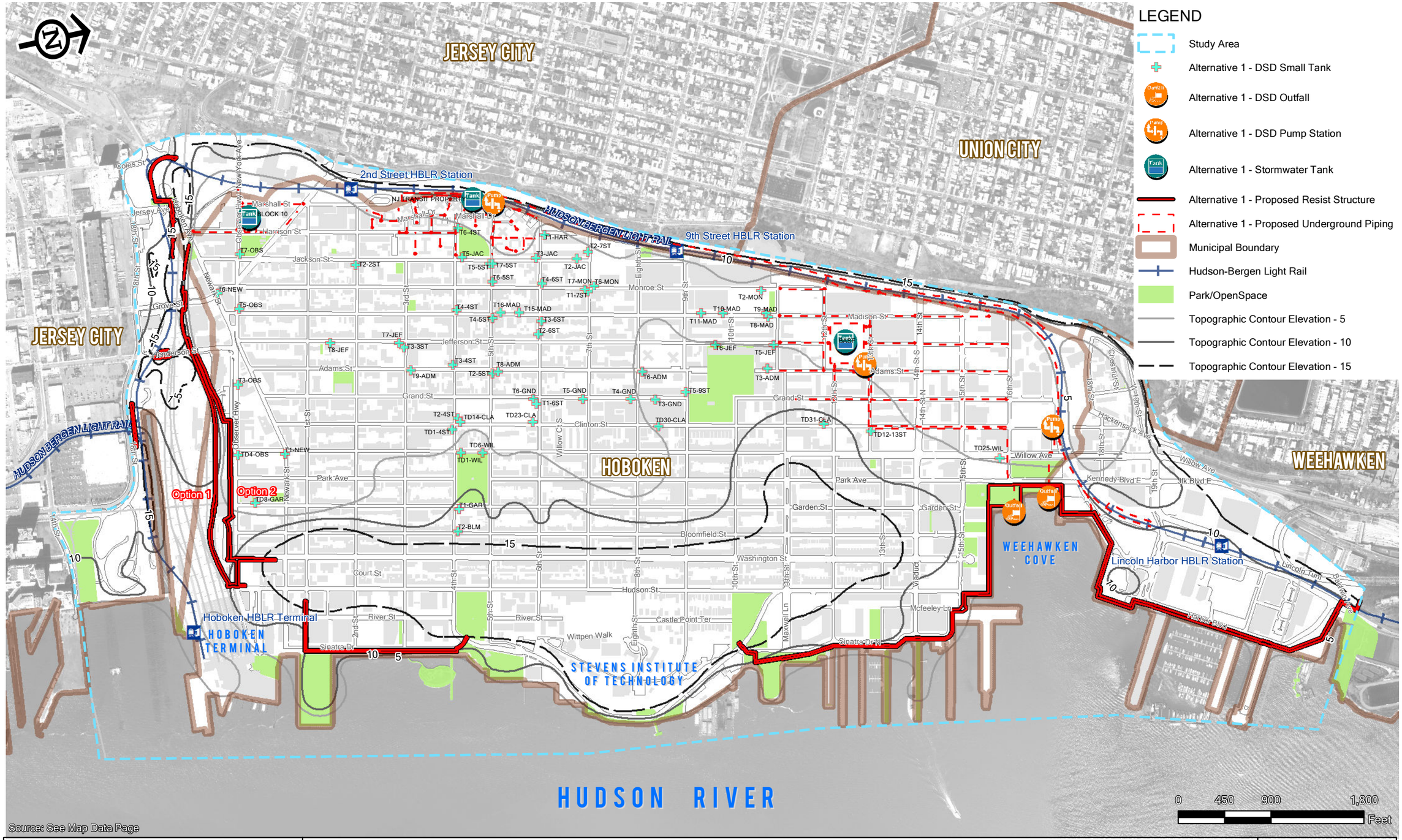
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Critical Infrastructure Map

January 2017

FIGURE 6



Source: See Map Data Page

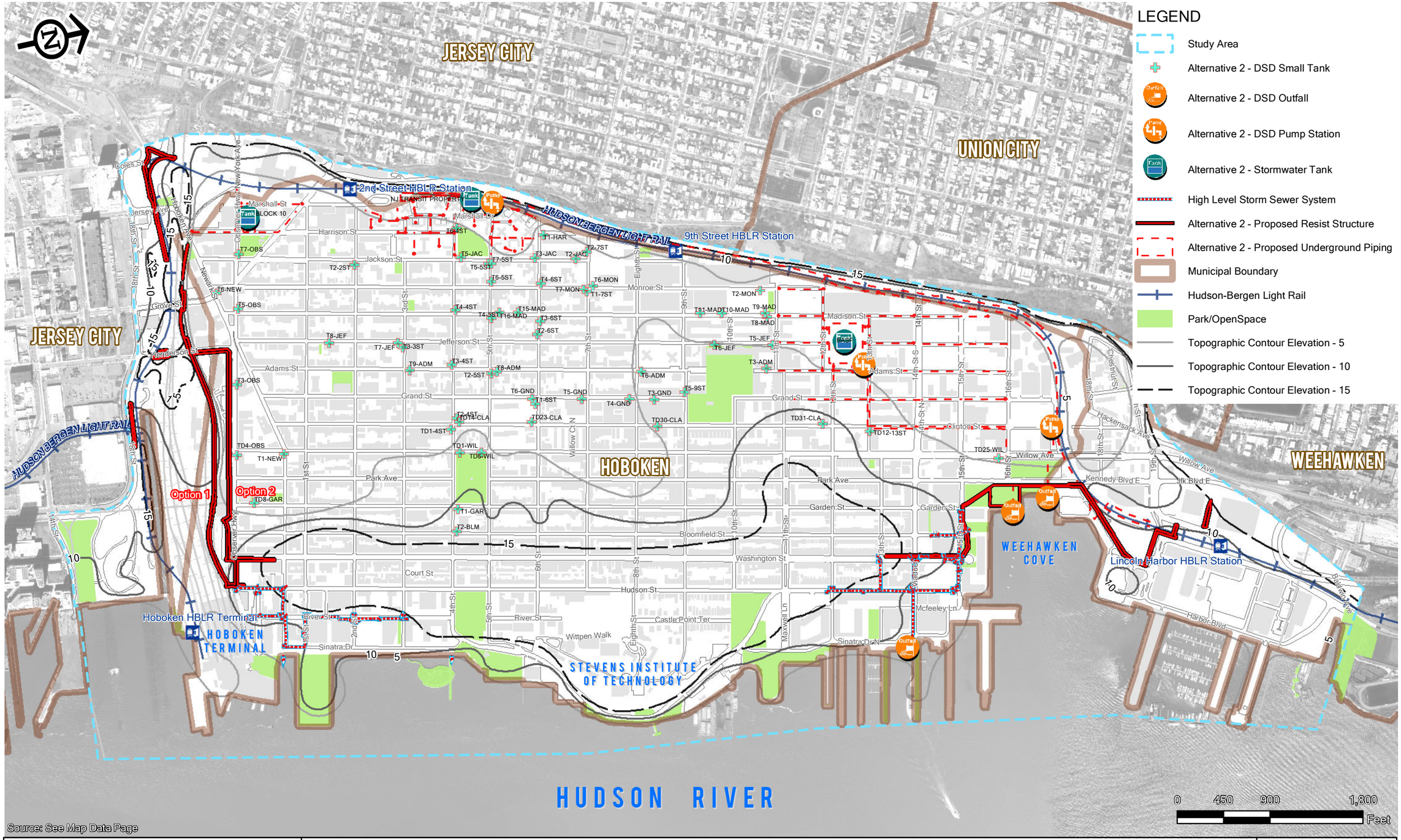
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Alternative 1

January 2017

FIGURE 7



LEGEND

- Study Area
- Alternative 2 - DSD Small Tank
- Alternative 2 - DSD Outfall
- Alternative 2 - DSD Pump Station
- Alternative 2 - Stormwater Tank
- High Level Storm Sewer System
- Alternative 2 - Proposed Resist Structure
- Alternative 2 - Proposed Underground Piping
- Municipal Boundary
- Hudson-Bergen Light Rail
- Park/OpenSpace
- Topographic Contour Elevation - 5
- Topographic Contour Elevation - 10
- Topographic Contour Elevation - 15

Source: See Map Data Page

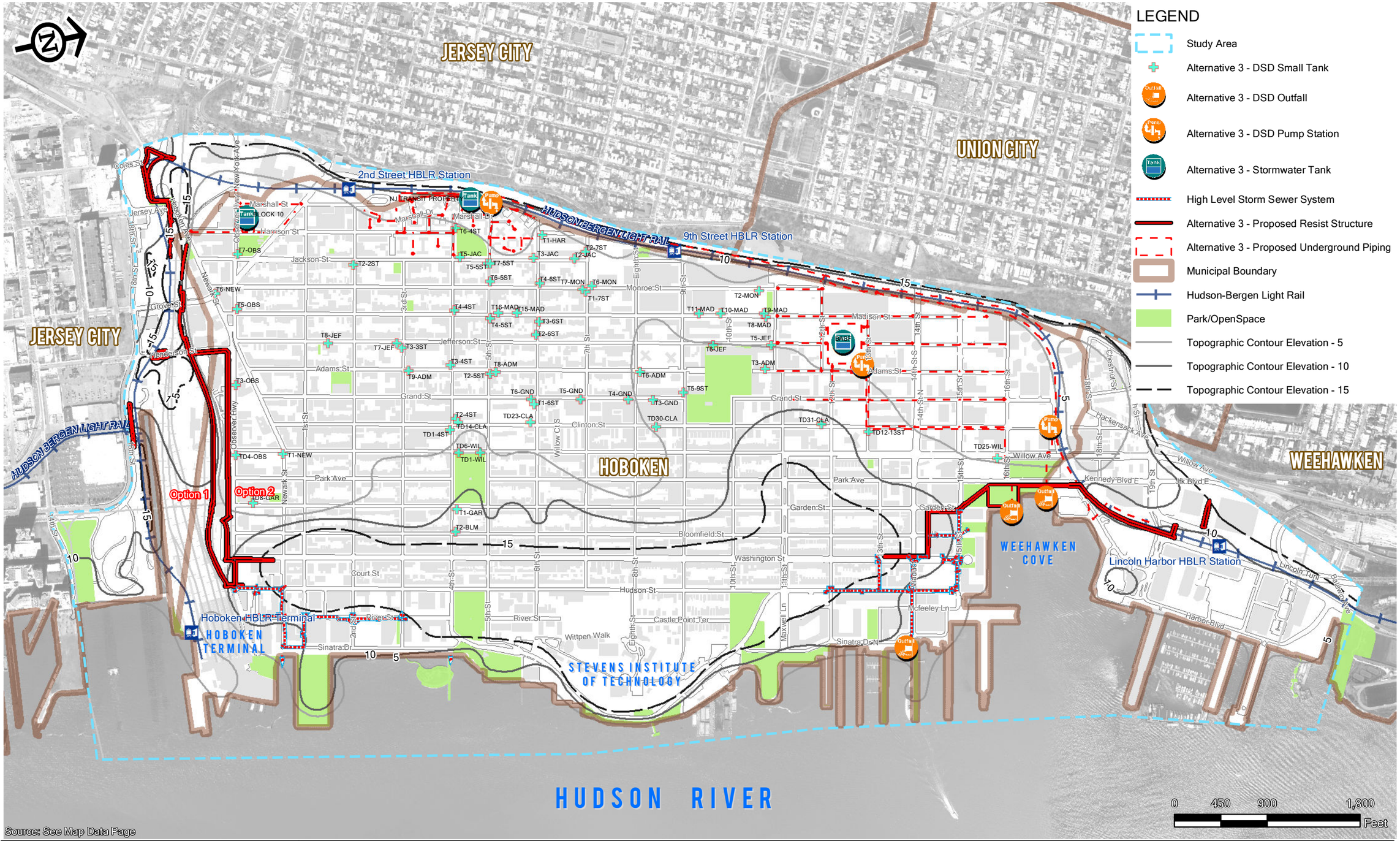
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

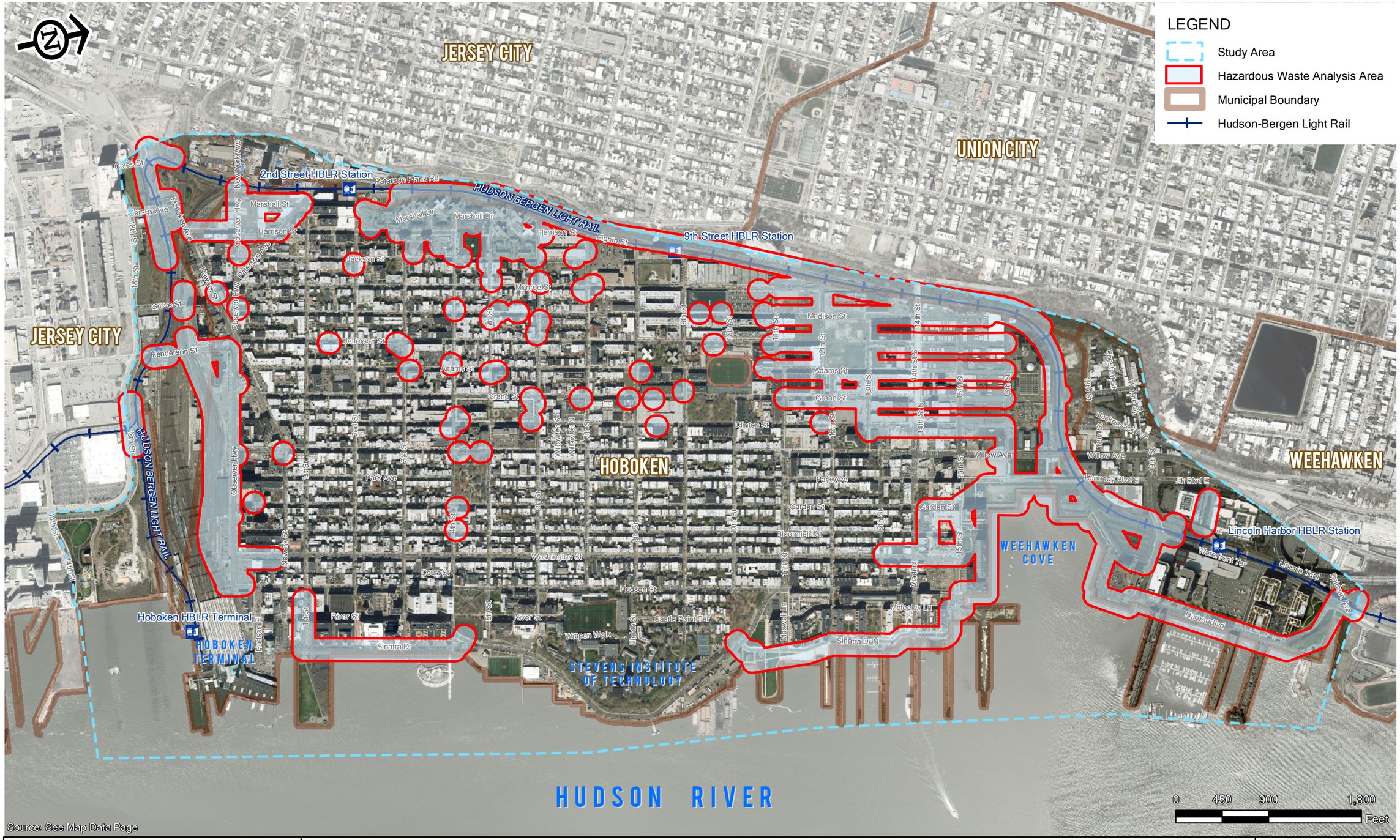
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Alternative 2

January 2017

FIGURE 8


JERSEY CITY
UNION CITY
HOBOKEN
WEEHAWKEN
WEEHAWKEN COVE
HUDSON RIVER
STEVENS INSTITUTE OF TECHNOLOGY
HOBOKEN TERMINAL
2nd Street HBLR Station
9th Street HBLR Station
Lincoln Harbor HBLR Station
Hoboken HBLR Terminal
HUDSON BERGEN LIGHT RAIL
NJ TRANSIT PROPERTY
Option 1
Option 2
Coles St
Jersey Ave
Grove St
Henderson St
Harrison St
Marshall St
Marshall Dr
Jackson St
Jefferson St
Adams St
Grand St
Clinton St
Monroe St
Madison St
Park Ave
Garden St
Bloomfield St
Washington St
Court St
Hudson St
River St
Wittpen Walk
Castle Point Ter
Sinatra Dr
Sinatra Dr N
Mcfeeley Ln
Willow Ave
Kennedy Blvd E
Jfk Blvd E
Lincoln Tun
Harbor Blvd
Chestnut St
Hackensack Ave
Observer Hwy
Newark St
Hudson Ave
Eighth St
Maxwell Ln
Willow Ct S
T1-HAR
T2-7ST
T1-7ST
T2-MON
T9-MAD
T10-MAD
T11-MAD
T8-MAD
T5-JEF
T6-JEF
T3-ADM
T6-ADM
T5-9ST
T4-GND
T5-GND
T6-GND
T3-GND
T1-6ST
T2-6ST
T3-6ST
T4-5ST
T5-5ST
T6-5ST
T7-5ST
T4-6ST
T7-MON
T6-MON
T5-JAC
T3-JAC
T2-JAC
T6-4ST
T4-4ST
T16-MAD
T15-MAD
T2-2ST
T7-OBS
T6-NEW
T5-OBS
T8-JEF
T7-JEF
T3-3ST
T3-4ST
T8-ADM
T9-ADM
T2-5ST
T3-OBS
T2-4ST
TD14-CLA
TD23-CLA
TD30-CLA
TD31-CLA
TD1-4ST
TD6-WIL
TD1-WIL
TD12-13ST
TD25-WIL
TD4-OBS
T1-NEW
TD5-CAR
T1-GAR
T2-BLM
T1-5ST
T2-3ST
T3-2ST
T4-3ST
T5-4ST
T6-3ST
T7-4ST
T8-5ST
T9-6ST
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T28-25ST
T29-26ST
T30-27ST
T31-28ST
T32-29ST
T33-30ST
T34-31ST
T35-32ST
T36-33ST
T37-34ST
T38-35ST
T39-36ST
T40-37ST
T41-38ST
T42-39ST
T43-40ST
T44-41ST
T45-42ST



Source: See Map Data Page

REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

Dewberry · State of New Jersey Department of Environmental Protection

Hazardous Waste Analysis Area Map

January 2017

FIGURE 10



Source: See Map Data Page

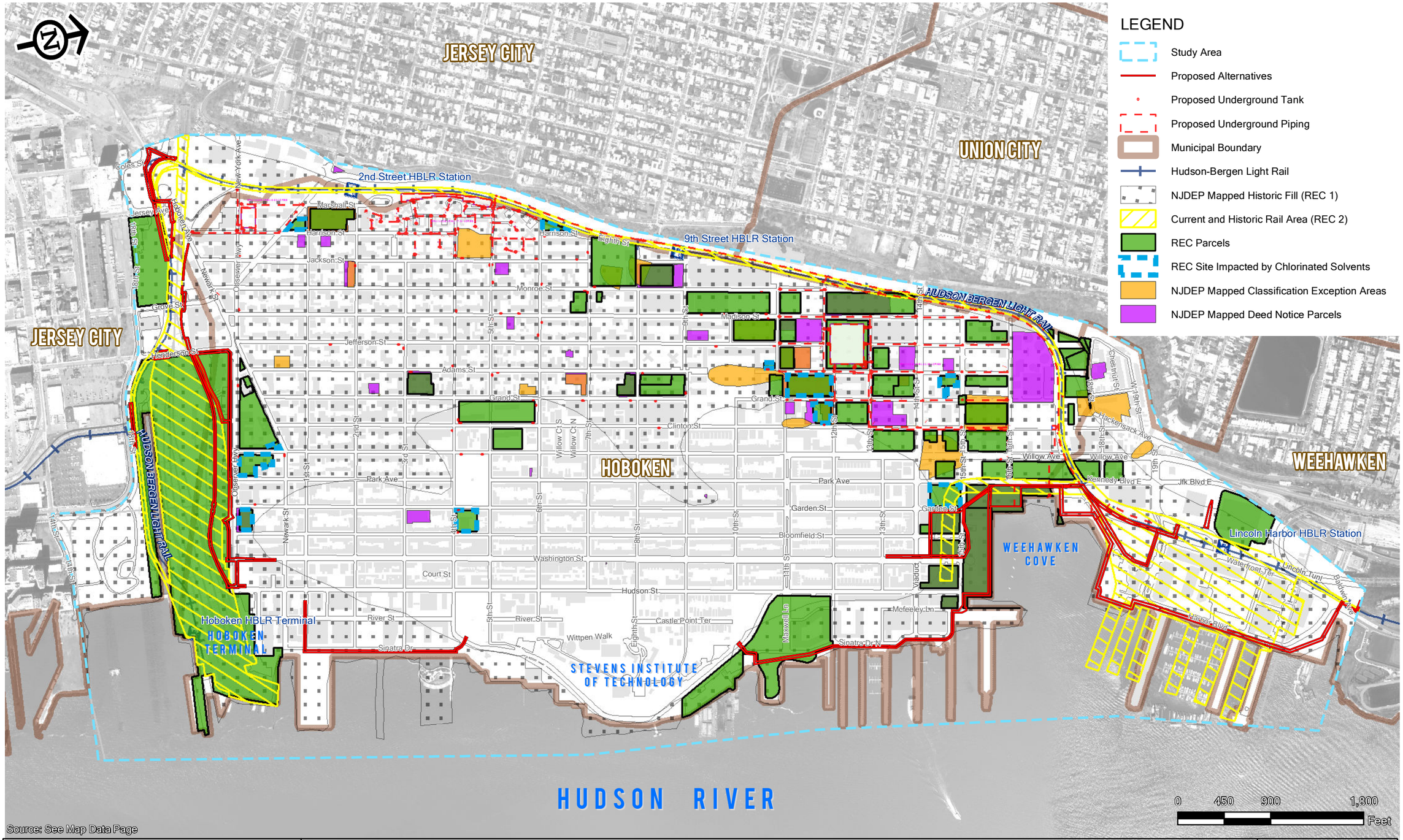
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Registered Underground Storage Tanks

January 2017

FIGURE 11



Source: See Map Data Page

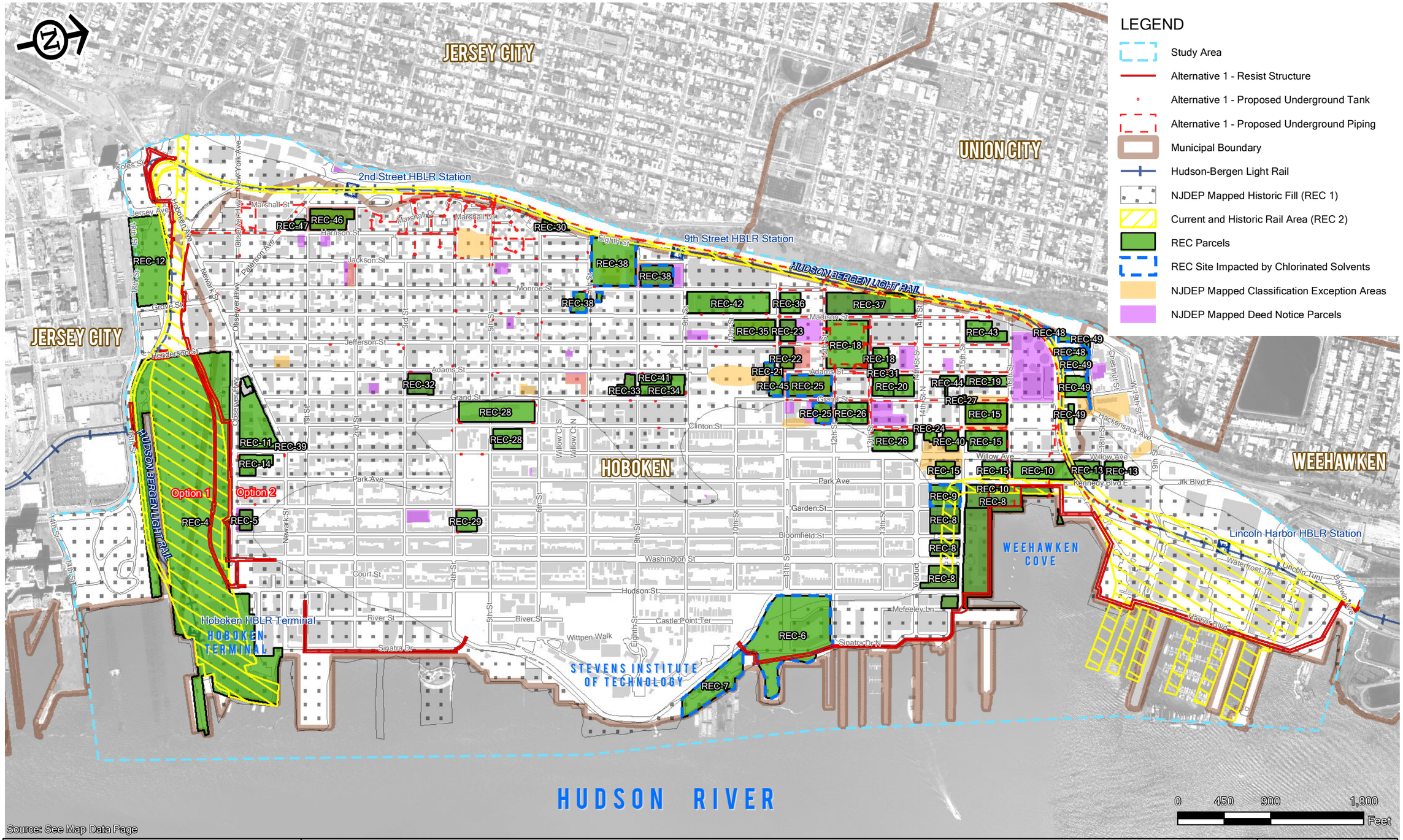
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Recognized Environmental Conditions

January 2017

FIGURE 12



Source: See Map Data Page

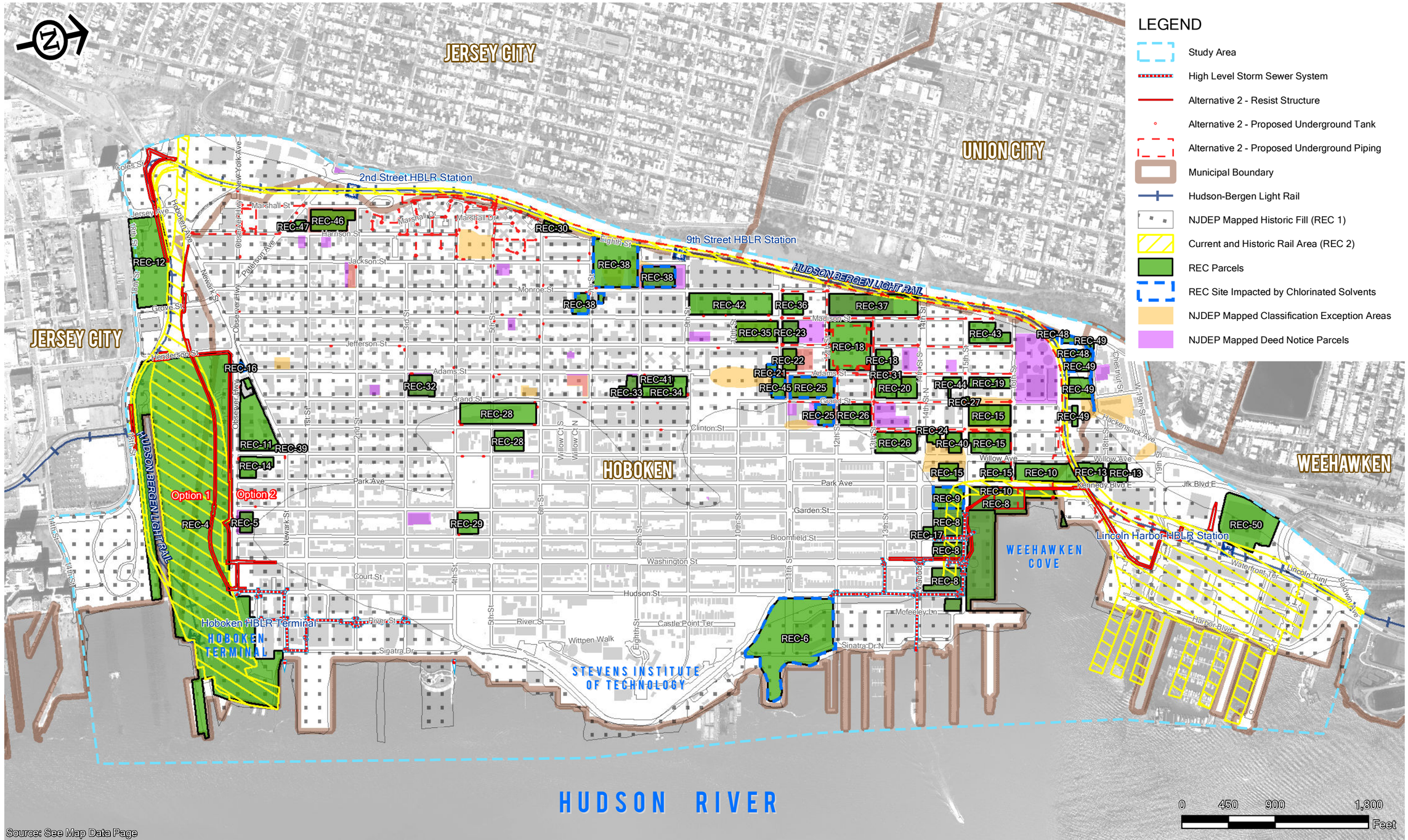
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Recognized Environmental Conditions - Alternative 1

January 2017

FIGURE 13



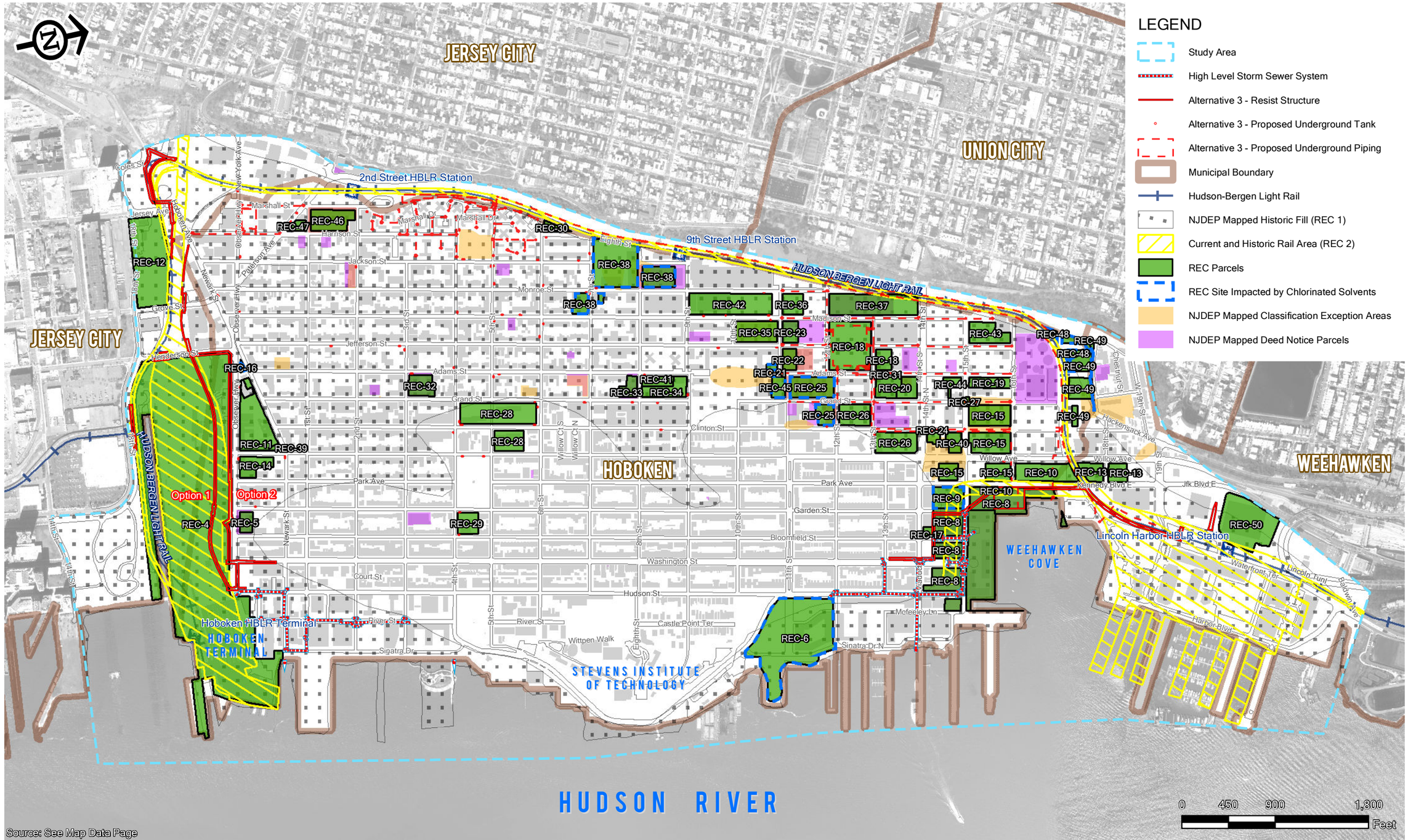
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Recognized Environmental Conditions - Alternative 2

January 2017

FIGURE 14



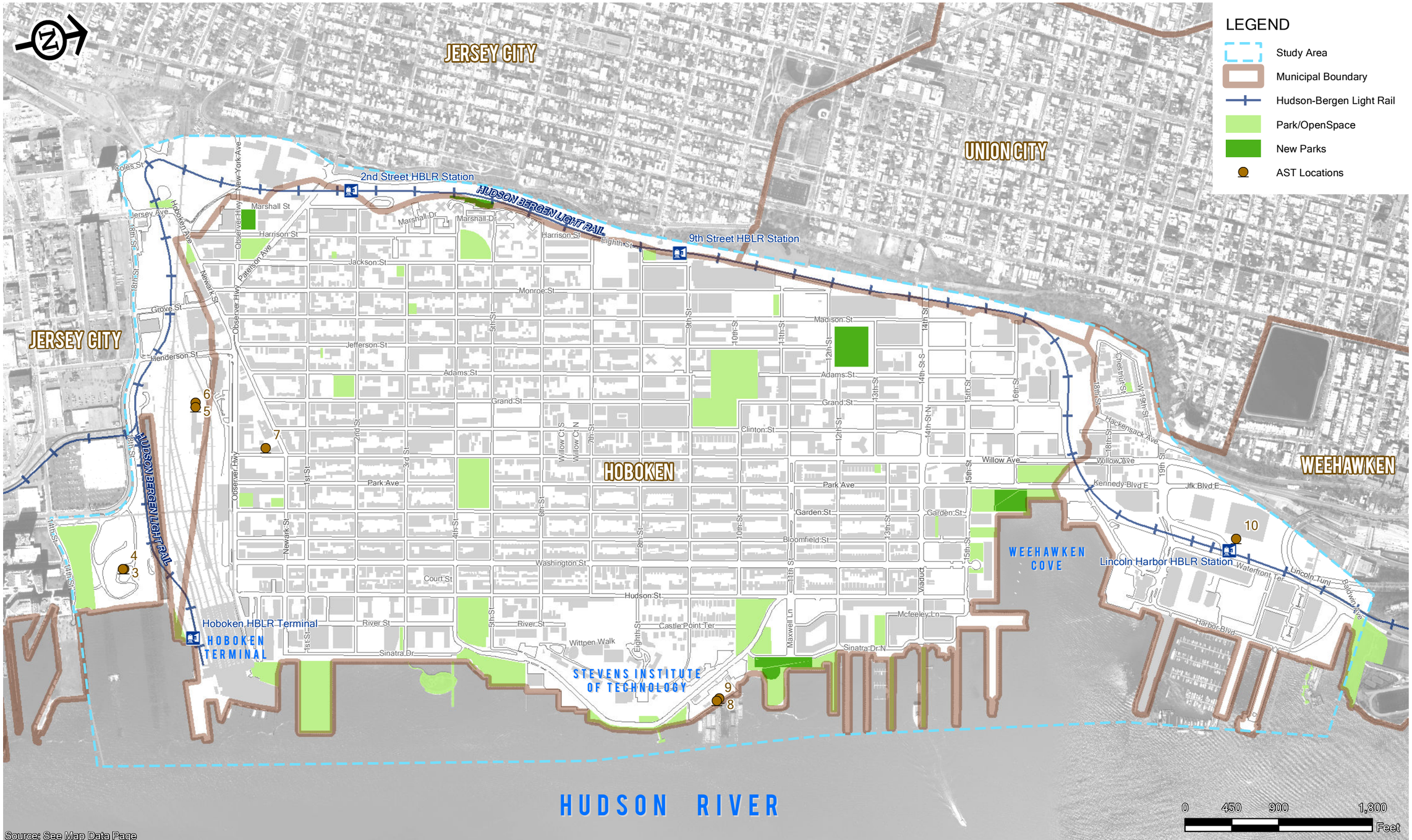
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Recognized Environmental Conditions - Alternative 3

January 2017

FIGURE 15



Source: See Map Data Page

REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

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Above-Ground Storage Tanks

January 2017

FIGURE 16

MAP DATA SOURCES

New Jersey Transit Corporation (NJ Transit), January 2012.

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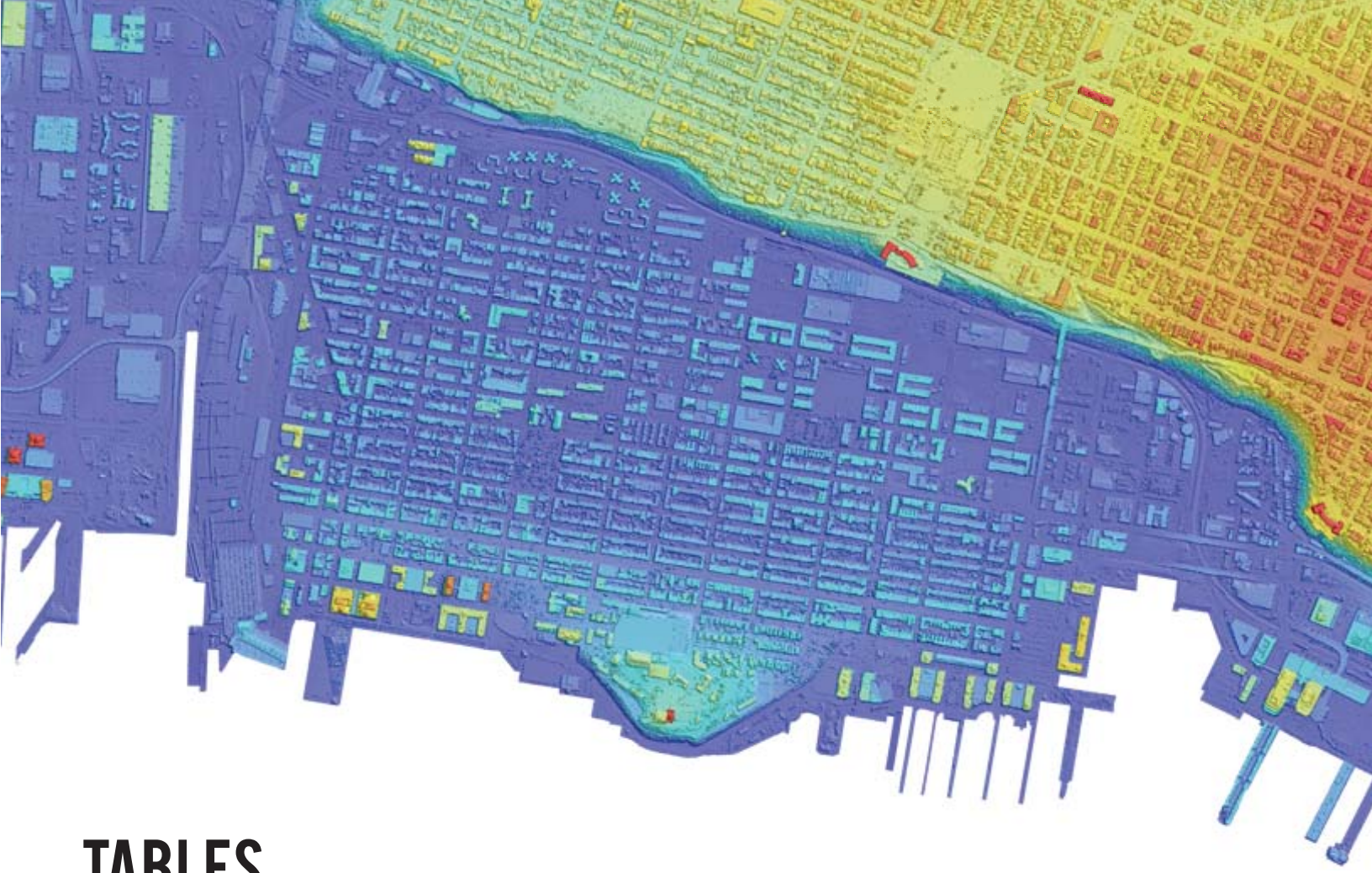
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TABLES

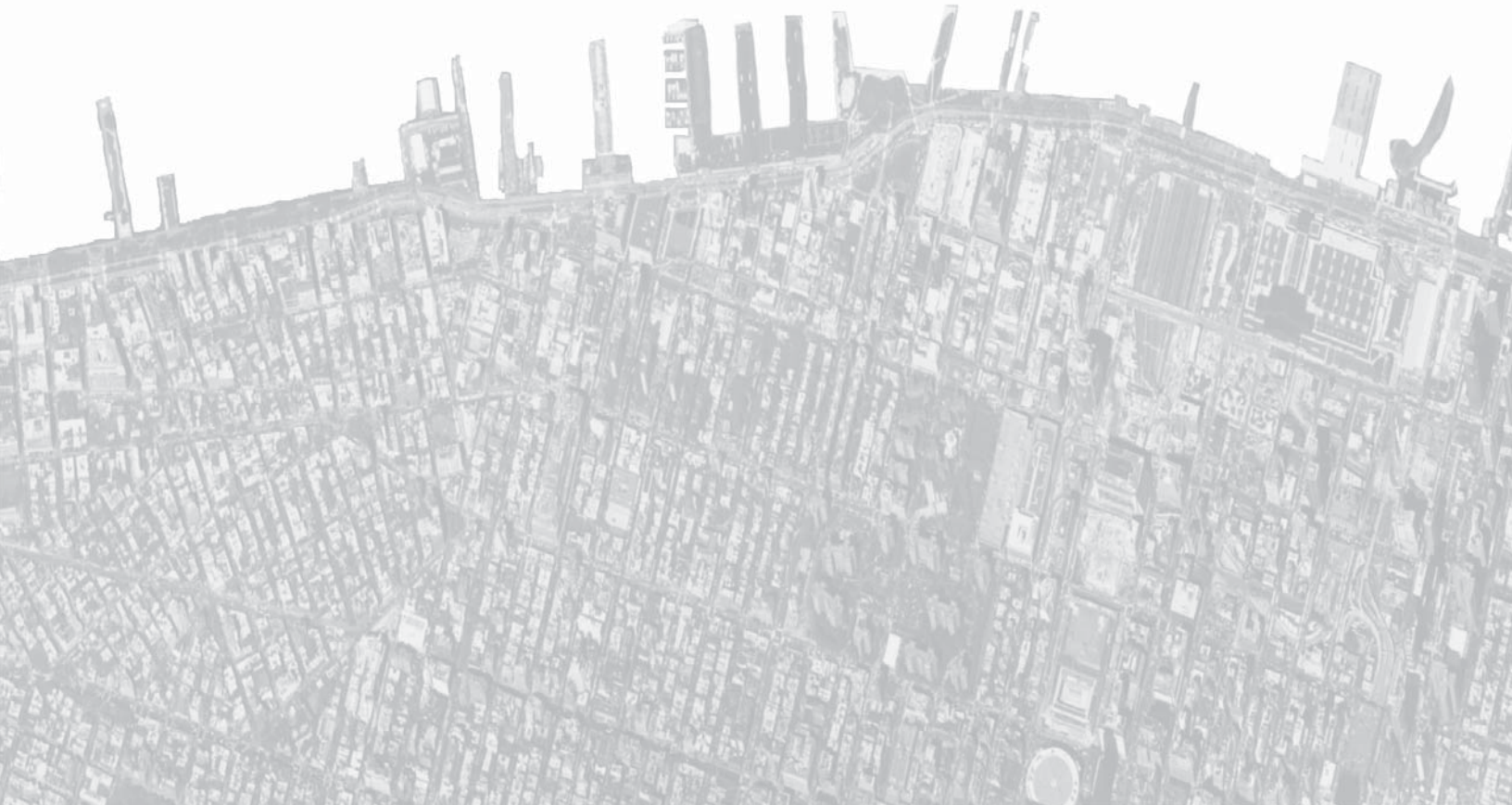


TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
1	Hudson River PCBs	No Street Applicable	US ENG CONTROLS	
	Hudson River PCBs	No Street Applicable	US INST CONTROL	
46	Lincoln Harbor,	Weehawken NJ	NJ Release	Case No. 00-08-24-2311-21; no additional information, data corruption.
48	1600 Harbor Blvd	Weehawken NJ	NJ Release	Case No. 08-05-24-1137-59; Near Charthouse pier, no additional helpful information.
50	1600 Harbor Blvd	Weehawken NJ	NJ Release	Case No. 00-05-23-1740-25; info redacted, data corruption, Not considered REC
62	Chart House Rest.	Pier on Hudson River	NJ Release	Case No. 98-05-12-1640-55; Red dye in water, unknown source.
64	Pump Station	Harbor Blvd, Weehawken	NJ Release	Case No. 99-04-20-0848-02; sewage overflow, loss of power and generator malfunction.
67	1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 10-10-31-1430-34; Incid. Loc. Lincoln Harb. Yacht club, citizen complaint.
69	1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 14-02-14-1838-50; Lincoln Harb. Yacht club, No additional information.
71	1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 10-10-31-1430-34; Incident Location Lincoln Harbor Yacht club, citizen complaint.
77	1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 06-06-07-1612-47; Lincoln Harbor Yacht club, citizen complaint, Source: Stevens Institute
79	Lincoln Harbor Yacht Club	1500 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 92-10-8-1542-33; Oil sheen on in river ~30sq. Ft.
82	Marina	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 00-01-10-1433-34; data corrupted, citizen notification, no additional information.
84	Lincoln Harbor Yacht Club	1500 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 93-8-12-1758-58; gasoline, 38ft boat sank, area boomed.
86	Lincoln Harbor Yacht Club	1500 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 91-5-9-0747-32; diesel fuel, vessel sank in slip.
88	On River Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ SHWS	Status: Closed, Site ID 169927.
	On River Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 94-4-27-1753-35; facility ID 7110, unknown liquid, sheen on river.
	On River Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 98-10-10-0906-57; facililty ID 32952, material on road running into waterway.
	On River Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 95-6-30-1024-16; citizan report, garbage, material floating in river.
	On River Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 89-06-29-1443; citizen report, suspected sewage, no additional information.
	On River Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 04-05-27-1211-58; citizen complaint, improper storage.
	On River Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 12-05-16-1552-50; Hudson River, Dock C, no additional information.
	On River Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 05-04-29-1347-42; Source: Stevens Institute.
	On River Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 13-02-18-0801-07; Incident location: Lincoln Marina, no additional information.
	On River Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 13-01-27-1210-13; Lincoln Harb. YC Slip B45, no additional information.
106	Lincoln Harbor Development	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 99-07-29-1536-53; citizen stated sewage rising fom beneath water since construction activities.
108	Lincoln Harbor	1500 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 97-4-28-1355-38; unknown red liquid, running into river from outfall.
110	Lincoln Harbor Yacht Club	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 99-07-14-1202-40; tug sunk, unknown cause.
112	Area of 1500 Harbor Rd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 89-09-21-2142; petroleum odors.
115	In Area of 1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 99-07-27-1455-56; material runing into waterway from pipe, citizen complaint. Workers doing sloppy job.
118	Lincoln Harbor Marina	1500 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 91-7-14-1336-12; diesel fuel, heat expansion of fuel tank caused spill; contained.
122	Lincoln Harbor Marina	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 00-06-25-2206-20; information radacted, spill caused by pole falling down.
124	1500 Harbor Blvd	1500 Harbor Blvd, Weehawken	NJ Release	Case No. 08-12-13-0947-40; Lincoln Harbor Yacht Club, no additional information provided.
126	1 Lincoln Harbor Heliport	900 Lincoln Harbor	NJ UST	Facility ID: 026378, 2 10,000-gall aviation fuel USTs removed 1989. no discharge reported.
180	Auto Tech Body Shop	1821 Willow Ave, Weehawken	NJ Release	Case No. 94-9-27-0916-00; Unknown liquid, fire/explosion at body shop, unknown amount.
182	Area of 1820 Willow Ave	1820 Willow Ave, Weehawken	NJ SPILLS	Case No. 89-08-24-1724; Facility ID 9760; waste oil, ~20gallons, contained.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
186	Exxon Service Station 3-2366	1836 Park Ave, Weehawken	NJ SPILLS	Case No. 00-06-12-1201-30; Facility ID 62780; no additional information.
189	Exxon Service Station #32366	1836 Park Ave, Weehawken	NJ SPILLS	Case No. 95-7-26-1610-59; gasoline, <1gal, due to leaking gas pump. Cleanup done by Fairfield maintenance contractors.
	Exxon Service Station #32366	1836 Park Ave, Weehawken	NJ Release	Case No. 03-03-24-1527-16; UST (*assumed leaking or discharge from) no additional information available.
193	Exxon Service Station	1836 Park Ave, Weehawken	NJ Release	Case No. 89-07-12-1118; diesel fuel, EDR states NONE released.
	Exxon Service Station	1836 Park Ave, Weehawken	NJ Release	Case No. 89-06-08-1629; Gasoline, "N/A" for amount released.
198	1836 Park Ave, Union City	OUTSIDE STUDY AREA		
199	1836 Park Ave, Weehawken	1836 Park Ave, Weehawken	EDR US Hist Auto Stat	Exxon Corp & Lincoln Tunnel Exxon, Most recent listing dated 2010.
	In Area of 4 West 19th ST	4 West 19th St., Weehawken	NJ Release	Case No. 95-5-23-2114-21; Citizen, sewage odors in area of resident home.
201	Area of 6 West 19th St.	6 West 19th St., Weehawken	NJ Release	Case No. 99-06-25-2238-22; strong odors of sewage, citizen reported.
203	6 West 19th St.	6 West 19th St., Weehawken	NJ Release	Case No. 02-04-21-1622-37; Citizen complaint, odors in area of North Hudson Sewage Authority.
205	In Area of 6 West 19th St.	6 West 19th St., Weehawken	NJ Release	Case No. 99-06-19-1556-02; caller complained of strong sewage odor.
207	Citizen	6 West 19th St., Weehawken	NJ Release	Case No. 95-5-23-2026-45; Strong sewage odors from STP.
209	Area of 6 West 19th St.	6 West 19th St., Weehawken	NJ Release	Case No. 99-06-11-1822-46; Ongoing sewage odors.
211	In the Area of 8 West 19th St.	8 West 19th St., Weehawken	NJ Release	Case No. 99-06-11-1820-05; strong sewage odors.
213	Area of 10 West 19th St.,	10 West 19th St., Weehawken	NJ Release	Case No. 99-05-14-2121-22; strong sewage odors in area.
215	Empty Lot	10 W 19th St., Weehawken	NJ Release	Case No. 93-7-2-1416-06; oil/diesel; property Owner sprayed Diesel fuel over 600 sq ft area to kill weeds.
217	In Area of 5A W 19th St.	5A W 19th St., Weehawken	NJ Release	Case No. 95-5-23-2046-30; strong sewage odors.
219	Area of Water Works	1899 Park Ave, Weehawken	NJ SPILLS	Case No. 98-06-24-1003-22; caller complaining about sewage running in street at location.
221	7 West 19th St.	7 West 19th St., Weehawken	NJ SPILLS	Case No. 07-04-30-0926-21; citizen complain, unknwn spill source at construction site.
223	In Area of 9A West 19th St.	9A West 19th St., Weehawken	NJ Release	Case No. 95-5-23-2034-38; sewage odor in area of home; citizen complaint.
225	Area of 9A W 19th St.	9A West 19th St., Weehawken	NJ Release	Case No. 99-05-14-2107-42; Strong sewage odors.
227	In Area of 9A West 19th St.	9A West 19th St., Weehawken	NJ Release	Case No. 99-06-11-1814-41; caller complaining of strong sewage odor.
229	35 Hackensack Ave, Kearny	35 Hackensack Ave, Kearny	NJ Release	OUTSIDE STUDY AREA
	35 Hackensack Ave, Kearny	35 Hackensack Ave, Kearny	NJ Release	OUTSIDE STUDY AREA
234	Shell Serv. Station	19th & Willow St., Weehawken	NJ Release	Case No. 88-10-14-1723; hydrocarbon contamination. Soil, 5 yards released, contained.
236	Shell Serv. Station	19th St. @ 1834 Willo, Weehawken	NJ Release	Case No. 90-01-03-1335; soil contaminated with gasoline, LUST.
239	Shell Service Station	1834 Willow St., Weehawken	NJ Release	Case No. 90-11-28-0943; fuel oil, ~1 quart, LUST-soil and tank removal.
245	1000 Harbor Blvd	1000 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 89-08-15-1510; facility ID 9366, unknown liquid & amount.
255	Residence	925 Harbor Blvd, Weehawken	NJ Release	Case No. 98-09-21-0915-53; citizen reported, resident dumping garbage in Hudson.
257	Apartment Complex	41 18th Street, Union City	NJ Release	Case No. 96-07-17-1508-13; caller reported that one (1) 1,500 gallon UST was removed and contained heating oil; contamination was found.
264	Action Partition Inc	3 18th Street	NJ Release	Case No. 93-07-19-0831-31; caller reported abandoned containers.
266	Private Residence	48 West 18th Street	NJ Release	Case No. 89-06-27-1557; spill related with sewage.
268	Area of 35 W. 18th Street	35 West 18th Street, Weehawken	NJ Release	Case No. 87-08-19-1442.
276	Area Near 68 W. 18th Street	68 West 18th Street, Weehawken	NJ Release	Case No. 05-05-16-2052-13.
	Area Near 68 W. 18th Street	68 West 18th Street, Weehawken	NJ Release	Case No. 99-03-23-2014-14; caller reported sewage type odors around residential area.
280	Area of 68 West 18th Street	68 West 18th Street, Weehawken	NJ Release	Case No. 99-03-26-1723-43; caller reported strong sewage odors in area of residence.
282	68 West 18th Street, Apartment 1	68 West 18th Street, Apartment 1, Weehawken	NJ Release	Case No. 05-08-29-1824-26; caller reported strong odors in the area.
284	68 West 18th Street	68 West 18th Street, Weehawken	NJ Release	Case No. 05-05-23-2222-43.
286	Area of 68 West 18th Street	Area of 68 West 18th Street, Weehawken	NJ Release	Case No. 99-05-14-2030-20; caller reported strong sewage odors in the area.
290	72 West 18th Street	72 West 18th Street, Weehawken	NJ Release	Case No. 05-08-29-1831-34; Caller reported odors in the area of STP.
292	In the Area of 80 West 18th Street	In the Area of 80 West 18th Street, Weehawken	NJ Release	Case No. 95-05-23-2033-28; caller reported strong odor of sewage in the area .

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
302	Under Willow St. Overpass	18th & Willow St., Weehawken	NJ Release	Case No. 91-6-20-1517-00; Citizen, soil pile contam. with unknown material for 8-12 months. Unidentified odor emerging.
306	Cocheo Brothers Inc.	1801-31 Willow Ave, Weehawken	NJ HIST HWS	Case Status: NFA-A (limited restricted use), Gase ID G000015809; CEA Ongoing.
	Cocheo Brothers Inc.	1801-1831 Willow Ave, Weehawken	NJ SHWS	Status: Closed, Site ID 67562, PI No. G000015809.
	Cocheo Brothers Inc.	1801-1831 Willow Ave, Weehawken	NJ INST CONTROL	Control for synthetic organic chemicals.
	Cocheo Brothers Inc.	1801-1831 Willow Ave, Weehawken	NJ BROWNFIELD	Known source or release with Groundwater contamination.
310	Near Boat Dock Spirit of NJ	Weehawken NJ	NJ SPILLS	Case No. 93-7-31-2318-38; citizen, raw sewage entering Hudson.
312	Hudson River	Weehawken NJ	NJ SPILLS	Case No. 91-10-8-1509-21; unknwn liquid, blue liquid sinking to bottom; NJSP marine bureau investigating.
	Hudson River	Weehawken NJ	NJ Release	Case No. 91-10-8-1530-28; unknwn blue liquid, reported by USCG to NJSP Marine Bureau.
316	Regulator Station	Park Ave Complex, Weehawken	NJ Release	Case No. 92-8-4-1738-47; Sewage bypass, regulators 2 and 3 closed for bypass, heavy rain.
318	Regulators 1, 2, 3	Weehawken NJ	NJ Release	Case No. 92-8-4-1032-58; regulators opened at 0910.
320	Regulators 1, 2, and 3 at -->	Park Ave.	NJ Release	Case No. 92-6-20-0955-18; Open regulators at 0930, stopped bypass.
322	Pump Station	Park Ave Regulators	NJ Release	Case No. 91-7-25-0850-44; regulators 1,2,3 bypass CSO closed due to rain being chlorinated.
	In Front of 500 Harbor Blvd	500 Harbor Blvd, Weehawken, NJ	NJ Spills	Case No. 91-06-29-0759-01; spill of diesel fuel due to tank ruptured on truck.
326	Regulator	18th & Park Ave	NJ Release	Case No. 93-3-25-1653-08; facility ending bypass on regulators.
328	Weehawkin Hoboken Stp	Park Ave & 18th St., Hoboken	NJ Release	Case No. 92-3-26-1824-17; sewage, regulator shut down.
330	Weehawken SA	18th St./Park Ave, Weehawken	NJ SPILLS	Case No. 98-12-31-1155-51; facility ID 36788, Sewage Authority. Had spill at pump station, **assumed sewage spill.
332	In Front of -->	500 Harbor Blvd	NJ SPILLS	Case No. 91-6-29-0759-01; ~25gal Diesel fuel, tank on truck ruptured, fire and health department will cleanup.
334	600 Harbor Blvd	600 Harbor Blvd, Weehawken	NJ Release	Case No. 04-09-23-0910-49; improper storage/disposal.
	600 Harbor Boulevard	600 Harbor Boulevard, Weehawken	NJ Release	Case No. 04-09-23-0910-49; improper disposal/storage of unknown content.
336	Off Lincoln Harbor Yacht Club	600 Harbor Blvd, Weehawken	NJ SPILLS	Case No. 94-5-30-1608-00; soil sheen (~200x40), unknwn source.
	Off Lincoln Harbor Yacht Club	600 Harbor Boulevard, Weehawken	NJ Spills	Case No. 94-05-30-1608-00; Caller reported oil sheen coming from an unknown source, approx 200x40ft.
339	Lincoln Harbor	Boulevard E, Weehawken	NJ SHWS	Status: Active; Site ID 66655; PI No. G000008796.
	Lincoln Harbor	Boulevard E, Weehawken	NJ ENG CONTROLS	PI No. 66655, Engineering control for base/neutrals, acids, metals, and TPH.
340	Lincoln Harbor	Boulevard E, Weehawken	NJ BROWNFIELD	PI No. G000008796; NFA Restricted Use 1991.
344	On Clinton and Grant	Clinton and Grant Street	NJ Release	Case No. 91-05-08-1306-55; caller reported that dust was blowing in air after removal of roof.
346	Conrail Corp	17th Street	NJEMS	N/A
	Weehawken Cove Walkway	Park Ave and 16th St	NJ NPDES	Permit No. NJG0175889 for Construction Activity Stormwater (GP). Effective 3/1/12 through 2/28/17.
360	Southwest Corner of 16th and Adam	16th and Adam Street	NJ Release	Case No. 97-04-02-1051-57; Caller reported illegal dumping of motor oil into storm drain.
377	Academy Bus	16th Street and Adams Street	NJ Spills	Case No. 90-08-21-1035; Facility ID 11311; Spill related to Diesel Fuel.
381	United Recyling	16th and Jefferson Street	NJ Spills	Case No. 01-01-12-1020-16; Facility ID 73070; Caller reported broken line on equipment caused a spill.
383	Area of 16th Street and Jefferson	16th and Jefferson Street	NJ Spills	Case No. 92-11-12-0944-38; Caller reported that oil transformer (non-PCB) was found leaking .
387	Hoboken City STP	1600 Adams	NJ Release	Case No. 08-12-31-0036-36.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 12-12-17-1028-20.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 12-12-06-2354-36.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 12-12-01-0104-55.
	Hoboken City STP	1600 Adams	NJ Release	Case No . 08-11-21-0205-37.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 13-09-20-1010-19.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 13-09-11-1619-37.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 12-08-16-2333-40.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 12-08-10-0026-15.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 12-07-31-0005-55.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 12-07-26-1103-37.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	Hoboken City STP	1600 Adams	NJ Release	Case No. 13-07-19-1024-19.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 13-07-19-1649-09.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 12-07-05-0647-01.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 12-06-22-0004-07.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 12-06-01-0030-51.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 10-05-26-0050-19.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 13-05-20-0948-28.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 13-05-20-1101-18.
	Hoboken City STP	1600 Adams	NJ Release	Case No. 13-05-18-0725-37.
	Hoboken City STP	1600 Adams	Brownfields	Site No. 6761; NFA-A Historic 6/23/1995, C1: No Formal Design-Source Known or Identified-Potential GW Contamination established 7/20/2000.
427	16th Street Pier	16th Street & Park	NJ Release	Case No. 93-5-20-1416-56; tar-like/oil substance, leaking drums, unknown material, illegal dumping.
	16th Street Pier	16th Street and Park	NJ Release	Case No. 93-5-20-1416-56 - illegal dumping. Numerous leaking drums of unknown material and pool of tar-like material within fenced area.
429	1600 Park Av	1600 Park Avenue, Hoboken	NJ Release	Case No. 08-03-01-0114-50; no additional information.
	1600 Park Ave	1600 Park Ave	NJ Release	Case No. 08-03-01-0114-50 - MOA. No other information listed.
431	H.W.U.C.S.A.	1600 Park Avenue, Hoboken	NJ SPILLS	Case No. 95-7-18-0007-00; sewage from filter pump station wet well due to heavy rainfall.
	H.W.U.C.S.A.	1600 Park Ave	NJ Spills	Case No. 95-7-18-0007-00 - sewage spill from pump station effluent wet well due to heavy rainfall. Spill on parking lot; no storm drains affected.
433	1622-1636 Park Avenue	1622-1636 Park Ave, Weehawken	NJ VCP	Incident No. 06-01-10-1533-15; MOA Exec. 08/09/06.
	1622-1636 Park Avenue	1622-1636 Park Avenue	NJ VCP	Incident No. 06-01-10-1533-15 - historical VCP.
434	1606 to 1610 Willow Ave	1606 to 1610 Willow Ave, Hoboken	NJ SHWS	Status: Active, Site ID 79496, PI G000037677.
	1606 to 1610 Willow Ave	1606 to 1610 Willow Ave, Hoboken	NJ ENG CONTROLS	PI G000037677; Restricted, Asphalt Cap for PAHs and Lead.
	1606 to 1610 Willow Ave	1606 to 1610 Willow Ave, Hoboken	NJ VCP	Current VCP, MOA exec. Date 4/4/07; PI G000037677.
	1606 to 1610 Willow Ave	1606 to 1610 Willow Ave, Hoboken	NJ BROWNFIELDS	Site No. 6805, no additional information.
	1606 to 1610 Willow Ave	1606 1610 Willow Ave	NJ SHWS; NJ Eng Controls; NJ VCP; NJ Brownfields; NJ EMS	Active SHWS. 2006 Deed Notice for benzo(a)pyrene, benzo(b)fluoranthene, lead, to 3.5 feet. A combination of asphalt cap, permeable cover, and slab in place. MOA dated 4/4/07. PI G000037677. Groundwater is impacted.
439	1606 to 1610 Willow Ave	1606 to 1610 Willow Ave, Hoboken	NJ HIST HWS	Case Status: Active, date 2/5/99, Case ID G000037677.
	1606 to 1610 Willow Ave	1606 1610 Willow Ave	NJ Hist HWS	Case status is active.
440	16th St/Willow Ave	16th St/Willow Ave, Hoboken	NJ Release	Case No. 11-01-08-1150-31; Water main break.
	16th Street / Willow Ave	16th Street / Willow Ave	NJ Release	Case No. 11-01-08-1150-31 - sewage bypass at water main break.
442	In Area of Willow & 16th St	In Area of Willow & 16th, Hoboken	NJ Release	Case No. 95-5-15-1148-16; strong sewage odors.
	Area of Willow & 16th St	Area of Willow & 16th St	NJ Release	Case No. 95-5-15-1148-16 - sewage odors.
444	Bio Medical Applicators	1600 Will Ave, Hoboken	NJ SPILLS	Case No. 97-11-1-0838-48; Facility ID 15299, formaldehyde, spill contained, land impacted.
	Artificial Turf Field 1600 Park	16th and Willow Ave	NJ NPDES	Permit No. NJG0194841 for Construction Activity Stormwater (GP). Effective 3/1/12 through 2/28/17.
	Bio Medical Applicators	1600 Willow Ave	NJ Spills	Case No. 97-11-1-0838-48 - an unknown quantity of formaldehyde spilled. Approximately 20 workers evacuated as precaution.
448	Between 15th and 16th Street	Grand Street	NJ Release	Case No. 99-10-20-1349-28; Caller reported that contaminated ground water from excavation was being pumped into sewage drain.
450	Tri City Sewage Authority	16th & Grand	Brownfields	Site No. 347.
452	Hoboken Wastewater Plant	16th & Grand	NJ Release	Case No. 90-08-13-1658; caller reported illegal dumping of oil on property.
456	PSE&G Hoboken Laydown Area	1622 Clinton Street	RCRA-LQG	LQG - lead. No violations.
464	1622 Clinton Street	1622 Clinton Street	NJ Spills	Case No. 14-05-28-1535-58 - spill terminated at PSE&G construction site.
466	Vacant Lot	17th & Madison	NJ Release	Case No. 87-05-14-1548 - illegal dumping of 8 to 10 twenty-yard containers of metal building debris released daily.
468	Agresta Bus Co	15th and Madison	NJ Release	Case No. 88-10-26-1738 - illegal dumping of unknown quantity of used motor oil.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
470	Alpine Carting	15th & Madison	NJ Release	Case No. 95-6-1-1809-13 - contaminated soil found under weight scale that was condemned by weights and measures. Unknown substance and quantity.
472	1521-1541 Madison St	1521-1541 Madison St	NJ Release	Case No. 11-07-14-1044-45 - soil contamination at Academy Bus.
477	Jefferson & 15th Streets	Jefferson & 15th Streets	NJ Release	Case No. 11-02-25-1908-05 - Citizen complaint at Mile Square Towing.
	Jefferson St Properties	1500 Jefferson St.	NJ Hist LUST; NJ UST	Site issued NFA for area of concern. Tanks removed: (2) 5,000-gal light diesel fuel.
484	Franmar Realty (AKA Academy Express LLC)	1515 Jefferson St	NJ UST	(1) 12,000-gal light diesel fuel UST in use; (1) 5,000-gal light diesel fuel UST removed.
	1520-30 Jefferson St	1520-30 Jefferson St	NJ Release	Case No. 12-02-26-0615-38 - leaking UST under sidewalk at Mile Square Towing.
489	1530 Jefferson Street	1530 Jefferson Street	NJ Spills	Case No. 12-02-25-1600-44 - residential spill.
491	In Lot 16th & Garden	16th & Garden, Hoboken	NJ SPILLS	Case No. 91-7-24-1128-25; facility ID 10947, suspected antifreeze, citizen incident.
493	Hudson Transfer Systems Inc	15th St between Jefferson and Adams	NJ Hist LF	Transfer Station is closed.
494	15th & Adams St	15th & Adams St	NJ Spills	Case No. 05-06-17-1236-31 - Spill at Academy Bus.
496	15th & Adams St	15th & Adams St	NJ Release	Case No. 05-06-15-1449-35 - Equipment upset in intersection.
498	Omi water Treatment	1600 Adams St	NJ Release	Case No. 92-11-23-0359-49 - Raw sewage overflowed to the ground because of rain.
500	Omi water Treatment	1500 Adams St	NJ Release	Case No. 93-10-21-1740-28 and others - Hudson River bypass due to rainfall - sewage spill to ground.
	Hoboken Sewage	1500 Adams St	NJ Release	Case No. 92-6-6-1122-27 - Regulator opened.
	Poggi Press	1501 1531 Adams St	NJ SHWS; NJ LUST; NJ UST; RCRA-SQG	SHWS is active. (1) 4,000-gallon unleaded gasoline UST removed.
	Poggi Press	1501 1531 Adams St	NJ Release	Case No. 13-12-06-0820-24 - UST release.
	1600 Adams St	1600 Adams St	NJ Release	Case No. 12-09-11-1030-23 - NJPDES sewer release.
	1600 Adams St	1600 Adams St	NJ Release	Case No. 12-09-18-1437-38 and 14-10-04-1808-15 and 92-1-9-1401-15 and 99-11-02-1647-13 and 93-12-19-0157-38 and 92-7-3-1750-33 and 10-12-01-1548-45 and 92-8-28-2148-59 and 14-10-28-0810-21 and 92-1-4-0637-14 and 92-3-10-2018-53 and 92-7-15-1903-39 and 96-11-3-0828-13 and 92-2-25-2249-03 and 13-12-06-0040-10 and 92-9-3-1026-35 and 92-8-3-1659-21 and 92-9-10-1423-17 and 92-1-23-0922-50 and many others - sewage bypass.
	Hoboken Union City Weehawken Sewerage Authority	1600 Adams St	NJ UST	(1) 600,000-gal UST unknown contects removed; (1) 4,000-gal medium diesel fuel removed.
	Hoboken Waste Water Plant	1600 Adams St	NJ Spills	Case No. 93-12-30-1219-52 - unknown amount of antifreeze spilled from underground heating pipe .
	Academy Bus Lines Inc	1600 Adams St	NJ Release	Case No. 92-7-31-0729-00 - motor oil release from dumping oil onto ground from bus oil changes (illegal dumping).
905	Hoboken Treatment Plant	1600 Adams St	NJ Spills	Case No. 91-4-16-0801-52 - polymer released over weekend - citizen complaint.
918	Pole at 15th and Park St.	15th & Park St. Hoboken	NJ SPILLS	Case No. 92-4-27-0613-49; transfer oil, unknown PCB. Less than 100-gallon. Some entered sewer.
	Pole At 15th & Park St	15th & Park St	NJ Spills	Case No. 92-4-27-0613-49 - less than 100 gallons of transformer oil (PCB unknown) spilled due to a motor vehicle accident. Some oil went into sewer.
920	Old Todd Shipyard	Park Ave & 15th Str. Hoboken	NJ BROWNFIELDS	Inactive, out of use, vacant. DEED notice, Known Source/release w/ GW contam. Est. 11/18/03.
	Old Todd Shipyard	Park Ave & 15th Str. Hoboken	NJ NPDES	Remedial Action; Construction Activity Stormwater GP.
	Old Todd Shipyard	Park Ave and 15th St	NJ Brownfields/ NJPDES	Site is listed as vacant. Originally owned by Todd Shipyard Corporation with several onsite buildings and a warf extending into the Hudson River. The buildings have been demolished. Also a KCSL.
923	Hoboken Weehawken Cove Pk	Park Ave & 15th Str. Hoboken	NJ SHWS	Status: Active, Site ID 63602, PI No. 456589 and G000000388.
	Hoboken Weehawken Cove Pk	Park Ave & 15th Str. Hoboken	NJ VCP	Current VCP, MOA exec. Date 01/08/08; PI 456589.
	Hoboken Weehawlken Cove Park	Park Ave and 15th St	NJ SHWS, NJ VCP	SHWS is active. MOA executed 1/8/2008.
924	U.S. Testing/Lot Off Garden St.	15th St & Park Ave	NJ SPILLS	Case No. 91-7-24-1116-09; unknown Green Liquid, 100+gals released. Vac used to recover.
926	Open Lot Area	15th St & Park Ave	NJ SPILLS	Case No. 89-10-28-1802; Facility ID 12418, #4 fuel oil, spill/illegal dumping.

TABLE 5-1
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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
928	Todd Shipyards Corp Former	Park Ave & 15th Str. Hoboken	NJ ENG CONTROLS	Site ID 63602, PI 456589, Deed Notice for PCBs, metals, PAHs, Historic fill.
	Todd Shipyards Corp Former	Park Ave & 15th Str. Hoboken	NJ INST CONTROL	CEA Case Track #101240, Duration not reported.
	Todd Shipyard Corp	Park Ave and 15th St	NJ Eng Controls, NJ Inst Control	Deed notice of Hoboken-Weehawken Cove park walkway for Aroclor 1260, arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, historic fill, indeno(1,2,3-cd)pyrene, lead. Cap is a combination of pervious and impervious cover. A CEA was established 2/10/2015 for arsenic and lead.
932	Abandoned Lot at Park Ave & 15th	Park Ave & 15th Str. Hoboken	NJ Release	Case No. 92-7-6-1036-40; soil contamination with unknown material, discovered from previous UST removal, cleanup being done.
	Abandoned Lot	Park Ave and 15th St	NJ Release	Case No. 92-7-6-1036-40 - during excavation from a previous UST removal, contamination soil was discovered. Contaminants unknown. Clean up in progress.
	Old Todd Shipyard	Park Ave and 15th St	NJ Hist HWS	Active in 2003.
	1501 Park Ave	1501 Park Ave	NJ Spills	Case No. 12-07-16-1552-18 - No other information given.
	Spina's Autobody	1500 Park Ave	Hist Auto Sat	Listed from 1999 to 2012.
934	Old Todd Shipyard	Park Ave & 15th Str. Hoboken	NJ HIST HWS	Case Status: Active, date 11/18/03.
935	1501 Park Ave	1501 Park Ave, Hoboken	NJ SPILLS	Case No. 12-07-16-1552-18; no additional information.
937	1500 Park Ave	1500 Park Ave, Hoboken	EDR US Hist Auto Stat	Spina's Auto Body to 2010, Gold coast Auto body 2012.
944	Area of 15th St & Willow Ave	15th St & Willow Ave, Hoboken	NJ Release	Case No. 91-11-19-1140-21; suspected fuel oil, citizen/caller saw material running into storm drain.
	Area of 15th and Willow Ave	15th St and Willow Ave	NJ Release	Case No. 91-11-19-1140-21 - complaint of possible fuel oil running into storm drain.
	Willow Ave and 15th St	Willow Ave and 15th St	NJ Spills	Case No. 10-06-08-1126-31 - spill on roadway.
	Sanitary and Storm Sewer	15th St and Willow Ave	NJ Spills	Case No. 88-02-15-1241 - gasoline odors reported.
	Central Ave Near 15th and Willow Ave	15th and Willow Ave	NJ Spills	Case No. 01-02-08-1128-43 - a 55-gallon drum fell off of a truck causing spill. Cleanup by responsible party.
	Park Willow LLC	1516-1532 Park Ave	RCRA-LQG	2014 listing for lead, cadmium.
	Alorna Coat Corp	1515 Willow Ave	NJ UST	A 20,000-gallon No. 2 heating oil tank is listed as out of service.
	River Bed on Park Ave	Between 15th and 16th	NJ Release	Case No. 92-5-11-0646-14 - a partially removed UST (10 feet by 30 feet) was reported to be leaking a substance into the river. Sloppy housekeeping.
	Clearview Cinema Movie Theatre	409 14th Street	NJ SHWS, NJ Eng Controls, NJ Inst Controls	Active SHWS. 2009 deed notice for arsenic, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, beryllium, cadmium, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, lead, zinc. Cap is asphalt cap, concrete cap, soil and slab. A 2010 CEA is in place for Block 114 Development LLC for arsenic.
946	Willow Ave & 15th St	Willow Ave & 15th St., Hoboken	NJ SPILLS	Case No. 10-06-08-1126-31; unknown source, spill on roadway, no additional helpful information.
948	Sanitary & Storm Sewer	15th St & Willow Ave, Hoboken	NJ SPILLS	Case No. 88-02-15-1241, gasoline, unknown amount.
950	Central Ave Near 15th&Willow	Central Ave near 15th & Willow	NJ SPILLS	Case No. 01-02-08-1128-43; 55-gal drum fell off truck, clean TBC by RP.
966	Hoboken Carpet Cleaning Works	1525 Willow Ave, Hoboken	EDR US Hist Cleaners	Cleaner had year of 1926.
967	River Bed on Park Ave	Btwn 15th & 16th St, hoboken	NJ Release	Case No. 92-5-11-0646-14; citizen reported, suspected oil sludge, unknown amount, partially removed UST leaking into river, no cleanup.
982	409-415 14th St	409-415 14th St	NJ Release	Case No. 14-11-04-1336-25 - unknown soil contamination.
984	1404-1406 Grand St	1404-1406 Grand St	NJ Release	Case No. 14-11-04-1342-07 - unknown soil contamination.
	P&B Trailer Service Inc.	1410 Grand St	NJ UST	A 250-gal waste oil UST was removed in 2000.
988	1414 1418 Grand Street	1414 1418 Grand Street	NJ SHWS	SHWS is active.
989	Ft of Grand Ave/15th St	Ft of Grand Ave/15th St	NJ Release	Case No. 91-7-25-1659-23 - suspected dumping of 15,000 cy of contaminated soil.
991	Intersection of Grand and 15th	Intersection of Grand and 15th	NJ Spills	Case No. 99-10-20-1237-12 - discovered oil sheen while excavating for manhole installation. Suspected soil contamination, cleanup in progress.
993	International Bus	1500 Clinton Ave	NJ Spills	Case No. 91-11-14-1558-01 - 25 gal of diesel oil spilled during delivery. Cleanup underway.
997	Toni Linda	1501 1507 Clinton St	NJ SHWS	The SHWS is listed as active.

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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
998	Area of 15th and Clinton	15th and Clinton	NJ Spills	Case No. 99-06-09-1459-09 - small amount of material spilled and went into storm drain while trying to empty a 55-gallon drum. Cleaned up by Fire Department.
1001	Grayline Bus Company	1500 Clinton St	NJ Release	Case No. 93-3-2-1157-32 - soil sampling revealed soil contamination. Facility has sloppy housekeeping practices.
1003	Grayline Bus Company	1500 Clinton St	NJ Spills	Case No. 92-7-6-1138-49 - 50-100 gallons of diesel fuel spilled when a bus hit a diesel pump, ripping off the hose.
	Grayline Bus Company	1500 Clinton St	NJ Spills	Case No. 92-7-6-0905-29 - a 10,000-gallon diesel AST was reported to be leaking onto the ground.
	International Bus Services Inc.	1500 Clinton St	NJ SHWS, NJ Hist HWS, NJ Inst Control	The SHWS is active. A 2006 CEA is in place for #2 fuel oil, benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, lead, naphthalene, synthetic organic chemicals. Duration of CEA is 99 years.
	Area of 1500 Clinton	1500 Clinton	NJ Spills	Case No. 01-06-22-1148-04 - spill due to bus hitting a drum. Fire department doing cleanup.
	International Bus Service	1500 Clinton St	NJ Spills	Case No. 92-8-10-1028-30 - 5-10 gallons of diesel fuel leaked from a bus.
	Coach Services America Inc.	1500 Clinton St	NJ LUST, NJ UST, NJ Spills, NJ VCP, NJ Brownfields	LUST Case ID 6431. Three medium diesel fuel USTs were abandoned in place and a waste oil UST was removed in 1967. A medium diesel fuel UST was removed in 1980. A 12,000-gallon medium diesel fuel UST was removed in 2003. Case No. 01-06-22-1245-55 - a bus pan rupture caused a spill. VCP incident number 86-12-17-03M. The site is lited as a Brownfields site since 1991.
1029	450-456 14th St	450-456 14th St	NJ Release	Case No. 10-05-22-1043-21 - No other info provided.
1032	Haulaway Residence	1419 Adams St	NJ Spills	Case No. 92-5-12-1116-28 - 35 gallons of diesel fuel spilled on customer's property. Cleanup in progress.
1034	1419 Adams St	1419 Adams St	NJ Release	Case No. 14-05-27-1625-03 - UST release.
1036	Haulaway Incorporated	1419 Adams St	NJ LUST, NJ UST, NJ Release	LUST Case ID 13893. Two 4,000-gallon medium diesel fuel USTs were removed in 2014. Case No. 94-1-3-1026-41 - an oil-like substance leaked from trucks and washed into the sewer (illegal dumping).
1040	351-357 14th Street	351-357 14th Street	NJ Release	Case No. 14-11-04-1345-55 - unknown source soil contamination in the area.
1042	Residence	358 14th Street	NJ Release	Case No. 95-7-18-1101-39 - 550-gallon UST suspected to be leaking. Sheen in sump pump well.
1044	358 14th Street	358 14th Street	NJ Release	Case No. 13-06-11-1243-43 - UST at residence.
1046	358 14th Street	358 14th Street	NJ SHWS	SHWS is closed.
	Carpe Diem Restaurant	364 14th Street	NJ Release	Case No. 14-10-21-0817-13 - soil contamination, unknown source.
1048	1405 Clinton LLC	1405 Clinton St	NJ Release	Case No. 10-04-22-1021-28 - residential UST.
1053	Artisan Apartments	1408 Clinton St	NJ Release	Case No. 14-10-21-0823-35 - soil contamination, unknown source.
1057	1500 Washington St.	1500 Washington St, Hoboken	NJ Release	Case No. 10-12-28-1638-06; Odors area of, citizen complaint.
	1500 Washington St.	1500 Washington St, Hoboken	NJ Release	Case No. 06-11-02-0558-41; area of 1600 Adams, citizen complaint.
1061	1211 Park Avenue	1211 Park Avenue	NJ SHWS, NJ Release	SHWS is closed. Case No. 07-10-03-0944-41 - residential UST.
1063	HUCWSA	1213 Park Avenue	NJ Release	Case No. 93-9-25-2348-56 - sewage bypass due to heavy rain.
1065	1211 Park Avenue	1211 Park Avenue	NJ Release	Case No. 08-02-27-1129-41 - residential UST.
1067	1213 Park Ave	1213 Park Avenue	NJ Release, NJ VCP	Case No. 04-05-11-1631-19 - residential UST. Incident No. 04-05-11-1631-19. VCP is historical.
1072	Willow View Estates	1203-1207 Willow Ave	NJ VCP	Incident No. 99-02-04-0954-13. MOA was executed 4/5/1999. VCP is historical.
	Willow View Estates	1203-1207 Willow Ave	NJ Spills	Case No. 99-02-04-0954-13 - one 1,000-gallon UST abandoned in place. Soil contamination found, cleanup in progress.
	1222 Park Ave	1222 Park Ave	NJ Release	Case No. 09-10-19-1144-31 - Brownstone building being renovated; improper storage/disposal.
	1225 Park Ave	1225 Park Ave	NJ Release	Case no. 12-06-21-1206-36 - residential UST. Status is terminated.
	1213 Park Ave	1213 Park Avenue	NJ SHWS	SHWS is closed. Case No. 07-10-03-0944-41 - residential UST.
1080	Lisa Resident	1231 Park Ave	NJ Spills	Case No. 00-12-22-1222-29 - residential spill.
1082	Northvale III A	1233 Park Ave	NJ Spills	Case No. 99-02-04-1014-46 - One 3,000-gallon UST abandoned in place. Contamination found. Clean up in progress.
1084	Northvale III Associates	1233 Park Ave	NJ Release, NJ VCP	Case No. 04-06-24-1421-45 - citizen complaint of improper storage in dumpster. Historical VCP incident No. 99-02-04-1014-46. MOA executed in 1999.
1087	1238 Park Avenue	1238 Park Ave	NJ SHWS, NJ Release	SHWS is closed. Case No. 08-05-28-1713-07 - residential UST.
	1240 Park Avenue	1240 Park Avenue	NJ SHWS	SHWS is closed.
	1240 Park Avenue	1240 Park Avenue	NJ Release	Case No. 13-08-16-1043-29 - citizen complaint of odors from a construction site. Case No. 11-07-21-1148-36 - residential UST.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	Willow View Estates	1209-1213 Willow	NJ Spills	Case No. 99-02-04-0957-03 - One 1,000-gallon UST was abandoned in place and soil contamination was found.
	Willow View Estates	1209-1213 Willow	NJ VCP	Historical VCP Incident No. 99-02-04-0957-03. MOA was executed in 1999.
1096	Willow View Estates	1209-1213 Willow	NJ Spills	Case No. 99-02-04-0946-19 - A 1,000-gallon residential UST was abandoned in place and contamination was found. Clean up was in progress.
1098	1215 Willow Ave	1215 Willow Ave	NJ Release	Case No. 05-03-10-0714-32 - citizen complaint of odors.
	Willow View Estates	1215-1219 Willow Ave	VCP	Historic VCP Incident No. 99-02-04-0946-19. MOA executed in 1999.
1102	Area of 311 13th St	311 13th St	NJ Release	Case No. 97-8-20-1113-05 - citizen report of strong chemical smell in the area.
1104	Area of 311 13th St	311 13th St	NJ Release	Case No. 93-9-22-2133-01 - citizen complaint of odors.
1106	Area of 311 13th St	311 13th St	NJ Release	Case No. 94-6-22-0920-51 - Citizen complaint of chemical odors.
1108	Meerafzal Fazaldin Inc. Willow Sunoco	1301 Willow Ave	NJ SHWS	SHWS is active.
	Willow Sunoco	1301 Wilow Ave	NJ Historic LUST, NJ Spills, US Airs	Case No. 94-7-6-1625-37 - storage tank pressure build up caused overflow of 200 gallons of gasoline. Vacuum truck on site for clean up.
1114	Willow Sunoco Service Station	1301 Willow Avenue	NJ Historic LUST	Case No. 94-07-06-1625
1116	Willow Sunoco Service Station	1301 Willow Avenue	VCP	VCP Incident No. 94-07-06-1625-37 - Historical VCP. MOA executed in 1997.
	Willow Exxon	1301 Willow Ave	NJ LUST, NJ UST	LUST Case ID 16234. Two 6,000-gallon unleaded USTs, one 1,000-gallon waste oil UST and one 4,000-gallon leaded UST were removed in 1987. One 1,000-gallon No. 2 heating oil UST was removed in 1999. One 8,000-gallon unleaded gasoline UST, two 6,000-gallon unleaded gasoline USTs, one 1,000-gallon waste oil UST are in use.
1121	1300 Willow St	1300 Willow St	NJ Release	Case No. 11-11-30-1208-28 - citizen complaint of odors.
1127	Rite Aid Pharmacy & Laundromat	1316-1330 Willow Ave	NJ UST	One 3,000-gallon No. 2 heating oil UST was abandoned in place in 1999.
1128	Gulf Service Station #120359	1324 Willow St. & 14th St	NJ Hist LUST, NJ Release	Case No. 93-02-01-1842. NFA letter was issued. Case No. 04-08-30-1023-56 - citizen complaint of sloppy housekeeping.
1130	Gulf Service Station	1324 Willow Avenue	NJ Spills	Case No. 92-11-9-0844-42 - suspected leak of gasoline lines due to pumps running slowly.
	Gulf Service Station	1324 Willow Ave & 14th St	NJ Historic HWS, NJ UST, NJ Brownfields	Hist HWS is active. One 6,000-gallon No. 4 heating oil UST and one 6,000-gallon No. 6 heating oil UST were removed in 2011. Remediation of brownfields is listed as in progress.
1136	Cumberland Farms - Gulf 120359	1324 Willow Ave	NJ Release	Case No. 93-11-1-1310-20 - pocket of material found during removal of 550-gallon LUST. Approximate size of spill is 50-75 gallons. Clean up being done.
	Gulf Station #120359	1324 Willow Ave	NJ Spills	Case No. 97-9-11-1443-57 - one gallon of gear oil found in dry retention basin. Nothing entered drain. Cleanup complete.
1141	1327 Willow St	1327 Willow St	NJ Release	Case No. 13-04-22-2202-10 - citizen report of odors.
1144	Merit Service Station	14th and Willow Sts	NJ Hist LUST	Case No. 90-07-23-1552 - site has confirmed soil and groundwater contamination.
	1401 Park Ave	1401 Park Ave	NJ UST	A 10,000-gallon No. 4 heating oil UST, a 7,000-gallon No. 4 heating oil UST, and a 15,000-gallon No. 4 heating oil UST were removed in 2003.
1146	Area of 14th and Park	14th and Park	NJ Spills	Case No. 93-3-29-1216-22 - gasoline in manhole, unknown source.
1148	1409-1427 Park Ave	1409-1427 Park Ave	NJ Release	Case No. 13-11-08-1642-40 - groundwater contamination, unknown source.
	SGS United States Testing Co. Inc.	1407 1415 Park Ave	SHWS	SHWS is active.
1158	SGS United States Testing Co. Inc.	1415 Park Ave	NJ Hist LUST, NJ UST	1996 NFA letter issued for LUST. One 10,000-gallon No. 4 heating oil UST was removed in 1995.
	Intersection of 14th and Willow Sts	14th and Willow Sts	NJ Release	Case No. 92-6-22-1128-12 - reports of strong gasoline smell.
1161	14th and Willow Sts	14th and Willow Sts	NJ Release	Case No. 87-10-29-1204 - broken water main.
	Cumberland Farms/Gulf Station	14th and Willow Sts	NJ Release	Case No. 93-2-1-1842-00 - gasoline UST failed tank testing.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	Merit Service Station	14th and Willow Sts	NJ Release	Case No. 90-07-23-1552 - Waste oil and gasoline .
	Serv Gar Inc (aka BP Service Station)	1400 Park Ave	NJ Release	Case No. 03-09-25-1010-54 - citizen complaint. Case No. 89-07-31-1543 - waste oil LUST.
	B&A Hoboken Inc.	1400 Park Ave	NJ UST	Two 10,000-gallon unleaded gasoline USTs and one 12,000-gallon unleaded gasoline UST are in use.
	Bridge S/S (Formerly Amoco #60584)	1400 Park Ave	NJ Hist LUST	Case No. 89-07-31-1543. Site has confirmed soil and groundwater contamination.
	Bridge Service Station	1400 Park Ave	NJ SHWS, NJ Hist HWS, NJ LUST, NJ UST, NJ Inst Control, NJ Brownfields	SHWS is active. Hist HWS is active. LUST Case ID is 9652. Three 4,000-gallon unleaded gasoline USTs were removed in 1989. A 35-year CEA for benzene, synthetic organic chemicals, and TBA was established in 1999. Brownfields site was established in 1992.
1186	Hess Station	1401 Willow Ave	NJ Spills	Case No. 02-02-07-1318-46 - no other info provided. Case No. 02-02-07-1323-24 - responsible party is Mystic Bulk Carriers. No other info provided.
1191	Hess Corp Station #30504	1401 Willow Ave	NJ Hist HWS	Hist HWS is active. CEA from 2000 is in place.
	1401 Willow Ave	1401 Willow Ave	HMIRS	HMIRS database lists 500-gallon spill of kerosene due to malfunctioning of venting system in 2002.
1194	1400 Willow Ave	1400 Willow Ave	NJ Release	Case No. 12-12-27-1730-34 - citizen complaint of odors at construction site. Case No. 12-03-06-1828-09 - citizen complaint of smoke and dust.
1198	Enterprise Rent a Car	1428 Park Ave	NJ Release	Case No. 05-04-06-0941-40 - sloppy housekeeping.
1200	Metro Web Corporation	1420 1424 Willow Ave	NJ SHWS, NJ UST, NJ Brownfields	SHWS is active. One 550-gallon leaded gasoline UST was abandoned in palce in 2005. One 1,000-gallon waste oil UST was removed in 2002. Brownfields status assigned 2003.
1204	Ocean Gate Municipal Land off Arverne Ave	Off Arverne Ave	NJ Release	Case No. 89-06-14-2052 - smoke, fire, dust reported. Case No. 92-4-21-1538-11 - one 7,500-gallon and one 10,000-gallon USTs abandoned in place; spill of No. 4 fuel oil.
1211	Metro Web Corporation	1420 Willow Ave	NJ Hist HWS, NJ Spills	Hist HWS is active. Case No. 00-08-24-1113-06 - no info provided.
1219	1427-1429 Willow Ave	1427-1429 Willow Ave	NJ Release	Case No. 14-10-08-0913-28 - UST in abandoned building.
1221	1427 Willow Ave	1427 Willow Ave	NJ Release	Case No. 07-08-31-1230-02 - UST, no other info provided.
1223	1426 1428 Willow Avenue	1426 Willow Avenue	NJ SHWS, NJ Release	SHWS is active. Case No. 10-05-11-1621-11 - on vacant lot.
1225	1426-1428 Willow Ave	1426-1428 Willow Ave	NJ Release	Case No. 11-10-26-1515-45 - UST at commercial property.
1231	1328 Shipyard Lane	1328 Shipyard Lane, Hoboken	EDR US Hist Cleaners	Shipyard Cleaners, most recent year 2010.
	Hoboken Shipyards	Hudson St., Hoboken	NJ UST	Tanks installed 1944, removed 1991, no discharges reported, 4 tanks removed, 1 abandoned in place. 3 heating oil USTs, 2 leaded gasoline USTs. No discharges reported.
1236	Dell Aquilla Enterprises Inc	1301 Hudson St., Hoboken	RCRA NonGen/NLR	Large quantity generator 8/13/85, no violations found.
1255	North vale apts	Outside waterfront area.	NJ SPILLS	Case No. 99-02-12-1457-42; 1000-gal UST closed in place.
1257	YMCA of hoboken	1301 Washington St	NJ UST	Facility ID 021073; 8000-gal No 2 fuel oil UST, install 1956, abandoned in place 1998, no discharge noted.
1258	Hoboken WMCA	1301 Washington St	NJ HIST LUST	UST ID 0210737, Site issued NFA letter 1/7/99 - possibly for the listing directly above.
	Hoboken WMCA	1301 Washington St	NJ Release	Case No. 01-05-12-1520-24; citizen complaint of loud AC unit.
1262	Firehouse Truck 1 Engine 4	1313 Washington	NJ LUST	Case ID 33147.
	Firehouse Truck 1 Engine 4	1313 Washington	NJ UST	UST Facility ID 033147, two 2000-gal USTs, install 1949, removed 11/02.
1264	Firehouse Truck 1 Engine 4	1313 Washington	NJ BROWNFIELDS	Remediation in progress.
1267	1314 Washington St	1314 Washington St, Hoboken	NJ Release	Case No. 05-04-25-1452-23; Incident type UST, no addtitional information.
1271	Inside of Gate 1500 Hudson St	1500 Hudson St., Hoboken	NJ Release	Case No. 97-1-6-2338-51; 2 55-gal drums abandoned, 1 leaking unknown liquid.
1275	Area of 1500 Hudson St.	1500 Hudson St., Hoboken	NJ Release	Case No. 98-08-12-1029-00, citizen reported Construction Workers in tyvec pumping unknown liquid into river.
1280	BDLJ Associates LLC **CREC**	1500 Hudson St., Hoboken	RCRA NonGen/NLR	Not currently a generator, no violations found.
	BDLJ Associates LLC **CREC**	1500 Hudson St., Hoboken	NJ Release	Case No. 88-10-07-1756; citizen reported, sewage, illegal dumping.
	BDLJ Associates LLC **CREC**	1500 Hudson St., Hoboken	NJ Release	Case No. 88-08-22-1112; unknown caustic acidtype waste, unknown amount, illegal dumping.
	BDLJ Associates LLC **CREC**	1500 Hudson St., Hoboken	NJ Release	Case No. 05-07-28-1526-21; area of; smoke/dust, citizen complaint.

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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	BDLJ Associates LLC **CREC**	1500 Hudson St., Hoboken	NJ Release	Case No. 89-03-29-1844; asbestos, unknown amount, illegal dumping.
	BDLJ Associates LLC **CREC**	1500 Hudson St., Hoboken	NJ Release	Case No. 95-2-24-1549-30; no additional information.
	BDLJ Associates LLC **CREC**	1500 Hudson St., Hoboken	NJ SPILLS	Case No. 89-06-15-1601; Facility ID 6382, oil, Receiving water-Hudson, RP: Dell Aquilla Enterprises,
	BDLJ Associates LLC **CREC**	1500 Hudson St., Hoboken	NJ SPILLS	Case No. 89-02-07-1631; 5-15-gals oil, receiving water-Hudson, RP Hoboken Shipyard.
1298	Dell Aquilla Inc/Closed Facil	1500 Hudson St., Hoboken	NJ Release	Case No. 93-12-8-1345-02; suspected liquid Isocyanates/solutions, unknown number of drums leaking in basement of facility.
1300	1500 Hudson St	1500 Hudson St., Hoboken	EDR US Hist Auto Stat	AutoBody by Brookwood, dated 2007.
1301	1500 Hudson St	1500 Hudson St., Hoboken	EDR US Hist Cleaners	Will Hudson Dry cleaners, recent date 2010.
1302	Industrial+Apartment Complex	1500 Hudson St., Hoboken	NJ Release	Case No. 96-1-30-1622-01; fuel oil, unknown amount, contained, testing 110,000gal use for Phase II, UST #0167736, soil contamination.
1304	Boyds Service Station	1543 Hudson St., Jersey City	EDR US HIST Auto Stat	Listing dated 1926.
	ACME Laundry	1319 Washington	EDR US Hist Cleaners	Listing dated 1926.
	1315 Washington St.	1315 Washington St	EDR US Hist Cleaners	Listing dated 2012; Julies Dry cleaners.
1305	Old US Steel Plant	14th and Hudson St., Hoboken	NJ Release	Case No. 88-12-05-1143; PCB Drums, unknown amount, contained, possible improper storage.
1308	Area of Pump Station	14th and Hudson St., Hoboken	NJ Release	Case No. 93-9-30-1528-36; sewage bypass, discharge at #5 & 7 regulators due to pump station failure.
1310	53 14th St.	53 14th St., Hoboken	EDR US Hist Cleaners	Listing dated 2003.
1311	Hoboken Individual laundry	57 14th St., Hoboken	EDR US Hist Cleaners	Listing dated 1926.
	75 Park Lane South Aptmnts	57 14th St., Hoboken		South of Long Slip outside, but adjacent to, study area.
1312	Construction Site	14th and Washington, Hoboken	NJ SPILLS	Case No. 98-09-02-1629-58; facility ID 31049, hole poked in gas tank causing spill. Cleanup completed.
1314	Construction Site	14th and Washington, Hoboken	NJ SPILLS	Case No. 98-11-04-1434-03; leak from contractor equip. Contractor doing cleanup.
1316	Hoboken Shipyard	Washington & 14th St., Hoboken	NJ Release	Csae No. 88-12-27-1538; Trasnformer PCB oil, unknown amount to Hudson, illegal dumping.
1319	111 14th Street	111 14th Street, Hoboken	EDR US Hist Cleaners	J&B Cleaners, listing date 2012.
1320	1412 Washington St.	1412 Washington St, Hoboken	NJ Release	Case No. 10-08-04-0849-22; UST, no additional information.
1328	Harborside Lofts	1500 Garden St	NJEMS	
1330	Northvale 3 Apartments	1233 Park Ave	NJ Nist HWS, NJ UST, NJ Brownfields	Hist HWS is active. One 3,000-gallon No. 2 heating oil UST was removed in 1979. The site was classified as a brownfields site in 1999.
1332	206 13th St	206 13th St	NJ Release	Case No. 05-11-18-1547-39 - residential UST.
1334	206 13th St	206 13th St	ERNS	A 550-gallon home heating oil AST failed testing due to equipment failure.
	206 13th St	206 13th St	ERNS	An oil line broke, releasing 2 gallons of home heating oil onto the ground. Cleanup being conducted.
1335	208 13th St	208 13th St	NJ Release	Case No. 05-10-14-2029-46 - citizen complaint related to residential tank in basement.
1338	Northvale IIIA Apartments	215 13th St	NJ Spills, NJ VCP	Case No. 99-02-19-1242-54 - A 3,000-gallon UST was closed in place and soil samples revealed contamination. MOA was executed in 1999. VCP type is historical.
1340	210 13th St	210 13th St	ERNS	Equipment failure caused release from 550-gallon home heating oil UST.
	Residence at 210 13th St	210 13th St	NJ Spills	Case No. 02-01-08-1506-59 - residential UST.
1342	210 13th St	210 13th St	NJ VCP	Historical VCP Incident No. 02-01-08-1506-59. MOA was executed in 2005.
1343	In area of 1308 Garden St	In area of 1308 Garden St	NJ Release	Case No. 96-3-19-1251-03 - citizen complaint of dust from construction site.
1345	1310 Garden St	1310 Garden St	NJ Release, NJ VCP	Case No. 02-09-19-0943-27 - residential UST. VCP is historical. MOA executed 3/6/03.
1347	1315 Garden St	1315 Garden St	NJ SHWS, NJ Release, NJ VCP	SHWS is closed. Case No. 04-03-08-1220-09 - residential UST. VCP is historical. MOA executed 12/14/04.
1350	1317 Garden St	1317 Garden St	ERNS, NJ Release	550-gal no. 2 heating oil UST failed tank test. Case No. 02-06-19-0907-21 - residential UST.
1352	1317 Garden St	1317 Garden St	NJ Release	Case No. 02-08-08-1316-21 - residential UST.
1355	1311-1317 Park Avenue	1311-1317 Park Avenue	NJ Hist LUST, NJ Release	Case NO. 02-04-30-1329-58 - commercial UST.
1357	1314 Park Ave	1314 Park Ave	NJ Release	Case No. 03-08-15-1241-18 - commercial UST.
1359	1317 Garden St	1317 Garden St	NJ SHWS, NJ Release	SHWS is closed. Case No. 02-06-19-0932-31 - residential UST.
1362	Former Service Station	150 14th Street	NJ VCP	Case No. 03-03-27-1602-08. VCP is historical. MOA executed 1/18/06.

TABLE 5-1
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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	150 14th Street	150 14th Street	NJ Release	Case No. 03-03-27-1602-08. Groundwater contamination in parking lot.
	14th Street/Bloomfield	14th Street/Bloomfield	NJ Release	Case No. 03-12-02-2317-51 - citizen complaint of soil contamination in parking lot.
1367	Preferred Meida of NJ	158 14th St	NJ Release	Case No. 93-8-30-1337-13 - soil contaminated with fuel oil. One 3,000-gal UST containing #4 fuel oil was removed and contamination found.
1370	158 166 14th St	158 14th St	NJ Hist LUST, NJ UST	Case No. 93-08-30-1337 - NFA for site. One 3,000-gallon #4 heating oil UST was removed in 1993.
1372	Leased Commercial Building / CVS Pharmacy #4443	210 14th St	NJ Spills, RCRA-LQG	Case No. 01-01-17-1534-59 - caller states that several USTs at site may have ruptured. Material stains on interior walls of basement.
1383	Henkel Corp	1301 Jefferson St	NJ Spills, ERNS	Case No. 87-08-28-1022 - chlorosulfonic acid released from 20,000-gal AST inside secondary containment. 2,000 lbs material spilled, 10 employees evacuated.
	Cognis Corp	1301 Jefferson St	NJ Spills, NJ NPDES	Case No. 90-12-27-1230 - 100 gallons hydrochloric acid spilled.
	Henkel Corp	1301 Jefferson St	NJ Spills	Case No. 96-1-3-1645-32 - 10-15 gallons methanol spilled due to operator pumping too much into tank.
	Henkel Corp	1301 Jefferson St	NJ Release, NJ Brownfields	Case No. 89-10-17-1036 - 0.5 gal chlorosulfonic acid gas released to air. Assigned to brownfields 1/6/03.
	Henkel Corp	1301 Jefferson St	NJ SHWS, NJ Hist HWS, NJ UST, NJ Eng Controls	SHWS is active. One 2,000-gallon unleaded gasoline UST, one 1,000-gallon leaded gasoline UST, one 3,000-gallon medium diesel fuel UST, and one 1,000-gallon unknown contents UST removed 1994. A deed notice is in place for PAHs to a deph of 2 feet.
	Henkel Corp	1301 Jefferson St	NJ Spills	Case No. 95-2-8-1000-08 - 10 gallons of hydraulic fuel spilled on ground from line break.
	Henkel Corp	1301 Jefferson St	NJ Spills	Case No. 94-2-10-1448-22 - 50 gallons of #4 fuel oil leaked from unloading pump of tank truck.
	Henkel Corp	1301 Jefferson St	NJ Spills	Case No. 94-3-7-1015-10 - 20 gallons of diesel fuel spilled due to valve leak.
	Henkel Corp	1301 Jefferson St	NJ Release	Case No. 06-12-05-1404-20 - report of abandoned containers.
	Henkel Corp	1301 Jefferson St	NJ Release, NJ Spills	Case No. 02-10-05-0152-55 - air release. Case No. 94-6-16-1454-20 - site under MOA. Case No. 02-02-21-1551-59 - contamination of land. Case No. 87-12-21-0947 - diesel fuel spilled from truck.
	Henkel Corp	1301 Jefferson St	NJ Spills	Case No. 95-3-26-1648-07 - 5,000 to 10,000 gallons HCL spilled from storage tank into diked area.
	Henkel Corp	1301 Jefferson St	NJ Spills	Case No. 94-2-10-1447-04 - 20 gallon heating oil #4 spilled on pavement and dirt from delivery hose breaking during delivery.
1449	Madison Warehouse	1300-1330 Jefferson St	NJ VCP	Incident No. 04-09-29-0744-18A, historical VCP.
	Tarragon Corp	1300-1330 Jefferson St	NJ Hist HWS	Hist HWS is active.
1451	Madison Warehouse/ Block 112 Development LLC	1300-1330 Jefferson St	NJ VCP	Incident No. 04-09-29-0744-18, historical VCP.
	Universal Floding Box Co Inc.	Madison & 13th St	NJ Hist LUST, NJ UST	Case No. 92-11-12-1521 - NFA issued for RECs. One 3,000-gallon and two 5,000-gallon #2 heating oil USTs were removed in 1992.
1462	Universal Floding Box Co Inc.	Madison & 13th St	NJ Release	Case No. 92-11-12-1521-34 - one 3,000-gallon and one 5,000-gallon #2 heating oil USTs removed and contamination found.
1464	On roadway	13th and Madison	NJ Spills	Case No. 93-8-11-1137-01 - diesel fuel from a tanker leaked onto the roadway, no drains involved.
1466	13th and Madison	13th and Madison	NJ Spills	Case No. 13-10-18-0949-52 - spill from a motor vehicle accident.
1469	Hoboken Tank Lines Inc	457 12th St	NJ SHWS, NJ Hist HWS, NJ Hist LUST, NJ UST, NJ Release, NJ Brownfields	SHWS is active. LUST was issued a NFA in 1993. One #2 diesel fuel tank was removed in 1992. Case No. 89-12-14-1230 - #2 fuel oil was spilled due to illegal dumping. Assigned to brownfields in 2003.
1476	1125-1131 Jefferson & 457 12th St	1125-1131 Jefferson & 457 12th St	NJ Release	Case No. 03-07-25-0152-16 - MOA for former auto repair.
	1125-1131 Jefferson & 457 12th Street	1125-1131 Jefferson & 457 12th Street	NJ Release	Case No. 03-07-25-0152-16.
1480	area of 12th and Adams St.	12th and Adams St	NJ Release	Case No. 99-03-05-1111-08 - oil-like material dumped into storm drain.
	Area of 12th and Adams Street	Area of 12th and Adams Street	NJ Release	Case No. 99-03-05-1111-08; Caller reported oil like material dumped into storm drain.
1482	Vacant Lot (BASF)	517 12th St	NJ Hist LUST, NJ Release	Case No. 94-11-15-1615 - one 3,000-gal, two 1,000-gallon, and one 2,000-gallon UST removed and soil contamination from #2 fuel oil discovered. Cleanup in progress.
	Vacant Lot	517 12th Street	NJ HIST LUST	UST ID 0300403, Case ID 94-11-15-1615, Facility Status of "Case Awaiting Assignment"

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
			NJ Release	Case No. 94-11-15-1615-00; incident related to #2 fuel oil, caller reported that one (1) 3,000 gallon, two (2) 1,000 gallon and one (1) 2,000 gallon USTs removed and soil contamination was discovered.
1488	Residence	1217 Adams	NJ Spills	Case No. 89-08-01-1441 - illegal dumping of oil.
	Residence	1217 Adams Street	NJ Spills	Case No. 89-08-01-1441; Incident related to illegal dumping of oil.
1490	1223 Adams St	1223 Adams St	NJ VCP	Incident No. 02-10-29-1410-18 - historical VCP.
	1221-1223 Adams St	1221-1223 Adams St	NJ Release	Case No. 02-10-29-1410-18 - soil contamination in vacant building.
	1223 Adams Street	1223 Adams Street	VCP	Incident No. 02-10-29-1410-18, MOA executed on 10/30/2002.
	1221-1223 Adams Street	1221-1223 Adams Street	NJ Release	Case No. 02-10-29-1410-18; caller reported soil contamination.
1492	R&G Delivery Service	1301 1323 Adams St	NJ Hist HWS, NJ Brownfields	SHWS is active. Assigned to Brownfields in 1998.
	R&G Delivery Service	1301 1323 Adams Street	HIST SHWS	Case ID 194263, Status listed as "Active".
	R&G Delivery Service	1301 1323 Adams Street	Brownfields	Site No. 6823; Assigned to Program on 1/28/1998, C2: Formal Design - Known Source or Release with GW Contamination established 3/10/2003.
1495	On Roadway	Adams/13th St	NJ Spills	Case No. 95-10-31-2028-34 - transformer spill due to motor vehicle accident at electrical pole. PCBs unknown.
	On Roadway	Adams/13th Street	NJ Spills	Case No. 95-10-31-2028-34; Facility ID 17514; Case related to an oil transofmer, caller reported that an electric pole was struck by a motor vehicle causing a transfomer to be dislodged causing spill.
1498	American Magnesium & Aluminum Corp	1316 Adams St	NJ Release	Case No. 06-12-07-1029-33 - release to air.
	American Magnesium & Aluminum Corp	1316 Adams Street	NJ Release	Case No. 06-12-07-1029-33; Incident related to Air Release.
1502	American Magnesium & Aluminu	1316 Adams St	NJ Spills	Case No. 12-06-29-1500-35 - no other information provided.
	1316 Adams Street	1316 Adams Street	NJ Spills	Case No. 12-06-29-1500-35; Facility ID 430691.
1505	1321-1325 Adams St	1321-1325 Adams St	NJ Release	Case No. 09-02-05-1140-34 - residential UST.
	1321-1325 Adams Street	1321-1325 Adams Street	NJ Release	Case No. 09-02-05-1140-34; Incident related to an UST.
1507	Block 114 Development LLC	1321-1327 Adams St	NJ UST	One leaded gasoline UST and one light diesel fuel UST listed in use.
	Block 114 Development LLC	1321 1327 Adams Street	NJ UST	UST Facility ID 288307; TANK-1 is an unknown sized tank that contains leaded gasoline, and is in-use as of 01/01/1977; Tank-2 is an unknown light diesel fuel (No. 1-D) tank that is in-use as of 1/1/1977.
1508	Hoboken Coal Gas (PSE&G)	1200-1222 & 13th St	NJ Hist HWS	Hist HWS is active.
1509	Clinton Street Property	1300 1324 Clinton St	SHWS	SHWS is closed.
1510	Velourit Product Corp	1306 Clinton St	NJ Hist LUST, NJ UST	Site issued NFA in 1994. One 5,000-gallon #2 heating oil UST, two 2,000-gallon 2 heating oil USTs, one 1,500-gallon #2 heating oil UST and one 550-gallon #2 heating oil UST removed in 1993.
1514	Roadway	13th and Grand St	NJ Spills	Case No. 93-1-13-1512-04 - 25 gallon of #4 heating oil spilled onto roadway. Cleanup in progress.
1516	Henkel Corp	13th and Grand St	NJ Release	Case No. 93-10-26-1205-43 - citizen complaint of strong sulfer odor in air.
1518	1300 Grand St	1300 Grand St	NJ VCP	Incident No. 97-11-24-0735-24 - historical VCP.
	vacant building	1300 Grand St	NJ Hist LUST, NJ Release	Case No. 97-11-24-0735-24 - 550-gallon fuel oil UST removed and soil contamination found.
	1300 Grand Street Condominium (Former RG delivery Service)	1300 Grand St AKA 1301 Adams St	NJ VCP	Incident No. 98-01-28-0233-33B - historical VCP.
	Construction Site	1300 Grand	NJ Spills	Case No. 00-04-11-0909-31 - spill on land, no other information provided.
1523	RG Delivery Service Inc	410 13th St	NJ Spills	Case No. 93-1-26-1231-37 - fire caused the release of antifreeze, lube oil and waste oil to air and land.
1526	Errico's Garage	1326 Clinton St	NJ Spills, NJ VCP	Case No. 00-03-15-1130-29 - spill to land, no other information provided. Historical VCP. MOA issued 8/6/01.
1528	1330 Clinton St	1330 Clinton St	NJ Release	Case No. 11-11-04-0948-48 - citizen complaint of odors.
1530	1330 Clinton St	1330 Clinton St	NJ Release	Case No. 11-12-05-1510-31 - citizen complaint of odors.
1536	1332 Clinton St	1332 Clinton St	NJ Spills	Case No. 12-06-05-1148-09 - spill at Harbour Mechanical.
1538	1300 Clinton St	1300 Clinton St	NJ Release	Case No. 11-12-20-0909-24 - citizen complaint of odors
1540	1300 Clinton St Apt 424	1300 Clinton St	NJ Release	Case No. 11-12-01-1631-27 - citizen complaint of odors.
1542	1300 Clinton St	1300 Clinton St	NJ Release	Case No. 11-12-13-1700-23 - citizen complaint of odors.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
1543	1300 Clinton St	1300 Clinton St	NJ Release	Case No. 12-07-31-1013-24 - citizen complaint of odors.
1545	1300 Clinton St	1300 Clinton St	NJ Release	Case No. 12-07-27-1034-35 - citizen complaint of odors.
1547	1300 Clinton St	1300 Clinton St	NJ Release	Case No. 12-05-24-1627-20 - citizen complaint of odors.
1549	1300 Clinton St	1300 Clinton St	NJ Release	Case No. 12-05-18-2004-13 - citizen complaint of odors.
1551	1300 Clinton St	1300 Clinton St	NJ Release	Case No. 11-12-23-1944-50 - citizen complaint of odors.
1553	1300 Clinton St	1300 Clinton St	NJ Release	Case No. 13-04-14-1900-10 - citizen complaint of odors.
1555	1300 Clinton St	1300 Clinton St	NJ Release	Case No. 11-12-01-1749-03 and 12-12-04-1313-09 and 12-06-11-1549-29 and 11-12-01-1546-03 and 13-04-12-0910-51 and 12-04-03-1516-40 and 12-09-23-1230-56 and 11-11-26-1808-06 and 12-09-15-1035-34 and 11-12-05-2006-22 and 13-03-19-1035-35 and 11-11-30-1948-50 and 11-12-13-1529-47 and - citizen complaint of odors at construction site.
1568	Clinton Street Property	1300-1324 Clinton Ave	NJ Release, NJ VCP	Case No. 98-07-30-0021-45 - MOA application. VCP is historical. MOA executed 8/12/98.
1572	1300 Clinton St	1300 Clinton St	NJ VCP	Incident No. 00-04-11-0909-31 - historical VCP. MOA executed 6/9/00.
1575	Clinton Street Property	1300-1324 Clinton Ave	NJ Hist HWS, Brownfields	Hist HWS is active. KCSL on file.
1586	Sanvard Realty Company	1316-1330 Grand St	NJ Hist LUST, NJ UST	NFA issued for LUST in 2001. A 1,000-gallon medium diesel fuel UST was abandoned in place in 2000.
1587	Block 114 Development LLC	1321-1325 Adams, 1316-1330 Grand, 409-415 14th St	NJ VCP	Incident No. 06-05-18-0028-43 - historical VCP. MOA executed 5/22/06.
1589	1331 Grand St	1331 Grand St.	NJ Release	Case No. 12-12-04-1014-42 - citizen complaint of odors.
1601	In Home on Street	14th Street, Hoboken	NJ Release	Case No. 88-02-05-1359, Citizen, Sewage.
1603	N Hudson STP Outfall	14th Street, Hoboken	NJ Release	Case No. 00-06-12-1409-45; no information.
1606	1200 Grand St	1200 Grand St	NJ Release	Case No. 14-11-04-1328-18 - soil contamination at Grant dry cleaners.
	1200 Grand Street	1200 Grand Street	NJ Release	Case No. 14-11-04-1328-18; Incident related to "Unk SO Soil Contamination".
	1200 Grand Street	1200 Grand Street	VCP	Incident No. 98-01-28-0233-33A, MOA Executed on 7/19/2004.
1608	1200 Grand Street Condominium (Former RG Delivery Service)	1200 Grand St	NJ VCP	Incident No. 98-01-28-0233-33A - historical VCP. MOA execued 7/19/04.
1609	1200 Grand St - BL#109	1200 Grand St	NJ Release	Case No. 05-03-11-1500-21 - UST at vacant property under construction.
	1200 Grand Street	1200 Grand Street	NJ Release	Case No. 05-03-11-1500-21; Case associated with an UST.
1611	1200 Grand Street Condominium	1200 Grand St	NJ UST	One 8,000-gal UST removed in 2005.
	PSE&G Substation	1124 Madison St	NJ Spills	Case No. 12-03-12-0955-09 - spill at PSE&G substation.
	1200 Grand Street	1200 Grand Street	NJ UST	.UST Facility 249441; TANK-1 was a 8,000 gallon UST that contained "other" content and was removed as of 3/10/2005
1724	Vacant Commercial Building	1026-1034 Clinton St	NJ Spills	Case No. 98-09-29-0927-57 - A 6,000-gallon UST removed and soil contamination found. Cleanup in progress.
1726	Condominium Building	1026-1034 Clinton St	NJ UST	A 5,000-gallon medium diesel fuel UST was removed in 1998.
1727	1037 Clinton St	1037 Clinton St	NJ Release	Case No. 00-05-26-0939-10 - citizen complaint of air contamination.
1730	Braunstein Warehouse	1107 Clinton St	NJ Release	Case No. 97-12-8-1057-12 - one 550-gallon heating oil UST, one 4,000-gallon diesel UST and one 3,000-gallon gasoline UST removed and soil contamination found. Cleanup complete.
1732	Macy's Float Warehouse	1106 Clinton St	NJ Hist LUST, NJ VCP	Case No. 97-12-08-1057-12 - NFA issued for RECs in 1998. MOA executed 12/20/00. VCP is historical.
1733	Macy's Float Warehouse	1106 Clinton St	NJ Hist LUST, NJ Release	Case No. 00-12-22-0021-28 - Site NFA issued 2001. No other information on release.
	1120 Clinton St	1120 Clinton St	NJ Release	Case No. 13-04-23-2018-43 - citizen complaint of odors.
1744	Hudson Park	1114-1120 Clinton St & 1115-1119 Grand S	NJ Hist HWS, NJ Release	Hist SHWS is active. Case Number 99-12-30-0610-18 - MOA.
	Former Fergereson Propeller	1116-1124 Clinton	NJ Release	Case No. 96-9-19-1733-31 - citizen complaint of contaminated soil and also dust casued by construction site.
1749	Ferguson Propeller Plume 2 - VOS	1132 Clinton St	NJ GW Contam Areas	CEA in place since 1997 for benzene, TCE, lead, arsenic, chromium, cadmium, mercury, ethylbenzene, toluene, xylenes, acenaphthene, fluorene, pyrene, phenanthrene. Depth is 12 feet. 0.49 acres.

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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
1750	Ferguson Propeller Plume 2 - Metals	1132 Clinton St	NJ GW Contam Areas	CEA in place since 1997 for lead, arsenic, chromium, cadmium. Depth is 12 feet. 0.59 acres.
1753	Ferguson Propeller Inc.	1132 Clinton St	NJ Release	Case No. 96-4-8-1540-04 - MOA.
1755	Ferguson Propeller Inc.	1132 Clinton St	NJ SHWS, NJ Hist HWS, NJ UST, NJ Release, NJ ENG Controls, NJ Inst Controls, NJ VCP, NJ Brownfields	SHWS is active. Hist HWS has an NFA with restrictions. CEA in place since 1997. One 10,000-gal No. 2 heating oil UST was removed in 1996. One 1,000-gal kerosene UST and one 1,000-gal unleaded gasoline UST were removed in 1990. Two 1,000-gal kerosene USTs and one 500-gal kerosene UST were removed in 1996. Case No. 96-2-16-1144-26 - soil contamination found during the removal of one 1,000-gal gasoline UST and one 1,000-gal kerosene UST. Entire site is covered by engineering controls: 4 inches concrete over geotextile membrane for sidewalks and courtyard; 3 inches bituminous concrete over 4 inches of gravel subbase over geotextile membrane for parking area. Deed Notice in palce since 2000 for metals, base neutrals and acids. CEA in place since 1997 for acenaphthene, benzene, ethylbenzene, fluorene, phenanthrene, pyrene, toluene, trichloroethylene, xylenes for 17 years. CEA in place since 1997 for arsenic, cadmium, chromium, copper, lead, mercury for 999 years. VCP incident number 96-04-08-1540-04 - historical VCP. MOA executed 5/7/96.
1771	Ferguson Propeller Inc.	1132 Clinton St	NJ Hist LUST	Case Number 90-10-09-1256 - soil and groundwater contamination.
	Ferguson Propeller Plume 1 - VOS	1132 Clinton St	NJ GW Contam Areas	CEA in place for ethylbenzene, toluene, xylenes, acenaphthene, fluorene, pyrene, phenanthrene copper since 1997. Depth is 12 feet. Acreage is 2.6.

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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
1817	1100 Adams Street Urban Renewal	1100 Adams St	NJ VCP, Brownfields	Incident No. 03-03-27-0042-10B - MOA executed 6/21/2005.
1819	Area of 1100 Adams St	1100 Adams St	NJ Release	Case No. 96-6-27-1313-23 - blowing dust from construction suspected to contain asbestos.
1823	503 11th St	503 11th St	NJ Release	Case No. 14-12-06-1102-58 - radioactive material near shoprite.
1826	Ferguson Propeller Corp	Adams & 11th	NJ Release	Case No. 90-10-09-1256 - kerosene LUST.
1828	1100-18 Adams St / 1121-23 Jefferson St	1100-18 Adams St / 1121-23 Jefferson St	NJ Release	Case No. 03-03-27-0042-10 - MOA for Atlantic Steamers.
1829	Area of 1107 Jefferson St	1107 Jefferson St	NJ Release	Case No. 91-9-11-1445-02 - complaint from citizen of illegal dumping of diesel fuel.
1832	Block 103 Development	1108-1110 Jefferson St, 1109-1111 Madis	NJ VCP	Incident No. 06-05-18-0046-21 - historical VCP, MOA executed 5/22/2006.
	In Front of 1116 Jefferson St	1116 Jefferson St	NJ Release	Case No. 93-9-27-0906-12 - 20 gallon of waste oil dumped in roadway.
1834	Block 104	1121-1123 Jefferson St	NJ UST	One 2,000-gallon with unnamed contents was removed in 2005.
1836	1118 Adams St Urban Renewal	1118 Adams St	NJ VCP	Incident No. 03-03-27-0042-10C - MOA executed 6/21/2005.
	1118 Adams	1118 Adams St	NJ Release	Case No. 05-11-03-1144-36 - air release reported.
1838	1118 Adams St Urban Renewal	1118 Adams St	NJ Hist HWS	Hist HWS is active.
1839	In Lot 1120 Adams St	1120 Adams St	NJ Release	Case No. 91-2-4-1440-04 - abandoned containers reported: 3 55-gallon drums and trailer also with drums. Oil-like substance.
1850	Apt Building	1018 Hudson St., Hoboken	NJ Release	Case No. 94-3-28-1200-42; Heating oil #2, caller - LUST left in ground, new tank installed in other location.
1854	1028 Hudson St.	1028 Hudson St., Hoboken	NJ Release	Case No. 10-12-08-1531-14; UST, No additional information.
1856	Maxwell House Coffee Facility	1101-1125 Hudson	NJ Release	Case No. 99-04-21-0018-31; MOA Application, No additional information.
	Maxwell House Coffee Facility	1101-1125 Hudson	NJ VCP	Incident No. 99-04-21-0018-31A; MOA execution date 5/24/01.
1859	Between Washington & Hudson	11th Street, Hoboken	NJ Release	Case No. 91-7-18-1049-06; gas odors.
1872	Pump Station Corner of -->	Hudson & 11th St, Hoboken	NJ SPILLS	Case No. 97-7-7-1921-16; Sewage running from pump station.
1875	Area of 11th Bet Hudson & WA	Hoboken	NJ SPILLS	Case No. 90-02-19-1909; sewage spill.
1882	52-54 11th Street	52-54 11th St, Hoboken	NJ HIST HWS	Case Status: Active, date 4/6/99; Case ID G000037832.
1884	Northvale III B Associates	52-54 11th St, Hoboken	NJ SPILLS	Case No. 99-02-04-1020-17; 1 2000-gallon UST abandoned in place; soil contamination found, cleanup in progress.
1925	Maxwell House Coffee	1125 Hudson St., Hoboken	NJ SPILLS	Case No. 91-7-28-1558-12; facility ID 11240, No 6 fuel oil, 10 gallons, pipe leaking, soil contamination found upon demo of pump house. RP has contractor cleaning up.
1928	Maxwell House Coffee Company	1125 Hudson St., Hoboken	NJ UST	UST Facility ID 010958; Maxwell had 9 USTs; 7 #2 fuel oil UST, 2 #6 fuel oil UST. Tanks 1-3 installed 1957, removed 1992; 4-9 installed 1975, removed 1992.
1931	Maxwell House Coffee	1125 Hudson St., Hoboken	NJ SPILLS	Case No. 93-7-7-2022-12; fuel oil, soil/GW contamination at site.
1933	Maxwell House Coffee Company	1125 Hudson St., Hoboken	NJ Release	Case No. 92-10-19-1700-30; #3 & #6 fuel oil, 7 20,000 gallons USTs removed from location. Remediation to follow.
1951	Maxwell House Co.	1125 Hudson St., Hoboken	NJ Release	Case No. 92-8-28-1527-52; soil contamination discovered through testing. Transformers removed 6 yrs ago, cleanup by contractor.
1955	Maxwell House	1125 Hudson St., Hoboken	NJ Release	Case No. 92-12-11-1015-37; soil contaminated with fuel oil from LUST. Stockpile washing into river - high water.
1972	Pisani & Debari	1107-1109 Grand Street	NJ Release	Case No. 97-09-25-1203-18; substance related to #2 fuel oil, caller reported that one (1) 1,000 UST was removed and remediation in progress.
1994	Maxwell House Coffee Company	1101-1125 Hudson, Hoboken	NJ HIST HWS	Case Status: Active, date 4/27/99, case ID 010958.
2006	Harold Ives Trucking Inc.	1060 Monroe St	NJ NJEMS only	

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
2007	1000 Jefferson Street	1000 Jefferson Street	NJ Release	Case No. 04-10-13-1646-18; Incident related to an UST.
2025	1001 Madison Street	1001 Madison Street	NJ Spills	Case No. 12-11-05-1326-41.
2027	Community Mini Storage	1001 Madison Street	NJ Release	Case No. 89-03-02-1055; Incident related to medical waste on site.
2029	Tarragon Corporation	1001-1015 Madison Street	NJ HIST SHWS	Case ID 237539; Status is listed as "Active" as of 10/6/04; Site with on-site sources of contamination.
2033	Interboro Disposal & Recycling	1024 Jefferson Street	NJ HIST LUST	UST ID 0065405; Facility Status listed as "Site Issued Letter of No Further Action for Area(s) of Concern"; TMS No. C93-3532.
	Interboro Disposal & Recycling	1024 Jefferson Street	NJ HIST LUST	UST ID 0065405; Facility Status listed as "Site Issued Letter of No Further Action for Area(s) of Concern"; TMS No. C93-3534.
	Interboro Disposal & Recycling	1024 Jefferson Street	NJ HIST LUST	UST ID 0065405; Facility Status listed as "Site Issued Letter of No Further Action for Area(s) of Concern"; TMS No. C93-3531.
	Interboro Disposal & Recycling	1024 Jefferson Street	NJ HIST LUST	UST ID 0065405; Facility Status listed as "Site Issued Letter of No Further Action for Area(s) of Concern"; TMS No. C93-3533.
	Interboro Disposal & Recycling	1024 Jefferson Street	NJ HIST LUST	UST ID 0065405; Facility Status listed as "Site Issued Letter of No Further Action for Area(s) of Concern"; TMS No. C93-3530.
	Interboro Disposal & Recycling	1024 Jefferson Street	NJ UST	UST Facility ID 006540; TANK 1 was a 2,000 gallon tank that contained #2-D medium diesel fuel, and was removed as of 12/31/93; TANK 2 was a 4,000 gallon tank that contained #2-D medium diesel fuel, and aws removed as of 12/17/93; TANK 3 was a 4,000 gallon tank that contained #2-D medium diesel fuel, and was removed as of 12/17/93; TANK 4 was a 2,000 gallon tank that contained unleaded gasoline, and was removed as of 12/31/93; TANK 5 was a tank that contained #2-D medium diesel fuel (no size listed), and was removed as of 12/31/93.
2037	Outside of 1024 Jefferson Ave	1024 Jefferson Ave (Street?)	NJ Spills	Case No. 91-01-05-0909-23; Caller reported the improper removal of asbestos positive pipe covering.
2041	Jefferson Real Estate Co.	1033 Jefferson Street	NJ UST	UST Facility ID 018697; TANK 1 was a 250 gallon tank that contained #4 heating oil, and was removed as of 7/16/90; TANK 2 was a 3,000 gallon tank that contained #4 heating oil, and was removed as of 7/16/60.
2042	In Sewer System	1020 Madison Street	NJ Spills	Case No. 94-10-21-1457-00; Caller reported that large amount of oil reported in sewer system.
2045	1020 Grand St	1020 Grand St, Hoboken	NJ Release	Case No. 95-5-2-1236-00; 8 cases of iothalcmate sodium found. No spillage.
2070	Building Corner	10th and Clinton St, Hoboken	NJ Spills	Case no. 98-08-19-1223-07;citizen complaint of a pipe discharging into storm drain.
2072	Northvale IIIB	1000 Clinton St, Hoboken	NJ Spills	Case no. 99-02-04-1022-44; one 3,000-gallon UST abandoned in place. Soil contamination found.
	Northvale IIIB	1000 Clinton St, Hoboken	NJ VCP	Incident No. 99-02-04-1022-44; MOA executed 4/5/99.
	Northvale IIIB	1000 Clinton St, Hoboken	NJEMS ONLY	
2125	9th/Madison Street	9th and Madison Street	NJ Release	Case No. 05-08-03-1110-51.
2127	Roadway 9th/Madison	9th Street and Madison Street	NJ Spills	Case No. 96-12-10-1007-04; Caller reported that ruptured saddle tank caused a spill; Spill estimate of 2 gallons.
2129	Universal Folding Box Co	9th Street and Madison Ave	NJ Spills	No Case No. reported; Spill related to #4 heating oil.
2131	Universal Folding Box Co	9th Street and Madison Ave	NJ Release	No Case No. reported; Spill related to #4 heating oil.
2133	9th Street and Madison Street	9th Street and Madison Street	NJ Release	Case No. 04-02-28-1309-19; Incident related to abandoned containers.
2135	901 Madison Street	901 Madison Street	NJ Spills	Case No. 02-10-16-1836-26; Facility ID 36965.
2154	BRS Product	550 9th Street	NJ Spills	Case No. 98-06-29-1000-51; Caller reported that the landlord dumped materials from roof into ground and evaporated materials in various ovens.
2156	LMT Steel	550 9th Street	NJ Release	Case No. 02-06-27-1646-26; Incident related to soil contamination.
	LMT Steel	550 9th Street	NJ Release	Case No. 95-03-24-1659-20; Caller reported that facility dumping corrosive liquid down drainage system.
2160	LMT Products	550 9th Street	NJ Release	Case No. 90-09-18-1912; Incident related to the illegal dumping of an unknown red colored liquid.
2162	Blocks 92/93	900-912 Monroe street	VCP	Incident No. 04-09-29-0741-44; MOA executed on 10/6/04.
2166	931 Madison Street	931 Madison Street	NJ Spills	Case No. 03-06-05-1118-37.
2169	Ninth Street Property	9th Street between Monroe and Jackson Street	VCP	Incident No. 98-03-17-1442-21B; MOA executed on 3/24/99.

TABLE 5-1
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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
2171	Northvale II	832 Willow Ave	NJ Spills	Case No. 99-02-04-1006-03; Facility ID 38422; one (1) 1,000 gallon UST was abandoned in place with soil contamination found.
2173	900 Willow Ave	900 Willow Ave	NJ Release	Case No. 08-05-08-1316-34.
2176	Apartment Building	9th Street and Clinton Street	NJ Release	Case No. 97-12-30-1112-18; Caller reported that material is being pumped from a white pipe inside the building, and it has been discharging into a storm drain for over a year.
2178	Hoboken High School	9th Street and Clinton Street	NJ Release	Case No. 89-12-25-1838; Case related with asbestos ceiling tiles.
2180	Hoboken High School	9th Street and Clinton Street	NJ HIST SHWS	Case ID 025074; Status is listed as "Active" as of 11/21/95; site with on-site sources of contamination.
2180	Hoboken High School	9th Street and Clinton Street	NJ LUST	Case ID listed as 25074; Activity No. LSR120001.
2180	Hoboken High School	9th Street and Clinton Street	NJ HIST LUST	Case No. 93-11-30-1123; Status listed as "Assigned to a program"; UST ID 0250742; Site has confirmed soil and ground water contamination.
2180	Hoboken High School	9th Street and Clinton Street	NJ UST	UST Facility ID 025074; TANK 1 was a 6,000 gallon tank that containined #4 heating oil, and was removed as of 10/6/93; TANK 2 was a 6,000 gallon tank that contained #4 heating oil, and was removed as of 10/6/93.
2180	Hoboken High School	9th Street and Clinton Street	NJ Release	Case No. 93-11-30-1123-57; Caller reported that one (1) 6,000 gallon UST was being removed and soil contamination was discovered.
2191	Residence at 914 Willow Avenue	914 Willow Avenue	NJ Release	Case No. 91-04-29-1024-52; Caller reported that workers were sand blasting red paint off brick homes, and that the paint had run into storm drains.
2193	909 Clinton & 314 9th Street	909 Clinton Street	Brownfields	Site No. 6748; PI No. G000038553 assigned to site; Assigned to program on 4/6/92, C2: Formal design- known source or release with GW contamination established 5/4/99.
2196	Northvale II Associates	909 Clinton & 314 9th Street	NJ HIST SHWS	Case ID G000038553; listed as "Active" as of 4/6/99.
	Northvale II Associates	909 Clinton & 314 9th Street	VCP	Incident No. 99-02-04-1011-51; MOA executed on 4/5/99.
2197	922 Willow Ave	922 Willow Ave	NJ SHWS	PI No. 642209; Site ID 510696; Status is listed as Closed.
	922 Willow Ave	922 Willow Ave	NJ Release	Case No. 13-1104-1253-45; Incident related to an UST.
2199	Northvale I	915 Clinton Street	NJ Spills	Case No. 99-02-04-1003-26; Facility ID 38421; caller reported that one (1) 2,000 gallon UST was abandoned in place and that soil contamination was found.
2201	942 Willow Ave	942 Willow Ave	NJ Release	Case No. 10-07-22-1150-38; Incident related to an UST.
2203	Northvale II	909 Clinton Street/314 9th Street	NJ Spills	Case No. 99-02-04-1011-51; Caller reported that one (1) 2,000 gallon UST was abandoned in place and that soil contamination was found.
2205	1032-1040 Grand St	1032-1040 Grand Street, Hoboken	Brownfields	Site No. 417; KCSL on file.
2206	Pole #61332 Public Service	803 Jeferson Street	NJ Spills	Case No. 92-04-28-0908-19; Caller reported transformer leaking for past two (2) weeks, and visable discharge into sewer drain was observed (possibly PCB).
2208	Area between 8th and 9th Street (Jefferson)	8th and 9th Street (Jefferson)	NJ Spills	Case No. 01-02-09-1153-06; Facility 74166; Caller reported leak from backhoe.
	Self Service Storage	1040 Grand Street, Hoboken	NJ Release	Case No. 00-09-07-2016-04; contamination from air.
2210	Railroad Enterprises Inc.	1040 Grand St., Hoboken	NJ Hist LUST	Case No. 95-08-21-1608-13; Site issued NFA in 1995.
2211	900-914 Jefferson Street	900-914 Jefferson Street	NJ Release	Case No. 02-03-07-1641-26; Caller reported soil contamination in front of KTAV Publishing House beneath sidewalks
2213	KTAV Publishing House Inc	900 to 914 Jefferson Street	NJ HIST LUST	Case No. 01-10-24-1402-05; Facility Status listed as "Assigned to a Program"; UST ID 97967.
	KTAV Publishing House Inc	900 to 914 Jefferson Street	NJ Spills	Case No. 01-10-24-1402-05; Facility ID 86926; Incident occurred during the removal of one (1) 1,000 gallon tank.
	KTAV Publishing House Inc	900 Jefferson Street	NJ SHWS	PI No. 97967; Site ID 27162; Status listed as "Closed".
	KTAV Publishing House Inc	900 Jefferson Street	HIST SHWS	Case ID 97967; Case Status listed as "NFA-A (Limited Restricted Use) as of 9/6/04.
	KTAV Publishing House Inc	900 Jefferson Street	NJ UST	UST Facility ID 97967; TANK 2 was a 2,000 gallon tank that contained leaded gasoline, and was abandoned in place as of 10/12/01; TANK 3 was a 5,100 gallon tank that contained #2 heating oil, and was abandoned in place as of 10/11/01; TANK 4 was a 1,000 gallon tank that contained leaded gasoline, and was removed as of 10/10/01; TANK 5 was a 1,000 gallon tank that contained #2-D medium diesel fuel, and was removed as of 10/10/01.
	KTAV Publishing House Inc	900 Jefferson Street	NJ Institutional Control	PI No. 97967; Facility ID 27162; CEA on site with an unreported duration due to Arsenic, Beryllium, Copper, Lead, Zinc.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
2220	9th Street and Grand Street	9th Street and Grand Street	NJ Spills	Case No. 11-06-17-2025-05; Facility ID 390536.
2222	Kohn Kniting Mills	400 9th Street	NJ HIST LUST	Case No. 95-11-27-1646-41; Status listed as "Site issued letter of No Further Action for Areas of Concern"; UST ID 0310204.
	Kohn Knitting Mills Inc	400 9th Street	NJ UST	UST Facility ID 031020; TANK 1 was a 4,000 gallon #2 tank that was abandoned in place as of 11/16/95; TANK 2 was a 1,000 gallon #2 heating oil tank that was removed as of 11/15/95.
	Kohn Knitting Mills Inc	400 9th Street	NJ Release	Case No. 95-11-27-1646-41; Caller reported one (1) 1,000 gallon UST was removed and soil contamination was discovered.
2225	Kohn Knitting Mills Inc	400 9th Street	NJ SHWS	PI No. 031020; Site ID 56384; Status listed as "Closed".
2227	In area of 9th and Adams Street	9th and Adams Street	NJ Spills	Case No. 91-03-04-1314-06; Facility ID 2789; Caller reported that raw sewage was spilling into Street, and that it has been a problem that has been occurring for 3 months.
2229	At Intersection of 9th and Adam Street	9th and Adams Street	NJ Spills	Case No. 94-07-18-1044-40; Facility ID 12702; Caller reported green dye coming out of storm drain.
2231	Behind House of 456 9th Street	456 9th Street	NJ Release	Case No. 94-07-17-1829-33; Caller reported continuous sewage odors from clogged sewer drain.
2271	924 Castle Point Terrace	924 Castle Point Terrace	NJ Release	Case No. 05-07-18-1131-39; UST, no additional information.
2275	Stevens Institute of Technology	Castle Point on Hudson, Hoboken	NJ HIST HWS	Case Status: Active, date 12/9/1998.
	Stevens Institute of Technology	Castle Point on Hudson, Hoboken	NJ HIST LUST	Case ID Not reported, status: case awaiting assignment.
	Stevens Institute of Technology	Castle Point on Hudson, Hoboken	NJ UST	UST facility ID 017640; formerly had 1 1000-gal gas UST (1966-1992) removed; former 550-gal #1 diesel UST (1966-1992) removed; three 5000-gal #6 oil USTs (1948-1997) aband.in.place.; former 10,000gal #6 oil UST (1977-1998) removed; IN USE 12,000-gal #2 fuel oil, installed 1998.
2290	841 Bloomfield Street	841 Bloomfield Street	NJ Release	Case No. 05-07-14-1241-04; Incident related to UST.
2292	919 Bloomfield Street	919 Bloomfield Street	SHWS	PI No. 164256; Site ID 124328; Status is listed as "Closed".
	919 Bloomfield Street	919 Bloomfield Street	NJ Release	Case No. 02-07-19-1534-56; Incident related to an UST.
	919 Bloomfield Street	919 Bloomfield Street	VCP	Incident No. 02-07-19-1534-56; MOA executed on 9/11/02.
2295	Residence of 925 Bloomfield Street	925 Bloomfield Street	NJ Spills	Case No. 01-08-17-1453-00; Facility ID 83398; One (1) 550 gallon UST was removed, and remediation is to follow.
2297	951 Bloomfield Street	951 Bloomfield Street	SHWS	PI No. 202071; Site ID 153082; Status listed as "Closed".
	951 Bloomfield Street	951 Bloomfield Street	NJ Release	Case No. 03-07-15-1120-22; Incident related to an UST.
2300	920 Bloomfield Street	920 Bloomfield Street	SHWS	PI No. 191911; Site ID 144972; Status listed as "Pending".
	920 Bloomfield Street	920 Bloomfield Street	NJ HIST SHWS	Case ID 191911; Case status listed as "Active".
2301	953 Bloomfield Street	953 Bloomfield Street	NJ Spills	Case No. 13-05-22-1500-36; Facility ID 474341.
2303	901 Garden Street	901 Garden Street	NJ Release	Case No. 06-02-16-1546-28; incident related to groundwater contamination.
2305	901 Garden Street	901 Garden Street	NJ Release	Case No. 08-06-02-1046-22; caller reported abandoned containers in the rear of the property.
2309	906 Garden Street	906 Garden Street	NJ SHWS	PI No. 466418; Site ID 376332; Status is listed as "Closed".
2309	906 Garden Street	906 Garden Street	NJ Release	Case No. 05-09-28-1310-50; Incident related to an UST.
2312	Girl Scouts of Hudson CNTY	916-922 Garden Street	NJ SHWS	PI No. G000031478; Site ID65919; Status listed as "Active".
	Girl Scouts of Hudson CNTY	916-922 Garden Street	NJ Engineering Controls	PI No. G000031478l Site ID 65919; DER filed 12/28/99; controls consisting of impermeable cover, permeable cover, due to lead, PAHs.
	Girl Scouts of Hudson CNTY	916-922 Garden Street	Brownfields	Site No. 6798; PI No. G000031478; Completed area of concern with restricted use on 3/3/05, C2: Formal design-known or release with GW contamination established 6/16/93, Institutional controls exists requiring biennial certification.
2316	910 Garden Street	910 Garden Street	NJ Release	Case No. 11-06-15-1516-20; Incident related to an UST.
2318	912 Garden Street	912 Garden Street	NJ Release	Case No. 04-09-30-0910-46; Incident related to an UST.
2320	Girl Scout Building	916-922 Garden Street	NJ Release	Case No. 97-10-06-1347-00; Caller reporting that one (1) 1,000 gallon UST was removed, and that holes were found in the tank.
2325	916 Garden Street	916 Garden Street	NJ HIST SHWS	Case ID G000031478; Status listed as "NFA-A (Restricted Use)" as of 3/2/05.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	916 Garden Street	916 Garden Street	NJ Release	Case No. 97-05-01-1601-15; one (1) 1,000 gallon UST was removed and soil contamination was discovered.
2327	Former Girl Scout Building	916-922 Garden Street	VCP	Incident No. 97-10-06-1347-00; MOA executed on 6/16/98.
	906 Garden Street	906 Garden Street	NJ Release	Case No. 05-02-11-1259-50; Incident related to soil contamination.
2330	926 Garden Street	926 Garden Street	SHWS	PI No. 654782; Site ID 521374; Status listed as "Closed".
	926 Garden Street	926 Garden Street	NJ Release	Case No. 13-01-31-1259-23; Incident related to an UST.
2332	In Basement of 935 Garden Street	935 Garden Street	NJ Release	Case No. 96-03-20-1645-31; Caller reported gasoline odors coming from the basement of apartment.
2334	935 Garden Street	935 Garden Street	NJ Release	Case No. 08-10-23-1140-01; Incident related to an UST.
2336	935 Garden Street	935 Garden Street	SHWS	PI No. 516650; Site ID 412437; Status is listed as "Closed".
2337	Empire Molding Co Inc	721-733 Monroe Street	NJ UST	UST Facility ID 033984; TANK 1 was a 1,000 gallon tank that contained leaded gasoline, and was removed as of 5/3/00.
2338	8th Street and Monroe Street	8th Street and Monroe Street	NJ Release	Case No. 04-12-28-0950-06.
2340	Vacant Lot	8th Street and Monroe Street	NJ Release	Case No. 90-10-16-1407; Caller complaining about construction debris .
2342	Empty Lot	8th Street and Monroe Street	NJ Release	Case No. 92-02-05-1006-19; caller complaining that contaminated soil was blowing all around the neighborhood.
2344	Commercial Lot	8th Street and Monroe Street	NJ Release	Case No. 92-02-27-1120-07; Caller reported that truck loads of fill suspected contaminated soil is placed on to incident location.
2346	801 Monroe Street	801 Monroe Street	NJ Release	Case No. 12-07-19-0816-24; Incident related to a suspicious package.
2356	9th Street Properties Corp	824-830 Monroe Street	NJ SHWS	PI No. 171585; Site ID 129115; Status listed as Closed.
	9th Street Properties Corp	824-830 Monroe Street	Brownfields	Site No. 6820, PI No. 171585; Completed- Entire Site Restricted Use on 6/14/06; C1: No Formal Design- Source known or identified-potential GW contamination established 6/13/06; Institutional Controls exists requiring biennial certification.
2359	Ninth Street Property	824 to 830 Monroe Street	NJ HIST SHWS	Case ID 171585; status listed as "Active".
2366	Levolor Lorentzen Inc	720 Monroe Street	NJ SHWS	PI No. 009027; Site ID 44141; Status listed as Active.
	Levolor Lorentzen Inc	720 Monroe Street	NJ HIST SHWS	Case ID 009027; Status listed as "Active" as of 5/15/03; Site with on-site sources of contamination.
	Levolor Lorentzen Inc	720 Monroe Street	NJ UST	UST Facility No. 009027; TANK 1 was a 2,000 gallon tank that contained unleaded gasoline, and was removed as of 4/4/89.
	Levolor Lorentzen Inc	720 Monroe Street	NJ Release	Case No. 98-03-17-1442-21; status is spill listed as "Site Under MOA".
	Levolor Lorentzen Inc	720 Monroe Street	NJ Engineering Controls	PI No. 009027; Site ID 44141; Deed notice in place with impermeable cover, signage, slab, asphalt cap due to metals, PAHs, VOCs.
	Levolor Lorentzen Inc	720 Monroe Street	NJ Institutional Control	Facility ID 44141; CEA Established 5/19/98 with 49 year duration due to trans-1,2-dichloroethylene, tetrachloroethylene, trichloroethylene, vinyl chloride, cis-1,2-dichloroethylene.
	Levolor Lorentzen Inc	720 Monroe Street	VCP	Incident No. 98-03-17-1442-21A; executed on 4/9/98.
	Levolor Lorentzen Inc	720 Monroe Street	Brownfields	Site No. 6773; Assigned to Program on 5/15/03; C2: Formal Design- known source or release with GW contamination established 5/4/98.
	Levolor Lorentzen Inc	720 Monroe Street	NJ Spills	Case No. 01-10-12-1450-54; Caller reported that there may be illegal dumping under the building.
	Levolor Lorentzen Inc	720 Monroe Street	NJ Release	Case No. 01-08-01-1120-22.
	Levolor Lorentzen Inc	720 Monroe Street	NJ SHWS	PI No. 463866; Site ID 44141; Status is listed as Closed.
	Levolor Lorentzen Inc	720 Monroe Street	NJ Release	Case No. 07-12-21-1125-48.
	Levolor Lorentzen Inc	720 Monroe Street	NJ Release	Case No. 12-03-28-1139-50.
	Levolor Lorentzen Inc	720 Monroe Street	VCP	Incident No. 01-08-01-1120-22; MOA executed on 8/1/01.
	Levolor Lorentzen Inc	720 Monroe Street	NJ Spills	Case No. 98-06-28-1234-06; Facility ID 27472, According to caller, spill due to leaking pole mounted transformer.
2396	Casilino Fuel Oil Co.	800 Jackson Ave (Street?)	NJ Spills	Case No. 00-07-26-1642-23.
2398	C C Casalino Fuel Service	800 Jackson Street	SHWS	PI No. 007256; Site ID 396700; Site listed as "Closed".
	C C Casalino Fuel Service	800 Jackson Street	NJ Release	Case No. 14-08-05-0919-24.
2403	905 Hudson ST.	905 Hudson St., Hoboken	NJ Release	Case No. 12-11-16-1231-27; residential UST, no additional information.
2405	905 Hudson ST.	905 Hudson St., Hoboken	NJ SHWS	Status: Closed, no date, Site ID 477167.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
2406	907 Hudson ST.	907 Hudson St., Hoboken	NJ Release	Case No. 04-04-01-1728-54; Residential UST.
2408	907 Hudson ST.	907 Hudson St., Hoboken	NJ SHWS	Site Status: Closed, site ID 171194.
	907 Hudson ST.	907 Hudson St., Hoboken	NJ HIST HWS	Status: Active, date 4/1/2004; Case ID 224947.
2410	918 Hudson St.	918 Hudson St., Hoboken	NJ SHWS	Site ID 377679, Status Closed, PI 468107.
	918 Hudson St.	918 Hudson St., Hoboken	NJ Release	Case No. 08-04-18-1731-22; Residential UST, no additional information.
2412	920 Hudson Owners Corp	920 Hudson St., Hoboken	NJ SHWS	Status: Closed, Site iD 58796; PI 555870.
2413	920 Hudson Street	920 Hudson St., Hoboken	NJ Release	Case No. 11-02-03-1437-41; Residential UST, no additional information.
2417	936 Hudson Street	936 Hudson St., Hoboken	NJ VCP	Incident No. 03-07-25-0955-21; MOA Execution date 09/01/05; type Historical.
2418	Union Dry Dock & Repair Co	901 Sinatra Drive, Hoboken	NJ SHWS	Status: Active, Site ID 21300, PI 013004.
	Union Dry Dock & Repair Co	901 Sinatra Drive, Hoboken	NJ HIST HWS	Status: Active, date 7/8/05.
	Union Dry Dock & Repair Co	901 Sinatra Drive, Hoboken	NJ HIST LUST	Case ID Not reported, Status: Site issued NFA Letter 10/12/94.
	Union Dry Dock & Repair Co	901 Sinatra Drive, Hoboken	NJ UST	Facility ID 013004, 2 2,000 gallons USTs, gasoline and #1 fuel oil both removed 1993.
	Union Dry Dock & Repair Co	901 Sinatra Drive, Hoboken	NJ Release	Case No. 10-01-25-0807-00; Incident Location: case transfer.
2425	Area of 901 Castle Pt Terrace	901 Castle Point Terrace	NJ SPILLS	Case No. 98-06-24-1753-37; citizen, oil sheen on rainwater from UST location at Stevens.
2427	911 Castle Pt Terrace	911 Castle Point Terrace, Hoboken	NJ Release	Case No. 05-12-07-1457-10; Residential UST, no additional information.
2430	913 Castle Point Terrace	913 Castle Point Terrace, Hoboken	NJ Release	Case No. 04-09-15-1125-42; In the area Maxwell House site, citizen complaint.
2432	924 Castle Point Terrace	924 Castle Point Terrace, Hoboken	NJ SHWS	Status: Closed, Site ID 197410, PI No. 259138.
2433	924 Castle Point Terrace	924 Castle Point Terrace, Hoboken	NJ VCP	Incident No. 05-07-18-1131-39; Historical VCP file, MOA execution date 11/23/05.
	924 Castle Point Terrace	924 Castle Point Terrace, Hoboken	NJ HIST HWS	Status: Active, date 7/18/05, Case ID 259138, No additional information.
2434	926 Castle Point Terrace	926 Castle Point Terrace, Hoboken	NJ Release	Case No. 04-11-10-1157-28; Residential UST; No additional information.
2436	926 Castle Point Terrace	296 Castle Point Terrace, Hoboken	NJ VCP	Incident No. 04-11-10-1157-28; Historical VCP File, MOA Execution date 01/19/05.
	7th and Grand Streets	7th and Grand Streets	NJ Release	Case No. 02-09-12-1047-27; Caller reported "equipment upset" at the intersection of Grand street and 7th.
2438	Area of 700 Grand Street	700 Grand Street	NJ Release	Case No. 97-10-18-1058-34; Caller reported abandoned 55-gallon drums of waste oil or diesel were reported with minor spillage.
2442	Grand Street Mercury	720-732 Grand Street	NJ HIST SHWS	Case ID 018482; Case Status "Active" as of 3/31/97;
	Grand Street Mercury	720-732 Grand Street	NJ UST	UST Facility ID 018482; TANK 1 was a 10,000 gallon tank that contained #4 heating oil, was was removed as of 9/14/89.
2444	Condo Complex	720-732 Grand Street	NJ Spills	Case No. 95-12-22-1500-09; Mercury contamination under wooden floors of condo complex; Residents have high levels of mercuy in blood.
2446	Grand Street Mercury	722-732 Grand Street	Delisted NPL	EPA ID NJ0001327733; Site ID 0204030; Deleted Date 2007-09-18 00:00:00.
	Grand Street Mercury	722-732 Grand Street	CERCLIS	Site ID 0204030; EPA ID NJ0001327733; Deleted from the Final NPL.
2478	Condo Complex	722-732 Grand Street	NJ Spills	Case No. 95-09-13-1157-05; Facility ID 14649; CAS No. 7439976.
2480	USEPA Region 2 Grand Street Mercury Site	722 Grand Street	ICIS	Enforcement Action ID 02-2003-2023; FRS ID 110004129372; Program ID RCRAINFO NJR000008953.
2496	Fenced In Lot Behind 718 Grand Street	718 Grand Street	NJ Release	Case No. 91-05-23-0953-56; Caller reported suspected contaminated soil on site.
2498	Quality Tool & Die Co Inc.	720-732 Grand Street	NJ SHWS	PI No. 018482; Site ID 52104; Status listed as "Active".
2502	410 8th Street	410 8th Street	NJ Release	Case No. 14-02-19-1624-30; Incident related to Well # MW-1R.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
2504	LB Russel/American Bottle	410 8th Street	NJ Release	Case No. 91-12-02-1551-14; Caller reported solvent based ink, thinner, and degreaser were dumped into sink drains.
2514	Albee Services	410 8th Street	NJ SHWS	PI No. 022149; Site ID 53700; Status listed as "Active".
	Albee Services	410 8th Street	NJ HIST SHWS	Case ID 022149; Case listed as "Active" as of 4/9/1996.
	Albee Services	410 8th Street	NJ UST	UST Facility 022149; TANK-1 Was a 6,000 gallon tank that contained #4 heating oil, and was removed as of 11/20/91.
	Albee Services	410 8th Street	NJ Release	Case No. 95-12-07-1434-00.
	Albee Services	410 8th Street	NJ Spills	Case No. 89-09-29-1403; Facility ID 11269; Incident related to #4 heating oil.
	Albee Services	410 8th Street	NJ Engineering Controls	PI No. 022149; Site ID 53700; Deed due to metals; parking lot was excavated and replaced with clean fill and asphalt cap, annual air samples will be taken in builidng interior; Incident also states "the 2011 biennial certification of the deed notice presented a new deed notice that has not been filed with the county as of 8/22/(no year listed)".
	Albee Services	410 8th Street	VCP	Incident No. 95-12-07-1434-00; MOA executed on 3/26/96.
	Albee Services	410 8th Street	Brownfields	Site No. 345.
2524	Between Grand & Adams Street on 8th Street	Between Grand & Adams Street on 8th Street	NJ Release	Case No. 96-06-06-1123-29; Caller reported about historical mercury disposal site that may have occurred in the 1920's.
2526	Carnival Sparying	410 8th Street	NJ Release	Case No. 87-07-08-1147; Caller reported block liquid seepage from the site.
2529	Tri-Boro Hardware & Industrial Supply Incorporated	812 Grand Street	NJ SHWS	PI No. 133124; Site ID 94395; Status is listed as "Active".
	Tri-Boro Hardware & Industrial Supply Incorporated	812 Grand Street	NJ HIST SHWS	Case ID 133124; Case Status listed as "Active" .
	Tri-Boro Hardware & Industrial Supply Incorporated	812 Grand Street	NJ Release	Case No. 01-10-04-0030-23; MOA applicable.
	Tri-Boro Hardware & Industrial Supply Incorporated	812 Grand Street	VCP	Incident No. 01-10-04-0030-23; MOA Executed on 10/30/02.
	Tri-Boro Hardware & Industrial Supply Incorporated	812 Grand Street	VCP	Incident No. 01-10-04-0030-23A; MOA executed on 10/11/01.
2540	Christopher Columbus Gardens	460 to 468th Street (Not an address in Hoboken?)	NJ UST	UST Facility ID 018330; TANK-1 was a 10,000 gallon tank containing #2 heating oil, and was removed as of 5/21/96.
2542	Apartment Building	460 8th Street	NJ Release	Case No. 94-12-15-2232-21; Caller reported ongoing smoke condition in area of apartment building.
2544	Brownstone at 723 Willow Street	723 Willow Street	NJ Spills	Case No. 96-01-27-1126-19; Facility ID 1457; Caller reported that material is coming out of a white pipe on the side of stopp, and is running on to the sidewalk.
2546	Northvale II	725 Willow Street	NJ Spills	Case No. 99-02-04-1009-17; Facility 38423; Caller reported that one (1) 1,000 gallon UST was abandoned in place and that soil contamination was found.
2548	805 Willow Avenue	805 Willow Avenue	NJ SHWS	PI No. 233593; Site ID 178257; Status is listed as "Closed".
	805 Willow Avenue	805 Willow Avenue	NJ Release	Case No. 04-06-02-1557-22.
	805 Willow Avenue	805 Willow Avenue	NJ VCP	Incident No. 04-06-02-1557-22; MOA executed on 7/28/04.
2550	813 Willow Avenue	813 Willow Avenue	NJ SHWS	PI No. 293335; Site ID 224716; Status listed as "Closed".
	813 Willow Avenue	813 Willow Avenue	NJ VCP	Incident No. 04-09-27-1405-08; MOA Executed on 8/9/06.
2551	813 Willow Avenue	813 Willow Avenue	NJ Release	Case No. 04-09-27-1405-08; incident related to an UST.
2554	Residence of 841 Willow Avenue	841 Willow Avenue	NJ Spills	Case No. 01-11-14-1050-36; Facility ID 87945; Caller reported that one (1) 550 gallon UST was removed and that cleanup was in process.
2556	841 Willow Avenue	841 Willow Avenue	NJ Release	Case No. 12-11-09-1250-36; incident related to soil contamination.

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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
2571	In Front of 811 Clinton Street	811 Clinton Street	NJ Spills	Case No. 93-05-13-1002-34; Caller reported spill on road from garbage truck, and that cleanup was being done by the fire department.
2759	Roadway of 7th Street and Madison Street	7th Street and Madison Street	NJ Spills	Case No. 93-10-08-1534-26; Caller reported that hydraulic oil discharged from street cleaner, and that city personnel were performing cleanup.
2761	Hoboken Catholic Academy	555 7th Street	NJ UST	UST Facility ID 034116; TANK 1 was a 2,000 gallon tank containing #2 heating oil and was abandoned in place as of 8/27/01, TANK-48999 was a 8,000 gallon tank that contained #2 heating oil and was abandoned in place as of 9/1/13.
2762	555 Seventh Street	555 7th Street	NJ Release	Case No. 12-11-09-1233-31; incident related to an UST.
2764	Hoboken Academy	555 7th Street	NJ Spills	Case No. 01-08-27-1424-08; Facility ID 83874; one (1) 2,000 gallon tank UST closed in place, samples taken and one came back a little hot.
2766	Hoboken Catholic Academy	555 7th Street	VCP	Incident No. 01-08-27-1424-08; MOA Executed on 1/1/11.
	Hoboken Catholic Academy	555 7th Street	NJ HIST LUST	Case No. 01-08-27-1424-08; Facility Status listed as "Administrative Deficiencies Exists" UST ID 0341165.
2768	708 Madison Street	708 Madison Street	NJ SHWS	PI No. 481762; Site ID 385775; Status is listed as "Closed".
	708 Madison Street	708 Madison Street	NJ Release	Case No. 08-05-15-1006-02; Incident related to an UST.
2770	Roadway of 7th and Monroe Street	7th Street and Monroe Street	NJ Release	Case No. 91-07-31-1320-06; Caller reported spill of gasoline or diesel found on roadway, and that cleanup was being performed by the local fire department.
2772	701-703 Monroe Street	701-703 Monroe Street	NJ Release	Case No. 03-09-19-1341-28; incident related to an UST.
2774	700 Monroe Street	700 Monroe Street	NJ Release	Case No. 14-02-07-1039-30; Incident related to soil contamination.
2777	Brick Furniture Warehouse	720 Madison Street	NJ Release	Case No. 91-12-10-1407-10; Caller reported illegal dumping of waste oil on southwest corner of property.
2779	In front of 711 Monroe Street	711 Monroe Street	NJ Release	Case No. 98-04-23-0908-44; one (1) 1-5 gallon container was found at the property.
2784	In the area of 715 Monroe Street	715 Monroe Street	NJ Release	Case No. 94-08-09-0753-20; Caller reported chemical type odor in the area for the last 3 days.
2786	Empire Molding Corp	721-723 Monroe Street	NJ HIST LUST	UST ID: 0339843; Facility Status listed as "Site Issued Letter of No Futher Action for Area of Concern".
2787	719 Monroe Street	719 Monroe Street	NJ Release	Case No. 08-04-11-1244-35; Incident related to soil contamination on-site.
2789	Former Empire Molding Company	721 Monroe Street	NJ Spills	Case No. 00-08-08-1608-08; Facility ID 65845.
2795	AREA of 7th Street and Jackson Street	7th Street and Jackson Street	NJ Release	Case No. 01-07-16-1435-27; Caller reported that material was running down the street into the storm drain.
2824	Stevens Institute of Technology	2 Ninth Street, Hoboken	NJ SPILLS	Case No. 01-02-12-1446-54; Soil sampled/excavated/disposed. UST previously Removed.
2826	2 Ninth Street	2 Ninth Street, Hoboken	NJ VCP	Incident No. 01-02-12-1446-54; Historical VCP file, MOA execution Date 06/12/01.
2829	911 Castle Pt Terrace	911 Castle Point Terrace, Hoboken	NJ SHWS	Status: Closed, Site ID 222951, PI 291179.
	911 Castle Pt Terrace	911 Castle Point Terrace, Hoboken	NJ VCP	Incident No. 05-12-07-1457-10; MOA Execution date 6/23/06, Current VCP file.
2954	East Danmark Partners LLC	605 633 Jackson Street	NJ SHWS	PI No. 223426; Site ID 170034; Status listed as Active.
	East Danmark Partners LLC	605 633 Jackson Street	HIST SHWS	Case ID 223426; Status listed as "Active".
	East Danmark Partners LLC	605 633 Jackson Street	VCP	Incident Number 04-03-03-1515-32; MOA executed on 6/20/2006.
	East Danmark Partners LLC	605 633 Jackson Street	Brownfields	Site No. 6825; assigned to program on 6/16/2006.
2958	Hoboken Autobody	600-632 Jackson Street	NJ Release	Case No. 08-09-10-1540-54.
2960	600-632 Jackson Street	600-632 Jackson Street	NJ Spills	Case No. 04-02-03-1316-47; Facility ID 85602.
2962	600 Jackson Street	600 Jackson Street	NJ Release	Case No. 11-10-14-1138-42.
2964	600 Jackson Street	600 Jackson Street	NJ Release	Case No. 11-10-13-1142-50.
2967	605-633 Jackson Street	605-633 Jackson Street	NJ Release	Case No. 13-09-13-1118-12; Incident related to soil contamination.
2970	600 Harrison	600 Harrison Street	VCP	Incident No. 06-02-02-0054-31; MOA executed on 2/8/06.
2971	600 Harrison Street	600 Harrison Street	NJ SHWS	PI No. 280877; Site ID 415558; Status listed as "Active".
	600 Harrison Street	600 Harrison Street	NJ RELEASE	Case No. 06-02-02-0054-31.
	600 Harrison Street	600 Harrison Street	Brownfields	Site No. 6829; Assigned to program on 2/8/06, listed as a C1: No formal design- source known or identified-potential GW contamination established 2/22/06.
2975	605-633 Jackson Street	605-633 Jackson Street	NJ Release	Case No. 04-03-03-1515-32; Incident related to soil contamination.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
2977	Hoboken Auto Body Incorporated	616 Jackson Street	NJ SHWS	PI No. 220987; Site ID 122703; Status listed as "Active".
	Hoboken Auto Body Incorporated	616 Jackson Street	NJ Engineering Controls	PI No. 220987; Site ID 122703; Restricted Concrete Cap and permeable cover on site due to benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, lead, zinc, antimony.
	Hoboken Auto Body Incorporated	616 Jackson Street	Brownfields	Site No. 6816; NFA-E (Restricted Use) on 5/17/07, C1: No formal Design- Source Known or Identified-Potential GW contamination established on 5/18/07, Institutional Control exists requiring biennial certification.
	Hoboken Auto Body Incorporated	616 Jackson Street	NJPDES	Permit No. NJ0121941; Permit for Stormwater Basic (GP); Permit Issued 7/1/94, effective 8/3/94, and expired 1/31/02.
2984	Hoboken Auto Wrecking	620 Jackson Street	NJ Release	Case No. 88-09-21-1313; Caller reported illegal dumping of petroleum product.
2986	Hoboken Auto Body Incorporated	600-632 Jackson Street	NJ HIST SHWS	Case ID 220987; Cast listed as "Active" as of 2/4/04.
	Hoboken Auto Body Incorporated	600-632 Jackson Street	NJ UST	UST Facility ID: 220987; TANK 2 was a 20,000 gallon tank that contained #2 heating oil, and was removed as of 11/9/04; TANK-3 was a 20,000 gallon tank that contained #2 heating oil, and was removed as of 11/9/04; TANK-4 was a 20,000 gallon tank that contained #2 heating oil, and was removed as of 11/9/04.
3005	Apartment Comple	600 Monroe Street	NJ Release	Case No. 94-05-17-1218-53; Caller reported that one (1) 2,000 gallon UST was removed and holes in the tank were observed.
3008	600 Monroe Street	600 Monroe Street	NJ SHWS	PI No. G000023327; Site ID 77866; Status lsited as "Closed".
3010	A & R Garage	613 Monroe Street	NJ Release	Case No. 97-03-08-1122-56; Caller reported that garge was emptying radiators, which caused material to run on to the street.
3012	Auto Shop	613 Monroe Street	NJ Spills	Case No. 98-01-13-0935-11; Caller reported that spills on ground and around the site have been going on for years.
3014	623 Monroe Street	623 Monroe Street	NJ Release	Case No. 13-07-30-1247-11; Incident realted to an UST.
3016	Frank Sinatra Drive	Frank Sinatra Dr., Hoboken	NJ Release	Case No. 02-04-12-1535-53; Smoke/dust, Stevens Institute.
3035	Super Market Loading Dock	614 Clinton Street	NJ Spills	Case No. 95-05-10-1853-35; Caller reported spill from fuel tank due to puncture of tank; content in tank is diesel fuel, about 3 gallons spilled.
3037	Foodtown Supermarket	616 Clinton Street	NJ Release	Case No. 90-08-30-1908; Incident related to raw sewage.
3039	PSE&G Hoboken Laydown Area	1622 Clinton Street	SHWS	PI No. 634604; Site ID 503843; Status listed as Active.
	PSE&G Hoboken Laydown Area	1622 Clinton Street	SHWS	PI No. 625240; Site ID 21626; Status listed as Active.
3040	530 to 532 Madison Street	530 to 532 Madison Street	HIST SHWS	Case ID G000027072; Case status listed as "Active"; Site with on-site sources of contamination.
3041	530 Madison Avenue	530 Madison Avenue (Street?)	NJ Release	Case No. 95-09-28-1340-25; Caller reported one (1) 1,000 gallon UST was removed and that cleanup is being done.
	530 Madison Avenue	530 Madison Avenue (Street?)	VCP	Incident No. 95-09-28-1340-25; MOA executed on 9/12/96.
3043	Car on Corner of 6th and Madison	6th Street and Madison Street	NJ Release	Case No. 92-06-04-1447-35; caller complained about car alarm.
3045	616 Madison Street	616 Madison Street	SHWS	PI No. 526975; Site ID 421226; Status is listed as "Closed".
	616 Madison Street	616 Madison Street	NJ Release	Case No. 09-11-25-1058-56; Incident related to an UST.
3048	Former Industry/Parking Lot	6th and Jefferson Street	NJ Release	Case No. 92-07-22-1545-56; Caller reported that soil was contaminated with unknown material.
3051	Area of 620 Jefferson Street	620 Jefferson Street	NJ Release	Case No. 01-09-22-2016-17; Caller reported strong odor in the area of the residence.
3055	Area of 6th and Grand Street	6th and Grand Street	NJ Release	Case No. 98-03-07-1155-46; Caller reported that a vault was filled with water; problem has been fixed.
3062	613 4th Street	613 Fourth Street	NJ Release	Case No. 11-04-13-1020-22; Caller reported Sewage in the area of site.
3064	Hoboken City Mama Johnson Field Improvements	Jackon Street and Fourth Street	NJ Institutional Control	PI No. 589875; Facility ID 457230; Established on 7/31/2013; in place due to historic fill.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
3065	On road at Interchange	Jackson Street and Fourth Street	NJ Spills	Case No. 93-1-30-1507-34; Caller reported spill from bus breakdown, and that the spill was contained on pavement.
3067	Jackson Street and Fourth Street	Jackon Street and Fourth Street	NJ Release	Case No. 06-05-15-1104-18; Caller reported sewage in the area of the site.
3070	501-507 Jackson Street	501-507 Jackson Street	NJ Release	Case No. 06-03-11-0200-16; Incident related to a MOA.
3072	501 Jackson Street	501 Jackson Street	NJ Release	Case No. 06-09-21-1213-08; Incident related to an UST.
	501 Jackson Street	501 Jackson Street		Case No. 06-07-10-1136-47; Incident related to an UST.
3077	Fifth Street Condos LLC (Former C-Town Groceries)	501-507 Jackson Street	VCP	Incident No. 06-03-11-0200-16; MOA executed on 6/7/06.
3078	509-511 Jackson	509-511 Jackson Street	NJ Release	Case No. 07-09-26-0914-58; Caller reported air release within the area.
3081	525 Jackson Street	525 Jackson Street	NJ SHWS	PI No. 584197; Site ID 463112; Status listed as "Closed".
	525 Jackson Street	525 Jackson Street	NJ Release	Case No. 09-11-10-1321-11; Incident related to an UST.
3084	526 Jackson Street	526 Jackson Street	NJ Release	Case No. 13-12-06-1229-53; Caller reported the impropor disposal and storage of content.
3104	On The Street	5th Street and Jefferson Street	NJ RELEASE	Case No. 91-07-26-2143-13; Caller reported raw sewage from an apartment building was going on to the street and into the sewer.
3107	Area of 512 Jefferson Street	512 Jefferson Street	NJ Release	Case Nol 89-10-07-0927; Incident related to dust around the area .
3109	515-517 Jefferson Street	515-517 Jefferson Street	VCP	Incident No. 05-05-24-1050-10; MOA executed on 7/6/05.
3111	Micheal Aram Inc	511 Madison Street	NJ Release	Case No. 97-03-20-1859-22; Caller reported one (1) 1,000 gallon UST was removed and that cleanup was in process.
3115	Tony H's Kitchens	524 Jefferson Street	NJ Release	Case No. 01-04-20-1349-30; Caller reported strong odors in the area.
3117	Area of 525 Madison Street	525 Madison Street	NJ Release	Case No. 01-05-19-1352-11; Caller reported strong odors in the area.
3119	Area of 525 Madison Street	525 Madison STreet	NJ Release	Case No. 01-05-07-2006-47; Caller reported strong paint odor in the area, claimed to cause headaches.
3121	Area of 525 Madison Street	525 Madison Street	NJ Release	Case No. 01-06-15-1153-41; Caller reported that strong odors from the nearby factory was entering the resident's home.
3121				Case No. 01-04-03-1521-31; Caller reported strong chemical odors in the area.
3125	Area of 525 Madison Street	525 Madison Street	NJ Release	Case No. 01-06-09-1321-33; Caller reported strong odors in the area.
3127	Area of 525 Madison Street	525 Madison Street	NJ Release	Case No. 01-05-03-0934-52; Caller reported chemical odors in the area.
3129	In the Area of 525 Madison Ave	525 Madison Avenue (Street?)	NJ Release	Case No. 01-03-19-1414-52; Caller reported strong acetone odors in the area of callers home.
3131	515-517 Jefferson Street	515-517 Jefferson Street	NJ Release	Case No. 05-05-24-1050-10; Incident related to an UST.
3133	530-532 Madison Street	530-532 Madison Street	VCP	Incident No. 95-09-28-1340-25; MOA executed on 9/4/98.
3134	Between 5th and 6th on Madison Street	Madison Street	NJ Release	Case No. 90-11-14-1311; Caller reported gray dust blowing in the area.
3137	503 Monroe Street	503 Monroe Street	NJ Release	Case No. 03-01-31-1644-50; Incident related to an UST; property was once a former service station.
3139	Former Service Station	503 Monroe Street	SHWS	PI No. 95034; Site ID 61418; Status listed as "Closed".
	Former Service Station	503 Monroe Street	HIST SHWS	Case ID 95034; Case status listed as "Active" as of 10/27/2003; Site with on-site sources of contamination.
	Former Service Station	503 Monroe Street	NJ UST	UST Facility ID 95034; TANK 2 was a 2,000 gallon tank that contained leaded gasoline, and was removed as of 2/6/2003; TANK 3 was a 2,000 gallon tank that contained leaded gasoline, and was removed as of 2/6/2003; TANK 7 is a 1,000 gallon tank that contained leaded gasoline, and was abandoned in place as of 1/24/2006.
3189	530 Adams Street	530 Adams Street	VCP	Incident No. 04-12-17-1137-35; MOA executed on 12/5/05.
	530 Adams Street	530 Adams Street	NJ Release	Case No. 04-12-17-1137-35; incident related to an UST.
3191	530 Adams Street	530 Adams Street	NJ HIST SHWS	Case ID 268099; Case status listed as "Active"; assigned to Bureau of Field Operations (Northern); Site with on-site sources of contamination.
3192	532 Adams Street	532 Adams Street	NJ SHWS	PI NO. 282874; Site ID 216543; Status listed as "Closed".
	532 Adams Street		VCP	Incident No. 06-02-22-1245-27; MOA executed on 2/1/07; PI No. 282874.
	532 Adams Street	532 Adams Street	NJ RELEASE	Case No. 06-02-22-1245-27; Incident related to an UST.
	532 Adams Street	532 Adams Street	NJ Release	Case No. 06-01-26-1209-34; incident related to an UST.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
3197	Resident Building	413 5th Street	NJ Spills	Case No. 92-11-19-1138-56; Caller complained about oil spill in the basement and the oil has been pumped into the street and is going into a storm drain.
3199	500 Grand Street	500 Grand Street	NJ SHWS	PI No. 622376; Site ID 493760; status listed as "Closed".
	500 Grand Street	500 Grand Street	NJ Release	Case No. 13-02-07-1506-56; Incident related to soil contamination.
3203	508 Grand Street	508 Grand Street	NJ Release	Case No. 03-10-20-1442-55; Incident related to an UST.
	508 Grand Street	508 Grand Street	VCP	Incident No. 03-10-20-1442-55; MOA Executed on 1/29/2004.
3204	504 Grand Street	504 Grand Street	NJ Release	Case No. 13-04-02-1154-22; incident related to an UST.
3205	508 Grand Street	508 Grand street	NJ SHWS	PI No. 214157; Site ID 163415; Status listed as "Closed".
	508 Grand Street	508 Grand street	NJ HIST SHWS	Case ID 214157; Caste listed as "Active" as of 10/20/2003; assigned to Bureau of Field Operations - Northern, and listed as a site with on-site sources of contamination.
3206	Hanks Service Center Inc	530 Grand Street	NJ HIST LUST	Case No. 96-04-25-1637-10; Status listed as "Site Issued Letter of No Further Action For Area(s) of Concern"; UST ID 0056838; CEA in place.
	Hanks Service Center Inc	530 Grand Street	NJ UST	UST Facility ID 005683; TANK 1 was a 4,000 gallon tank and contained unleaded gasoline, and was removed as of 4/23/1996; TANK 2 was a 6,000 gallon tank and contained leaded gasoline, and was removed as of 4/23/1996; TANK 3 was a 6,000 gallon tank and contained unleaded gasoline, and was removed as of 4/23/1996; TANK-4 was a 550 tank and contained waste oil, and was removed as of 4/23/1996; TANK 5 was a 2,000 gallon tank and contained unleaded gasoline, and was removed as of 4/25/1996.
	Hanks Service Center Inc	530 Grand Street	NJ Release	Case No. 96-04-25-1637-10; one (1) 4,000 gallon and one (1) 2,000 gallon UST removed; soil contamination found.
	Hanks Service Center Inc	530 Grand Street	NJ SHWS	PI No. 005683; Site ID 43438; Status listed as Active.
	Hanks Service Center Inc	530 Grand Street	NJ HIST SHWS	CASE ID 005683; Case status listed as NFA-A (Limited Restricted Use) as of 3/5/1998; CEA present.
	Hanks Service Center Inc	530 Grand Street	NJ Institutional Control	Facility ID 43438; CEA due to Benzene.
	Hanks Service Center Inc	530 Grand Street	NJ Brownfields	Site No. 6771; Listed as completed-area of concern limited restricted use on 3/5/1998, C2 Formal Design- known source or release with GW contamination established 7/12/1996, and instututional cotrols exists requiring biennial certification.
3215	Stevens Institute of Technology	Castle Point, Hoboken	NJ Release	Case No. 97-8-25-1210-26; #6 fuel oil, 1 15,000-gal UST removed, remediation in progress.
3217	Stevens Institute of Technology	Hudson Ave, Hoboken	NJ SPILLS	Case No. 98-09-23-1125-32; Facility ID 32124, removal of 1 10,000gal UST.
3219	Stevens Institute of Technology	Castle Point on Hudson, Hoboken	NJ Release	Case No. 89-11-15-1018; Citizen complaint, Gas odors.
3221	Stevens Institute of Technology	5th St & River St., Hoboken	NJ Release	Case No. 95-5-30-0931-07; Citizen, facility has drum, overflow when rains, observed few months before call.
3223	Stevens Institute, Navy Pkg Lot	Castle Point Station, Hoboken	NJ Release	Case No. 92-7-21-0958-13; Pyridine (suspected), suspected illegal dumping into dumpster.
3225	Stevens Institute of Technology	6th & Sinatra Drive, Hoboken	NJ SPILLS	Case No. 89-08-17-0958; liquid Fenocil, 20 gallonss, no additional information.
3228	Hoboken Housing Authority	400 Marshall Drive	NJ Spills	Case No. 99-06-29-1528-13; Facility ID 45476; Incident related to two (2) abandoned USTs with leaking pipes.
3230	Hoboken Housing Andrew Jackson	400 Marshall Drive	NJ UST	UST Facility ID 017489; TANK 1 was a 10,000 gallon tank containing #2 heating oil and was removed as of 4/16/1999; Records also indicate that there was a TANK 2 but it is listed as 0 for tank size (containined #2 heating oil).
3233	Hoboken Free Public Library	500 Park Avenue	SHWS	PI No. 011591; Site ID 44981; Status is listed as "Closed".
	Hoboken Free Public Library	500 Park Avenue	NJ UST	UST Facility ID 011591; TANK 1 was a 5,000 gallon tank containing #4 heating oil and was removed as of 3/22/1991.
	Hoboken Free Public Library	500 Park Avenue	NJ HIST LUST	Case No. 91-03-08-1156; UST ID 0115913; Facility Status listed as "Site Issued Letter of No Further Action for Area(s) of Concern".

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	Hoboken Free Public Library	500 Park Avenue	NJ Release	Case No. 91-03-08-1156-21; Caller reported that one (1) 3,000 gallon tank containing #4 heating oil was leaking, and removal was scheduled.
3236	507 Park Ave	507 Park Avenue	NJ Release	Case No. 04-02-12-1730-22; Incident related to an UST.
3238	507 Park Avenue	507 Park Avenue	NJ SHWS	PI No. 221531; Site ID 168553; Status listed as Closed.
3240	511 Park Street	511 Park Street	NJ Release	Case No. 02-07-16-1241-43; Incident related to an UST.
3242	510 Park Ave	510 Park Avenue	NJ Release	Case No. 07-04-13-1143-14; Incident related to an UST.
3244	510 Park Avenue	510 Park Avenue	VCP	Incident No. 07-04-13-1143-14; MOA excuted on 5/8/2007; PI No. 436089.
	Salvatore Calabro Elementary School	524 Park Avenue	NJ HIST LUST	Case No. 94-07-12-1714; UST ID 0250760; Facility Status listed as "Site Issued Letter of No Further Action for Areas of Concern"; NFA received 4/14/1997.
	Salvatore Calabro Elementary School	524 Park Avenue	NJ Release	Case No. 94-07-12-1714-56; caller reported that one (1) 8,000 gallon #2 heating oil tank was removed.
	Salvatore Calabro Elementary School	524 Park Avenue	NJ Release	Case No. 00-02-10-0047-25.
	Salvatore Calabro Elementary School	524 Park Avenue	VCP	Incident No. 00-02-10-0047-25; MOA executed on 2/16/2000.
3249	523 Park Avenue	523 Park Avenue	NJ SHWS	PI No. 504312; Site ID 403060; Status listed as "Closed".
	523 Park Avenue	523 Park Avenue	NJ Release	Case No. 08-09-25-1231-02; Incident related to UST.
3252	Calabro School	524 Park Avenue	SHWS	PI No. 025076; Site ID 49527; Status listed as "Closed".
	Calabro School	524 Park Avenue	NJ HIST SHWS	Case ID 025076; status listed as "Active" as of 4/17/1997.
	Calabro School	524 Park Avenue	NJ UST	UST Facility ID 025076; TANK 1 was a 8,000 gallon tank containing #2 heating oil and was removed as of 7/6/94.
	Calabro School	524 Park Avenue	Brownfields	Site No. 6776; was assigned to program on 4/17/1997 and is classified as C2: Formal Design- known source or release with GW contamination established on 3/21/2000.
3255	524 Park Avenue	524 Park Avenue	NJ Release	Case No. 11-04-21-0910-35; incident type listed as groundwater contamination.
3257	527-529 Park Ave.	527-529 Park Avenue	NJ Release	Case No 07-11-13-1039-39; incident related to an UST.
3259	527 Park Ave.	527 Park Ave.	NJ Release	Case No. 08-05-13-1449-58; incident related to an UST.
3261	533 Park Avenue	533 Park Avenue	NJ Release	Case No. 03-09-14-1138-50; incident related to abandoned containers.
3265	515 Willow Avenue	515 Willow Avenue (Street?)	NJ Release	Case No. 10-08-29-0849-22.
3267	519 Willow Ave Unit 2	519 Willow Ave (Street?) Unit 2	NJ Release	Case No. 14-07-23-1317-20; Incident related to an UST.
3269	461 Fourth Street	461 Fourth Street	NJ Release	Case No. 05-02-28-1318-47; Incident related to an UST; Incident located at the vacant building.
	461 4th Street	461 Fourth Street	NJ Release	Case No. 05-02-28-1318-47; Incident related to an UST.
3271	Michael Aran Inc.	511 to 515 Madison Street	NJ UST	UST Facility ID 031743; TANK 1 was a 1,000 gallon tank containing leaded gasoline, and was removed as of 3/20/1997.
3274	515-4th Street Hoboken	515 Fourth Street	NJ UST	UST Facility ID: 030794; Tank 1 is a 4,000 gallon tank that contains "Other" contents, and is currently In-Use as of 1/1/1944.
3275	402 Jefferson Street	402 Jefferson Street	NJ Release	Case No. 06-07-12-1150-21; Incident related to an UST.
3278	Condominium Association	423 Jefferson Street	NJ Release	Case No. 92-10-19-1717-39; Caller reported that a #2 heating oil UST was abandoned at the location, and that the building converted to gas from fuel oil.
3282	Condominimum Association	423 Jefferson Street	NJ HIST LUST	Case No. 92-10-19-1717; Facility Status listed as "Case Awaiting Assignment"; Program Assigned to Bureau of Field Operations- Initial Notice Section.
3282	Nelson Auto Repair	415 Madison Street	NJ Spills	Case No. 00-11-06-1607-56; Facility ID 70477; Status at spill listed as "Information redacted due to data corruption causing status reporting errors".
3284	Nelson Garage	415 Madison Street	NJ Release	Case No. 96-04-04-1611-05; Caller reported that the facility was dumping fluids into storm drains (motor oil, antifreeze).
	Nelson Garage	415 Madison Street		Case No. 03-04-02-1003-56; Cited for "Sloppy Housekeeping".
3289	LMT Steel	559 Madison Street	NJ Release	Case No. 93-06-17-1711-05; Caller reported that the facility is pumping waste water out on to the roof.
3291	302 Monroe Street	302 Monroe Street	SHWS	PI No. 572556; Site ID 451374; Status listed as "Closed".
	302 Monroe Street	302 Monroe Street	NJ Release	Case No. 11-09-20-1557-28; Incident related to an UST.
3293	331 Monroe Street	331 Monroe Street	NJ Release	Case No. 10-08-13-1113-30; Incident related to an UST.

TABLE 5-1
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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
3339	415 Adams Street	415 Adams Street	NJ Release	Case No. 07-01-26-1826-33; Incident related to an UST.
3342	Area of 418 Adams Street	418 Adams Street	NJ Release	Case No. 02-02-05-0944-00; Caller complained about dust blowing around the area due to demoltion of building.
3353	In Front of 420 Grand Street	420 Grand Street	NJ Spills	Case No. 00-11-09-0205-25; Facility ID 70607; Status at spill is listed as "Information redacted due to data corruption causing status reporting errors".
3363	Shamborg Paper	38 Jackson Ave, Hoboken	NJ Release	Case No. 92-7-16-1426-15; Caller reported xyelene odors.
3366	38 Jackon Street	38 Jackson Street, Hoboken	NJ Release	Case No. 14-10-03-1205-02; caller reported air release.
3405	Chambord Prints Inc	38 Jackson	NJ Release	Case No. 92-4-28-0929-04; caller reported that black smoke comes out of a 20inch stack on side of building everyday.
	Chambord Prints Inc	38 Jackson	NJ Release	Case No. 92-2-4-0905-41; caller reported heavy smoke coming out of stack.
3415	In Roadway of Jackson Street and Observer	Jackson Street and Observer Highway	NJ Spills	Case No. 90-04-27-1644; caller reported spill of diesel fuel.
3418	61 Jackson Street	61 Jackson Street	NJ Release	Case No. 08-01-29-1729-28; case related to an UST.
3421	In the area of 76 Jackson	76 Jackson Street	NJ Release	Case No. 97-1-23-1409-23; caller reported paint odors coming from facility.
3424	Roadway of 99 Paterson	99 Paterson	NJ Spills	Case No. 90-08-24-0931; caller reported spill of motor oil, TERMINATED.
3426	In Front of 99 Paterson Ave	99 Paterson Ave	NJ Spills	Case No. 93-5-21-1235-41; Caller reported spill on roadway; town cleaning up street.
3430	Pointe Equities Inc	119 Paterson Avenue	NJ Hist Lust	Case No. 91-06-11-0025; Site issued a NFA 3/19/1993.
3431	91 Jackson Street	91 Jackson Street	NJ Release	Case No. 10-08-04-1215-55, case related to UST.
3433	Mile Square Machinery Inc aka Midway Ink Corp	665-659 1st Street and 85-99 Harrison Street	NJ VCP	Incident No. 98-05-07-1028-38; MOA Execuation date of 3/01/2004.
3435	TM Contracting Company Incorporated	109 Monroe Street	NJ SHWS	Site ID 425366, Status listed as Closed, PI No. 532420.
	TM Contracting Company Incorporated	109 Monroe Street	NJ Release	Case No. 10-03-16-1401-23; Call associated with UST.
3439	Midway Ink Corp	659 1st Street	NJ SHWS	Site ID 17685, status listed as Active, PI No. 022822.
	Midway Ink Corp	659 1st Street	HIST SHWS	Case ID 022822.
	Midway Ink Corp	659 1st Street	NJ UST	UST facility ID 022822; Tank 1 was a 3000 gallon UST that contained No.2 heating oil and was removed as of 1/23/1991.
	Midway Ink Corp	659 1st Street	NJ Release	Case No. 98-05-19-0038-55; case related to a MOA Application.
	Midway Ink Corp	659 1st Street	NJ Engineering Controls	Site ID 17685; PI No. 022822; deed notice due to Historic Fill constituents.
	Midway Ink Corp	659 1st Street	VCP	Incident No. 98-05-19-0038-55; MOA executed on 5/28/1998.
	Midway Ink Corp	659 1st Street	Brownfields	Site No. 6766; known source of release with GW contamination established 5/30/1998.
	Midway Ink Corp	659 1st Street	NJ HIST LUST	Case ID 98-05-07-1028-38; status is "case awaiting assignment".
	Midway Ink Corp	659 1st Street	NJ Spills	Case No. 98-05-07-1028-38; caller reported that four (4) 3,000 gallon USTs removed and remediation in progress.
3454	Mojica Service Center	1st Street	NJ Release	Case No. 96-2-20-0945-43; spill associated wiith the removal of two (2) 3,000 gallon UST.
3456	123 Monroe Street	123 Monroe Street	NJ Spills	Case No. 12-11-10-1323-39.
3458	108 Jackson Street LLC	108 Jackson Street	NJ Release	Case No. 00-04-06-0003-44.
	108 Jackson Street LLC	108 Jackson Street	VCP	Incident No. 00-04-06-0003-44; MOA Executed 4/26/2000.
3461	110 Jackson Street LLC	110 Jackson Street	NJ Release	Case No. 00-04-06-0004-44.
	110 Jackson Street LLC	110 Jackson Street	VCP	Incident No. 00-04-06-0004-44; MOA executed on 4/26/2000.
3463	101 Harrison Street	101 Harrison Street	NJ Release	Case No. 06-12-08-1529-11.
3465	Irving's Service Center	701-703 1st Street	NJ LUST	LUST Case ID 23384, Activity No. LSR130001.
	Irving's Service Center	701-703 1st Street	NJ UST	Facility ID 023384; TANK 1 was a 3,000 unleaded gasoline tank that was removed as of 7/21/2014; TANK 2 was a 3000 gallon unleaded gasoline tank that was removed as of 7/21/2014.
3466	Mojica Service Center	703 1st Street	NJ HIST LUST	Case ID 96-02-20-0945-43; status listed as NFA issued.
	Mojica Service Center	703 1st Street	NJ UST	UST Facility 020543; TANK 1 was a 3,000 gallon leaded gasoline UST that was removed as of 5/21/1991; TANK 2 was a 3,000 gallon leaded gasoline UST that was removed as of 5/21/1991.
3470	112 Jackson Street LLC	112 Jackson Street	NJ Release	Case No. 00-04-06-0000-35.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	112 Jackson Street LLC	112 Jackson Street	NJ VCP	Case No. 00-04-06-0000-35; MOA Executed 4/26/2000.
3472	Area of 126 Monroe Street	126 Monroe Street	NJ Release	Case No. 91-7-9-2028-14; caller reported diesel odors in the area.
3475	700 First Street	700 First Street	NJ Release	Case No. 06-01-28-2135-20.
3477	Vacant Lot	128-132 Monroe Street	NJ Release	Case No. 91-5-15-1002-03; caller reported the dumping of horse manure and other solid debris.
3479	P&M Tire and Brakes Property	101 Harrison Street	NJ SHWS	Site ID 340071, status listed as Active; PI No. 420421.
	P&M Tire and Brakes Property	101 Harrison Street	NJ Release	Case No. 07-02-22-1330-32; incident related to an UST.
	P&M Tire and Brakes Property	101 Harrison Street	NJ VCP	Incident No. 06-12-08-1529-11; MOA executed on 4/16/2009.
	P&M Tire and Brakes Property	101 Harrison Street	NJ VCP	Incident No. 07-02-22-1330-32; MOA executed on 4/16/2009.
	P&M Tire and Brakes Property	101 Harrison Street	NJ LUST	Case ID 420421; Activity No. LSR120001.
	P&M Tire and Brakes Property	101 Harrison Street	NJ UST	UST Facility 420421; TANK Was a 1,500 gallon Leaded gasoline tank that was removed as of 2/22/2007; TANK 3 was a 1,500 gallon leaded gasoline tank that was removed as of 2/22/2007; TANK 3 was a 550 gallon waste oil tank that was removed as of 2/22/2007; TANK 4 was a 550 gallon waste oil tank that was removed as of 2/22/2007; TANK 5 was a 1,500 gallon unleaded gasoline tank that was removed as of 2/22/2007.
3493	Joe's Texaco	117 Jackson Street	NJ Hist Lust	Case ID 90-01-17-1443; Site issued NFA 2/10/1992.
3494	The Muffler Shop	117 Jackson Street	NJ SHWS	Side ID 25315; status listed as Closed; PI No. 021177.
	The Muffler Shop	117 Jackson Street	NJ UST	UST Facility ID 021177; TANK 1 was a 12,000 gallon unleaded gasoline UST that was removed as of 1/17/1990; TANK 2 was a 12,000 gallon leaded UST that was removed as of 1/17/1990; TANK 3 was a 12,000 gallon unleaded gasoline UST that was removed as of 1/17/1990.
3497	Mannino Service Station	117 Jackson STreet	NJ Release	Case No. 90-01-17-1443; caller reported release of gasoline.
3500	Jackson Street Garage	116-118 Jackson Street	US Brownfields	Listed as R2 Brownfields TBA (previously Superfund TBA).
	Jackson Street Garage	116-118 Jackson Street	NJ HIST SHWS	Status listed as Active; Case ID 189864.
	Jackson Street Garage	116-118 Jackson Street	NJ Release	Case No. 02-12-05-0109-20.
	Jackson Street Garage	116-118 Jackson Street	NJ VCP	Incident No. 02-12-05-0109-20.
3513	Albee Services Inc.	38 Jackson Ave, Hoboken	NJ Release	UST Facility ID: 025935; TANK 1 was a 8,000 gallon No.4 heating oil UST that was removed as of 6/18/92.
	Albee Services Inc.	38 Jackson Ave, Hoboken	NJ SHWS	Site ID 22906; Status listed as Active; PI No. 025935.
	Albee Services Inc.	38 Jackson Ave, Hoboken	HIST SHWS	Case ID 025935, listed as Active as of 1/23/2001.
	Albee Services Inc.	38 Jackson Ave, Hoboken	NJ Release	Case No. 92-6-19-1045-05; caller reported contamination when abandoning tank.
	Albee Services Inc.	38 Jackson Ave, Hoboken	NJ Release	Case No. 96-4-11-1004-30.
	Albee Services Inc.	38 Jackson Ave, Hoboken	VCP	Incident Number 96-04-11-1004-30.
3521	At Intersection of Paterson and First Street	At Intersection of Paterson and First Street	NJ Spills	Facility ID 11992; Case No. 94-7-7-1414-40; Caller reported black tar like material in ditch with no clean up, caller claimed material is toxic.
3523	Brownstone Communities	129, 131, 133 Jackson Street, 128, 130, 132 Monroe Street	NJ VCP	Incident No. 98-05-13-0048-37; MOA executed 6/15/2001.
3524	Brownstone Company 1	129-133 Jackson Street	NJ Brownfields	Site ID 341; Listed as KCSL on file.
	Brownstone Company 1	129, 131, 133 Jackson Street; 128, 130, 132 Monroe Street	NJ VCP	Incident No. 98-05-13-0048-37A; MOA Executed 5/26/1998.
3526	Ehrlich Trucking (Former)	101-119 Marshall Street; 121-133 Marshall Street	NJ VCP	Incident No. 96-06-14-1206-22; MOA executed 8/24/2001.
3527	Block 25 Lot 8	101 Marshall Street	NJ Release	Case No. 96-6-14-1206-22; caller reported one (1) 1000 gallon UST removed and found soil contamination.
3531	Vacant Building	111 Marshall Street	NJ Release	Case No. 93-11-8-1245-39; caller reported 4 plastic cylinders believed to contain kerosene and propane.

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SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
3533	108 Marshall Street	108 Marshall Street	NJ UST	UST Facility ID 011378; TANK 1 was a 1,000 gallon No.2 heating oil UST that was removed as of 5/2/2000; TANK 2 was a 300 gallon No. 2 heating oil UST that was removed as of 5/2/2000; TANK 3 was a 2,000 gallon No.2 heating oil that was removed as of 5/2/2000; TANK 4 was a 2,000 gallon No.2 heating oil UST that was removed as 5/2/2000; TANK 5 was a 2,000 gallon No. 2 heating oil UST that was removed as of 5/2/2000.
3535	Abandoned Facility	108 Marshall Street	NJ Release	Case No. 91-7-8-0916-31; caller reported drums of unknown material left at site.
3537	108 Marshall Street	108 Marshall Street	NJ Hist Lust	UST ID 0113780; Site Issued NFA 1/3/2001.
3540	Allied Pump Facility	128 Harrison Street	NJ SHWS	Site ID 30769; listed as Active; PI No. 254482.
	Allied Pump Facility	128 Harrison Street	NJ Brownfields	Site No. 6769.
3542	Commercial Building	119-133 Marshall Street	NJ Spills	Case No. 98-04-30-1215-05; caller reported one (1) 550 gallon UST removed.
3547	Lot 13, 14, 15 Block 25	119 Marshall Street	NJ Release	Case No. 96-6-14-1200-52; caller reported one (1) 750 gallon UST removed and soil contamination was discovered, to be removed by contractor.
3550	120 Monroe Street	120 Monroe Street	NJ Release	Case No. 05-07-07-1702-47; caller reported improper storage/disposal.
3552	Hoboken/Jersey City Border	Paterson Plank Road	NJ Release	Case No. 92-6-10-1204-00; caller reported three (3) 55-gallon drums abandoned along road.
3555	#128, #130, #132 Vacant Lot	Monroe Street	NJ Release	Case No. 91-5-16-1444-27; caller reported soild debris and suspected soil dumped at location.
3557	Vacant Lots on Marshall Street Between 1st-2nd	Vacant Lots on Marshall Street Between 1st-2nd	NJ Release	Case No. 96-6-18-1609-43; caller reported unknown people dumping three (3) 1,000 gallon UST contents on property.
3565	Connors School	2nd Street	NJ Hist Lust	Case ID 93-12-17-1122-09; UST ID 0250805; NFA issued 4/14/1997.
	Connors School	2nd Street	NJ UST	UST Facility ID 025080, Tank 1 was a 10,000 gallon No.4 heating oil tank that was removed as of 12/07/1993.
3567	On Roadway of Paterson Plank and Hope, Jersey City	On Roadway of Paterson Plank and Hope, Jersey City	NJ Spills	Case No. 94-8-28-0734-09; Caller reported that MVA caused spill.
3569	At Intersection of Mountain And Hope Street, Jersey City	At Intersection of Mountain And Hope Street, Jersey City	NJ Release	Case No. 95-9-11-1041-24; caller reported two (2) 30 gallon drums possibly containg waste oil on property.

TABLE 5-1
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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
3619	Harrison Gardens	320 Jackson	NJ UST	Facility ID 018343; TANK 1 was a 15,000 gallon No.4 heating oil UST that was removed as of 5/21/1996.
3620	Monaco Apartments	331 Jackson	HIST LUST	Case ID 99-12-29-1222-23; site issued NFA 8/18/2000.
3621	Commercial Garage	331 Jackson Street	NJ Release	Case No. 99-12-29-1222-23; caller repoted one 550 gallon UST removed and soil samples collected.
3634	411 Clinton Street	411 Clinton Street	NJ Release	Case No. 08-09-30-1010-52; Incident related to an UST.
3694	Stevens Institute of Technology	5th & River St., Hoboken	NJ SPILLS	Case No. 90-09-16-1818; methyl acrylate, inhibited, 1 Liter, contained.
3696	Stevens Institute of Technology	507 River Terrace, Hoboken	NJ Release	Case No. 92-7-22-1412-07; various bottles and cans with unknown chemicals, sloppy housekeeping.
3698	Mrs. Hyman	259 Fourth Street	NJ Release	Case No. 90-01-12-0150; caller reported an odor at the site.
3700	265 4th Street	265 Fourth Street	NJ Release	Case No. 05-02-07-1335-43; Case regarding a UST
3702	265 Fourth Street	265 Fourth Street	SHWS	PI No. 332969; Site ID 259903; Status is listed as "Closed".
	265 Fourth Street	265 Fourth Street	VCP	Incident No. 05-02-07-1335-43; MOA Executed on 2/9/2007.
3703	Church Towers Apartments	5-10-15 Church Towers	Hist SHWS	Case ID 021299; Case Status listed as "Active" as of 3/20/2000; Site with on-site sources of contamination.
	Church Towers Apartments	5-10-15 Church Towers	NJ UST	UST Facility ID 021299; TANK 1 was a 15,000 gallon tank containing #4 heating oil, and was removed as of 1/1/1969; Tank 2 was a 15,000 gallon tank containing #4 heating oil, and was removed as of 1/1/1969.
	Church Towers Apartments	4th Street and Clinton Street	NJ Spills	Case No. 00-03-25-0711-22; Facility ID 58855.
3704	Third Street/ Monroe Street	Third Street and Monroe Street	NJ Spills	Case No. 13-08-07-1049-19; According to EDR, a spill occurred at the intersection on 8/7/2013; Incident Status is reported as "Terminated".
3710	Our Lady of Grace RC Church	400 Willow ave	SHWS	PI No. 022940; Site ID 54100; Listed as Closed.
	Our Lady of Grace RC Church	400 Willow ave	NJ Release	Case No. 08-01-31-1152-08; Incident related to a UST.
	Our Lady of Grace RC Church	400 Willow ave	NJ UST	UST Facility ID 022940; TANK 1 listed as Exempt, and is a 1,000 gallon tank containing #2 heating oil; TANK 2 is listed as Exempt, and is a 2,000 gallon tank containing #2 Heating Oil; Tank 3 is listed as Exempt, and is a 5,000 gallon tank containing #2 heating oil.
3729	Residence at 340.5 Garden Street	340.5 Garden Street	NJ Spills	Case No. 99-12-25-1019-37; Facility ID 55333; caller reported that water was coming into basement from an unknown source and that no clean up was in progress.
3736	Demarest School	Fourth Street & Garden Street	NJ UST	UST Facility 025077; TANK 1 was a 15,000 gallon tank containing #4 heating oil, and was removed as of 7/27/1994.
3737	207 Fourth Street	207 Fourth Street	NJ SHWS	PI No. 420651; Site ID 340262; Status is Closed.
	207 Fourth Street	207 Fourth Street	NJ Release	Case No. 06-08-11-1150-51; Incident related to an UST.
3743	420 Bloomfield Street	420 Bloomfield Street	NJ Release	Case No. 12-01-12-1036-56; Incident realted to an UST.
3745	DeMaries Elementary School	Fourth Street & Garden Street	NJ HIST LUST	Case No. 94-08-05-0936; UST ID 020779; Facility Status listed as "Case Awaiting Assignment".
	DeMaries Elementary School	Fourth Street & Garden Street	NJ Release	Case No. 94-08-05-0936-43; incident related to the relase of #2 heating oil; Caller reported during the removal of a 15,000 gallon UST, soil samples indicated that the soils were contaminated.
3747	Demarest Middle School	156 Fourth Ave (Street?)	NJ Release	Case No. 97-12-12-1249-48; Caller reported that unknown gas in the school caused 24 people to go to the hospital and that the school had to be evacuated.
3749	419 Garden Street	419 Garden Street	NJ SHWS	PI No. 639621; Site ID 508319; Status is listed as Closed.
3749	419 Garden Street	419 Garden Street	NJ Release	Case No. 13-10-16-1711-36; Incident related to an UST.
3751	Saint Francis Church	308 Jefferson Street	SHWS	PI No. 024887; Site ID 55007; Status is currently Closed.
	Saint Francis Church	308 Jefferson Street	NJ HIST LUST	Case No. 99-01-05-1428-53; Facility Status states "Administrative Deficiencies Exist"; UST ID 024887.
	Saint Francis Church	308 Jefferson Street	NJ UST	UST Facility 024887; TANK 1 was a 2,000 gallon tank containg #2 heating oil, and was abandoned in place as of 1/12/1999; TANK 2 was a 3,000 gallon tank containing #2 heating oil and was removed as of 1/12/1999.
	Saint Francis Church	308 Jefferson Street	NJ Spills	Case No. 99-01-05-1428-53; Facility ID 37003; according to caller, soil contamination was discovered during the removal of one (1) 1,500 gallon UST.
	Saint Francis Church	308 Jefferson Street	NJ Spills	Case No. 98-09-16-1347-21; Facility ID 31756; According to caller, one (1) 2,000 gallon UST was found to be leaking.

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SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
3760	Worldwide Finishing Inc	328 Jefferson Street	NJ SHWS	PI No. G000005865; Site ID 63948; site is listed as Active
	Worldwide Finishing Inc	328 Jefferson Street	NJ HIST SHWS	Case ID G000005865; Case Status listed as Active; Site is listed as a "Site with on-site sources of contamination".
	Worldwide Finishing Inc	328 Jefferson Street	NJ Institutional Control	Facility ID 63948; PI No. G000005865; date established 5/24/2011; CEA present on site due to arsenic and lead with an approximate duration of ~999 years.
	Worldwide Finishing Inc	328 Jefferson Street	Brownfields	Site ID 3793; site was assigned to program on 6/17/1996; C1-no formal design-source known or identified- potential Groundwater contamination established 8/2/1993.
3770	1 Marine View Plaza	1 Marine View Plaza, Hoboken City, NJ	NJ Release	Case No. 02-03-24-1230-29; citizen complaint, unknown warehouse.
3772	Regulator Site	4th & River, Hoboken	NJ Release	96-7-12-1044-12, Maintenance on Regulator #4; 96-7-11-1549-57, sewage bypass due to sea wall falling off.
3778	St. Peter & Paul Church	404 Hudson St. Hoboken	NJ HIST LUST	UST ID 0204464; Site issued NFA letter for REC(s) on 3/5/97.
	418 Hudson Street	418 Hudson St., Hoboken	NJ SHWS	SHWS status is Closed, No Date provided, PI No. 603281.
	418 Hudson Street	418 Hudson St., Hoboken	NJ Release	Case No. 12-09-28-1027-06, Residential UST, Status: Terminated; Incident source located in Newton, NJ. Mapped Wrong.
3781	Clock Tower Apartments	300 Adam Street	NJ UST	UST Facility 017457; TANK 1 was a 10,000 gallon tank containing #2 Heating Oil, and was removed as of 1/1/1978.
3782	Building at 107 4th Street	107 Fourth Street	NJ Spills	Case No. 89-12-01-1746; Facility ID 13667; Caller reported an incident related to white asbestos.
3786	410 Washington Street	410 Washington Street	NJ UST	UST Facility ID 021863; TANK 1 was a 4,000 gallon tank containing #2 Heating oil and was removed as of 1/1/1969.
3795	Marine View Plaza Bldgs 1 + 2	River Road, Hoboken	NJ Release	Case No. 00-08-01-1456-05; Status at Spill: info redacted due to data corruption causing status reporting errors; Resp. Party - Riverfront Construction.
3798	Grand Adams Apartments	300 Grand Street	SHWS	PI No. G000023125; Site ID 64720; Site is listed as Active.
	Grand Adams Apartments	300 Grand Street	HIST SHWS	PI No. G000023125 Case Status is listed as Active.
	Grand Adams Apartments	300 Grand Street	NJ Engineering Controls	PI No. G000023125; Site ID 64720; Deed notice comprises of an asphalt cap, concrete cap, and impermeable cover due to benzene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)floranthene, indeno(1,2,3-cd)pyrene.
3803	Grand Adams Apartments	300 Grand Street	NJ Release	Case No. 94-02-04-1249-02; Caller reported that soil samples taken in area of former UST showed contamination, and that samples will be sent to lab.
3805	Grand Adams Apartments	300 Grand Street	Brownfields	Site ID 6794; PI No. G000023125; Assigned to Program 4/5/1995, C-2 Formal Design-Known source or release with GW contamination established 1/2/1998.
3807	Facendola Fuel Co	324 Grand Street	NJ HIST LUST	Case No. 96-01-02-1048-15; Site issued NFA; UST ID 0310952; TANK 1 was a 4,000 gallon tank containing light diesel fuel (No. 1-D), and was removed as of 12/28/1995; Tank 2 was a 1,000 gallon tank containing kerosene (No. 1) and was removed as of 12/28/1995; Tank 4 was a 550 gallon tank containing unleaded gasoline, and was removed as of 6/6/1996.
	Facendola Fuel Co	324 Grand Street	SHWS	PI No. 031095; Site ID 56428; Status is listed as Closed.
	Facendola Fuel Co	324 Grand Street	HIST SHWS	Case ID 031095; NFA-A (Limited Restricted Use) as of 9/25/2001.
	Facendola Fuel Co	324 Grand Street	NJ Institutional Control	Facility ID 56428; Date established 9/20/2001; Date lifted 12/01/2009; PI No. 031095; CEA due to benzene, with a duration of 7 years. CEA Case Track No. 29873.
	Facendola Fuel Co	324 Grand Street	VCP	Incident No. not reported; MOA Executed on 11/28/2006.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	Facendola Fuel Co	324 Grand Street	Brownfields	Site No. 6786; PI No. 031095; Assigned to program on 10/13/2006; C2 Formal Design-known source or relase with GW contamination established 11/9/1998.
3903	213 Madison Street	213 Madison Street	NJ Release	Case No. 12-11-12-1541-19; incident related to sewage on site.
3905	Apartment Complex	224 Madison Street	NJ Release	Case No. 92-10-30-1621-38; Incident related with propane and helium tanks. Caller reported that Hoboken technicans were on scene removing reported abandoned tanks for disposal. No release was reported by the caller.
3907	Building at 231 Madison Street	231 Madison Street	NJ Spills	Case No. 99-08-04-1356-39; Facility ID 47469; Caller reported that holes were observed in a 500-gallon UST when the tank was being drained. According to the caller, the tank was scheduled for removal.
3909	233 Madison Street	233 Madison Street	VCP	Incident No. 99-08-04-1356-39; MOA executed on 02/09/2000.
4013	Hoboken City Waterfront Development	3rd St & River St. Hoboken	NJ SHWS	Status: Closed; PI No. G000028159.
	Hoboken City Waterfront Development	3rd St & River St. Hoboken	NJ ENG Controls	Deed Notice, Restricted; Concrete Cap - Metals & PAHs.
	Hoboken City Waterfront Development	3rd St & River St. Hoboken	NJ Inst Control	CEA Cast Track # 62092, established 2/6/13.
	Hoboken City Waterfront Development	3rd St & River St. Hoboken	NJ Brownfields	Site No. 6795; Ownership - DEP Case.
4027	NJ Transit Area 6	River Street/3rd St., Hoboken	NJ Release	Case No. 94-1-12-1300-53, Soil contamination, substance not identified, heavy metals/hydrocarbons deposited on site. Historical case.

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PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
4029	Hoboken City Waterfront Development	River & 3rd Sts, Hoboken	NJ Hist HWS	Case Status Active.
	Hoboken City Waterfront Development	River & 3rd Sts, Hoboken	NJ Brownfields	Site No. 346.
4032	Hoboken Piers Headhouse	325 River St., Hoboken	NJ SHWS	Site ID 46064 Status: Closed, PI No. 017665.
	Hoboken Piers Headhouse	325 River St., Hoboken	HIST SHWS	Status: Active, Case ID 017665, CEA Ongoing 7/19/95.
	Hoboken Piers Headhouse	325 River St., Hoboken	NJ ENG Controls	PI No. 017665, PA of NY/NJ, Restricted.
	Hoboken Piers Headhouse	325 River St., Hoboken	NJ Inst Control	Facility ID 46064, Date Closed/lifted, 9/5/12; CEA Case Track # 19392; PAHs and Lead.
	Hoboken Piers Headhouse	325 River St., Hoboken	NJ Brownfields	No useful info provided.
4043	Abandoned Chevron	325 River Str., Hoboken	NJ Hist LUST	Case ID 90-04-05-1227; UST ID 017665, Site has confirmed Soil/GW contamination; site issued NFA letter 7/19/95.
4044	Hoboken Piers Headhouse	325 River Str., Hoboken	NJ SPILLS	Case ID 93-10-13-1101-14, petroleum spill, historical discharges, possible GW Contamination.
4046	Hoboken Piers Headhouse	325 River Str., Hoboken	NJ Release	Case ID 94-6-14-1517-48; Site under MOA.
4048	Chevron Service Station	325 River Str., Hoboken	NJ Release	Case ID 90-04-05-1227; Gasoline, LUST Soil Contamination, See listing 3 above, pg 4043; NFA letter.
4055	333 River Street	333 River Str., Hoboken	NJ Release	Case ID 05-08-09-1501-12; Smoke/dust, Residence, unknown source.
4057	Near Construction Site	333 River Str., Hoboken	NJ Release	Case ID 01-10-02-0955-54; contractor struck 6" pressure main, street closed off.
4196	Sterline Hand Laundry	282 Hudson Blvd, Jersey city	EDR US Hist Cleaners	Dated Year 1926.
4200	Island Manufacturing	92 Madison Street	NJ Spills	Case No. 94-01-28-1509-13; Facility ID 1395; caller reported that snow plow snapped off old oil tank. Oil was disbursed on to the ground and storm drains, and that it was cleaned up by Ken's Marine.
4202	In Front of 92 Madison Street	92 Madison Street	NJ Spills	Case No. 94-01-28-1038-50; Facility ID 1296; caller reported that snow plow unearthed UST causing spill; material did enter storm drain and that Haz-Mat is handling clean up. Caller estimated 20 gallons of #2 oil fuel.
4204	420 Bloomfield Street	420 Bloomfield Street	NJ SHWS	PI No. 573128; Site ID 159427; Status is listed as Closed.
	420 Bloomfield Street	420 Bloomfield Street	NJ Release	Case No. 10-01-12-0850-20; an incident occurred with a construction site for day-care center.
4206	559 First Street	559 First Street	NJ Release	Case No. 11-10-10-1129-48; case related to a UST.
4210	Area of 109 Madison Ave	109 Madison Avenue	NJ Release	Case No. 93-09-29-1453-57; caller complained about material blowing around due to sandblasting on building.
4212	118 Madison Street	118 Madison Street	NJ Release	Case No. 14-09-29-1127-54; Case related to a UST.
4214	127 Madison Street	127 Madison Street	NJ Release	Case No. 12-11-05-1234-00; the caller reported odors in the area of 127 Madison Street.
4221	In Area of 76 Jefferson Ave	76 Jefferson Ave (Street?)	NJ Release	Case No. 94-05-20-1554-49; Caller reported spilled petroleum hydrocarbons. The status at spill is listed as "conducting Phase I Environmental Audit".
	65 Jefferson Street	65 Jefferson Street	NJ Release	Case No. 13-01-21-1024-22; caller reported soil contamination in the rear of the property.
4225	67 Jefferson Street	67 Jefferson Street	NJ Release	Case No. 12-11-03-1524-41; caller complained about smoke/dust.
4226	16 Jackson Street	16 Jackson Street	NJ Release	Case No. 02-10-18-1139-18; according to caller, the soil is contaminated.
4227	Empty Lot at 72-74 Jefferson Street	72-74 Jefferson Street	NJ Release	Case No. 97-01-03-1025-31; caller complained about soil contamination on site. The caller stated that mounds of soil that the caller believed to be contaminated were not covered and were not being moved.
4229	In Area of 72 Jefferseon Street	72 Jefferson Street	NJ Release	Case No. 94-05-20-1556-44; caller complained about petroleum hydrocarbons; status at spill is listed as "Conducting Phase I Environmental Audit".
4231	Vacant Lot	73 Jefferson Street	NJ Release	Case No. 92-11-30-1548-23; caller complained about abandoned drums on the site; the caller said that the site had several containers & abondoned vehicles.
4233	In Area of 74 Jefferson Street	74 Jefferson Street	NJ Release	Case No. 94-05-20-1555-55; caller complained about petroleum hydrocarbons and soil contamination; the status at spill is listed as "Conducting Phase I Environmental Audit".
4235	72 to 84 Jefferson Street	72-84 Jefferson Street	NJ SHWS	PI No. G000029545; Site ID 65453; Status is listed as Active.
	72 to 84 Jefferson Street	72-84 Jefferson Street	NJ Institutional Control	PI No. G000029545; Site ID 65453; CEA due to maleic anhydride; CEA Case Track No. 63327.
	72 to 84 Jefferson Street	72-84 Jefferson Street	Brownfields	Site No. 6796; Has Remedial Investigation and Remedial Action Workplan; Completed-Entire Site limited Restricted Use as of 2/11/1998, C2 Formal Design- known source or release with GW contamination established 2/11/1998, and instutitional controls exists requiring biennial certification.
4238	72 to 84 Jefferson Street	72-84 Jefferson Street	NJ Release	Case No. 96-08-23-1510-40; status at spill listed as "Site of MOA".

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
4240	Empty Lot	79-77 Jefferson Street	NJ Release	Case No. 97-01-03-1028-54; caller stated that mounds of soil that the caller believes were contaminated were uncovered and not being removed.
4243	Apartment Building	112 Jefferson Street	NJ Release	Case No. 94-01-20-1226-43; Caller stated that some liquid material was discharged into the street and into the storm sewer.
4246	Boys & Girls Club of Hudson County- Hoboken	123 Jefferson Street	NJ HIST LUST	Case No. 00-02-24-1310-28; UST ID 0225830; Site issued NFA.
	Boys & Girls Club of Hudson County- Hoboken	123 Jefferson Street	NJ Spills	Case No. 00-02-24-1310-28; Facility ID 57544; Status of Spill listed as Information redacted due to data corruption causing status reporting errors.
4248	Boys & Girls Club of Hoboken	123 Jefferson Street	SHWS	PI No. 022583; Site ID 53905; Status is closed; TANK 1 was a 4,000 gallon tank, contained #2 Heating oil, and was removed as of 9/1/2001; TANK-27306 was a 3,000 gallon tank, contained #4 heating oil, and was removed as of 10/15/2013.
4249	122 Jefferson Street	122 Jefferson Street	NJ Release	Case No. 12-11-07-1437-23; caller complained about soil contamination on site.
4252	130 Jefferson Street	130 Jefferson Street	NJ Spills	Case No. 12-11-02-1745-26; Facility ID 446805.
4254	130 Jefferson Street	130 Jefferson Street	NJ Release	Case No. 12-11-02-1732-11; caller reported odors present on site.
4256	130 Jefferson Street	130 Jefferson Street	NJ Spills	Case No. 12-11-05-1227-20; Facility ID 447073; Citizen complaint in the area of 130 Jefferson.
4258	Service Auto Repair Shop	217 Hudson Blvd, Jersey City	EDR US Hist Auto Stat	Dated 1926.
	Service Auto Repair Shop	217 Hudson Blvd, Jersey City	EDR US Hist Auto Stat	Dated 1923.
4261	235 Hudson St	235 Hudson St., Hoboken	EDR US Hist Cleaners	Latest date 2012.
4301	Ponte Office Building AKA BLOCK 10	111 Paterson Ave, Hoboken (AKA 119 Paterson Ave)	NJ UST	UST Facility 021980: Tank 1 is a 4,000-gallon light diesel fuel oil that was removed as of 3/1/92. Tank 2 isa 4,000-gallon light diesel fuel with a status of other. Tank 3 is a 4,000-gallon leaded gasoline tank that was removed as of 6/13/91. Tank 4 is a 4,000-gallon leaded gasoline tank that was removed as of 6/13/91. Tank 5 is a 4,000-gallon leaded gasoline tank that was removed as of 6/13/91. Tank 6 is a 4,000-gallon leaded gasoline tank that was removed as of 6/13/91. Unrestricted NFA for the 4 tanks removed in 1991.
	Ponte Office Building AKA BLOCK 10	111 Paterson Ave, Hoboken (AKA 119 Paterson Ave)	NJ Release	Case No. 92-3-23-1101-47; two remaining tanks in process of removal; listed as LUST.
4305	Pole Mounted Tranformer		NJ Spills	Case No. 97-8-12-1841-34; transformer spill os 30-35 gallons. Non-pcb. Status is terminated.
4308	Former Clipper Trucking		NJ SHWS	Site ID 53619; PI No. 021980. Status is closed.
4314	Property	57 Park Ave	NJ Release	Case No. 97-6-14-0222-16; Status at spill is currently "MOA Application".
4317	57 Park Avenue	57 Park Avenue	NJ VCP	Incident Number 97-06-14-0222-16; MOA executed on 7/9/1997.
	68 Park Avenue	68 Park Avenue	SHWS	PI Number 512516; Site ID 409408; Closed Status.
4320	68 Park Avenue	68 Park Avenue	NJ Release	Case No. 11-10-07-1128-00; Air release of substance.
4322	Residence	70 Park Ave	NJ Release	Case No. 90-09-26-1136; caller complained about odors in the area.
4325	Area of Newark/Garden & Park	Newark, Garden, and Park	NJ Spills	Case No. 99-03-26-0849-10; Facility ID 40634; caller complained about oil on construction property coming from a UST.
4329	Corner of Park Ave/ Newark Street	Park Ave and Newark Street	NJ Release	Case No. 99-03-01-0716-35; caller stated that contractors were pumping water from the site into storm drains.
4331	Napa Auto Store	80-86 Willow Ave	NJ Spills	Case No. 00-06-29-1520-48; Facility ID 63828; Information REDACTED due to data corruption causing status reporting.
4334	258 Newark Street	258 Newark Street	NJ Release	Case No. 06-05-08-1202-37; case associated with a UST.
4336	258 Newark Street	258 Newark Street	NJ Release	PI Number 290090; Site ID 222122; Status of case is Closed.
	258 Newark Street	258 Newark Street	VCP	Incident Number 06-05-08-1202-37; MOA executed on 6/12/2006.
4337	260 Newark Street	260 Newark Street	NJ Release	Case No. 05-05-17-1738-18; Soil contamination on former gas station.
4340	301 Newark Street	301 Newark Street	Hist SHWS	PI No. G000061038; Case status is Active as of 8/3/2004; Listed as a site with on-site sources of contamination.
	301 Newark Street	301 Newark Street	NJ Spills	Case No. 00-11-10-1340-33; Facility ID 70662; EDR states that information was redacted due to data corruption causing status reporting.
	301 Newark Street	301 Newark Street	Brownfields	Site No. 6814; PI No. G000061038; Assigned to program on 8/3/2004, C2: Formal Design- known source or release with Groundwater contamination established 8/12/2004.
4345	Corner of 8th & Monroe	8th Street and Monroe Street	NJ Spills	Case No. 89-12-01-1009; Facility ID 13635; Caller reported an incident related with oil.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
4347	300 Newark Street	300 Newark Street	NJ Release	Case No. 09-12-19-1310-17; Citizen complaint call.
4349	Newark Street & Wllow Avenue	Newark Street & Willo Avenue	NJ Release	Case No. 08-06-17-1003-59; Caller reported something with the sewers.
4353	Jefferson Trust Co Building	300 Newark Street	NJ Release	Case No. 97-10-02-1423-55; Caller reported some gas odor, specifically, chlorine odors in the area were reported.
4355	Area of 91 Park Ave	91 Park Avenue	NJ Release	Case No. 90-10-10-2019; Caller complained about gas odors.
4357	In Area of 91 Park Ave	91 Park Avenue	NJ Release	Case No. 96-05-25-1705-03; Caller complained about burning garbage odors in the area.
4361	Catch Basin And/Or Drainage	First Street and Park Street	NJ Release	Case No. 88-07-23-1851; Caller complained about raw sewage with odors.
4364	In Area of 254 First Street	254 First Street	NJ Release	Case No. 97-06-23-1109-20; caller complained about styrofoam-like dust particles coming from a construction site.
4367	In Area of 262 First Street #4	262 First Street	NJ Release	Case No. 89-08-10-2239; Caller complained about gas odors in the area.
4371	303 First Street	303 First Street	NJ Release	Case No. 10-08-03-0839-56; Caller complained about smoke/dust in the building.
4373	303 First Street	303 First Street	NJ Release	Case No. 10-08-02-0906-42; Caller complained about smoke/dust in the area.
4375	303 1st Street	303 First Street	NJ Release	Case No. 02-11-20-1004-18; Caller complained about the improper disposal/storage at Full House Printing.
4377	Area of 300 1st Street	300 First Street	NJ Release	Case No. 96-07-31-1418-01; Caller complained about odors in the area at all times.
4379	My Favorite Cleaners	300 First Street	NJ Spills	Case No. 91-04-30-1754-20; caller compalined that carboy containing perchloroethylene was opened. The material was soaked up and put back into a cleaning machine.
4384	DY Willow Cleaners	300 First Street	NJ Release	Case No. 97-10-15-1822-24; caller complained that the RP placed one (1) 55-gallon drum labeled toxic for normal trash pickup.
	DY Willow Cleaners	300 First Street	NJ Spills	Case No. 97-11-04-1117-10; caller complained that the cleanered spilled percloroethylene from an unknown source. The cleaner was evacuated.
	DY Willow Cleaners	300 First Street	VCP	Incident No. 94-05-20-1803-02M; MOA Executed on 1/10/1996; Type of VCP File is listed as "Historical".
	DY Willow Cleaners	300 First Street	NJ Release	Case No. 94-05-20-1803-20; Incident Description is listed as "MOA".
	DY Willow Cleaners	300 First Street	NJ Release	Case No. 96-02-02-1354-28; Status at spill is listed as "MOA APPLICATION".
4391	On Waterfront	2nd Ave and The River, Hoboken	NJ Release	Case ID 01-04-08-1211-54; paint cans & debris washing onto shore, ACE overseeing project; citizen notified.
4405	Eastview Apts Assoc	70 Washington Street	NJ UST	UST Facility ID 017473; TANK-1 was a 4,000 gallon UST containing #2 heating oil, and was removed as of 1/1/1983.
4410	APT Building	81-91 Washington Street	NJ RELEASE	Case No. 95-06-30-1624-53; Caller reported spill due to hole in one (1) 1,000-gallon UST. Spillage to a concrete vault only, no tank removal but cleanup by company.
4414	City Hall Dry Cleaners	152 Newark Street	NJ Spills	Case No. 94-12-05-1125-00; Caller reported that "spill due to poss overfill or blockage, clean up being done".
4418	Hoboken City Hall	94 Washington Street	NJ Release	Case No. 01-12-27-1317-15; Caller reported that "Package discharged vapors causing evacuation of 3rd floor. Unknown persons taken to local hospital. Assistance requested per G. Garetano of Hudson Reg Health Co".
4420	Intersection of 1st and Hudson Hoboken	1st and Hudson	NJ Spills	Case No. 98-08-12-1759-48; Caller reported that "Sewer is backed up and overflowing from the storm drain. Ongoing for Past 2 Weeks. City Doing Nothing to Solve Problem".
4422	City Hall	94 Washington Street	NJ LUST	Case ID 33144, Activity No. LSR120001; UST Facility ID 033144; Tank-1 was a 5,000 gallon #4 heating oil tank that was removed as of 6/3/2002.
	City Hall	94 Washington Street	NJ UST	
	City Hall	94 Washington Street	Brownfields	Site No. 6777; Assigned to program on 12/19/2002; not yet determined established .
4426	Hoboken City Hall	94 Washington Street	NJ Release	Case No. 89-10-25-1619; case related to a #4 oil fuel tank.
	Hoboken City Hall	94 Washington Street	NJ RELEASE	Case No. 95-01-02-1015-00; Caller reported "6 to 7 Bags of asbestos at sidewalk on Newark Street Side".
4431	Commercial Building	99 Washington Street	NJ Release	Case No. 95-09-28-1237-57; Caller reported "Dust coming from construction work on building blowing in area".
4433	Port Authority Pump House, Jers	First and Washington	NJ Release	Case No. 94-03-17-1325-59; Caller reported that unknown drums at the location are leaking.
4435	Municipal Building	106 Hudson Street	NJ Release	Case No. 92-02-23-1354-00; Caller reported a fire in the electric room.
4437	99 Washington Street	99 Washington Street	NJ SHWS	Site ID 536483; Status is listed as "Closed"; PI No. 673296.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	99 Washington Street	99 Washington Street	NJ RELEASE	Case No. 13-07-24-1447-50; Case related to an UST.
4439	In area of 99 Washington Street	99 Washington Street	NJ Release	Case No. 95-09-28-1359-00; Caller reported about dust from construction work and demolition bothering neighbors.
4443	101 105 Washington Street	101 105 Washington Street	NJ UST	UST Facility ID 511584; Tank 1 was a 550 gallon #2 heating oil tank, and was removed as of 1/27/2010; Tank 2 was a 3,500 gallon UST that contained No. 2 heating oil, and was removed as of 4/20/2010.
4444	101 Washington Street	101 Washington Street	NJ SHWS	Site ID 194794; PI No. 511584; Status listed as "Closed".
	101 Washington Street	101 Washington Street	NJ Release	Case No. 09-04-27-1615-01; Caller reported contaminated soil.
	101 Washington Street	101 Washington Street	NJ Release	Case No. 12-02-22-0006-20.
4451	94 Garden Street	94 Garden Street	NJ SHWS	Site ID 65509; PI No. G000030068; Status is listed as "Closed".
4452	94 Garden Street	94 Garden Street	NJ Release	Case No. 96-10-25-1510-21; Caller reported the removal of one (1) 550 gallon #2 oil UST, cleanup in progress.
	94 Garden Street	94 Garden Street	NJ VCP	VCP Incident No. 96-10-25-1510-21; MOA executed on 6/30/1997.
4454	102 Bloomfield Avenue	102 Bloomfield Avenue	NJ RELEASE	Case No. 10-09-21-1405-42; Caller reported the improper disposal/storage of some content.
4457	Resident Laplaglia Salvador	160 1st Street	NJ Spills	Case No. 01-11-14-1512-40; Caller reported a leaking 1,500 gallon UST, samples have been collected.
4459	Residence	160 First Street	NJ Spills	Case No. 01-07-24-0952-33; Facility ID 82111; Caller reported that one (1) 1,500 gallon UST failed a test, that the tank was being emptied, and was scheduled for removal.
4461	120 Peter St LLC	140 Hudson Street	NJ UST	UST facility ID 032792; Tank 1 was a 4,000 gallon leaded gasoline tank that was removed as of 12/10/1998.
4462	Shirt Shack	123 Washington Ave	NJ Release	Case No. 90-10-04-1018; Caller reported a spill of unknown liquid/illegal dumping.
4464	100 Garden Street	100 Garden Street	NJ Release	Case No. 06-10-25-1759-24; Caller reported the improper disposal/storage of some content.
4467	Condo Complex	208 First Street	NJ Spills	Case No. 00-12-10-1402-49; Facility ID 71874; Caller reported power failure knocked out disinfection unit, causing a release.
4469	At Condo Building	208 First Street	NJ Release	Case No. 00-12-09-1812-38; Caller reported a large bear in the neighborhood.
4474	In the area of 129 Washington S	129 Washington Street	NJ Spills	Case No. 98-03-27-1051-30; Caller reported styrofoam like material covering parking lot and cars.
4476	Northvale III	130-1312 Bloomfield Street	NJ Spills	Case No. 99-02-04-1017-31; Caller reported one (1) 3,000 gallon UST abandoned in place, and soil contamination was found, cleaniup in progress *at the time.
4482	Hobenken M U Shed	689 Henderson Street, Jersey City	NJ Spills	Case No. 86-11-20-0731; caller reported a spill of estimate 3 gallons (heating oil).
	Hobenken M U Shed	689 Henderson Street, Jersey City		
4484	North Hudson Sewerage Authority Outfall	686 Marin Boulevard, Jersey City	RCRA-LQG	Listed for lead; no violations found.
4487	Conrail Corp Henderson Yard	688 Luis Munoz Marin Boulevard, Jersey City	SHWS	Active case; PI #G000005103; Site ID 66362.
4490	Inc of Jersey Ave	Jersey Ave & 16 Hoboken Ave	NJ Release	Case No. 93-12-24-1318-05; according to caller, a 6 x 150 ft area off the side of the road was covered with unidentifiable liquid and soil material. Wilted vegetation was observed.
4496	Roadway	Newark & Harrison Street	NJ Spills	Case No. 91-6-12-0022-59; Facility ID 8415; according to the caller, approximately 500 gallons of gasoline was leaking from an UST and has entered the sanitary sewer.
4498	On Roadway	Newark & Harrison Street	NJ Spills	Case No. 93-7-12-1455-04; Facility ID 11652; according to the caller, an estimate of 2 gallons of diesel fuel was found on the roadway, and cleanup has been done.
4503	In Front of 660 Newark Street	660 Newark Street	NJ Spills	Case No. 98-04-23-1708-03; Factility ID 23503; according to the caller, latex paint with oil and water mixture fell off a truck.
4505	Commercial Building	615 Newark Street	NJ Release	Case No. 94-5-31-1257-07; according to caller, citizen reported strong chemical typ odors coming from the site.
4507	Windsor Wax Incorporated	611 Newark Street	Brownfields	Site #6797; remediation in progress; assigned to program on 1/17/1997 and consists of single phase RA- single contamination affecting only soils established on 1/31/1997.
4509	Hoboken Rail Yard	369 Observer Highway	NJ Spills	Case No. 02-02-08-2003-18; Facility ID 91216.
	Behind Windsor Wax Co	603 Newark Street	NJ Release	Case No. 95-1-25-0202-00; during a burglary investigation, police officeres discovered ten (1) 55-gallon drums marked radioactive waste behind the facility.
4513	Eden Baskets	601 Newark Street	NJ Release	Case No. 96-7-26-1227-05; one (1) 1,000 gallon tank was removed along with soil.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	In Street	Newark & Jackson	NJ Spills	Case No. 89-07-05-2144; Facility ID 7370; according to caller, an estimated 200 gallons of oil waste was discovered in the street.
	Liberty Harbor North Redevelopment, AKA Victoria Views	Luis Munoz Marin Boulevard	VCP	Incident No. 97-01-31-0118-54; MOA execution date of 11/18/2004.
4520	NJ Transit	682 Henderson Street	NJ Spills	Case No. 93-4-13-1359-39; Facility ID 5914; estimated 25 gallons of oil lube was spilled due to overflow from truck; NJ Transit doing cleanup.
4524	Windsor Wax Inc	611 Newark Street	NJ Release	Case No. 96-11-11-123-32; according to caller, #2 heating oil is leaking from a UST on the site, caller also states that the whole property is contaminated. Caller says the leak has been going on for at least 30 years.
4528	Auto Motive Company at 571 Newark Street	571 Newark Street	NJ Release	Case No. 96-10-25-0930-30; according to the caller, material was found coming out of a pipe on building running on to the ground; the substance was believed to be antifreeze/oil like substance.
4532	Parking Lot	551 Newark Street	NJ Release	Case No. 90-12-06-1556; according to caller, a gasoline spill was discovered.
4535	Hoboken Yard Tract T NJT	Observer Highway and Henderson Street	NJ Spills	Case No. 00-10-20-1753-20; Facility ID 69684; EDR states that information has been redacted due to data corruption, causing status reporting errors.
4537	Henderson ST & Observer Highway	Henderson Street & Observer Highway	NJ Spills	Case No. 04-07-03-1224-02; Facility ID 103590; incident occurred at Hoboken train yard.
4539	Path Terminal	Observer Highway	NJ Release	Case No. 01-09-20-2246-34; according to the caller, unknown gas released on train and five (5) people were injured.
4541	Hoboken Rail Yard	Near Henderson Street	NJ Spills	Case No. 94-3-2-1155-03; Facility ID 3336; A spill occurred on gravel and earth from a coach car transformer. The spill was identified as oil transformer non-PCB.
4543	NJ Transit Property Dock	Newark Street	NJ Spills	Case No. 93-4-6-0825-46; Facility ID 5446; A spill was caused by a sunken vessel. Diesel fuel was discharged and sheen was observed on the water.
4545	Area of Observer Highway & Newark	Observer Highway & Newark	NJ Spills	Case No. 92-7-15-2136-46; Facility ID 11488; A spill of oil like substance (approximately 2,000 gallons) was discovered above the roadway. Caller believed there was a potential impact on the Hudson River.
4547	NJ Transit Hoboken Rail Yard	Henderson Street & Observer Highway	NJ Spills	Case No. 93-6-19-1630-43; Facility ID 10266; Oil waste was released from a box culvert and product entered the storm drain.
4550	43 Madison Street	43 Madison Street	NJ Release	Case No. 02-11-15-1019-26; Incident occurred at the Firehouse Truck #2 with an UST.
4552	Unk Gas Station	460 Newark Street	NJ Spills	Case No. 97-04-08-1524-53; Facility ID 4328; a spill MAY have occurred at unknown gas station, and gasoline is in sewer system.
4554	Jefferson Street	Jefferson Street	NJ Spills	Case No. 12-11-02-2110-52; Facility 446835.
4557	Amoco Station	425 Newark Ave	NJ Spills	Case No. 00-05-02-1001-52; Facility ID 60565; Information REDACTED due to data corruption causing status reporting errors.
	Amoco Station	425 Newark Ave	NJ Release	Case No. 98-09-22-0716-03; according to the caller, RP was dumping waste water mixed withgasoline into waste oil tank.
4561	Hoboken Service Center Inc	425 Newark Street	SHWS	Site ID 7558; PI Number 032860.
	Hoboken Service Center Inc	425 Newark Street	HIST SHWS	Case ID 032860; Active Case; Site with on-site source of contamination.
	Hoboken Service Center Inc	425 Newark Street	LUST	Case ID 32860, Activity Number LSR120001.
	Hoboken Service Center Inc	425 Newark Street	LUST HIST	Case ID 00-05-02-1001-52; UST ID 0328601; Site has confirmed soil and ground wate contamination; Tank 1 was a 5,000 tank that contained unleaded gasoline and was removed as of 04/12/2000; Tank 2 was a 5,000 unleaded gasoline tank that was removed as of 4/12/2000; Tank 3 was a 5,000 gallon tank that contained unleaded gasoline and was removed as of 4/12/2000; Tank 4 was a 4,000 gallon tank that contained medium diesel fuel (No.2-D) and was removed as of 4/12/2000; Tank 5 was a 550 gallon waste oil tank, and was removed as of 4/12/2000; tank 7 is a 12,000 gallon tank containing unleaded gasoline and is currently in-use as of 4/20/2000; Tank 8 is a 10,000 gallon tank containing unleaded gasoline that is currently in-use as of 4/20/2000.
4569	415 Newark Street 3E	415 Newark Street 3E	NJ Release	Case No. 03-12-04-1527-29; Soil contamination found on-site.
4571	551 Observer Highway APT 14C	551 Observer Highway	NJ Release	Case No. 05-07-18-1718-1; odors were reported by caller.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	Firehouse Truck 2	Observer Highway (55 Madison)	NJ UST	UST Facility ID 033146; Tank 2 was a 2,000 gallon tank containing Light Diesel Fuel (No. 1-D) and was removed as of 11/01/2002; Tank 3 was a 2,000 gallon tank containing #2 heating oil and was removed as of 11/01/2002.
4575	Knighs of Columbus #159	65-69 Madison Street	NJ Release	Case No. 94-6-10-1458-26; according to EDR, status is listed as "SITE UNDER MOA".
4579	In the Area of 73 Madison Street	73 Madison Street	NJ Release	Case No. 95-11-24-0848-08; caller complained about chemical type odors in the area from an unknown source.
4581	72 Madison Street	72 Madison Street	NJ Release	Case No. 13-08-16-0941-46; UST.
	72 Madison Street	72 Madison Street	NJ Spills	Case No. 11-08-29-1820-41; Facility ID 400267.
4583	74 Madison Street	74 Madison Street	SHWS	PI Number 590660; Site ID 468120; Closed case.
	74 Madison Street		NJ Release	Case No. 11-06-07-1206-44; Spill from UST.
4587	79 Madison Street	79 Madison Street	NJ Release	Case No. 11-12-22-1233-27; caller calling about UST.
4603	50-58 Marshall Street	50-58 Marshall Street	NJ Release	Case No. 06-08-31-0914-38; caller reported improper disposal of materials.
4605	Hoboken Land Building Corporation	Newark Str, Hoboken	NJ HIST HWS	Status: Active, 12/10/02.
4606	1 Newark Street	1 Newark Str., Hoboken	NJ Release	Case ID 02-10-10-1738-26; case status: Terminated.
4608	Hoboken Land Building Corporation	1 Newark Str., Hoboken	NJ SHWS	Status: Closed, Site ID 129009.
	Hoboken Land Building Corporation	1 Newark Str., Hoboken	NJ Brownfields	Known Source or release with Groundawter contamination.
4611	Hoboken Land Building	1 Newark Street, Hoboken	NJ SPILLS	Case No: 91-10-31-1717-47; fuel oil, tides flooded basement, carried oil across NY state line to Ellis Island.
	Hoboken Land Building	1 Newark Street, Hoboken	VCP	Incident No. 02-10-10-1738-26; MOA execution date 12/10/02, Type of VCP file: Historical.
4616	US Postal Service	89 River Street	NJ UST	UST Facility ID 018409; TANK 1 was a 6,000 gallon No. 2 heating oil UST that was removed as of 5/1/1990.
4619	Pier A Park	First St/River St., Hobken	NJ Release	Case No. 01-08-08-1014-35; Red floating material on surface. Citizen reported, construction nearby.
4621	Into Water at 1st & River St	1st & River St., Hoboken	NJ Release	Case No. 97-11-15-2112-09; unknown solid, illegal dumping to river, Police/fire involved.
4626	122 River Str., Jersey City	Outside Study area		Outside Study area.
4632	Open Lot	Across from 49 Harrison Street, Hoboken	NJ Release	Case No. 90-02-15-1318; Caller reported illegal garbage/trash.
	Open Lot	Across from 49 Harrison Street, Hoboken	NJ Release	Case No. 98-05-27-1720-06; phosphuric acid spill from derailed train tanker car.
	Open Lot	Across from 49 Harrison Street, Hoboken	NJ Release	Case No. 89-03-02-1510; citizen complaint of illegal dumping of solid waste.
4661	St Paul's Cabinetry Corp	38 to 40 State Highway	NJ UST	UST Facility ID 016883; TANK 1 was a 5,000 gallon No.2 heating oil tank that was removed as of 1/1/1951.
4662	Hoboken Rail Yard	1 Observed Highway	NJ SPILLS	Case No. 01-07-23-1443-15 - Offloading dirty water into sump which overflowed. Cleanup reprotedly being done.
	Hoboken Rail Yard	1 Observed Highway	NJ Release	Case No. 01-07-25-1431-58 - 200 Foot Sheen on Water. Cleanup reportedly underway.
4665	Observer Highway	Hoboken Rail Yard	NJ Release	Case No. 09-11-17-0946-06 & 13-03-26-1019-55 reported as citizen complaints. No other info available.
4670	Observer Highway	Hoboken City	NJ Release	Case No. 11-08-09-2223-33 - Improper disposal/storage. No other info reported.
4672	Observer Highway Redevelopment Project	Observer Highway	NJ SHWS	Site ID No. 76903 - PI No. G000008902 - Status Reported as ACTIVE.
	Observer Highway Redevelopment Project	Observer Highway	NJ ENG CONTROLS	Site ID No. 76903 - PI No. G000008902 - DER filed 12/25/88. Engineering control for metals and total petroleum hydrocarbons to a depth of 999 feet. Concrete slab of high rise apartment building serves as engineering control.
4673	NJ Transit Property	Observer Highway	NJ HIST LUST	Case No. 91-11-04-1337 - Site Issued NFA on 8/19/93.
	NJ Transit Property	Observer Highway	NJ Release	Same as NJ HIST LUST Case.
4675	99 Observer Highway	99 Observer Highway	NJ Release	Case No. 11-11-17-1607-08 - Sewage pump station - No other information reported.
4677	Former Hoboken Shop Rite	1 Washington Street	NJ HIST LUST	Case No. 93-07-27-1144 - Site issued NFA on 4/8/94.
	Former Hoboken Shop Rite	1 Washington Street	NJ Release	Same as NJ HIST LUST Case.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
4679	NJ Transit Hoboken Yard	115 Observer Highway	RCRA NonGen	Hisotric Handler of various waste types including ignitable waste, corrosive waste. Lead, benzene, MEK, spent non-halogenated solvents, waste oils. - No violations found.
	NJ Transit Hoboken Yard	115 Observer Highway	NJ Release	Case No. 90-09-05-0942 - Release of 5 gallons of oil in 1990. Deminimus.
	NJ Transit Hoboken Yard	115 Observer Highway	RCRA-LQG	Large Quantity Generator of haz waste including ignitable waste, benzene, corrosive waste, and lead. Numeorus violations reported - all having to do with manifesting.
	NJ Transit Hoboken Yard	115 Observer Highway		
4714	Behind SR CIT Home on RR Prop.	115 Observer Highway	NJ SPILLS	Case No. 91-3-5-1141-59 - Leaking Drumster on railroad property. - Oil-like substance. Citizen complaint from 1991.
4716	NJ Transit Yard	115 Observer Highway	NJ SPILLS	Case No. 93-3-27-1223-19 - Lube oil leaked from locomotive to track bed. Cleanup reportedly underway.
4719	Hoboken Rail Yard	115 Observer Highway	NJ UST	UST Facility G000041978; TANK 33567 is a 4000 gallon waste oil tank that is in-use as of 12/1/2006
4720	Construction Site	Observer Highway & Bloomfield Street	NJ HIST LUST	Case No. 89-10-11-1646 - Site issued NFA on 10/31/89.
4725	72nd Street Property	72 Hudson Street	NJ SPILLS	Case No. 00-06-29-1707 - No spill information reported.
	72nd Street Property	72 Hudson Street	NJ VCP	No spill information reported. Voluntary Cleanup Program.
4729	Hudson United Bank	51 Newark Street	NJ HIST LUST	Case No. not reproted. Issued NFA on 10/1/95.
	Hudson United Bank	51 Newark Street	NJ UST	UST Facility 030678; TANK 1 was a 2500 No.4 heating oil tank that was abandoned in place; TANK 2 was a 2500 No. 4 Heating oil tank that was removed as of 5/17/1995; TANK 3 was a 275 Other UST that was removed as of 6/19/1995
4733	51 Newark Street	Maxwell Playground	NJ Release	Case No. 12-09-22-1354-50 - Citizen complaint. No other information reproted.
4742	Worldwide Finishing Inc.	300 Observer Highway	RCRA NonGen	Historic handler of various wastes including spent halogenated solvents. Numeorus Violations.
4749	GTCI Inc	300 Observer Highway	NJ Release	Case No. 88-02-26-1516; substance is lacquer spray; odors were reported.
4753	R Neumann & Co.	300 Observer Highway	SHWS	Case No. 08-09-26-1424-32; soil contamination; active case; PI No. 014613.
	R Neumann & Co.	300 Observer Highway	SHWS	Case No. 04-03-06-1027-58; incident due to smoke/dust.
	R Neumann	300 Observer Highway	NJ Release	Case No. 91-11-11-1205-27; Heating Oil #4 leak; spill due to leaking underground fuel line (ECRA #87774). Oil was vacuumed from access pit.
	R Neumann & Co.	300 Observer Highway	HIST SHWS	Active case; Case ID 014613; UST Facility ID 014613; Seven (7) tanks on site; Tank 1 removed as of 8/10/1992, contained heating oil #4 and was 5,000 gallons; Tank 2 was removed as of 8/10/1992 and contained heating oil #4, and was 5,000 gallons; Tank 3 was removed as of 8/10/1992 and contained #4 heating oil, and was 5,000 gallons; Tank 4 was removed as of 8/10/1992 and contained heating oil #4, and was 5,000 gallons; Tank 5 was abandoned in place as of 10/13/1992 and contained "other" contents, and is 3,000 gallons; Tank 6 was abandoned in place as of 10/13/1992 and contained "other" content, and is 3,000 gallons; Tank 7 was abandoned in place as of 12/11/1997 and contained "other" contents, and is 2,000 gallon.
	R Neumann & Co.	300 Observer Highway	NJ Spills	Case No. 88-03-22-3400; spill due to fuel oil and was estimated to be 1-2 gallons.
	R Neumann & Co. R Neumann & Co.	300 Observer Highway 300 Observer Highway	VCP Brownfields	Incident No. 92-09-09-1008; MOA executed on 11/10/1992. Listed as remediation in progress; assigned to program on 2/22/1992 with a formal design of known source or release with groundwater contamination established 3/24/1997.
	R Neumann & Co.	300 Observer Highway	NJ ISRA	ISRA Case E20060390,911111120527; no LSRP according to EDR.
	GTCI Inc	300 Observer Highway	NJ Release	Case No. 88-02-26-1516 - Citizen complaint regarding lacquer spray. 28 years old.
	R Neumann & Co	300 Observer Highway	NJ SHWS	Site ID 7559 - Status listed as ACTIVE.
	R Neumann & Co	300 Observer Highway	NJ Release	Case No. 08-09-26-1424-32 - Soil contamination reported (property is a leather tannery). No other info reported.
	R Neumann & Co	300 Observer Highway	NJ Release	Case No. 91-11-11-1205 - Discharge of #4 heating oil from old underground fuel line (ECRA # 87774).
	R Neumann & Co	300 Observer Highway	NJ HIST HWS	Case ID 014613 - Sires with on-siet sources of contamination.
	R Neumann & Co	300 Observer Highway	NJ SPILLS	Case No. 88-03-22-3400 - Fuel Oil - no other info reported.
	R Neumann & Co	300 Observer Highway	NJ VCP	Case No. 92-09-09-1008 - MOA executed 11/10/92.
	R Neumann & Co	300 Observer Highway	NJ BROWNFIELDS	PI No. 014613.
	R Neumann & Co	300 Observer Highway	NJ ISRA	Case No. E20060390, E20080009, E20080011, E20080012, E20080013, E20080014, E20080015, et all.
	R Neumann & Co	300 Observer Highway	NJ Release	Case No. 92-9-9-1008 - Soil contaminated with fuel oil - cleanup reported.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
4780	Hoboken Car Wash	352 Observer Highway	NJ Release	Case No. 03-10-14-1336 -Reported soil contamination.
	Hoboken Car Wash	352 Observer Highway		Case No. 90-02-20-0911 - Illegal dumping of unknown liquid.
	Hoboken Car Wash	352 Observer Highway		Case No. 90-02-05-1005 - Illegal dumping of unknown liquid.
4787	DPW Garage	256 Observer Highway	NJ Release	Case No. 98-11-10-1235-53 - Dumping wash material into floor drains - no other data.
	DPW Garage	256 Observer Highway	NJ SPILLS	Case No. 96-7-18-1401-52 - Tank overfill - Cleanup reported.
	DPW Garage	256 Observer Highway	NJ Release	Case No. 03-08-26-1012-45 - Insident - UST - No other data.
	DPW Garage	256 Observer Highway, Hoboken	NJ Release	Case No. 98-11-10-1235-53; dumping material to floor drain, citizen notification, receiving water unknown.
	DPW Garage	256 Observer Highway	NJ Release	Case No. 99-11-10-1235-53; R.P dumping material in floor drain when they clean sprayers for road lines.
	Hoboken DPW	256 Observer Highway	NJ Spills	Case No. 96-7-18-1401-52; Facility ID 11487; Tank overfilled due to tilted tank, and clean up being done; Estimated 5-7 gallons of diesel fuel was spilled and was contained.
4789	Hoboken DPW	256 Observer Highway, Hoboken	NJ SPILLS	Case No. 96-7-18-1401-52; diesel fuel, 5-7gals, tank overfill. Cleanup being done.
	Hoboken DPW	256 Observer Highway, Hoboken	NJ Release	Case No. 03-08-26-1012-45; UST Hoboken Munici. Garage.
4791	Hoboken DPW	256 Observer Highway	NJ Release	Case No. 03-08-26-1012-45; Incident due to an underground storage tank (UST).
4796	2 Hudson Place	2 Hudson Place	NJ HIST LUST	Site Issued NFA - No REC
	2 Hudson Place	2 Hudson Place	NJ HIST LUST	UST ID: 0325686, Site Issued NFA letter for REC 3/28/2000.
	2 Hudson Place	2 Hudson Place	NJ UST	Facility ID 032568; 1000-gal diesel UST abandoned in place.
4797	Hoboken Rail Yard	1 Hudson Place	NJ Release	Case No. 03-12-10-1413-26 - No other data.
	Hoboken Rail Yard	1 Hudson Place	NJ Release	Case No. 93-2-19-0846-06 - Unknown Liquid discharging to sewer.
	Hoboken Rail Yard	1 Hudson Place	NJ Release	Case No. 04-01-30-0241-14 - Abandoned Containers.
	Hoboken Rail Yard	1 Hudson Place	NJ SPILLS	Case No. 92-8-18-1448-24 - Overfill of Lube Oil Tank - Cleanup in progress.
	Hoboken Rail Yard	1 Hudson Place	NJ UST	Facility ID: 024200.
	Hoboken Rail Yard	1 Hudson Place	NJ Release	Case ID: 03-12-10-1413-26; Hoboken Terminal, Sewage; Small tank truck discharged contents into sewer 1 block from river. Illegal dumping.
	Hoboken Rail Yard	1 Hudson Place		Case No. 04-01-30-0241-14, no additional information.
	Hoboken Rail Yard	1 Hudson Place		Case No. 04-01-19-2054-13, abandoned containers, no additional information.
	Hoboken Rail Yard	1 Hudson Place	NJ SPILLS	Case No. 92-8-18-1448-24, Facility ID 13580, Oil Lube, 200 gallons; overfill onto concrete floor. Co. doing cleanup.
	Hoboken Rail Yard	1 Hudson Place		Case No. 87-08-11-0803, Facility ID 5081, ~1gal Transformer oil .
	Hoboken Rail Yard	1 Hudson Place		Case No. 88-08-24-0934, Oil, #30 oil, 10-15 gal. Contained.
4809	Hoboken Rail Yard (cont.)	1 Hudson Place (cont.)	NJ SPILLS	Case No. 87-08-11-0803 - 1 Gal Tranformer Oil - Deminimous.
	Hoboken Rail Yard (cont.)	1 Hudson Place (cont.)	NJ SPILLS	Case No. 88-08-24-0934 - 10-15 gall #30 oil - No other data.
	Hoboken Rail Yard (cont.)	1 Hudson Place (cont.)	NJ SPILLS	Case No. 92-12-7-1212 - Motor Oil spill contained and cleaned up.
	Hoboken Rail Yard (cont.)	1 Hudson Place (cont.)	NJ SPILLS	Case No. 92-10-28-1400 - 150 Gal Lube Oil - Cleanup by NJ Transit.
	Hoboken Rail Yard (cont.)	1 Hudson Place (cont.)	NJ SPILLS	Case No. 01-03-28-1056 - Spill during refueling - Cleanup reported.
	Hoboken Rail Yard (cont.) Hoboken Rail Yard (cont.)	1 Hudson Place (cont.) 1 Hudson Place (cont.)	NJ SPILLS NJ Release	Case No. 92-2-10-1212-42 - 40 gal diesel fuel - contained and cleaned up. Case No. 00-03-12-1000-38 - 7500 gal UST removed - cleanup reported.
	Hoboken Rail Yard (cont.)	1 Hudson Place (cont.)	NJ HIST LUST	Site Issued NFA.
4813	NJ Transit Rail Yard	1 Hudson Place, Hoboken	NJ SPILLS	Case No. 92-12-7-1212-08; Motor oil, ~20gals, contained/cleaned up.
4816	NJ TRANSIT Hoboken Rail Yard	1 Hudson Place, Hoboken	NJ SPILLS	Case No. 92-10-28-1400-11; Oil lube, ~150gals, contained, spill due to overfill within building but hitting ground. Cleanup by NJ Transit.
	NJ TRANSIT Hoboken Rail Yard	1 Hudson Place, Hoboken		Case No. 01-03-28-1056-20; Spill on ground during fueling, contractor cleaned up.
4821	NJ TRANSIT Rail Yard (HOBOKEN)	1 Hudson Place, Hoboken	NJ SPILLS	Case No. 92-2-10-12-42; Diesel, ~40gals, hose overflowed, material contained, cleaned up.
4823	Rear of Train Station	1 Hudson Place, Hoboken	NJ Release	Case No. 00-03-12-1000-38; 7500-gal UST removed (#0161138 N10-136. Cleanup in progress).
4825	40 Acre Rail Yard	1 Hudson Place	NJ Release	Case No. 99-12-22-0823 - Material on waterway from street runoff.
	Hoboken Rail Yard	1 Hudson Place, Hoboken	NJ HIST LUST	UST ID: 0242002, Site Issued NFA Letter on 7/20/94.
	40 Acre Rail Yard	1 Hudson Place, Hoboken	NJ Release	Case No. 99-12-22-0823-45; Long Slip canal, material on water due to run off from streets.
4827	1 Hudson Place	1 Hudson Place	NJ SPILLS	Case No. 14-05-14-1320 - No data reported.

TABLE 5-1
SUMMARY OF REGULATORY DATABASE INFORMATION

PAGE	SITE NAME	ADDRESS	DATABASE OF CONCERN	STATUS OF INVESTIGATION/REMEDIATION
	1 Hudson Place	1 Hudson Place	NJ Release	Case No. 14-10-06-2211-01 - No data reported.
	1 Hudson Place	1 Hudson Place, Hoboken	NJ SPILLS	Case No. 14-05-14-1320-54; Facility ID 516844, Hoboken Terminal, no other information.
4831	#4 Hill Yard	1 Hudson Place	NJ Release	Case No. 86-12-15-1746 - 20 Gal PCB tranformer oil - explosion.
	#4 Hill Yard	#1 Hudson Place, Hoboken	NJ Release	Case No. 86-12-15-1746, Transformer PCB Oil, ~20gallons, incident description involved an explosion.
4833	Hoboken Rail Terminal	1 Hudson Place	NJ SPILLS	Case No. 01-06-28-1104-56 - Oil in manhole - Cleanup reported.
	Hoboken Rail Terminal	1 Hudson Place, Hoboken	NJ SPILLS	Case No. 01-06-28-1104-56; Machinery struck manhole causing oil/water mixture spill. Cleanup in progress.
4837	River Street	River Street btwn 2nd & 3rd	NJ Release	Case N0. 13-05-24-2226 - No data reported, citizen complaint - No REC
	River ST	River Street, Hoboken	NJ Release	Case No. 13-05-24-2226-09; Between 3rd and 2nd St., citizen complaint, no additional information.
4841	Ship Yard Project	12 & 14 Street on river	NJ Release	Case No. 95-6-8-1124-13 - Asbestos demolition dust.
	Ship Yard Project	12&14 St on River	NJ Release	Case No. 95-6-8-1124-13; citizen called stating clouds of "asebstos dust" from demolition.
4843	44-46 Hudson Place	44-46 Hudson Place	NJ Release	Case No. 12-07-12-1410-11 - Reported radioactive material, municipal report.
	44-46 Hudson Place	44-46 Hudson Place, Hoboken	NJ Release	Case No. 12-07-12-1410-11; radioactive material, unknown source, police/fire involved, no additional information.
4845	Firestone Store 14C1	70 to 76 State Highway	NJ UST	UST Facility 002441; Tank 1 was a 250 waste oil tank that was removed as of 5/8/1997.
4847	Millennium Towers	677 Grove Street	NJ SHWS	Site ID. 257284 - Listed as Active.
	Millennium Towers	677 Grove Street	VCP	Case No. 06-12-02-0549-11 - No other data.
	677 Grove Street	677 Grove Street	NJ Release	Case No. 06-12-02-0549-11 - No other data.
	Millenium Towers LLC	677 Grove Street, Jersey City	NJ SHWS	Site ID 257284; Status listed as Active; PI No. 329546.
	Millenium Towers LLC	677 Grove Street, Jersey City	NJ VCP	Incident No. 06-12-02-0549-11; MOA executed 12/14/2006.
	Millenium Towers LLC	677 Grove Street, Jersey City	NJ Release	Case No. 06-12-02-0549-11.
4849	700 Grove Street	700 Grove Street	NJ SPILLS	Case No. 06-05-23-1544 - No other data.
	700 Grove Street	700 Grove Street, Jersey City	NJ Spill	Case No. 06-05-23-1544-36; Facility ID 188421.
4852	Abandoned Facility	660 Grove St & 18th Street	NJ Release	Case No. 93-5-5-1308-12 - Residual waste.
	Abandoned Facility	660 Grove St & 18th Street	NJ Release	Case No. 93-5-7-1407-49 - Abandoned drums - status unknown.
4858	Lipschultz Trucking	850 Jersey Avenue	NJ SHWS	Site ID 67223 - Status Closed.
	Lipschultz Trucking	850 Jersey Avenue	NJ VCP	Case No. 93-05-05-1308 - No other data.
4865	854 Jersey Avenue	854 Jersey Avenue	NJ SHWS	Site ID 36665 - Closed.
	854 Jersey Avenue	854 Jersey Avenue	NJ Release	Case No. 10-04-14-1837-39 - Closed.
4869	Along Railroad Tracks	Observer Highway	NJ SPILLS	Case No. 96-10-26-0801-03 - #6 fuel oil - minor spill - cleanup in progres.
	Along Railroad Tracks	Observer Highway	NJ Release	Case No. 91-11-1-1151-35 - Soil Contamination stockpiled.
4873	Conrail Yard	688 Luis Munoz	NJ HISY HWS	Case ID. G000005103 - Sites with onsite sources of contaminaiton.
	Hudson River/Next to Train Sta	Hudson Place	NJ Release	Case No. 92-3-16-0906-35 - Raw sewage discharged to Hudson River.
4876	Hoboken Rail Yard	18th St & Marin Blvd	NJ SPILLS	Case No. 00-01-14-1147-12 - No data reported.
4878	Island Manhole #2354	18th St & Marin Blvd	NJ SPILLS	Case No. 00-09-05-0842-26 - No data reported.
4879	700 Washington Blvd	700 Washington Blvd	NJ SHWS	Site ID 518978 - PI No. 651941 - Active.
	700 Washington Blvd	700 Washington Blvd	NJ Release	Case No. 14-06-10-1432-59 - Soil Contamination.

Source: Environmental Data Resources, EDR® DataMap™ Area Study, 4348785.1s, July 9, 2015.

TABLE 5-2
UNDERGROUND STORAGE TANK REGISTRATION INFORMATION

UST REGISTRATION #	OWNERS NAME	ADDRESS	TANK #	STATUS	PRODUCT STORE	CAPACITY (GAL)	INSTALL DATE
030397	Franmar Realty/Academy Bus Tours Inc	1515 Jefferson Street, Hoboken	E1	In-use	Light Diesel Fuel (No. 1-D)	12000	1/1/1991
			E2	In-use	Light Diesel Fuel (No. 1-D)	12000	1/1/1991
425397	Alorna Coat Corp	1555 Willow Ave, Hoboken City	0001	Out of service	Heating Oil (No. 2)	20000	1/1/1944
006431	Coach Services America Inc	1500 Clinton Street, Hoboken	E2	Abandoned in place	Medium Diesel Fuel (No. 2-D)	Unknown	1/1/1967
			E3	Abandoned in place	Medium Diesel Fuel (No. 2-D)	Unknown	1/1/1967
			E4	Abandoned in place	Motor Oil	Unknown	1/1/1967
016234	Willow Exxon/ Meerafzal Fazaldin Inc DBA Willow Sunoco	1301 Willow Ave, Hoboken City	1	In-use	Unleaded Gasoline	6000	1/1/1987
			2	In-use	Unleaded Gasoline	8000	1/1/1987
			3	In-use	Unleaded Gasoline	6000	1/1/1987
			4	In-use	Waste Oil	1000	1/1/1988
033827	Rite Aid Pharmacy & Laundromat	1316-1330 Willow Ave, Hoboken City	0001	Abandoned in place	Heating Oil (No. 2)	3000	1/1/1944
024405	B&A Hoboken Inc	1400 Park Ave, Hoboken City	0001	In-use	Unleaded Gasoline	10000	1/1/1992
			0002	In-use	Unleaded Gasoline	10000	1/1/1992
			0003	In-use	Unleaded Gasoline	12000	1/1/1992
G000013306	Metro Web Corporation	1420 1424 Willow Ave, Hoboken City	0002	Abandoned in place	Leaded Gasoline	550	1/1/1944
020809	Hoboken Shipyards	Hudson St, Hoboken City	P1	Abandoned in place	Heating Oil (No. 2)	1000	1/1/1944
021073	YMCA of Hoboken & North Hudson	1301 Washington St, Hoboken City	00E1	Abandoned in place	Heating Oil (No. 2)	8000	1/1/1956
288307	Block 114 Development LLC	1321 1327 Adams St, Hoboken City	1	In-use	Leaded Gasoline	Unknown	1/1/1977
			2	In-use	Light Diesel Fuel (No. 1-D)	Unknown	1/1/1977
025558	Sanvard Realty Company	1316-1330 Grand St, Hoboken City	0001	Abandoned in place	Medium Diesel Fuel (No. 2-D)	1000	1/1/1959
011058	Shell Service Station 10013	197 12th St & Eric St, Jersey City	0001	In-use	Alcohol Enriched Gasoline	10000	1/1/1988
			0002	In-use	Alcohol Enriched Gasoline	10000	1/1/1988
			0003	In-use	Alcohol Enriched Gasoline	10000	1/1/1988
			0004	In-use	Medium Diesel Fuel (No. 2-D)	10000	1/1/1988
			0005	Exempt	Heating Oil (No. 2)	1000	1/1/1972
			0006	In-use	Waste Oil	600	1/1/1993
021612	Leonard Serrano	1246 Bloomfield St, Hoboken City	0001	Abandoned in place	Medium Diesel Fuel (No. 2-D)	1000	1/1/1969
017057	Cantenbury Court Condominium	1015 Washington St, Hoboken City	00E1	Other	Heating Oil (No. 2)	6000	1/1/1957
97967	KTAV Publishing House Inc	900 Jefferson St, Hoboken	01	Abandoned in place	Leaded Gasoline	2000	1/1/1944
			02	Abandoned in place	Heating Oil (No. 2)	5100	1/1/1944
031020	Kohn Knitting Mills Inc	400 9th St, Hoboken City	0001	Abandoned in place	Heating Oil (No. 2)	4000	1/1/1944

TABLE 5-2
UNDERGROUND STORAGE TANK REGISTRATION INFORMATION

UST REGISTRATION #	OWNERS NAME	ADDRESS	TANK #	STATUS	PRODUCT STORE	CAPACITY (GAL)	INSTALL DATE
244741	Block 88	800, 810, 816, 822 & 824 Madison St, Hoboken City	NA	Abandoned in place	Heating Oil (No. 4)	4000	1/1/1944
017640	Stevens Institute of Technology	Castle Point on Hudson (Carnegie Labora), Hoboken City	00E1	Abandoned in place	Heating Oil (No. 6)	5000	1/1/1948
			00E2	Abandoned in place	Heating Oil (No. 6)	5000	1/1/1948
			00E3	Abandoned in place	Heating Oil (No. 6)	5000	1/1/1948
			0001	In-use	Heating Oil (No. 2)	12000	9/1/1998
017641	Stevens Institute of Technology (Davis Hall)	Castle Point Terr, Hoboken City	00E1	Other	Heating Oil (No. 2)	8000	1/1/1962
017649	Stevens Institute of Technology (Davidson Laboratory)	Castle Point Terr, Hoboken City	00C1	Other	Heating Oil (No. 2)	6250	1/1/1946
			00C2	Other	Heating Oil (No. 2)	6250	1/1/1946
017648	Stevens Institute of Technology (Jacobus Hall)	Castle Point Terr, Hoboken City	00E1	Other	Heating Oil (No. 2)	2500	1/1/1958
017650	Stevens Institute of Technology (Hayden Hall)	Castle Point Terr, Hoboken City	00E1	Other	Heating Oil (No. 2)	6000	1/1/1958
017643	tevens Institute of Technology (Married Student Apartment	Castle Point Terr, Hoboken City	00E1	Other	Heating Oil (No. 2)	10000	1/1/1966
020552	Academy of the Sacred Heart	713 Washington St, Hoboken City	0001	Abandoned in place	Heating Oil (No. 2)	3000	1/1/1944
034116	Hoboken Catholic Academy	555 7th St, Hoboken City	E1	Abandoned in place	Heating Oil (No. 2)	2000	1/1/1944
			E2	Abandoned in place	Heating Oil (No. 2)	8000	1/1/1944
646589	Saint Anns Church	704 Jefferson St, Hoboken City	0001	Out of service	Heating Oil (No. 2)	3000	1/1/1944
			0002	Out of service	Heating Oil (No. 2)	2500	1/1/1944
95034	Former Service Station	503 Monroe St, Hoboken City	003	Abandoned in place	Leaded Gasoline	1000	1/1/1944
017558	Angel S Harmina Fernandez	617 Hudson St, Hoboken City	0001	Other	Medium Diesel Fuel (No. 2-D)	500	1/1/1959
030794	515-4th St. Hoboken	515 4th St, Hoboken City	0001	In-use	Other	4000	1/1/1944
005589	Monaco Apartments	331 Jackson St, Hoboken City	0002	Other	Heating Oil (No. 2)	2000	1/1/1947
022940	Our Lady of Grace R C Church	400 Willow Ave, Hoboken City	0001	Exempt	Heating Oil (No. 2)	1000	1/1/1969
			0002	Exempt	Heating Oil (No. 2)	2000	1/1/1969
			0003	Exempt	Heating Oil (No. 2)	5000	1/1/1969
024887	St Francis Church	308 Jefferson St, Hoboken City	0001	Abandoned in place	Heating Oil (No. 2)	2000	1/1/1944
235097	Hopes	301 GDN ST, Hoboken City	0001	Abandoned in place	Heating Oil (No. 4)	15000	1/1/1959
016997	Midtown Parking Garage	308 Willow Ave, Hoboken City	2	Abandoned in place	Light Diesel Fuel (No. 1-D)	2000	1/1/1972
000791	Advance Recovery Solutions LLC	2 Hope St, Jersey City	0004	Exempt	Heating Oil (No. 2)	2000	1/1/1957
021980	Ponte Office Building	111 Paterson Ave, Hoboken City	00A2	Other	Light Diesel Fuel (No. 1-D)	4000	1/1/1966

TABLE 5-2
UNDERGROUND STORAGE TANK REGISTRATION INFORMATION

UST REGISTRATION #	OWNERS NAME	ADDRESS	TANK #	STATUS	PRODUCT STORE	CAPACITY (GAL)	INSTALL DATE
032860	Hoboken Service Center Inc	425 Newark St, Hoboken City	0006	In-use	Unleaded Gasoline	12000	4/20/2000
			0007	In-use	Unleaded Gasoline	10000	4/20/2000
G000041978	Hoboken Rail Yard	115 Observer Hwy, Hoboken City	1	In-use	Waste Oil	4000	12/1/2006
030678	Hudson United Bank	51 Newark St, Hoboken City	1	Abandoned in place	Heating Oil (No. 4)	2500	1/1/1944
014613	R Neumann & Co	300 Observer Hwy, Hoboken City	05	Abandoned in place	Other	3000	1/1/1957
			06	Abandoned in place	Other	3000	1/1/1957
			07	Abandoned in place	Other	2000	1/1/1957
032568	2 Hudson PL	2 Hudson PL, Hoboken City	0001	Abandoned in place	Medium Diesel Fuel (No. 2-D)	1000	1/1/1944
033791	Holland Tiger LLC	854 Jersey Ave, Jersey City	E1	In-use	Unleaded Gasoline	15000	4/23/1999
			E2	In-use	Unleaded Gasoline	15000	4/23/1999
			E3	In-use	Light Diesel Fuel (No. 1-D)	10000	4/23/1999
	Northvale IIIA Apartments	215 13th Street, Hoboken			#2 Fuel Oil	3000	
011275	Miles Square Towing (Jefferson Street Properties)	1520-1530 Jefferson Street, Hoboken	2	Abandoned in place	No. 2 heating oil	1000	1/1/1972
			3	Abandoned in place	Medium Diesel Fuel (No. 2-D)	2000	1/1/1944
			1	Abandoned in place	Leaded Gasoline	3000	1/1/1972
	Willow View Estates	1203-1207 Willow Avenue, Hoboken		Abandoned in place	#2 Fuel Oil	1000	
	Northvale III	1310-1312 Bloomfield Avenue, Hoboken		Removed (Data Miner)	No. 2 heating oil	3000	
	Sims Pump Valve Company	1314 Park Avenue, Hoboken	001	Abandoned in place	Leaded Gasoline	1000	
			002	Abandoned in place	Leaded Gasoline	1000	
			003	Abandoned in place	No. 2 heating oil	550	
630341	Burlington Coat Factory	1501 1507 Clinton St	0002	Out of Service	Heating Oil (No. 2)	10000	1/1/1944
G000005559	Hoboken Gas Works Former	1200-22 Clinton St & 13th St	0004	Exempt	Heating Oil (No. 2)	550	1/1/1944
009110	Speedway 3483	1401 Willow Ave	7674	In-use	Unleaded Gasoline	10000	6/8/1990
			7659	In-use	Kerosene (No. 1)	10000	6/8/1990
			7672	In-use	Unleaded Gasoline	10000	6/8/1990
			7673	In-use	Unleaded Gasoline	10000	6/8/1990

Source: NJDEP, Regulated Underground Storage Tank (UST) Facilities by Municipalities, Search performed on April 20, 2016. http://datamine2.state.nj.us/DEP_OPRA/OpraMain/categories?category=Underground+Storage+Tanks.

TABLE 6-1
RECOGNIZED ENVIRONMENTAL CONDITIONS

SITE ID		SITE ADDRESS		
REC ID	NAME	STREET	MUNICIPALITY	BLOCK/LOT DESIGNATION
REC-1	Historic Fill	Project Area Wide	Hoboken, Jersey City, Weehawken	Various
REC-2	Current/Historic Rail Use	Various	Hoboken, Jersey City, Weehawken	Various
REC-3	Hudson River Sediments	NA	Hoboken, Jersey City, Weehawken	NA
REC-4A	NJDOT/NJ Transit Rail Yard	Various	Hoboken Jersey City	Block 139 Lots 1.01, 1.02, 2, and 3; Block 229, Lot 1(Hoboken); Block 7302, Lot 1 Jersey City)
REC-4B				
REC-4C				
REC-5	Observer Highway Development	50 Bloomfield Streetand 51 Garden Street	Hoboken	Block 186, Lot 1
REC-6	Former Maxwell House Coffee	1101-1125 Hudosn Street	Hoboken	Block 261.01 Lot 1; Block 261.02 Lot 1; Block 261.03 Lot 1; and Block 261.04, Lot 1
REC-7	Union Dry Dock & Repair Company	901 Sinatra Drive	Hoboken	Block 259, Lot 1
REC-8	Dell Aquilla Site(aka Hoboken Cove)	1500 Hudosn Street	Hoboken	Block 126 Lot 5; Block 255 Lot 4.03; Block 264 Lot 3.01; Block 267, Lot 1; Block 268.01 Lots 1, 2, and 3; Block 269.02 Lot 1; and Block 269.04, Lot 1
REC-9	SGS US Testing	1409-1427 Park Avenue	Hoboken	Block 126, Lots 3, 6.01 and 7.01
REC-10	Hoboken/ Weehawken Cove (aka Old Todd Shipyard)	1501 Park Avenue	Hoboken	Block 11, Lots 1, 2, 3, 5, & 6; Block 256, Lot 1.01; Block 267, Lot 1; and Block 269.04, Lot 1
REC-11	R. Neumann & Co.	300 Observer Highway	Hoboken	Block 2, Lots 5 & 12-26, & Block 2.01, Lots 1-10
REC-12	Millenium Towers (aka Lifschultz Fast Freight)	677 Grove Street/850 Jersey Avenue	Jersey City	Block 6002, Lots 7, 8, & 10
REC-13A	Former Cocheo Brothers	1801-1831 Willow Avenue	Weehawken	Block 11, Lot 5 and Block 12, Lots 1, 7, & 8
REC-13B				
REC-14	Hoboken DPW	256 Observer Highway	Hoboken	Block 1, Lot 1
REC-15A	International Bus Service and Burlington Coat Factory	1501-1507 Clinton Street	Hoboken	Block 125, Lot 7; Block 131, Lots 1-32; Block 133, Lots 1-5 & 7-17; and Block 134, Lot 3.02
REC-15B		1502-1530 Willow Avenie		
REC-16	Hoboken Service Center/Amoco Station	425 Newark Street	Hoboken	Block 2, Lot 1
REC-17	Former Service Station	150 14th Street	Hoboken	Block 255, Lot 2
REC-18	Cognis Corporaiton	12th Street	Hoboken	Block 107, Lot 1 and Block 113, Lot 1
REC-19	Poggi Press	1501-1531 Adams Street	Hoboken	Block 130, Lots 1-32
REC-20	American Eagle Magnesium and Aluminum Corp.	1316 Adams Street	Hoboken	Block 114, Lots 1, 11, 14.02, & 20
REC-21	Tarragon Corp.	1024-1030 Adams Street	Hoboken	Block 100, Lot 10
REC-22	Atlantic Steamers Suppply Co.	1100-1118 Adams Street	Hoboken	Block 104, Lot 1.01
REC-23	Tarragon Corp.	1101-1111 Madison Street 1100-1110 Jefferson Street	Hoboken	Block 103, Lots 1.01 & 27.01
REC-24	1405 Clinton Street	1405 Clinton Street	Hoboken	Block 123, Lot 1.01
REC-25	Former Ferguson Propeller, Inc.	1132 Clinton Street	Hoboken	Block 151, Lot 1 and Block 156, Lot 6

TABLE 6-1
RECOGNIZED ENVIRONMENTAL CONDITIONS

SITE ID		SITE ADDRESS		
REC ID	NAME	STREET	MUNICIPALITY	BLOCK/LOT DESIGNATION
REC-26	Hoboken Coal Gas; Cumberland Farms/Gulf Station	1200 Clinton Street;1316-1330 Willow Avenue	Hoboken	Block 110, Lot 1 and Block 116, Lots 1.01 & 1.02
REC-27	PSE&G Vault Expansion Project	In Front of 1331 Grand Street	Hoboken	Block 141, Lot 12.01
REC-28	5-15 Church Towers	5-15 Church Towers	Hoboken	Block 62, Lot 1; Block 71, Lot 1; and Block 157, Lot 1
REC-29	Demerest School	400-414 Bloomfield Street	Hoboken	Block 191, Lot 1
REC-30	Harrison Realty Associates	600 Harrison Street	Hoboken	Block 72, Lot 1
REC-31	Grand Street Condominiums	1200 Grand Street	Hoboken	Block 109 114, Lot 1
REC-32	Grand Adams Apartments	300 Grand Street	Hoboken	Block 51, Lots 1-9 & 26-35
REC-33	Grand Street Mercury	720-732 Grand Street	Hoboken	Block 85, Lots 14, 15.02, 15.05, 15.06, 15.07, & 15.08
REC-34	Triboro Hardware	812 Grand Street	Hoboken	Block 91, Lots 1.02 & 2
REC-35	Interboro Recycling	1001-1015 & 1114 Madison Street, 1000-1002 & 1024-1030 Jefferson Street	Hoboken	Block 99, Lot 1
REC-36	1100-1114 Madison Street & 1101-1113 Monroe Street	1100-1114 Madison Street & 1101-1113 Monroe Street	Hoboken	Block 102, Lots 1
REC-37	Universal Folding Box Co.	Madison Street & 13th Street	Hoboken	Block 106, Lot 1 and Block 111, Lots 1 & 1.01
REC-38	Levelor Lorentzen, Inc.	700-720 Monroe Street	Hoboken	Block 80, Lots 1.01 & 10.01; Block 81, Lots 2.01 & 3.01; Block 82, Lot 3; and Block 87, Lot 1.01
REC-39	301 Newark Street	301 Newark Street	Hoboken	Block 2.01, Lots 5 & 6
REC-40	Metro Web Corporation	1420-1424 Willow Avenue & 1427 Clinton Street	Hoboken	Block 123, Lots 7-14
REC-41	Albee Services	410 8th Street	Hoboken	Block 91, Lot 1.01
REC-42	LMT Steel Products, Inc.	551 11th Street	Hoboken	Block 94, Lot 1
REC-43	Jefferson Street Properties	1515-1530 Jefferson Street	Hoboken	Block 128, Lot 17
REC-44	Haulaway Inc.	1417-1429 Adams Street	Hoboken	Block 121, Lots 7-13 & 18
REC-45	1032-1040 Grand Street	1032-1040 Grand Street	Hoboken	Block 150, Lot 3
REC-46	Ehrlich Trucking	700 First Street	Hoboken	Block 25, Lot 1
REC-47	Irving's Service Center	701-703 First Avenue	Hoboken	Block 11, Lots 4-9
REC-48	Parcel R208 - NJ Transit	77 West 18th Street	Weehawken	Block 2, Lot 3 (Weehawken); Block 142, Lot 1; Block 143, Lot 2; Block 136, Lot 6.02 (Hoboken)
REC-49	Singer Property	3 and 4 West 18th Street	Weehawken	Block 2, Lot 2; Block 143, Lot 3; Block 144, Lots 2-19; Block 145, Lots 3, 4, 10, & 11
REC-50	Digital Realty Trust	300 Boulevard East	Weehawken	Block 34.03, Lot 11.01

Source: Dewberry, 2015-2017

TABLE 7-1
SUMMARY OF FINDINGS

SITE ID		IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE
REC-1	Historic Fill	X	X	X	X
REC-2	Current/Historic Rail Use	X	X	X	X
REC-3	Hudson River Sediments		X	X	X
REC-4A	NJDOT/NJ Transit Rail Yard	X	X	X	X
REC-4B					
REC-4C					
REC-5	Observer Highway Development	X	X*	X*	X*
REC-6	Former Maxwell House Coffee	X^	X	X	X
REC-7	Union Dry Dock & Repair Company		X		
REC-8	Dell Aquilla Site (aka Hoboken Cove)	X	X	X	X
REC-9	SGS US Testing	X^		X	X
REC-10	Hoboken/ Weehawken Cove (aka Old Todd Shipyard)	X	X	X	X

TABLE 7-1
SUMMARY OF FINDINGS

SITE ID		IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE
REC-11	R. Neumann & Co.	X	X*	X*	X*
REC-12	Millenium Towers (aka Lifschultz Fast Freight)		X	X	X
REC-13A	Former Cocheo Brothers	X	X	X	X
REC-13B					
REC-14	Hoboken DPW	X	X*	X*	X*
REC-15A	International Bus Service and Burlington Coat Factory	X	X	X	X
REC-15B					
REC-16	Hoboken Service Center/ Amoco Station			X*	X*
REC-17	Former Service Station	X^		X	X
REC-18	Cognis Corporaiton	X	X	X	X
REC-19	Poggi Press	X	X	X	X
REC-20	American Eagle Magnesium and Aluminum Corp.	X	X	X	X
REC-21	Tarragon Corp.	X	X	X	X

TABLE 7-1
SUMMARY OF FINDINGS

SITE ID		IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE
REC-22	Atlantic Steamers Suppply Co.	X	X	X	X
REC-23	Tarragon Corp.	X	X	X	X
REC-24	1405 Clinton Street	X	X	X	X
REC-25	Former Ferguson Propeller, Inc.	X	X	X	X
REC-26	Hoboken Coal Gas; Cumberland Farms/Gulf Station	X	X	X	X
REC-27	PSE&G Vault Expansion Project	X	X	X	X
REC-28	5-15 Church Towers	X	X	X	X
REC-29	Demerest School	X	X	X	X
REC-30	Harrison Realty Associates	X	X	X	X
REC-31	Grand Street Condominiums	X	X	X	X
REC-32	Grand Adams Apartments	X	X	X	X
REC-33	Grand Street Mercury	X	X	X	X
REC-34	Triboro Hardware	X	X	X	X

TABLE 7-1
SUMMARY OF FINDINGS

SITE ID		IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE
REC-35	Interboro Recycling	X	X	X	X
REC-36	1100-1114 Madison Street & 1101-1113 Monroe Street	X	X	X	X
REC-37	Universal Folding Box Co.	X	X	X	X
REC-38	Levelor Lorentzen, Inc.	X	X	X	X
REC-39	301 Newark Street	X	X	X	X
REC-40	Metro Web Corporation	X	X	X	X
REC-41	Albee Services	X	X	X	X
REC-42	LMT Steel Products, Inc.	X	X	X	X
REC-43	Jefferson Street Properties	X	X	X	X
REC-44	Haulaway Inc.	X	X	X	X
REC-45	1032-1040 Grand Street	X	X	X	X
REC-46	Ehrlich Trucking	X	X	X	X
REC-47	Irving's Servie Center	X	X	X	X

TABLE 7-1
SUMMARY OF FINDINGS

SITE ID		IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE
REC-48	Parcel R208 - NJ Transit	X	X	X	X
REC-49	Singer Property	X	X	X	X
REC-50	Digital Realty Trust			X	X

Option 2 only
^ Alternatives 2 and 3 only
Source: Dewberry, 2015-2017

TABLE 7-2
SUMMARY OF FINDINGS WITH DETAILED LOCATION INFORMATION

SITE ID		SITE ADDRESS			IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	STREET	MUNICIPALITY	BLOCK/LOT DESIGNATION	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE
REC-1	Historic Fill	Project Area Wide	Hoboken, Jersey City, Weehawken	Various	X	X	X	X
REC-2	Current/Historic Rail Use	Various	Hoboken, Jersey City, Weehawken	Various	X	X	X	X
REC-3	Hudson River Sediments	NA	Hoboken, Jersey City, Weehawken	NA		X	X	X
REC-4A	NJDOT/NJ Transit Rail Yard	Various	Hoboken Jersey City	Block 139, Lots 1.01, 1.02, 2, and 3; Block 229, Lot 1(Hoboken); Block 7302, Lot 1 (Jersey City)	X	X	X	X
REC-4B								
REC-4C								
REC-5	Observer Highway Development	50 Bloomfield Street and 51 Garden Street	Hoboken	Block 186, Lot 1	X	X*	X*	X*
REC-6	Former Maxwell House Coffee	1101-1125 Hudosn Street	Hoboken	Block 261.01, Lot 1; Block 261.02, Lot 1; Block 261.03, Lot 1; and Block 261.04, Lot 1	X^	X	X	X
REC-7	Union Dry Dock & Repair Company	901 Sinatra Drive	Hoboken	Block 259, Lot 1		X		
REC-8	Dell Aquilla Site (aka Hoboken Cove)	1500 Hudosn Street	Hoboken	Block 126, Lot 5; Block 255, Lot 4.03; Block 264, Lot 3.01; Block 267, Lot 1; Block 268.01, Lots 1, 2, and 3; Block 269.02, Lot 1; and Block 269.04, Lot 1	X	X	X	X
REC-9	SGS US Testing	1409-1427 Park Avenue	Hoboken	Block 126, Lots 3, 6.01 and 7.01	X^		X	X
REC-10	Hoboken/ Weehawken Cove (aka Old Todd Shipyard)	1501 Park Avenue	Hoboken	Block 11, Lots 1, 2, 3, 5, & 6; Block 256, Lot 1.01; Block 267, Lot 1; and Block 269.04, Lot 1	X	X	X	X

TABLE 7-2
SUMMARY OF FINDINGS WITH DETAILED LOCATION INFORMATION

SITE ID		SITE ADDRESS			IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	STREET	MUNICIPALITY	BLOCK/LOT DESIGNATION	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE
REC-11	R. Neumann & Co.	300 Observer Highway	Hoboken	Block 2, Lots 5 & 12-26, and Block 2.01, Lots 1-10	X	X*	X*	X*
REC-12	Millenium Towers (aka Lifschultz Fast Freight)	677 Grove Street/ 850 Jersey Avenue	Jersey City	Block 6002, Lots 7, 8, & 10		X	X	X
REC-13A	Former Cocheo Brothers	1801-1831 Willow Avenue	Weehawken	Block 11, Lot 5 and Block 12, Lots 1, 7, and 8	X	X	X	X
REC-13B								
REC-14	Hoboken DPW	256 Observer Highway	Hoboken	Block 1, Lot 1	X	X*	X*	X*
REC-15A	International Bus Service and Burlington Coat Factory	1501-1507 Clinton Street	Hoboken	Block 125, Lot 7; Block 131, Lots 1-32; Block 133, Lots 1-5 & 7-17; and Block 134, Lot 3.02	X	X	X	X
REC-15B		1502-1530 Willow Avenie						
REC-16	Hoboken Service Center/ Amoco Station	425 Newark Street	Hoboken	Block 2, Lot 1			X*	X*
REC-17	Former Service Station	150 14th Street	Hoboken	Block 255, Lot 2	X^		X	X
REC-18	Cognis Corporaiton	12th Street	Hoboken	Block 107, Lot 1 and Block 113, Lot 1	X	X	X	X
REC-19	Poggi Press	1501-1531 Adams Street	Hoboken	Block 130, Lots 1-32	X	X	X	X
REC-20	American Eagle Magnesium and Aluminum Corp.	1316 Adams Street	Hoboken	Block 114, Lots 1, 11, 14.02, & 20	X	X	X	X
REC-21	Tarragon Corp.	1024-1030 Adams Street	Hoboken	Block 100, Lot 10	X	X	X	X
REC-22	Atlantic Steamers Suppply Co.	1100-1118 Adams Street	Hoboken	Block 104, Lot 1.01	X	X	X	X

TABLE 7-2
SUMMARY OF FINDINGS WITH DETAILED LOCATION INFORMATION

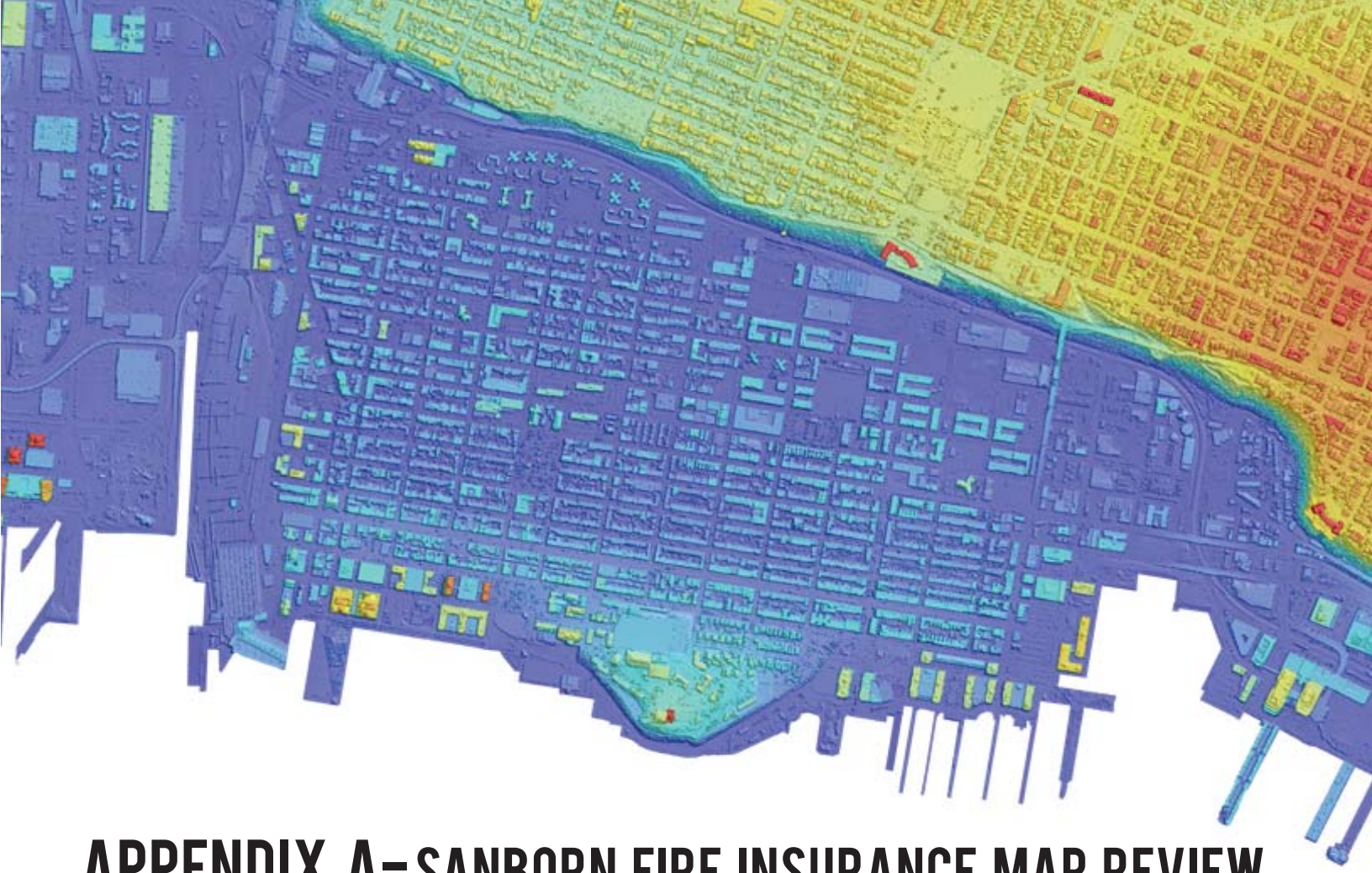
SITE ID		SITE ADDRESS			IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	STREET	MUNICIPALITY	BLOCK/LOT DESIGNATION	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE
REC-23	Tarragon Corp.	1101-1111 Madison Street 1100-1110 Jefferson Street	Hoboken	Block 103, Lots 1.01 & 27.01	X	X	X	X
REC-24	1405 Clinton Street	1405 Clinton Street	Hoboken	Block 123, Lot 1.01	X	X	X	X
REC-25	Former Ferguson Propeller, Inc.	1132 Clinton Street	Hoboken	Block 151, Lot 1 and Block 156, Lot 6	X	X	X	X
REC-26	Hoboken Coal Gas; Cumberland Farms/Gulf Station	1200 Clinton Street; 1316-1330 Willow Avenue	Hoboken	Block 110, Lot 1 and Block 116, Lots 1.01 & 1.02	X	X	X	X
REC-27	PSE&G Vault Expansion Project	In Front of 1331 Grand Street	Hoboken	Block 141, Lot 12.01	X	X	X	X
REC-28	5-15 Church Towers	5-15 Church Towers	Hoboken	Block 62, Lot 1; Block 71, Lot 1; and Block 157, Lot 1	X	X	X	X
REC-29	Demerest School	400-414 Bloomfield Street	Hoboken	Block 191, Lot 1	X	X	X	X
REC-30	Harrison Realty Associates	600 Harrison Street	Hoboken	Block 72, Lot 1	X	X	X	X
REC-31	Grand Street Condominiums	1200 Grand Street	Hoboken	Block 109 114, Lot 1	X	X	X	X
REC-32	Grand Adams Apartments	300 Grand Street	Hoboken	Block 51, Lots 1-9 & 26-35	X	X	X	X
REC-33	Grand Street Mercury	720-732 Grand Street	Hoboken	Block 85, Lots 14, 15.02, 15.05, 15.06, 15.07, & 15.08	X	X	X	X
REC-34	Triboro Hardware	812 Grand Street	Hoboken	Block 91, Lots 1.02 & 2	X	X	X	X
REC-35	Interboro Recycling	1001-1015 & 1114 Madison Street, 1000-1002 & 1024-1030 Jefferson Street	Hoboken	Block 99, Lot 1	X	X	X	X
REC-36	1100-1114 Madison Street & 1101-1113 Monroe Street	1100-1114 Madison Street & 1101-1113 Monroe Street	Hoboken	Block 102, Lots 1	X	X	X	X

TABLE 7-2
SUMMARY OF FINDINGS WITH DETAILED LOCATION INFORMATION

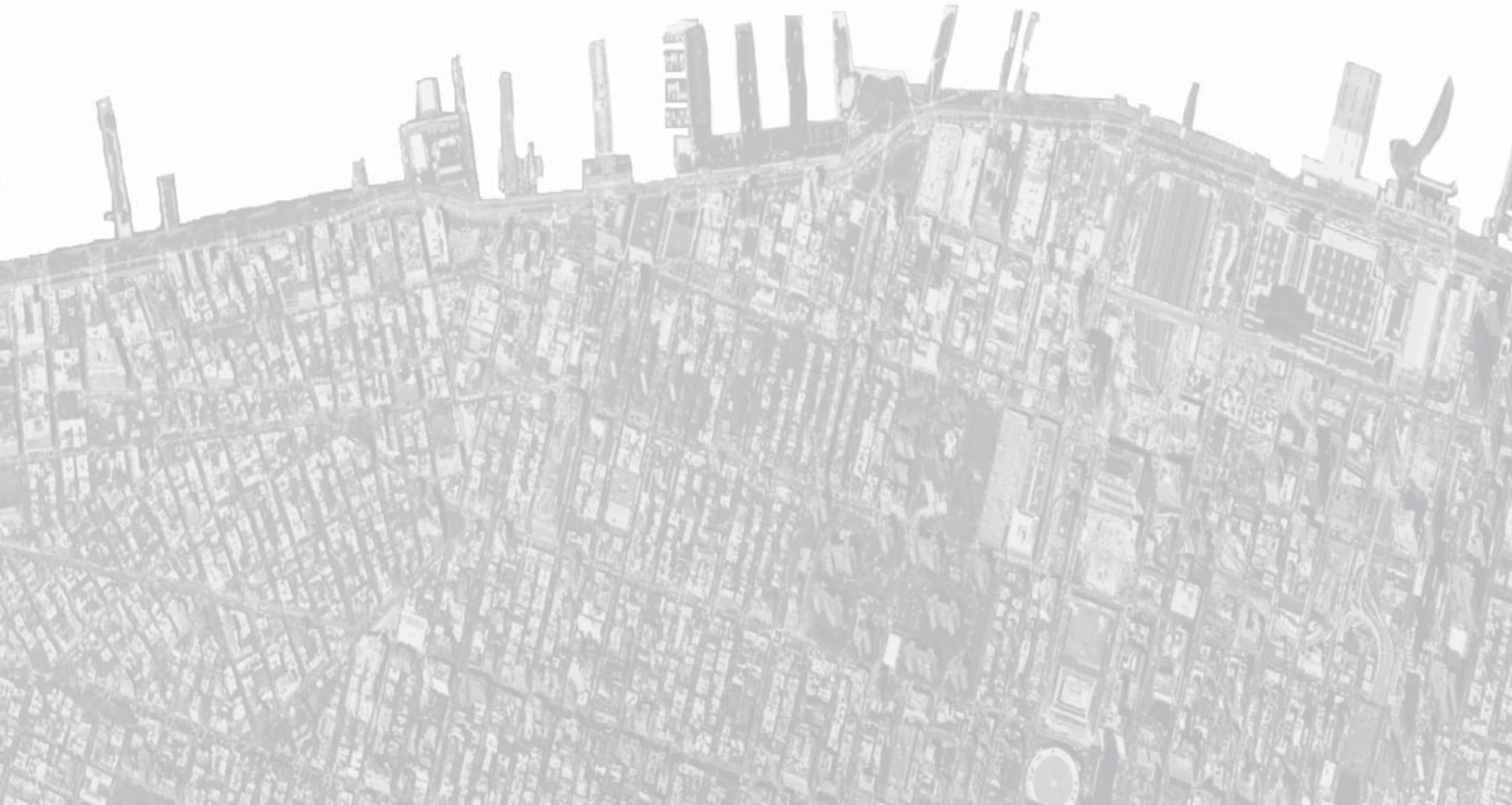
SITE ID		SITE ADDRESS			IMPACTS TO BUILD ALTERNATIVES			
REC ID	NAME	STREET	MUNICIPALITY	BLOCK/LOT DESIGNATION	WITHIN 100 FT OF DSD FEATURES	WITHIN 100 FT OF ALT 1 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 2 LIMITS OF DISTURBANCE	WITHIN 100 FT OF ALT 3 LIMITS OF DISTURBANCE
REC-37	Universal Folding Box Co.	Madison Street and 13th Street	Hoboken	Block 106, Lot 1 and Block 111, Lots 1 & 1.01	X	X	X	X
REC-38	Levelor Lorentzen, Inc.	700-720 Monroe Street	Hoboken	Block 80, Lots 1.01 & 10.01; Block 81, Lots 2.01 & 3.01; Block 82, Lot 3; and Block 87, Lot 1.01	X	X	X	X
REC-39	301 Newark Street	301 Newark Street	Hoboken	Block 2.01, Lots 5 & 6	X	X	X	X
REC-40	Metro Web Corporation	1420-1424 Willow Avenue and 1427 Clinton Street	Hoboken	Block 123, Lots 7-14	X	X	X	X
REC-41	Albee Services	410 8th Street	Hoboken	Block 91, Lot 1.01	X	X	X	X
REC-42	LMT Steel Products, Inc.	551 11th Street	Hoboken	Block 94, Lot 1	X	X	X	X
REC-43	Jefferson Street Properties	1515-1530 Jefferson Street	Hoboken	Block 128, Lot 17	X	X	X	X
REC-44	Haulaway Inc.	1417-1429 Adams Street	Hoboken	Block 121, Lots 7-13 & 18	X	X	X	X
REC-45	1032-1040 Grand Street	1032-1040 Grand Street	Hoboken	Block 150, Lot 3	X	X	X	X
REC-46	Ehrlich Trucking	700 First Street	Hoboken	Block 25, Lot 1	X	X	X	X
REC-47	Irving's Servie Center	701-703 First Avenue	Hoboken	Block 11, Lots 4-9	X	X	X	X
REC-48	Parcel R208 - NJ Transit	77 West 18th Street	Weehawken	Block 2, Lot 3 (Weehawken); Block 142, Lot 1; Block 143, Lot 2; Block 136, Lot 6.02 (Hoboken)	X	X	X	X
REC-49	Singer Property	3 and 4 West 18th Street	Weehawken	Block 2, Lot 2; Block 143, Lot 3; Block 144, Lots 2-19; Block 145, Lots 3, 4, 10, & 11	X	X	X	X
REC-50	Digital Realty Trust	300 Boulevard East	Weehawken	Block 34.03, Lot 11.01			X	X

* Option 2 only
^ Alternatives 2 and 3 only

Source: Dewberry, 2015-2017



APPENDIX A–SANBORN FIRE INSURANCE MAP REVIEW (MAPS ON COMPACT DISC) AND SANBORN AREAS KEY MAP



APPENDIX A
SANBORN REVIEW INLAND FOR PROJECT AREAS

YEAR	AREA 1	AREA 2	AREA 3	AREA 4
	(8-GAR (TD8-GAR), 4-OBS (TD4-OBS)	(T1-NEW, 14-NEW, 15-NEW)	(T3-OBS, T10-ADM, T2-NEW ,T3-NEW, T5-NEW, 13-NEW)	(T4-HAR, T5-OBS, T6-OBS, T7-OBS, T6-NEW)
1885	**No Coverage**	**No Coverage**	**No Coverage**	**No Coverage**
1887	**No Coverage**	**No Coverage**	**No Coverage**	**No Coverage**
1891	Area of 8-GAR consists of unlabeled multi-story structures presumed to be residential. Area of 4-OBS consists of Lehman & Clark, leather goods manufacturing.	The area of 15-NEW consists of undeveloped lots, some unlabeled structures, an iron yard, carriage trimming, paint shop, blacksmith, and stable. The area of 14-NEW consists of mostly undeveloped lots. The area of T1-NEW is a lumber yard with lumber sheds.	The area of T2-NEW, T3-NEW, and 13-NEW consists of residential lots. Area of T3-OBS consists of a brewery. Area of T10-ADM consists of unlabeled multi-story structures presumed to be residential. Area of T5-NEW consists of a wheelwright.	Area of T5-OBS consists of unlabeled multi-story structures presumed to be residential. Area of T6-NEW is undeveloped. No coverage for areas of T4-HAR and T7-OBS.
1900	**No Coverage**	**No Coverage**	**No Coverage**	**No Coverage**
1906	**No Coverage**	**No Coverage**	**No Coverage**	**No Coverage**
1910	**No Coverage**	**No Coverage**	**No Coverage**	**No Coverage**
1936	**No Coverage**	**No Coverage**	**No Coverage**	**No Coverage**
1937	Area of 4-OBS contains a 4-story vacant brick building with an elevator. Area of 8-GAR contains 4- and 5- story flats.	Area of T1-NEW is a gas filling station containing 3 gas tanks. Area of 14-NEW is the City of Hoboken Relief and Welfare Depts. Area of 15-NEW contains a mix of dwellings and stores.	Area of T3-OBS is occupied by a cooper shop, a private truck garage, and an area identified as live poultry. Area of T10-ADM is a store. Area of T2-NEW is a store and office for a garage. Area of T3-NEW is stores and a wagon shed. Area of T5-NEW is a store and dwelling.	Areas of T4-HAR and T7-OBS are undeveloped but near the elevated North Hudson County Railway. T6-OBS is at the location of a store that is situated beneath the elevated North Hudson County Railway. Area of T5-OBS is a store and a building of flats. Area of T6-NEW is occupied by the machine shop for the Seaboard Marine Repair Co.
1950	**No Coverage**	**No Coverage**	**No Coverage**	**No Coverage**
1951	Area of 4-OBS is within a machine repair and warehouse building. Area of 8-GAR is apartments and flats.	Area of T1-NEW is a gas filling station containing 3 gas tanks. Area of 14-NEW is the City of Hoboken Relief and Welfare Depts. Area of 15-NEW contains a mix of dwellings and stores.	Areas of T10-ADM, T5-NEW, T3-OBD, T3-NEW, and T2-NEW are all undeveloped with no buildings or notations. Area of 13-NEW is within a filling station.	Area of T5-OBS is apartments with neighboring store and undeveloped property. Area of T6-NEW is within Wm Rebuth Inc. steel warehouse. Areas of T4-HAR and T7-OBS are undeveloped but near the elevated North Hudson County Railway. Area of T6-OBS is a store that is situated beneath the elevated North Hudson County Railway.
1979	Area of 4-OBS is identified as a public or institutional building. Area of 8-GAR is undeveloped with neighboring undeveloped lots.	Area of T1-NEW is within the vacant portion of a lot with a commercial building with neighboring vacant building and store. Area of 14-NEW is lofts. Area of 15-NEW is occupied by a store with neighboring stores.	Areas of T10-ADM, T3-OBD, T3-NEW, T3-NEW and 13-NEW are all undeveloped with no buildings or notations. Area of 13-NEW is within a filling station.	Area of T5-OBS is apartments with neighboring store and paved parking area. Area of T6-NEW is within a property being used for auto and boat sales. Areas of T4-HAR and T7-OBS are undeveloped; the elevated North Hudson County Railway is no longer present. Area of T6-OBS is a commercial building.
1988	Area of 4-OBS is identified as a public or institutional building. Area of 8-GAR is undeveloped with neighboring undeveloped lots.	Area of T1-NEW is within the vacant portion of a lot with vacant formerly commercial building with neighboring vacant building and vacant store. Area of 14-NEW is apartments. Area of 15-NEW is occupied by a store with a neighboring vacant property and stores.	Areas of T10-ADM and T5-NEW are within a public or institutional property identified as Hudson County O.E.T. Areas of T2-NEW, T3-NEW, and T3-OBS are within parking lots. Area of 13-NEW is currently undeveloped with no buildings.	Area of T5-OBS is vacant former apartments with neighboring vacant store and paved parking area. Area of T6-NEW is within a residential apartment building. Areas of T4-HAR and T7-OBS are undeveloped and the former elevated North Hudson County Railway is no longer present. Area of T6-OBS is a commercial building.
2006	Area of 4-OBS is identified as a public or institutional building. Area of 8-GAR is undeveloped with neighboring undeveloped lots.	Area of T1-NEW is within the vacant portion of a lot with vacant formerly commercial building with neighboring mixed use commercial and residential buildings. Area of 14-NEW is apartments. Area of 15-NEW is occupied by a store with a neighboring vacant property and stores.	Areas of T10-ADM and T5-NEW are within a parking lot with neighboring commercial buildings. Areas of T2-NEW and T3-NEW are residential buildings. Area of T3-OBS is apartments. Area of 13-NEW is currently undeveloped with no buildings.	Area of T5-OBS is apartments with neighboring commercial and parking lot. Area of T6-NEW is within a residential apartment building. Area of T4-HAR is a parking lot. Area of T7-OBS is undeveloped and the former elevated North Hudson County Railway is no longer present. Area of T6-OBS is a commercial building.
Note:	Labels denoted in red identify feature IDs that were added to this table in April 2016. Some are new locations, but those in parentheses are renamed from features present in the early design (October 2015) as designated in black.			

APPENDIX A
SANBORN REVIEW INLAND FOR PROJECT AREAS

YEAR	AREA 5 (T1-1ST, T2-2ST, T4-2ST)	AREA 6 (T8-JEF, T1-2ST, T4-3ST)	AREA 7 (T7-JEF, T1-3ST, T3-3ST, T9-ADM)
1885	No Coverage	No Coverage	No Coverage
1887	No Coverage	No Coverage	No Coverage
1891	No Coverage	Area of T1-2ST consists of unlabeled multi-story structures presumed to be residential. Area of T4-3ST is undeveloped. No Coverage for area of T8-JEF.	Area of T7-JEF amd T3-3ST are undeveloped. Area of T1-3ST consists of unlabeled multi-story structures presumed to be residential. Area of T9-ADM is Keuffel & Esser Co. factory (mfg of precision engineering instruments).
1900	No Coverage	No Coverage	No Coverage
1906	No Coverage	No Coverage	No Coverage
1910	No Coverage	No Coverage	No Coverage
1936	No Coverage	No Coverage	No Coverage
1937	Area of T1-1ST is residential with neighboring garages. Area of T2-2ST is a flat with storage area. Area of T4-2ST is a trucking garage.	Area of T8-JEF is the Hoboken Recreation Building. Area of T1-2ST is a store with neighboring flats and stores. Area of T4-3ST is a store with bake house and neighboring flats.	Areas of T3-3ST and T7-JEF are occupied by the Hoboken Iron Works /Fagan Iron Wks. (owner) with neighboring flats and store. Area of T1-3ST is a store with neighboring flats and garage. Area of T9-ADM is occupied by stock rooms, receiving and shipping for the Keuffel & Esser Co. (mfg of precision engineering equipment).
1950	No Coverage	No Coverage	No Coverage
1951	Area of T1-1ST is undeveloped with neighboring garages. Area of T2-2ST is identified as storage with neighboring flats. Area of T4-2ST is within a motor freight station.	Area of T8-JEF is the Hoboken Recreation Building. Area of T1-2ST is a store with neighboring apartments and stores. Area of T4-3ST is apartments with neighboring flats and stores.	Areas of T3-3ST and T7-JEF are occupied by a playground with neighboring residential use, tin shop, and bake shop. Area of T1-3ST is a store with neighboring apartments/flats and building identified as provisions. Area of T9-ADM is occupied by stock rooms, receiving and shipping for the Keuffel & Esser Co. (mfg of precision engineering equipment).
1979	Area of T1-1ST is within a filling station. Area of T2-2ST is identified as storage with neighboring flats. Area of T4-2ST is within an undeveloped property with neighboring manufacturing.	Area of T8-JEF is the Hoboken Day Care Center. Area of T1-2ST is a store with neighboring apartments and stores. Area of T4-3ST is apartments with neighboring stores and undeveloped lots.	Areas of T3-3ST and T7-JEF are occupied by a playground with neighboring Senior Citizens Housing apartments. Area of T1-3ST is a store with neighboring apartments/flats and building identified as provisions. Area of T9-ADM is occupied by a property identified as factory outlet (owners).
1988	Area of T1-1ST is within an auto repair property. Area of T2-2ST is identified as storage with neighboring flats. Area of T4-2ST is within an undeveloped property with neighboring manufacturing.	Area of T8-JEF is the Hoboken Day Care Center. Area of T1-2ST is a store with neighboring apartments and stores. Area of T4-3ST is apartments with neighboring commercial building and auto garage.	Areas of T3-3ST and T7-JEF are occupied by a playground with neighboring Senior Citizens Housing apartments. Area of T1-3ST is a store with neighboring apartments/flats and building identified as provisions. Area of T9-ADM is occupied by a property identified as residential but retains the same layout as previous uses, indicating it is renovated and repurposed for residential use.
2006	Area of T1-1ST is within an auto repair property. Area of T2-2ST is residential. Area of T4-2ST is within an open deck parking garage with neighboring Allude Pump Corp.'s repair shop.	Area of T8-JEF is the Hoboken Day Care Center. Area of T1-2ST is a store with neighboring apartments and auto garage. Area of T4-3ST is apartments with neighboring residential building and auto garage.	Areas of T3-3ST and T7-JEF are occupied by a playground with neighboring Senior Citizens Housing apartments. Area of T1-3ST is a commercial building with neighboring apartments/flats and open deck parking. Area of T9-ADM is occupied by a property identified as residential but retains the same layout as previous uses, indicating it is renovated and repurposed for residential use.
Note:			

APPENDIX A
SANBORN REVIEW INLAND FOR PROJECT AREAS

YEAR	AREA 8 (T1-4ST, 12-4ST, T1-GAR, T2-BLM)	AREA 9 (1-4ST (TD1-4ST), 3-4ST, T2-4ST, 14-CLA (TD14-CLA), 1-WIL (TD1-WIL))	AREA 10 (T3-4ST, T4-4ST, T17-MAD)
1885	**No Coverage**	**No Coverage**	**No Coverage**
1887	**No Coverage**	**No Coverage**	**No Coverage**
1891	Area of T2-BLM is residential and a carpenter's workshop. Area of T1-4ST is residential and a carpenter's workshop. Area of T1-GAR is residential with a carpenter and a wheelright workshops. Area of 12-4ST is identified as Church Square with no buildings or other notations.	Area of 1-WIL and 3-4ST is identified as Church Square with no buildings or other notations. Area of 1-4ST is part of St. Mary's Hospital property. Area of 14-CLA and T2-4ST is residential.	Area of T3-4ST is mostly undeveloped with one residence at the corner. Area of T7-MAD is residential and a macaroni factory. Area of T4-4ST is residential.
1900	**No Coverage**	**No Coverage**	**No Coverage**
1906	**No Coverage**	**No Coverage**	**No Coverage**
1910	**No Coverage**	**No Coverage**	**No Coverage**
1936	**No Coverage**	**No Coverage**	**No Coverage**
1937	Areas of T1-4ST, T1-GAR, and T2-BLM are occupied by a High School. Area of 12-4ST is the Church Square with no buildings or other notations.	Area of 1-WIL and 3-4ST is identified as Church Square with no buildings or other notations. Area of 1-4ST is the Nurse's Home for St. Mary's Hospital. Area of 14-CLA and T2-4ST is stores with neighboring flats.	Area of T3-4ST is stores with neighboring flats and garage. Area of T4-4ST is stores. Area of T17-MAD is stores with neighboring beer storage.
1950	**No Coverage**	**No Coverage**	**No Coverage**
1951	Areas of T1-4ST, T1-GAR, and T2-BLM are occupied by a High School. Area of 12-4ST is the Church Square with no buildings or other notations.	Area of 1-WIL and 3-4ST is identified as Church Square with no buildings or other notations. Area of 1-4ST is the Nurse's Home for St. Mary's Hospital. Area of 14-CLA and T2-4ST is stores with neighboring flats and apartments.	Area of T3-4ST is a club with neighboring apartments and garage. Area of T4-4ST is a store. Area of T17-MAD is undeveloped with neighboring garage and truck garage.
1979	Areas of T1-4ST, T1-GAR, and T2-BLM are occupied by Demarest Jr. High School. Area of 12-4ST is the Church Square with no buildings or other notations.	Areas of 1-WIL and 3-4ST are identified as Church Square with no buildings or other notations. Area of 1-4ST is part of St. Mary's Hospital. Area of 14-CLA and T2-4ST is adjacent to Building 1 of a property identified as Church Towers Apartments surrounded by parking.	Area of T3-4ST is a club with neighboring apartments and garage. Area of T4-4ST is a store. Area of T17-MAD is parking with neighboring loft and undeveloped property.
1988	Areas of T1-4ST, T1-GAR, and T2-BLM are occupied by A.J. Demarest Jr. High School. Area of 12-4ST is the Church Square with no buildings or other notations.	Areas of 1-WIL and 3-4ST are identified as Church Square with no buildings or other notations. Area of 1-4ST is part of St. Mary's Hospital. Area of 14-CLA and T2-4ST is adjacent to Building 1 of a property identified as Church Towers Apartments surrounded by parking.	Area of T3-4ST is a club with neighboring apartments and garage. Area of T4-4ST is a store. Area of T17-MAD is parking with neighboring manufacturing and undeveloped property.
2006	Areas of T1-4ST, T1-GAR, and T2-BLM are occupied by A.J. Demarest Jr. High School. Area of 12-4ST is the Church Square with no buildings or other notations.	Areas of 1-WIL and 3-4ST are identified as Church Square with no buildings or other notations. Area of 1-4ST is part of St. Mary's Hospital. Area of 14-CLA and T2-4ST is adjacent to Building 1 of a property identified as Church Towers Apartments surrounded by parking.	Area of T3-4ST is a club with neighboring apartments and garage. Area of T4-4ST is a store. Area of T17-MAD is apartments.
Note:			

APPENDIX A
SANBORN REVIEW INLAND FOR PROJECT AREAS

YEAR	AREA 11 (T5-JAC, T5-5ST, T6-5ST, T7-5ST)	AREA 12 (T1-MAR, T2-MAR, T3-MAR, T6-4ST)	AREA 13 (T1-HAR, T3-JAC, T4-6ST)
1885	**No Coverage**	**No Coverage**	**No Coverage**
1887	**No Coverage**	**No Coverage**	**No Coverage**
1891	Areas of T1-5ST and T6-5ST are undeveloped. No coverage for T5-JAC and T5-5ST.	Area of T1-MAR is undeveloped. No coverage for T2-MAR and T3-MAR.	Areas of T1-HAR, T3-JAC, and T4-6ST are undeveloped.
1900	**No Coverage**	**No Coverage**	**No Coverage**
1906	**No Coverage**	**No Coverage**	**No Coverage**
1910	**No Coverage**	**No Coverage**	**No Coverage**
1936	**No Coverage**	**No Coverage**	**No Coverage**
1937	Area of T5-JAC is a truck garage. Area of T5-5ST is a store with neighboring garage and bake shop. Area of T6-5ST is a store with neighboring garage. Area T7-5ST is a dwelling with neighboring garage and areas indicated as "junk".	Areas of T1-MAR and T3-MAR are undeveloped. No coverage for area of T2-MAR.	Areas of T1-HAR and T3-JAC are undeveloped. Area of T4-6ST is occupied by flats with neighboring tin shop.
1950	**No Coverage**	**No Coverage**	**No Coverage**
1951	Area of T5-JAC is a motor freight station. Area of T5-5ST is a store with neighboring garage and dwelling. Area of T6-5ST is a store with neighboring auto laundry. Area T7-5ST is a dwelling with neighboring machine shop and area indicated as junk shop.	Areas of T1-MAR, T2-MAR, and T3-MAR are all within the Andrew Jackson Gardens Apartments.	Area of T1-HAR is undeveloped. Area of T3-JAC is within the Andrew Jackson Gardens Apartments. Area of T4-6ST is occupied by a store with neighboring flats and tin shop.
1979	Area of T5-JAC is within an undeveloped area. Area of T5-5ST is an auto garage with neighboring dwelling and apartments. Area of T6-5ST is a store with neighboring undeveloped property. Area T7-5ST is undeveloped with neighboring machine shop and area indicated as junk shop.	Areas of T1-MAR, T2-MAR, and T3-MAR are all within the Andrew Jackson Gardens Apartments.	Area of T1-HAR is undeveloped. Area of T3-JAC is within the Andrew Jackson Gardens Apartments. Area of T4-6ST is occupied by a store with neighboring flats and tin shop.
1988	Area of T5-JAC is within an undeveloped area. Area of T5-5ST is an auto garage with neighboring dwelling and flat. Area of T6-5ST is a store with neighboring undeveloped property. Area T7-5ST is undeveloped with neighboring machine shop, offices, and area indicated as junk shop.	Areas of T1-MAR, T2-MAR, and T3-MAR are all within the Andrew Jackson Gardens Apartments.	Area of T1-HAR is undeveloped. Area of T3-JAC is within the Andrew Jackson Gardens Apartments. Area of T4-6ST is occupied by flats and a vacant store with neighboring residential and auto garages.
2006	Area of T5-JAC is within an undeveloped area. Area of T5-5ST is an auto garage with neighboring flat and residential. Area of T6-5ST is a store with neighboring undeveloped property. Area T7-5ST is undeveloped with neighboring commercial building.	Areas of T1-MAR, T2-MAR, and T3-MAR are all within the Andrew Jackson Gardens Apartments.	Area of T1-HAR is undeveloped. Area of T3-JAC is within the Andrew Jackson Gardens Apartments. Area of T4-6ST is occupied by flats and a store with neighboring residential use.
Note:			

APPENDIX A
SANBORN REVIEW INLAND FOR PROJECT AREAS

YEAR	AREA 14 (T4-5ST, T15-MAD, T16-MAD, T2-6ST, T3-6ST)	AREA 15 (T8-ADM, T1-5ST, T2-5ST)	AREA 16 (T6-GND, T1-6ST, 23-CLA (TD23-CLA))
1885	No Coverage	No Coverage	No Coverage
1887	No Coverage	No Coverage	No Coverage
1891	Areas of T4-5ST, T15-MAD, T16-MAD, T2-6ST, and T3-6ST are all undeveloped.	Area of T8-ADM consists of an unlabeled single-story structure presumed to be residential with a garage. Areas of T1-5ST and T2-5ST are undeveloped.	Area of T6-GND consists of stables. Area of T1-6ST is within a vacant lot and an undeveloped area of an adjacent lot. Area of 23-CLA is also within undeveloped areas.
1900	No Coverage	No Coverage	No Coverage
1906	No Coverage	No Coverage	No Coverage
1910	No Coverage	No Coverage	No Coverage
1936	No Coverage	No Coverage	No Coverage
1937	Area of T4-5ST is stores. Area of T15-MAD and T16-MAD are undeveloped. Area of T2-6ST is a garage on the 1st floor, a hall on the 2nd floor and dwelling on the 3rd floor. Area of T3-6ST is undeveloped with a neighboring store.	Area of T8-ADM and T2-5ST are within Public School No. 3. Area of T1-5ST is occupied by stores.	Area of T6-GND is occupied by a mix of stores and flats. Area of T1-6ST is an office for a store with a neighboring dwelling. Area of 23-CLA is a garage with neighboring dwelling and undeveloped property.
1950	No Coverage	No Coverage	No Coverage
1951	Area of T4-5ST is an undertaker with neighboring stores. Area of T15-MAD and T16-MAD are undeveloped. Area of T2-6ST is a garage on the 1st floor and dwelling on the 3rd floor. Area of T3-6ST is undeveloped with a neighboring store.	Area of T8-ADM and T2-5ST are within Public School No. 3. Area of T1-5ST is occupied by stores, with a neighboring clothing mfg.	Area of T6-GND is occupied by an auto repair with neighboring stores and flats. Area of T1-6ST is a store with a neighboring dwelling and auto repair. Area of 23-CLA is an auto repair with neighboring dwelling and undeveloped property.
1979	Area of T4-5ST is undeveloped with neighboring stores. Area of T15-MAD and T16-MAD are undeveloped. Area of T2-6ST is a garage on the 1st floor and dwelling on the 3rd floor. Area of T3-6ST is identified as 9 cars with neighboring 4 residences.	Area of T8-ADM and T2-5ST are within Daniel P Keely School, Public School No. 3. Area of T1-5ST is occupied by a store, with a neighboring Post Office.	Areas of T6-GND, T1-6ST, and 23-CLA are all within a parking area north of Building 2 of the Church Towers Apartments.
1988	Area of T4-5ST is within vacant store property with neighboring stores. Area of T15-MAD is within a playground. Area of T16-MAD is within a parking lot. Areas of T2-6ST and T3-6ST are apartments with neighboring residential and dwelling use.	Area of T8-ADM and T2-5ST are within Daniel P Keely School, Public School No. 3. Area of T1-5ST is occupied by a store, with a neighboring Post Office.	Areas of T6-GND, T1-6ST, and 23-CLA are all within a parking area north of Building 2 of the Church Towers Apartments.
2006	Area of T4-5ST is within a currently undeveloped lot with neighboring residential and commercial use. Area of T15-MAD is an apartment building. Area of T16-MAD is within a parking lot. Areas of T2-6ST and T3-6ST are apartments with neighboring residential and dwelling use.	Area of T8-ADM and T2-5ST are within a residential complex identified as The Castle. Area of T1-5ST is occupied by a store, with a neighboring Post Office.	Areas of T6-GND, T1-6ST, and 23-CLA are all within a parking area north of Building 2 of the Church Towers Apartments.
Note:			

APPENDIX A
SANBORN REVIEW INLAND FOR PROJECT AREAS

YEAR	AREA 17 (6-WIL (TD6-WIL), 7-WIL, 12-WIL)	AREA 18 (T5-GND)	AREA 19 (T2-JAC, T1-7ST, T2-7ST, T6-MON, T7-MON)
1885	**No Coverage**	**No Coverage**	**No Coverage**
1887	**No Coverage**	**No Coverage**	**No Coverage**
1891	Area of 6-WIL is Church Square. Area of 7-WIL consists of unlabeled multi-story structures presumed to be residential. Area of 12-WIL is within an undeveloped area of the Church of the Holy Innocents property.	Area of T5-GND has a Grand Stand.	No coverage for T7-MON. Areas of T6-MON, 12-JAC, and T2-7ST are undeveloped.
1900	**No Coverage**	**No Coverage**	**No Coverage**
1906	**No Coverage**	**No Coverage**	**No Coverage**
1910	**No Coverage**	**No Coverage**	**No Coverage**
1936	**No Coverage**	**No Coverage**	**No Coverage**
1937	Area of 6-WIL is Church Square. Area of 7-WIL is a stock room on the 1st floor and manufacturing on the upper floors for the American Lead Pencil Co. Area of 12-WIL is the Holy Innocents Episcopal Church.	Area of T5-GND is within an undeveloped area of the Progressive Silk Finishing Co.	Area of T2-7ST is undeveloped. Area of T2-JAC is undeveloped with neighboring coal yard occupying several lots along Jackson Street. Area of T7-MON is the Carp'r and Slate Dept. of The New York Silicate Bookslate Co. Area of T6-MON is a vacant building with neighboring storage building and Ferguson Bros. Mfg Co. furniture warehouse.
1950	**No Coverage**	**No Coverage**	**No Coverage**
1951	Area of 6-WIL is Church Square. Area of 7-WIL is a stock room on the 1st floor and manufacturing on the upper floors for the American Lead Pencil Co. Area of 12-WIL is the Holy Innocents Episcopal Church.	Area of T5-GND is within the finishing or chemical storage area of the Progressive Silk Finishing Co.	Area of T2-7ST is undeveloped. Area of T2-JAC is undeveloped with neighboring steel drum storage yard occupying several lots along Jackson Street. Area of T7-MON is the Carp'r and Slate Dept of The New York Silicate Bookslate Co. Area of T6-MON is near a storage building for the Ferguson Bros. Mfg Co. furniture warehouse.
1979	Area of 6-WIL is Church Square. Area of 7-WIL is within an undeveloped portion east of Building 3 of the Church Towers Apartments. Area of 12-WIL is the Holy Innocents Episcopal Church.	Area of T5-GND is within a store building with adjacent parking.	Area of T2-7ST is undeveloped. Area of T2-JAC is undeveloped with neighboring auto junk yard occupying several lots along Jackson Street. Area of T7-MON is within the St. Annas Elementary School. Area of T6-MON is within a storage portion of the Levolor Lorentzen Hardware Manufacturing.
1988	Area of 6-WIL is Church Square. Area of 7-WIL is within an undeveloped portion east of Building 3 of the Church Towers Apartments. Area of 12-WIL is the Holy Innocents Episcopal Church.	Area of T5-GND is within a store building with adjacent parking.	Area of T2-7ST is undeveloped. Area of T2-JAC is undeveloped with neighboring auto junk yard occupying several lots along Jackson Street. Area of T7-MON is within the St. Annas Elementary School. Area of T6-MON is within a storage portion of the Levolor Lorentzen Hardware Manufacturing.
2006	Area of 6-WIL is Church Square. Area of 7-WIL is within an undeveloped portion east of Building 3 of the Church Towers Apartments. Area of 12-WIL is the Holy Innocents Episcopal Church.	Area of T5-GND is within a store building with adjacent parking.	Areas of T2-7ST and T2-JAC are currently undeveloped. Area of T7-MON is within the St. Annas Elementary School. Area of T6-MON is within the office and manufacturing portion of the Levolor Lorentzen Hardware Manufacturing.
Note:			

YEAR	AREA 20 (T1-JAC)	AREA 21 (T1-8ST, T3-8ST, T4-8ST, T6-ADM, T7-ADM, T3-GND, T4-GND, 30-CLA (TD30-CLA))	AREA 22 (T1-9ST, T2-9ST)
1885	**No Coverage**	**No Coverage**	**No Coverage**
1887	**No Coverage**	**No Coverage**	**No Coverage**
1891	Area of T1-JAC is undeveloped.	Area of T4-8ST consists of the Reynolds Paper Mill. Areas of T3-8ST, T6-ADM, T3-GND, and 30-CLA are undeveloped. No coverage for T1-8ST, T4-GND, T7-ADM, and T4-8ST.	**No Coverage**
1900	**No Coverage**	**No Coverage**	**No Coverage**
1906	**No Coverage**	**No Coverage**	**No Coverage**
1910	**No Coverage**	**No Coverage**	**No Coverage**
1936	**No Coverage**	**No Coverage**	**No Coverage**
1937	Area of T1-JAC is near a factory building and a railroad spur.	Areas of T4-8ST and 30-CLA are undeveloped. Area of T7-ADM is a garage surrounded by undeveloped property. Areas of T6-ADM and T3-8ST are General Electric Vapor Lamp Co. (mfrs of lamps). Area of T3-GND is Shock-Gusmer Co. (mfrs of brewery equipment). Areas of T1-8ST and T4-GND are within the Shipping Dept. on the 1st floor of the Continental Baking Co.	Area of T1-9ST is residential. Area of T2-9ST is a store with neighboring residential dwellings.
1950	**No Coverage**	**No Coverage**	**No Coverage**
1951	Area of T1-JAC is within an undeveloped area near a railroad spur.	Area of T4-8ST is undeveloped. Area of T7-ADM is a garage surrounded by undeveloped property. Areas of T6-ADM and T3-8ST are Arr Jay Box Corporation (mfrs of paper boxes). Area of T3-GND is Shock-Gusmer Co. (mfrs of brewery equipment). Areas of T1-8ST and T4-GND are within the Shipping Dept on the 1st floor of the Continental Baking Co. Area of 30-CLA is a business with neighboring wire frame mfg and Engine House No. 6.	Area of T1-9ST is residential. Area of T2-9ST is a flat with neighboring residential dwellings.
1979	Area of T1-JAC is within a private garage with neighboring C.C. Casalino Fuel Service that contains a gas tank, healing oil pump, and 4 underground fuel oil tanks.	Area of T4-8ST is within the Christopher Columbus Gardens apartments. Area of T7-ADM is parking. Areas of T6-ADM and T3-8ST are Arr Jay Box Corporation (mfrs of paper boxes). Area of T3-GND is Hoboken High School. Areas of T1-8ST and T4-GND are within a building of unspecified use, other than Loft. Area of 30-CLA is within a commercial building.	Area of T1-9ST is residential. Area of T2-9ST is a flat with neighboring residential dwellings.
1988	Area of T1-JAC is within a private garage with neighboring C.C. Casalino Fuel Service that contains a gas tank, healing oil pump, and 4 underground fuel oil tanks.	Area of T4-8ST is within the Christopher Columbus Gardens apartments. Area of T7-ADM is parking. Areas of T6-ADM and T3-8ST are Arr Jay Box Corporation (mfrs of paper boxes). Area of T3-GND is Hoboken High School. Areas of T1-8ST and T4-GND are within a building of unspecified use, other than Loft. Area of 30-CLA is within a commercial building.	Area of T1-9ST is residential. Area of T2-9ST is a flat with neighboring residential dwellings.
2006	Area of T1-JAC is within a auto body building with neighboring unnamed property containing a gas tank, healing oil pump, and 4 underground fuel oil tanks.	Area of T4-8ST is within the Christopher Columbus Gardens apartments. Area of T7-ADM is parking. Areas of T6-ADM and T3-8ST are within a self storage building. Area of T3-GND is Hoboken High School. Areas of T1-8ST and T4-GND are within a building of unspecified use, other than Loft. Area of 30-CLA is within a commercial building.	Area of T1-9ST is dwelling. Area of T2-9ST is a flat with neighboring residential dwellings.
Note:			

APPENDIX A
SANBORN REVIEW INLAND FOR PROJECT AREAS

YEAR	AREA 23 (T5-ADM, T4-9ST, T5-9ST, T6-9ST)	AREA 24 (T7-9ST, T8-9ST, T10-MAD, T11-MAD, T12-MAD, T6-JEF)	AREA 25 (T2-MON, T3-MON,T8-MAD, T9-MAD, T5-JEF, T3-ADM)
1885	**No Coverage**	**No Coverage**	**No Coverage**
1887	**No Coverage**	**No Coverage**	**No Coverage**
1891	Areas of T5-ADM, T5-9ST, and T6-9ST are undeveloped. No coverage for area of T4-9ST.	Areas of T7-9ST, T8-9ST, T6-JEF, T10-MAD, T11-MAD, and T12-MAD are undeveloped.	All areas of T3-ADM, T5-JEF, T8-MAD, T9-MAD, T2-MON, and T3-MON are undeveloped.
1900	**No Coverage**	**No Coverage**	**No Coverage**
1906	**No Coverage**	**No Coverage**	**No Coverage**
1910	**No Coverage**	**No Coverage**	**No Coverage**
1936	**No Coverage**	**No Coverage**	**No Coverage**
1937	Areas of T4-9ST, T5-9ST, T6-9ST, and T5-ADM are all undeveloped.	Area of T12-MAD is identified as a truckman, with neighboring truck garage. Area of T7-9ST is a cooper shop with neighboring undeveloped properties. Areas of T6-JEF and T8-9ST are undeveloped. Areas of T10-MAD and T11-MAD are within the manufacturing area of the Hinde & Daunch Paper Co.	Area of T2-MON contains a brick chimney outside of the boiler room at The Hinde & Dauch Paper Co. Area of T9-MAD is identified as Peerless Rattan Co & US Rattan Co. Areas of T8-MAD and T8-9ST are undeveloped. Areas of T5-JEF and T3-ADM are within A. Beshar & Co. Inc. (a rug mfg with a weave house and warehouse).
1950	**No Coverage**	**No Coverage**	**No Coverage**
1951	Areas of T5-9ST, T6-9ST, and T5-ADM are all undeveloped. Area of T4-9ST is a store with neighboring stores, a garage, and dwelling.	Area of T12-MAD is undeveloped with neighboring truck garage. Area of T7-9ST is also undeveloped and surrounded by other undeveloped properties. Area of T6-JEF is undeveloped. Area of T8-9ST is within the plating area of Publications Corporation Alco-Gravure Division. Areas of T10-MAD and T11-MAD are within the manufacturing area of the Hinde & Daunch Paper Co.	Area of T2-MON contains a brick chimney outside of the boiler room at The Hinde & Dauch Paper Co. Area of T9-MAD is identified as Peerless Rattan Co & US Rattan Co. Area of T8-MAD is undeveloped. Areas of T5-JEF and T3-ADM are within Jacobs Bros. Seneca Mfg Co. (mfrs of child wearing apparel).
1979	Area of T4-9ST is within the Hoboken High School. Area of T5-9ST is within a parking lot. Areas of T6-9ST and T5-ADM are within the Christopher Columbus Gardens apartment property.	Areas of T12-MAD and T7-9ST are within a parking lot with neighboring police shooting range. Area of T6-JEF is south of the field house at the J.F Kennedy Stadium & Veterans Field. Area of T8-9ST is within the plating area of Publications Corporation Alco-Gravure Division. Areas of T10-MAD and T11-MAD are within the manufacturing area of the Hinde & Daunch Paper Co.	Area of T2-MON contains a brick chimney outside of the boiler room at The Hinde & Dauch Paper Co. Area of T9-MAD is within the loading platform of a paper warehouse. Area of T8-MAD is undeveloped. Area of T5-JEF is within Jacobs Bros. Seneca Mfg Co. (mfrs of child wearing apparel). Area of T3-ADM is within the White Metal Mfg. Co.
1988	Area of T4-9ST is within the Hoboken High School. Area of T5-9ST is within a parking lot. Areas of T6-9ST and T5-ADM area within the Christopher Columbus Gardens apartment property.	Areas of T12-MAD and T7-9ST are within a parking lot with neighboring truck garage. Area of T6-JEF is south of the field house at the J.F Kennedy Stadium & Veterans Field. Area of T8-9ST is within the plating area of an unnamed printing business. Areas of T10-MAD and T11-MAD are within the manufacturing area of an unnamed building.	Area of T2-MON contains a brick chimney outside of the boiler room at an unnamed manufacturing building. Area of T9-MAD is within the stock room of an unnamed manufacturing building. Area of T8-MAD is undeveloped. Area of T5-JEF is within Jacobs Bros. Seneca Mfg Co. (mfrs of child wearing apparel). Area of T3-ADM is within the White Metal Mfg. Co.
2006	Area of T4-9ST is within the Hoboken High School. Area of T5-9ST is apartments with parking on first floor. Areas of T6-9ST and T5-ADM area within the Christopher Columbus Gardens apartment property.	Areas of T12-MAD and T7-9ST are within a parking lot with neighboring police shooting range. Area of T6-JEF is south of the field house at the J.F Kennedy Stadium & Veterans Field. Area of T8-9ST is within the plating area of an unnamed printing business. Areas of T10-MAD and T11-MAD are within a commercial building.	Areas of T2-MON and T9-MAD are parking. Area of T3-MON is GTX Inc. Area of T9-MAD is within the stock room of an unnamed manufacturing building. Area of T8-MAD is undeveloped. Area of T5-JEF is apartments. Area of T3-ADM is within the White Metal Mfg. Co.
Note:			

YEAR	AREA 26 (31-CLA (TD31-CLA), 20-WIL)	AREA 27 (12-13ST (TD12-13ST))	AREA 28 (27-WIL)
1885	No Coverage	No Coverage	No Coverage
1887	No Coverage	No Coverage	No Coverage
1891	Area of 31-CLA is undeveloped. Area of 20-WIL consists of unlabeled multi-story structures presumed to be residential.	Area of 12-13ST is the Cupola Room of Hudson County Gas Light and contains two tanks and two steam boilers.	Area of 27-WIL is undeveloped.
1900	No Coverage	No Coverage	No Coverage
1906	No Coverage	No Coverage	No Coverage
1910	No Coverage	No Coverage	No Coverage
1936	No Coverage	No Coverage	No Coverage
1937	Area of 31-CLA is within the Fox Hill Foundry, F. Ferguson & Son building near the pattern making area, with neighboring shed and foundry. Area of 20-WIL is within the US Wicker Furniture Co.	Area of 12-13ST is within the boiler house of property owned by Public Service Corporation with neighboring Hoboken White Lead & Color Works (mfg of paints) as a lessee.	Area of 27-WIL is undeveloped, with neighboring Elevator Supply & Repair Co.
1950	No Coverage	No Coverage	No Coverage
1951	Area of 31-CLA is within the Fox Hill Foundry, F. Ferguson & Son building near the pattern making area, with neighboring shed and foundry. Area of 20-WIL is within the US Furniture Shops Inc. with neighboring dwellings.	Area of 12-13ST is within the refuse area behind a store on property owned by Public Service Corporation.	Area of 27-WIL is undeveloped with neighboring storage and auto sales and service.
1979	Area of 31-CLA is within the Fox Hill Foundry, F. Ferguson & Son building near the pattern making area, with neighboring shed and foundry. Area of 20-WIL is within the gymnasium of the Wallace Public School No. 6 with neighboring dwellings.	Area of 12-13ST is within the refuse area behind a store on property owned by Public Service Corporation.	Area of 27-WIL is within a parking area west of an auto repair building and south of a building identified as a confectionary warehouse.
1988	Area of 31-CLA is within the Fox Hill Foundry, F. Ferguson & Son building near the pattern making area, with neighboring shed and foundry. Area of 20-WIL is within the gymnasium of the Wallace Public School No. 6 with neighboring dwellings.	Area of 12-13ST is within the refuse area behind a store on property owned by Public Service Corporation.	Area of 27-WIL is within a parking area west of an auto repair building and south of a building identified as a confectionary warehouse.
2006	Area of 31-CLA is apartment building. Area of 20-WIL is within the gymnasium of the Wallace Public School No. 6 with neighboring dwellings.	Area of 12-13ST is within the refuse area behind a store on property owned by Public Service Corporation.	Area of 27-WIL is within a parking area west of an auto repair building and south of a building identified as a confectionary warehouse.
Note:			

YEAR	AREA 29 (23-WIL, 25-WIL (TD25-WIL))
1885	**No Coverage**
1887	**No Coverage**
1891	Areas of 23-WIL and 25-WIL are undeveloped.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	Area of 25-WIL is undeveloped, with neighboring Elevator Supply & Repair Co. Area of 23-WIL is within New Jersey Machine Corporation (automatic machines for box labeling, and gumming machine shop).
1950	**No Coverage**
1951	Area of 25-WIL is within the warehouse area for The Sweet Co. of America Inc. (mfrs of candy). Area of 23-WIL is within New Jersey Machine Corporation (automatic machines for box labeling, and gumming machine shop).
1979	Area of 25-WIL is within the warehouse area of an unnamed manufacturing building. Area of 23-WIL is within New Jersey Machine Corporation (automatic machines for box labeling, and gumming machine shop).
1988	Area of 25-WIL is within the warehouse area of an unnamed manufacturing building. Area of 23-WIL is within the office area of a loft building with neighboring auto parking.
2006	Area of 25-WIL is within the warehouse area of an unnamed manufacturing building. Area of 23-WIL is within the office area of a loft building with neighboring auto parking.
Note:	

APPENDIX A
SANBORN REVIEW BASF FOR PROJECT AREAS

Year	AREA 30 BASF (CURRENTLY BLOCK 107, LOT 1; BLOCK 103, LOTS 7-26; BLOCK 113, LOT 1)
1885	**No Coverage**
1887	**No Coverage**
1891	There is coverage for the entirety of this Area. The streets exist in a layout similar to what exists except that Jefferson Street runs straight through between 12th and 13th Streets. Blocks and individual residential sized lots are shown, but none are developed with structures on them.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for the entirety of this Area. The layout of the streets remains unchanged from the previous map. The two blocks (107 and 108) that make up the current main lot (Block 107, Lot 1) of this property are shown to contain residential sized lots that are not developed and have no structures on them. The northwestern corner of the block surrounded by Jefferson, 11th, Madison, and 12th Streets is occupied by a print factory and the northeaster corner consists of undeveloped residential lots. The southeastern corner of the block surrounded by Jefferson, 14th, Adams, and 13th Streets is occupied by Standard Chemical Products Inc., manufacturers of toilet soap. North of Standard Chemical Products Inc. along Adams Street is Wedlake Aluminum Co. (aluminum castings) that encompasses two lots. The southwestern corner of the block remains as undeveloped residential lots.
1950	No Coverage
1951	There is coverage for the entirety of this Area. The layout of the streets remains unchanged from the previous map. The block surrounded by Jefferson, 12th, Madison, and 13th Streets remains as residential sized lots that are not developed and have no structures on them. The block surrounded by Adams, 12th, Jefferson, and 13th Streets is occupied by a motor freight station with office within the southern half, and Standard Chemical Products Inc. (manufacturing and warehouse) within the northern half. The print factory is still present within the northwestern corner of the block surrounded by Jefferson, 11th, Madison, and 12th Streets, but now includes an additional detached structure, half of which is identified as a cooker room. Within the block surrounded by Adams, 13th, Jefferson, and 14th Streets, Standard Chemical Products Inc. remains unchanged; Wedlake Aluminum Co. has expanded to include a foundry and shipping/storage areas; the southwest corner of the block is occupied by two manufacturing companies and an additional unspecified structure.
1979	There is coverage for the entirety of this Area. The layout of the streets has changed in that the portion of Jefferson St. between 12th and 13th Streets has been abandoned resulting in a merger of the northern halfs of Blocks 107 and 108, and remaining as two blocks on the southern half separated by an apparent alleyway. Three-quarters of this block is occupied by Standard Chemical Products Inc. and includes three buildings: two manufacturing and warehouse, and a third chemical warehouse, as well as a boiler house and chemical tanks enclosed by 6' high concrete walls. The southeastern corner of the block is occupied by the New York Port Authority Engineering Department. The print factory is no longer present within the northern half of the block surrounded by Jefferson, 11th, Madison, and 12th Streets and all properties are undeveloped with no structures on them. The block surrounded by Adams, 13th, Jefferson, and 14th Streets appears similar with the addition of 4 horizontal chemical tanks exterior to the Standard Chemical Products, Inc. building along Adams Street and the addition of a boiler room within the southwestern corner of the building along 13th Street. Four buildings identified as storage, coop, and two unlabeled cinder block structures are present within the manufacturing property located in the southwestern corner of the block along Jefferson Street.
1988	There is coverage for the entirety of this Area. The layout of the streets remains unchanged from the previous (1979) map. The structures on the block surrounded by Jefferson, 12th, Madison, and 13th Streets remain unchanged except Standard Chemical Products Inc. and the New York Port Authority Engineering Dept. are no longer present and the entire block is now occupied by Henkel Corp. The northern half of the block surrounded by Jefferson 11th, Madison, and 12th Streets remains unchanged from the previous (1979) map. The buildings along the southern boundary (13th Street) of the block surrounded by Adams, 13th, Jefferson, and 14th Streets formerly occupied by Standard Chemical Products Inc. and an unnamed manufacturing company remain unchanged but are now occupied by Henkel Corp. The four horizontal chemical tanks formerly located along Adams Street are no longer present. Additionally, the three structures that were present within the south central portion of the block from Jefferson Street are no longer present as is the coop within the the northwestern corner of the southern half of the block. The portion of the block occupied by Wedlake Aluminum Co. remains unchanged.
2006	There is coverage for the entirety of this Area. The entire area of the block surrounded by Adams, 12th, Madison, and 13th Streets formerly occupied by Henkel Corp. is now vacant of all structures. The northern portion of the block surrounded by Jefferson, 11th, Madison, and 12th Streets is vacant of all structures. The southern portion of the block surrounded by Adams, 13th, Jefferson, and 14th Streets formerly occupied by Henkel Corp. is now vacant of all structures. The portion of the block occupied by Wedlake Aluminum Co. is now identified as Aluminum Co. (aluminum castings).

APPENDIX A
SANBORN REVIEW BASF FOR PROJECT AREAS

Year	AREA 31 BASF - MADISON STREET
1885	**No Coverage**
1887	**No Coverage**
1891	There is coverage for this area along Madison Street from 13th Street to 15th Street. The entire length of the street in this area is undeveloped.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for the east side of Madison Street from 13th Street to 15th Street, but no coverage for the west side of the street. Along the east side of Madison Street on the block between 13th Street and 14th Street is Cornell & Underhill (pipe fitting, bending etc.) and the block between 14th Street and 15th Street is undeveloped.
1950	**No Coverage**
1951	There is coverage for this area of Madison Street from 13th Street to 15th Street. The entire west side of Madison Street from 13th to 15th Streets is undeveloped. The east side of Madison Street between 13th and 14th Streets is occupied by Cornell & Underhill (pipe fitting and bending etc.) with the northern portion of the block consisting of a pipe warehouse. Most of the east side of the street between 14th and 15th Streets is undeveloped, except for the northeastern corner which is occupied by an auto junk yard. Fourteenth Street contains a viaduct.
1979	There is coverage for this area of Madison Street from 13th Street to 15th Street. Unless otherwise noted, most of this area remains unchanged. At the southwest corner of the intersection with 15th Street the formerly undeveloped lots have been replaced by an auto storage yard with an auto body repair shop.
1988	There is coverage for this area of Madison Street from 13th Street to 15th Street. Unless otherwise noted, most of this area remains unchanged. Along the west side of the street north of 13th Street the formerly undeveloped lots are now the Universal Folding Box Co., Inc. manufacturing facility constructed in 1981.
2006	There is coverage for this area of Madison Street from 13th Street to 15th Street. Unless otherwise noted, most of this area remains unchanged.

APPENDIX A
SANBORN REVIEW BASF FOR PROJECT AREAS

Year	AREA 32 BASF - JEFFERSON STREET
1885	**No Coverage**
1887	**No Coverage**
1891	There is coverage for this area along Jefferson Street from 13th Street to 16th Street. The entire length of the street in this area is undeveloped.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for this area along Jefferson Street from 13th Street to 16th Street. Most of the entire length of the street in this area is undeveloped, except for the west side of the street between 13th and 14th Streets where there is Cornell & Underhill (pipe fitting, bending, etc.) and the northern half of the block between 14th and 15th Streets along the eastern side where the Weehawken Lumber Co. is located.
1950	**No Coverage**
1951	There is coverage for this area along Jefferson Street from 13th Street to 16th Street. Much of the area remains unchanged, except for the addition of a manufacturing business at the southeast corner with 13th Street, two smaller buildings identified as vacant and open within the southwestern portion of the block between 14th and 15th Streets. The eastern and western sides of the street between 15th and 16th Street remain undeveloped.
1979	There is coverage for this area along Jefferson Street from 13th Street to 16th Street. Unless otherwise noted, most of this area remains unchanged.
1988	There is coverage for this area along Jefferson Street from 13th Street to 16th Street. Unless otherwise noted, most of this area remains unchanged. The former Cornell & Underhill (pipe fitting and bending, etc.)and pipe warehouse located along the west side of the street between 13th and 14th Streets, is now occupied by Frank Lambi Inc. (yarns & thread) and warehouse. The former manufacturing facility on the east side of the street between 13th and 14th Streets, is now occupied by the Henkel Corp. The former vacant building at the southeast corner of the intersection with 15th Street is no longer present. The former warehouse at the southwest corner of the intersection with 16th Street is now a bus repair shop.
2006	There is coverage for this area along Jefferson Street from 13th Street to 16th Street. Unless otherwise noted, most of this area remains unchanged. The former Frank Lambi Inc. is now only labeled as yards and thread. The area formerly occupied by the Henkel Corp is now cleared of structures and undeveloped. The east and west sides of the street on the blocks between 14th (and Viaduct) and 15th Streets formerly undeveloped and truck parking , respectively, are now both identified as bus parking. The former truck parking on the west side of the block between 15th and 16th Streets is now bus parking.

Year	AREA 33 BASF - ADAMS STREET
1885	**No Coverage**
1887	**No Coverage**
1891	There is coverage for this area along Adams Street from 11th Street to 16th Street. The west side of the entire length of the street is undeveloped. The east side of Adams Street is primarily undeveloped as well, except for the northeast corner with 13th Street where a blue stone yard is located.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for this area along Adams Street from 11th Street to 16th Street. Portions of the west side of the entire length of the street is undeveloped, except for Shoup-Owens Inc. (paper box factory) at the northwest corner of the intersection with 11th Street, Standard Chemical Products Inc. (manufacturers of toilet soap) at the corner with 13th Street, Wedlake Aluminum Co. (aluminum castings) midway along the block between 13th and 14th Streets, the 14th Street Viaduct (steel structure along 14th Street), the City Dog Pound at the southwest corner with 14th Street, residential properties, and the Weehawken Wrecking Co. and lumber shed/yard at the northwestern corner of the intersection with 15th Street. The east side of Adams Street is relatively developed as well with the Monahan & McCann Corp'n - Hoboken Plant (stone cutting) at the corner with 13th Street, the 14th Street Viaduct (steel structure along 14th Street), a welding (elec motors), machine shop, and iron works businesses on the block between 14th and 15th Streets, and Hoboken White Lead & Color Works (contains a 150-gal gasoline UST) located on the southeastern corner with 15th Street.
1950	**No Coverage**
1951	There is coverage for this area along Adams Street from 11th Street to 16th Street. Much of the area remains unchanged, except the conversion of a loft to manufacturing chemists along the west side of the street midway between 14th and 15th Streets, the addition of a drilling and contractors warehouse at the southwest corner of the intersection with 15th Street, and the conversion of the former Monahan & McCann Corp'n-Hoboken Plant (stone cutting) to a motor freight station.
1979	There is coverage for this area along Adams Street from 11th Street to 16th Street. Unless otherwise noted, most of this area remains unchanged. Jefferson Street between 12th and 13th Streets is no longer present as the blocks to the east and west of the street have been combined and are occupied by Standard Chemical Products Inc. The former Shoup-Owens Inc. (paper box factory) at the northwest corner of the intersection with 11th Street is now 3-M.
1988	There is coverage for this area along Adams Street from 11th Street to 16th Street. Unless otherwise noted, most of this area remains unchanged. The former Standard Chemical Products Inc. has been replaced by Henkel Corp. and contains chemical tanks. Along the west side of the street at the southern end of the block between 13th and 14th Street, Henkel Corp. has taken over the Standard Chemical Products Inc. building. The former welding shop and nearby buildings along the east side of the street between 14th and 15th Streets have been replaced by the sanitation department.
2006	There is coverage for this area along Adams Street from 11th Street to 16th Street. Unless otherwise noted, most of this area remains unchanged. The former 3-M buildings southern three-quarters of the block between 11th and 12th Streets along the west side of the street have been razed and replaced by a large U-shaped apartment building. All of the former Henkel Corp buildings on the merged blocks along the west side of the street between 12th and 13th Streets and along the west side of the street between 13th and 14th Streets are no longer present and the areas appear undeveloped. The former Wedlake Aluminum Co. is now identified as Aluminum Co. (aluminum castings). Along the east side of the street between 13th and 14th Streets the former buildings within the southern half of the block have been razed and replaced by a U-shaped apartment building, and the construction yard at the southeast corner of the intersection with 14th Street is no longer identified as such. The former building at the southwest corner of the intersection with 15th Street is no longer present and the large area encompassing more than half of the block is labeled as parking.

Year	AREA 34 BASF - GRAND STREET
1885	**No Coverage**
1887	**No Coverage**
1891	There is coverage for this area along Grand Street from 11th Street to 16th Street. The west side of Grand Street is mostly undeveloped, except for a curling rink midway along the block between 11th and 12th Streets and an opaque cloth shade factory within the northern half of the block between 12th and 13th Streets. The east side of Grand Street is also mostly undeveloped, except for a gasometer at the northeastern corner of the block between 12th and 13th Streets and an oil cloth factory within the northern half of the block between 13th and 14th Streets.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for this area along Grand Street from 11th Street to 16th Street. The southwestern side of Grand Street on the block between 11th and 12th Streets is mostly residential, except for a forge shop, and at the northwestern corner of the block is the F. Ferguson & Son Fox Hill Foundry Machine Shop and the Ohio Chemical & Mfg. Co. (manufactures of oxygen hydrogen electrolithic process). The western side of the block between 12th and 13th Streets also contains the nitrous oxide plant of the Ohio Chemical & Manufacturing Co. (with hydrogen storage tanks), Moulter Metalizing Corp'n, Condenser Service & Engineering Corp'n and machine shop. The western side of the block between 13th and 14th Streets contains a business identified as coopering (aka a wooden barrel maker) with an open shed for empty barrels, a sheet metal works, and the Hoboken Wrought Iron Andiron Co. at the northern corner of the block. The western side of the block between 14th and 15th Streets contains undeveloped lots, a vacant building, Wilson Bros. Iron Works, and another vacant building. The western side of the block between 15th and 16th Streets is vacant and undeveloped. Beginning at the southeastern side of Grand Street on the block between 11th and 12th Streets is Ayvad Mfg. Co. (manufacturers of water wings), auto stalls, and the Fox Hill Foundry. The entire eastern side of the block between 12th and 13th Street is occupied by Public Service Corporation (Hoboken Gas Works, with a gas holder and oil tank). The southeastern side of the block between 13th and 14th Streets is occupied by a carpet cleaning business (including fur dressing and private garage areas), and the northeastern portion of the block is occupied by lofts for various wood working manufacturing, and a machine shop, followed by the 14th Street Viaduct. The eastern side of the block between 14th and 15th Streets is either residential or undeveloped, and the block between 15th and 16th Streets is undeveloped.
1950	**No Coverage**
1951	There is coverage for this area along Grand Street from 11th Street to 16th Street. Unless otherwise noted, much of the area remains unchanged. The former Ayvad Mfg. Co. has been replaced by a ladies sportswear manufacturer. The former forge shop on the western side of the street between 11th and 12th Streets is no longer present. The former gas holder at the Public Service Corporation is no longer present and the oil tank is identified as not used. The former Moulter Metalizing Corp'n and the Condenser Service & Engineering Corp'n are no longer present and the area is currently undeveloped. The former carpet cleaning business on the east side of the street between 13th and 14th Streets is no longer present and the area is identified as a loft and a motor freight station with a diesel engine parts and service area. On the west side of Grand between 13th and 14th Streets, the former coopering and barrel storage areas are no longer present and the area is undeveloped, the Hudson Box & Lumber Co. is now present south of the Hoboken Wroutght Iron Andiron Co. The former vacant building at the southwest corner of the intersection with 15th Street is now occupied by Grayure Cylinder Corp'n and the northwest corner is occupied by Hoboken White Lead Color Works with can and drum storage areas.
1979	There is coverage for this area along Grand Street from 11th Street to 16th Street. Unless otherwise noted, most of this area remains unchanged.
1988	There is coverage for this area along Grand Street from 11th Street to 16th Street. Unless otherwise noted, most of this area remains unchanged. At the northwest corner of the intersection with 11th Street, the former parking area is not used for propeller storage and at the northeast corner of the same intersection the former cabinet manufacturer is now Crown Industrial Supply Corp'n.
2006	There is coverage for this area along Grand Street from 11th Street to 16th Street. Unless otherwise noted, areas remain unchanged. The west side of the street on the entire block between 11th and 12th Streets is under construction as condominiums, except for the southwest corner of the intersection with 12th Street shere there is an office and leasing and fitness center that are associated with the condominiums. Much of the east side of the street on the same block has been converted to apartments or apartment buildings, except for the former Corwn Industrial Supply Corp'n that has been converted to offices. The west side of the street on the entire block between 12th and 13th Streets is now under construction as a large apartment building. All of the former buildings on the east side of the street on the entire block between 13th and 14th Streets are gone and have been replaced by The Metropolitan Apartments. The west side of the street on the southern half of the block between 13th and 14th Streets is now occupied by a large U-shaped apartment building.

Year	AREA 35 BASF - CLINTON STREET
1885	**No Coverage**
1887	**No Coverage**
1891	There is coverage for this area along Clinton Street from 13th Street to 17th Street. The west side of Clinton Street is mostly undeveloped, except for the Joel M. Woodman & Co. veneer seating manufacturing company at the southern corner with 15th Street. The east side of Clinton Street is also mostly undeveloped, except for a cupola room (containing two vertical tanks), a retort house, stable, and a kiln with attached shed for the Hudson Co. Gas Light Co.on the block between 13th and 14th Streets.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for this area along Clinton Street from 13th Street to 17th Street. The west side of Clinton Street on the block between 13th and 14th Streets is occupied by a carpet cleaning business, Russell Garage (auto stalls and repair shop), and a corner store. The west side of the street on the block between 14th and 15th Streets is undeveloped, residential, or a garage and repair shop. The west side of the street on the block between 15th and 16th Streets is undeveloped, except for the southwest corner which is the National Rattan & Willow Co. storage (1st floor) and Central Veneer & Panel Co. (2nd floor). The west side of the street on the block between 16th and 17th Streets is undeveloped. Along the east side of Clinton Street, the entire block between 13th and 14th Streets is occupied by Public Service Corporation (with a boiler house and pipe fitting shop), followed by the 14th Street Viaduct. The east side of the street on the block between 14th and 15th Street there are various occupancies, a junk yard, repair shop, a garage, a brass foundry, and a planning mill and woodworking shop. The east side of the street on the block between 15th and 16th Streets is mostly undeveloped, with one residential location, and New Jersey Machine Corp'n (automatic machined for box labeling and gumming machine shop). The east side of the street on the block between 16th and 17th Street is undeveloped, except for auto garages at the northeastern corner.
1950	**No Coverage**
1951	There is coverage for this area along Clinton Street from 13th Street to 17th Street. Unless otherwise noted, much of this area remains unchanged. The former carpet cleaning business is now a loft , motor freight station and a diesel engine and parts service and the former store at the southwest corner of the intersection with 14th Street is a a display area for a casket finishing business. The boiler house and pipe fitting shop at the Public Service Corp'n property are no longer present. A former undeveloped location north of the various occupancies at the northeast corner of the intersection with 14th Street is now occupied by a junk yard. A former garage and repair shop on the west side of this block is now a garage and repair shop. The former National Rattan & Willow Co. is no longer present and this area appears undeveloped. Within the former undeveloped area within the east side of the block between 15th and 16th Streets there is now a machine shop.
1979	There is coverage for this area along Clinton Street from 13th Street to 17th Street. Unless otherwise noted, most of this area remains unchanged.
1988	There is coverage for this area along Clinton Street from 13th Street to 17th Street. Unless otherwise noted, most of this area remains unchanged. At the southeast corner of the intersection with 16th Street, the former New Jersey Machine Corp'n has been converted to a loft. The two former motor freight stations that were present on the west side of the street on the block between 16th and 17th Streets are no longer present and the entire block now appears undeveloped.
2006	There is coverage for this area along Clinton Street from 13th Street to 17th Street. Unless otherwise noted, most of this area remains unchanged. All of the former buildings on the west side of the street on the entire block between 13th and 14th Streets are gone and have been replaced by The Metropolitan Apartments. Seventeenth Street is no longer shown on this map. The former undeveloped block on the west side of the street between 16th Street and the former location of 17th Street is now labeled as a transformer yard. The right side of the street within the south-central portion of the same block is now occupied by an H-shaped self storage building.

APPENDIX A
SANBORN REVIEW BASF FOR PROJECT AREAS

Year	AREA 36 BASF - 12TH STREET
1885	**No Coverage**
1887	**No Coverage**
1891	There is coverage for this area along 12th Street from Adams Street to Grand Street. However, both the north and south sides of the street are completely undeveloped.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for this area along 12th Street from Adams Street to Grand Street. The north side of 12th Street is occupied by the Ohio Chemical Co. for storage (earth floor) within the western portion. The eastern portion of the block is occupied by the Ohio Chemical & Manufacturing Co. for their nitrous oxide plant and iron shed. The southwestern side of the 12th Street block is occupied by a F. Ferguson & Son/Fox Hill Foundry, while the southeastern side of the block is occupied by Ohio Chemical & Manufacturing Co. (mfrs. of oxygen hydrogen, electrolithic process).
1950	**No Coverage**
1951	There is coverage for this area along 12th Street from Adams Street to Grand Street. There are no significant changes since the 1937 map, except for the addition of two hydrogen storage tanks northwest of the nitrous oxide plant.
1979	There is coverage for this area along 12th Street from Adams Street to Grand Street. Unless otherwise noted, this area remains unchanged.
1988	There is coverage for this area along 12th Street from Adams Street to Grand Street. Unless otherwise noted, this area remains unchanged.
2006	There is coverage for this area along 12th Street from Adams Street to Grand Street. The former buildings along the south of 12th Street have all been razed and the area is now occupied by a parking area, office, and leasing and fitness center associated with condominiums that are under construction on the remaining portions of the block. The former buildings on the block to the north of 12th Street have all been razed and the area is now occupied by a large apartment building.

APPENDIX A
SANBORN REVIEW BASF FOR PROJECT AREAS

Year	AREA 37 BASF - 13TH STREET
1885	**No Coverage**
1887	**No Coverage**
1891	There is coverage for this area along 13th Street from Adams Street to Clinton Street. The north side of 13th Street is mostly undeveloped, except for the blue stone yard located at the corner with Adams Street. The south side of 13th Street is more developed with an opaque cloth shade manufacturer at the eastern corner with Grand Street and two gasometers for the Hudson Co. Gas Light Co. on the block between Grand and Clinton Streets.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for this area along 13th Street from Adams Street to Clinton Street. The north side of 13th Street is occupied by Monhan & McCann Corp'n - Hoboken Plan (stone cutting) and a coopering (aka barrel making) shop between Adams and Grand Streets, and a carpet cleaning business (with fur dressing area) between Grand and Clinton Streets. The south side of 13th Street is residential and a machine shop between Adams and Grand Streets, and Public Service Corporation (Hoboken Gas Works) between Grand and Clinton Streets.
1950	**No Coverage**
1951	There is coverage for this area along 13th Street from Adams Street to Clinton Street. The north side of 13th Street between Adams and Grand Streets is occupied by a motor freight station and an undeveloped area, while the south side of this block is occupied by a brass foundry and an undeveloped area. The north side of 13th Street between Grand and Clinton Streets is occupied by a loft and the south side of the block is occupied by Public Service Corporation.
1979	There is coverage for this area along 13th Street from Adams Street to Clinton Street. Unless otherwise noted, this area remains unchanged.
1988	There is coverage for this area along 13th Street from Adams Street to Clinton Street. Unless otherwise noted, this area remains unchanged.
2006	There is coverage for this area along 13th Street from Adams Street to Clinton Street. The former buildings on the south side of the street on the block between Adams and Grand Streets have been razed and the area is now occupied by a large apartment building. Similarly, the former building s on the north side of the street on the block between Grand and Clinton Streets have been razed and the area is now occupied by The Metropolitan Apartments. The north side of the street on the southern half of the block between Adams and Grand Streets is now occupied by a large U-shaped apartment building.

Year	AREA 38 BASF - 17TH STREET
1885	**No Coverage**
1887	**No Coverage**
1891	There is coverage for this area along 17th Street from Clinton Street to the west side of Park Avenue. The north side of 17th Street has no businesses on the properties, but is occupied by several tracks and a spur for the N.Y.L.E.&W.R.R. and N.J.J.R.R. railroads that travel along and within the street in this area. The south side of 17th Street is mostly undeveloped, except for the previously referenced railroad spur that extends within the center of 17th Street near the corner with Clinton Street and then enters the northern portion of the block between Clinton Street and Willow Avenue.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for this area along 17th Street from Clinton Street to the west side of Park Avenue. The north side of 17th Street has no businesses but is occupied by several tracks of the Erie and N.J.J.R.R. railroads that travel along and within the street between Clinton Street and Willow Avenue. In the area of what would be 17th Street between Willow and Park Avenues, are the Eisen Bros. furniture manufacturing buildings and the Todd Ship Yard Corp'n buildings (storage and vacant). East of the area of Park Avenue are additional buildings and operations associated with the Todd Shipyard Corp'n - Tietjen & Lang Plant.
1950	**No Coverage**
1951	There is coverage for this area along 17th Street from Clinton Street to the west side of Park Avenue. Most of this area remains unchanged except for the area west of Park Avenue and south of the railroad tracks, the former Todd Ship Yard Corp'n buildings are no longer present. East of Park Avenue, the building appear unchanged.
1979	There is coverage for this area along 17th Street from Clinton Street to the west side of Park Avenue. Unless otherwise noted, most of this area remains unchanged.
1988	There is coverage for this area along 17th Street from Clinton Street to the west side of Park Avenue. The former buildings along the southern side of the street on the block between Clinton and Willow are no longer present and the entire northern half of this block appears undeveloped. The area south of the railroad tracks between Willow and Park Avenues has also been razed of all buildings and appears undeveloped.
2006	There is coverage for this area along 17th Street from Clinton Street to the west side of Park Avenue. The length of 17th Street within the area of Clinton Street to the west side of Park Avenue is no longer shown on this map. Most of the railroads that were present along the north side of and within 17th Street have been removed, except for three spurs leading to the Croyden Steel Corporation and metal store fixture manufacturing. All of the buildings that were present south of the former 17th Street location have been razed and the area appears undeveloped.

APPENDIX A
SANBORN REVIEW BASF FOR PROJECT AREAS

Year	AREA 39 HOBOKEN HOUSING AUTHORITY
1885	**No Coverage**
1887	**No Coverage**
1891	There is coverage for the area between 6th, 5th, Jackson and Marshall Street. The map shows lot lines and streets but no development.
1900	**No Coverage**
1906	**No Coverage**
1910	There is coverage for the area to the west side of Marshall Street to Paterson Plank Road between 2nd and 3rd Streets. The area is occupied by the Jagels & Bellis Coal Company and the NJJRR and ERR run parallel to Paterson Plank Road in this area.
1936	**No Coverage**
1937	There is coverage for the area which is bounded by 5th and 6th Streets between Marshall and Jackson Streets. There is no development in this area with the exception of one un-named building. There is also coverage for the area bounded by 3rd to 5th Streets and Marshall to Jackson Streets. Within this area between Harrison and Jackson Streets there are buildings identified as a garage with 12 car capacity, storage of empty bottles, auto repair shop, junk yard, and open shed, iron works, a truck garage (with concrete floor) and various other unidentified buildings, the area between Marshall and Harrison Streets, between 35d and 6th Streets is undeveloped.
1950	**No Coverage**
1951	There is coverage for the area from 2nd Street to 6th Street between Marshall and Harrison Streets. At the southern end of this area is the Public Service Electric & Gas Company and north of it are the Andrew Jackson Gardens Apartments. There is also coverage in the area between Harrison and Jackson Streets between 3rd and 4th Streets. The area between Harrison and Jackson Streets remains generally unchanged however uses added since the 1939 map include baled paper, sports wear factory , and used auto parts businesses.
1979	There is coverage for the area from 2nd Street to 6th Street between Marshall and Harrison Streets. There is also coverage in the area between Harrison and Jackson Streets between 3rd and 4th Streets. The area between Harrison and Jackson Streets has changed from the previous (1951) map showing all previous uses removed and replaced with the Housing Authority of Hoboken 208 Family Unit apartment complex.
1988	There is coverage for the area which is bounded by 5th and 6th Streets west of Jackson Street to the NJJRR which has been changed since the previous map (1979) with the addition of more apartment buildings associated with the Andrew Jackson Gardens Apartments. The use of the area bounded by 4th Street and what previously was 3rd Street, Jackson and Harrison Streets is now occupied by a 208 Family unit apartment complex owned by the Housing Authority of Hoboken. There is also coverage for the area bounded by 2nd to 5th Streets and Marshall to Jackson Streets which has not changed from the previous (1979) map.
2006	There Sanborn map coverage is the same as the previous (1988 map) and the uses remain unchanged.

Year	AREA 40 BLOCK 10 PARCEL
1885	**No Coverage**
1887	**No Coverage**
1891	**No Coverage**
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for this area which is bounded by Marshall Street, Paterson Plank Road Harrison Street and Observer Highway. The block is bisected by an un-named road running between Marshall and Harrison Streets. On the Northwest section of the block is the NY Live Poultry Trucking Company with two crate storage structures. On the eastern section of the block, are three unidentified structures. The remainder of the block is undeveloped with the exception of the North Hudson County Railway running diagonally across the lower portion of the block.
1950	**No Coverage**
1951	There is coverage for this area in its entirety. The road configuration remains the same. The previous building identified as the NY Live Poultry Trucking company has been removed and replaced with a structure appearing east of the prior structure which is identified as Motor Freight Station. A smaller building identified as a Repair shop is located at the north western end of the main Motor Freight structure. An building identified as A & STGE and a meat packing company are on the south side of the un-named crossroad. The remainder of the block is undeveloped with the exception of the North Hudson County Railway which crosses the block diagonally between Marshall and Harrison Streets.
1979	There is coverage for the entirety of this Area. The layout of the streets is changed from the previous (1979) map. The structures on the block surrounded by Marshall Street, Harrison Street, and Paterson Plank Road remain unchanged. The footprint of the Motor Freight company identified in the previous map has been expanded to add a 2 story structure on the southern end. The Meat Packing company remains and the un-named structure north of the meat packing company does no longer appears on the 1979 map. A parking area appears on the southern end of the block bordered on three sides by Marshall Street, Harrison Street and Observer Highway with a structure on the corner of Marshall Street and Observer Highway.
1988	There is coverage for the entirety of this Area. The layout of the streets remains unchanged from the previous (1979) map. The parking on the block surrounded by Marshall Street, Harrison Street, and Paterson Plank Road remain unchanged however the building on the south west corner of the lot is larger than it appeared on the previous (1979) map.
2006	There is coverage for the entirety of this Area. The layout of the streets remains unchanged from the previous (1988) map. The structures shapes remain unchanged from 1988 however are identified as offices and "One-W". The parking on the southern portion of the block remains however the structure previously identified in the southwest corner no longer appears on the block.

Year	AREA 41
1885	Coverage consists of the southern boundary of Area 1, at the municipal boundary between Hoboken and Jersey City. At the northwest corner of Grove Street and 20th Avenue, in Jersey City, a slaughter house with tallow works and hide shop is operating. Other lots in the vicinity have been laid out but not developed. Rail tracks belonging to the Morris & Essex Rail Road Company (and leased to the D. L. & W. Railroad Company) are present to the south of the slaughter house. They continue eastward, with coal pockets, an oil house, a sand house, a water tower and a large rail turn table (round house) all noted. The rail yard includes dozens of parallel tracks and obscures portions of mapped 17th, 18th, 19th and 20th Streets. Eighteenth Street is also noted to be a canal. The railroad's carpenter shop is located at the municipal boundary between 18th and 19th Streets at River Street. The rail tracks culminate in at least six coal trestles on piers in the Hudson River. Engine houses for elevating coal cars, a coal office building, and at least 4 water towers are located just landward of the piers.
1887	Coverage begins at the Jersey City/Hoboken boundary, where the Morris & Essex Railroad Co.yard is present. The carpenter shop is still present along the northern side of the city boundary. Six DL&WRR piers are still present. Pier 1 contains an Emigrant Station and Pier 2 a Freight Shed with a rotating engine. West of the Freight Shed are the M & E RR Co.'s Offices and another freight shed immediately south of the intersection of Ferry and Hudson Streets. Along the shoreline, north of Pier 1 , is the Hoboken Ferry House that has ferry slips with four bridges and three waiting rooms.
1891	Coverage is available for only a small area south of Ferry Street from Garden Street to the west to River Street to the east. Within this area is the D.L.& W.R.R. Co's Offices and Freight Depot in one large building and the Carpenter & Repair Shop in another slightly smaller building with associated lumber shed to the east. The entire remaining area consists of railroad tracks and spurs typical of a large rail yard.
1900	**No Coverage.**
1906	Coverage is available for most of the Area. The round house is noted to be operated by the Delaware Lackawanna & Western Railroad. A smaller turntable is located east of the main round house. The Pintsch Gas Works, including gas holders, compressor, engine room, purifying room, gas retorts, engine and dynamo room, oil house, acetylene plant and pump room is located immediately east of the round house. Several stables are located along the south side of Hoboken Avenue (Newark Avenue). At 20th and Grove Streets, William Horre & Company includes a large stable, a cattle shed, coal yard, and a wagon shed. The northwest corner of Henderson Street and 20th Street contains the Payne Beef Company, Standard Manufacturing Company with slaughter house and tallow works, and the Schwartzschild & Sultzberger Company (dressed beef). The northwest corner of Grove and 18th Street includes stables, a slaughter house and sausage casing manufacturer, sheds, homes, and the Commonwealth Roofing Company. The block bounded by 18th, 19th, Henderson and Grove contains a wagon shed, flats, single family homes, and the Great Bear Spring Company (water bottling). A cooperage and lumber yard are located on the east side of Henderson at 18th Street. Directly west of Piers 3 and 4 is a lumber yard, carpenter shop, store house, paint shop, store room, tin shop, and water tank. There are also two small buildings at the head of Pier No. 3. Between Pier No. 5 and Pier No. 6, the Hudson Companies is situated, with indications of where the new Hudson Tunnel shaft would be located. Various office buildings and a freight office are located at the heads of Piers Nos. 6-8. Rail tracks for the Delaware Lackawanna & Western Railroad are shown along the length of the piers.
1910	**No Coverage.**
1936	**No Coverage.**
1937	Coverage is available for most of the Area. At the southeastern boundary of Hoboken along the waterfront, there are several piers extending into the water, some of which contain multiple Delaware Lackawanna & Western Railroad tracks. Pier 5 contains car hoists, engine houses, and screenings pockets. Immediately west of Pier 5 there are two engine rooms connected by an iron bridge over railroad tracks that intend onto the pier. South of the engine rooms is a boiler house and north is a utility building and water tank. West of Pier 5 within the rail yard is a train shed, east of which many of the tracks converge. Between Pier 5 and Pier 6 is the line of the Hudson River Tunnel. Pier 6 contains some tracks and a trestle to the west within the pier approach. Piers 3 and 4 have railroad tracks between them. West of Piers 3 and 4 is a timber yard and a lumber yard among the many Delaware Lackawanna & Western Railroad yard. There is an office and dining room directly west of Pier 3. A canal is located immediately north of Pier 3 and bisects the rail yard. North of the canal is another large portion of the rail yard with multiple tracks and a D.L. & W. R.R. Coach Shop. At the west end of the canal within the rail yard is a boiler house with a brick chimney, an attached covered shed and coal tracks, and a D. L. & W. R. R. power house. Northwest of this area is the Pullman Co Office. Northeast of 16th Street and Henderson is a turntable with storage and service buildings, an elevated water tank on steel, and coal storage. East of the Henderson St and 19t Street intersection is the Pullman Co. offices. Within the rail yard east of Henderson between 19th and 20th Streets and south of Ferry Street between Newark and Willow Avenues is a large roundhouse, two turntables, two repair shops, generators, machine shop, tool room, water tank, and a building for yard men. At the southeast corner of Henderson and Ferry Streets is a freight warehouse with offices. At the southwest corner of Henderson and 18th Streets is a filling station with three gas tanks. West of Grove Street between 16th and 18th Streets is the D. L. & W. R. R. Co. Terminal Warehouse and a trucking and forwarding station. North of 19th Street and the D.L. & W. R. R. tracks and west of Henderson Street is The Cudahy Packing Co. facility that includes a cattle pen, several cattle sheds, barrel storage, garage, cold storage building, Wilson & Co. meat storage house, and Horre Coal Co. Inc. West of Grove Street and northwest of the end of 19th Street is a poultry shed. Along the west side of Jersey Avenue between 16th and 17th Streets is an auto repair shop. Along the east side of Coles Street in the vicinity of 17th and 18th Streets is Armour & Co. with a garage, barrel storage, and four large iron tanks containing cotton seed oil. East of Coles Street north of 18th Street there is a coal warehouse and several coal storage sheds. At the north end of Coles Street, south of Hoboken Ave there are several Erie Railroad tracks that run parallel to Hoboken Ave (Jersey City) and Newark Ave (Hoboken) with one set crossing the roadway on an elevated bridge with stone abutments.

1950	Coverage is available for most of the Area. Unless otherwise specified here, many of the features remain unchanged from the 1937 maps. There is a tunnel shaft shown northwest of Pier 6. The lumber and timber yards west of Piers 3 and 4 are no longer present. The turntable located northeast of Henderson and 16th Streets is identified as a fuel oil tank surrounded by a 4-foot concrete wall. The former Cudahy Packing Co. and Horre Coal Co. Inc. are the American Packing Corporation and Burns Bros., respectively, and the former poultry shed is a motor freight station and loading platform. The former D. L. & W. R. R. Co. Terminal Warehouse is the Lackawanna Warehouse Co., Inc. The former auto repair shop is no longer present and the entire block surrounded by 16th Street, Jersey Ave, 17th Street, and Coles Street is occupied by the Pepsi-Cola Metropolitan Bottling Corporation. Amour & Co. has occupied and merged several smaller lots into their facility. The former charcoal warehouse located east of Coles Street is occupied by a motor freight station.
1951	Coverage is available for approximately the northern half of this Area. Delaware Lackawanna & Western Railroad tracks extend onto Piers 1 and 2. On land between Piers 1 and 2 is an electric sub-station, and pump house. There is a water tower at the eastern end of Pier 2. On land north of Pier 1 is The Pullman Co. that has storage, offices, and a coal and sand shed and the triangular-shaped pier is labeled U.S. Mail Pier with a sorting room, open shed, and an open wood platform. On land west of the triangular-shaped pier is the Delaware Lackawana & Western Railroad Passenger Station with a waiting room, train concourse, and multiple train sheds. West and southwest of the passenger station is mostly occupied by the rail yard, as well as a coach shop (south of Hudson St. and across multiple tracks) and an office building for the Railway Express Agency, Inc. and the Delaware Lackawanna & Western R. R. offices (south of Observer Highway in the area of Bloomfield and Washington Streets). The rail yard continues to the west; along the south side of Observer Highway between the road and the railroad tracks from the area of the intersection with Willow Ave. and Newark Ave. is the Delaware Lackawanna & Western Railroad Machine Shop containing a store house, plumbing department, Hoboken Woodworking and Wood Flooring Corp., a freight house, and offices. South of the machine shop is the rail yard, roundhouse, turntables, and associated buildings. A portion of the former long straight repair shop south of the smaller turntable has been replaced by a full second half of the roundhouse south of the previously existing portion of the building. Southwest of the Newark Ave and Henderson St. intersection are a couple of meat packing businesses, storage buildings, and the Burns Bros. Coal Yard. North of Newark Ave and south of Observer Highway, between Jefferson and Monroe Streets is Fire Station No. 2, an automobile repair shop, and Wm. Rebuth Inc. steel warehouse and offices.
1979	Coverage is available for this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. The former Delaware Lackawanna & Western Railroad Passenger Station and all tracks within the yard and piers are now identified as the Erie-Lackawanna Railroad Passenger Station and Erie-Lackawanna Railroad tracks. The engineering rooms and iron bridge over the tracks on land west of Pier 5 (see 1937) are no longer present and the former boiler house is a repair shop with a small building and oil tank off the southwest corner. Southwest of Pier 9 is an ice house and a small storage building. The former office and dining room west of Pier 3 is no longer present and there is a locker building and auto garage west of Pier 4. East of Henderson St., north of 16th Street, and south of the fuel oil tank surrounded by the 4-foot concrete wall is a turntable west of the maintenance and storage buildings. The former Pullman Co. office building east of Henderson and 19th Streets is identified as Vacant - Transportation Displays Inc. Much of the former roundhouse is no longer present; only a small portion north of the main turntable remains with a portion identified as offices. The former larger turntable northeast of the roundhouse/turntable is no longer present. Northwest of the repair shop building south of the turntable is a 20,000-gallon diesel oil tank surrounded by a concrete wall. East of Henderson and 20th Street is a warehouse and loading platform adjacent to some of the railroad tracks. Similarly, south of and parallel to Observer Highway, east of Henderson St. is Semolina Haulage Co. with a small storage building, loading platform and small office building. The block surrounded by Henderson, 16th, Grove, and 18th Streets has a few railroad tracks going through it, but is also identified as truck parking. The southern portion of the next block to the west surrounded by Grove and 16th Streets and Jersey and Newark Avenues is occupied by the Lackawanna Warehouse Co. with an attached truck loading shed along the railroad tracks on the southern side, several tracks that appear to go through the building, and several more along the northern side of the building. The northern portion of this block contains a motor freight station and loading platform and a truck repair garage south of the Erie-Lackawanna tracks, and a transformer house, switch tower, and truck trailer parking south of the railroad trestle. West of Henderson St., north of 19th St. and the railroad tracks, and south of the properties fronting Newark Ave., the former American Packing Corporation and many of its cattle related features (cattle platform, shed, and pen) are no longer present. The main buildings remain, but only the Wilson & Co. meat storage house and Burns Bros. are still identified. Other buildings in the area remain unlabeled. West of Grove Street, the former cattle sheds and barrel storage have been replaced by truck trailer parking. West of Jersey Ave and north of 16th Street the former Pepsi-Cola Metropolitan Bottling Corp. warehouse is identified as vacant and there is a box storage area identified west of the loading area, with parking to the west. The former Armour & Co and five cotton seed oil tanks and incinerator southeast of Coles ad 18th Street are no longer present; this area is now identified as truck parking. There is a private garage southwest of Jersey Ave and 18th St, west of which is the U.S. Trucking Corp with parking and box storage. The former motor freight station east of the end of Coles north of 18th Street is no longer present.
1988	Coverage is available for this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. The former Erie-Lackawanna Railroad Passenger Station is now identified as the Conrail Railroad Passenger Station. The train shed west of Pier 5 is no longer present and the ice house and small storage building west of Pier 9 are no longer present. Further west of these former structures, three large buildings are present, only one of which is labeled as an open deck garage (constructed in 1987). Piers 3 and 4 are no longer identified as such and all the railroads previously shown south of the open water channel are no longer shown to be present. The locker building and auto garage west of the former Pier 4 and the small building west of the former Pier 3 are no longer present. The turntable and maintenance building east of Henderson Street, south of the fuel oil tank, and west of the Erie-Lackawanna rail yard are no longer present and Henderson Street has been renamed to (Luis Munoz) Marin Boulevard. North of the rail yard, the other turntable and remaining portion of the roundhouse are no longer present, but the remaining repair shops are now identified as the Conrail Hoboken Locomotive Facility. Grove Street has been renamed Manila Drive and the former Lackawanna Warehouse Co. is identified as the Hudson Industrial Center. The block surrounded by Marin (Henderson), 18th, Grove, and 19th Streets that had contained may smaller lots with no structures and was labeled for truck parking now is shown as one lot containing a larger unidentified building. West of Henderson St. and north of 19th Street and the railroad tracks, the two formerly unidentified (unlabeled) buildings south of the Wilson & Co. meat storage house are now identified as vacant. In the former space between the Wilson & Co. meat storage house and the small vacant building, an auto repair facility is now present. Northwest of Jersey Ave and 16th Street, the former vacant building is occupied by Metcon Inc. Southeast of Jersey Ave and Newark Ave there is a Conrail substation.

2006	Coverage is available for this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. Far west of the former Pier 3 and 4 location, Washington Blvd and 18th Street are shown connecting in a rounded bend of an intersection with 18th Street, continuing to the west parallel to the former canal that no longer extends as far inland as the 1988 map indicated. The former boiler and power houses that were present at the west end of the canal have been replaced by an Erie-Lackawanna R.R. storage building. The railroad tracks that were present to the south of the canal are no longer present and this area now contains only two tracks that run in a north-south direction connecting to the tracks located north of the former canal. East and west of these two sets of railroad tracks are two large buildings, one of which is identified as a warehouse. The fuel oil tank southeast of Marin Blvd and 18th Street is still present, but the former storage building has been replaced by two smaller storage buildings located closer to the tank. Southeast of Luis Munoz Marin Blvd and Observer Highway, three smaller buildings (warehouse, office, and storage) have been replaced by a large NJ TRANSIT building. Railroad tracks in the area between Manila Drive and 18th Street, and Jersey Ave and 18th Street, have been replaced by the continuance of 18th Street and northeast of Jersey Ave and 18th Street, a filling station is present. The former unidentified building located within the block surrounded by Marin Blvd, 18th, Grove, and 19th Streets is now identified as New Jersey Bell. West of Henderson St. and north of 19th Street and the railroad tracks, the formerly unidentified (unlabeled) building south of the Wilson & Co. meat storage house is now identified as apartments, while the larger vacant building, as well as the Burns Bros. building are no longer present. Northwest of Grove and 19th, the former truck repair garage and motor freight station are no longer present but the railroad tracks remain. Newark Avenue terminates at the intersection with Jersey Avenue and Hoboken Avenue connects to Coles Street.

Year	AREA 42
1885	**No Coverage**
1887	South of Hudson Place is the North Hudson Co. RR Depot with platform and a separate office building. The NH Co. RR departs the depot to the west and travels as an elevated railway along Ferry Street. Just inland from the Ferry House north of Hudson Place is Dukes House. North of Dukes House is an area identified as coal pockets and a nearby fire pump. Several international shipping companies are located on the mainland adjacent to the piers. Some of the shipping companies have bonded warehouses the east side of River Street. There are a few hotels located within the immediate area, as well as a couple of liveries and a riding school. The Hoboken Land and Import Co's Shops are located on the block surrounded by 1st, Hudson, 2nd, and River Streets they contain a blacksmith, two boiler rooms, an engine room, a carpenter shop, and a saw mill. The Camden & Amboy RR Co's Shops and the Penn RR Co. Lessees located east of River Street near 2nd Street contain a boiler shop, blacksmith, coal yard, machine shop and saw mill. Another machine shop and blacksmith is located along the east side of River Street between 2nd and 3rd Streets. At the southeast corner of the intersection of 3rd and River Streets is a hotel. At the east end of 3rd Street near the waterfront is a US bonded warehouse identified as Hoboken Stores and at the waterfront is Norodeutscher Lloyd Steamship Company that has two piers (Pier 2 to the south and Pier 1 to the north). North of the Hoboken Stores and south of 4th Street at the waterfront are the Hoboken Free Stores, east of which is another pier identified as Thingvalla Steamship Co. Between 4th and 5th Streets along the waterfront is Hudson Square.
1891	Coverage is available for the southern 60% of the area. South of the still-present shipping companies (Hamburg American Packet Company and Campbell & Co. and their associated stores) is a Ferry House (with store room, boiler room coal pockets, office and bell tower), located on the water east of Hudson Place and Newark Street. A platform connects the ferry area to the North Hudson Co. Railway Depot where several trestles are located. Several offices including a post office, evening news, banks, civil engineers and a boiler house are located on the block located east of River Street between Hudson Place and Newark Street. Along the Hudson River in the area between 4th and 5th Streets are several boat clubs and a bath house.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	Coverage is available for the entirety of Area 2. Along the Hudson River at the southern portion of this area is the Ferry Terminal consisting of 6 docking spaces for ferries (identified as going to 3 different locations in NY), the ferry concourse, waiting rooms connection to the train concourse and bus parking areas, as well as a public square. South of the docks is a US Mail Pier with a sorting room and open shed area. West of the ferry terminal north of Hudson Place are stores, auto parking, hotels, and offices. Northeast of River and Newark Streets, the US Post Office has taken over the entire building. Adjacent to the post office, to the north along the east side of River Street is a bank identified as "Seaboard Building", a tile storage building, a machine shop and then the Bulkhead Building (west of US Shipping Board Pier 4 and east of 2nd St) that contains a boiler room, storage, an elevator repair shop, a plumbing shot, a boiler and ship repair shop, a carpenter shop and offices. Continuing north to 4th Street along the water are United States Shipping Board Piers 1, 2, and 3 and adjacent on the land is another large long bulkhead building identified as Campbell's Stores Bonded & Free Warehouse for storage with offices. Between 4th and 5th Streets is the Atlantic Boat Club boat house just east of the bulkhead. East of Hudson Street and south of Hudson Place is the Hudson & Manhattan R.R. Way and Structural Department that contains a car repair shop, car elevator, and a turn table. The next few blocks between Hudson and River Streets north of Hudson Place to 3rd Street contain predominantly stores, a vacant theater, several hotels, offices, a bank, a bowling alley, hand laundry shops, a drug store, a bakery, winery, dining room, bar, flats, and a garage (Hudson Garage Co. of NJ Inc.). The block between 3rd and 4th Streets contains stores along River Street and dwellings along Hudson Street. Hudson Square occupies the block between 4th and 5th Streets.
1950	**No Coverage**
1951	Coverage is available for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. Immediately east of River Street just north of 2nd Street is a US Department of Agriculture Plant Quarantine Building, to the north across from 3rd Street is another building identified as US Government Occupancy, and to the north and just south of 4th Street is the Merchant Marine Branch YMCA. The block between River, Newark, Hudson, and First Streets is occupied primarily by Terminal Printing and Publishing and some stores. The block between 1st and 2nd Streets now also contains a clothing manufacturer, truck repair, and a cafe. The remaining blocks remain relatively unchanged.
1979	Coverage is available for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. Within the southern portion of this area, north of Hudson Place and east of River Street some of the commercial businesses have changed. On the waterfront, north of the ferry terminal east of 1st Street, US Government Piers 4 and 6 have been replaced with a wide Pier "A" identified as Hoboken Port Authority American Export Lines with two rail spurs that go onto the pier (one that divides and enters the building and one that runs along the northern side of the pier outside the building). The smaller Bulkhead Building east of 2nd Street is still present, but the footprint appears modified from earlier maps. Many of the previously identified shops appear the same, except there are no longer boiler rooms or a ship repair shop. Along the water, it appears that Pier 3 remains, but Piers 1 and 2 have been replaced with a wide Pier "C" identified as American Export Lines. North of Pier "C", the Atlantic Boat Club boat house is no longer present. Along the east side of River Street between 3rd and 4th Streets, the US Occupancy and Merchant Marine YMCA buildings are no longer present. The former Terminal Printing & Publishing on the block surrounded by River, Newark, Hudson, and 1st Streets is no longer present. Some of the areas are now vacant and some of the former stores are now occupied by a dining room for an adjacent hotel. The entire two blocks between River and Hudson Streets from 1st to 3rd Streets have been replaced by parking garages (two multi-story open deck, and one closed). The stores and dwellings that occupied the entire block surrounded by River, 3rd, Hudson, and 4th Streets has been replaced by the John J. Grogan Marineview Plaza consisting of two structures with elevators and a 4-story open deck parking garage.

1988	Coverage is available for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. On the waterfront, the 6 docking spaces at the ferry terminal are identified as "Not in Operation". The building previously shown on Pier "A" is no longer present or identified as Hoboken Port Authority American Export Lines, although the two rail spurs remain.
2006	Coverage is available for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. Along the waterfront, the former Piers 3 and "C" are no longer present; however, the area remains identified as Hoboken Port Authority. The former Bulkhead Buildings are no longer present; within this area a new road, parallel to River Street, has been constructed between Newark Ave and 4th Street and named Frank Sinatra Drive. Within the block surrounded by Frank Sinatra Drive, 1st, River, and 2nd Streets, apartments, commercial, and offices occupy the Veterans Plaza building and parking. The next block to the north, between 2nd and 3rd Streets is vacant, and the next block to the north, between 3rd and 4th Streets is subdivided on the east side, and the west side is identified as apartments, commercial, and offices.

Year	AREA 43
1885	**No Coverage**
1887	On the block surrounded by 5th, River, 6th, and Hudson Streets are several buildings identified as Stevens Institute. East of River Street between 5th and 6th Streets is a largely open area with several small single to 3-story buildings, some unidentified, others identified as lumber sheds and coal shed, followed by a pier to the east which is labeled Hudson Coal Co.'s Pier that contains elevated coal pockets. Along the waterfront north of 6th Street is the Castle Point Ship Yard. East of Hudson Street and 8th Street on Castle Point is Stevens Mansion and several other unidentified structures, including one identified as laundry. Stevens Institute continues along the waterfront for all of Catle Point north to 11th Street and consists of several smaller buildings that are considerably spread out across the area.. Hudson Street ends at the intersection with 11th Street, east of which is the Aspkall and Tar Works. North of this area Washington Street becomes the north-south running street farthest to the east. East of Washington and 12th Streets is the Colonade Hotel. Along the Hudson River east of this hotel there are six boat houses, two of which are located at the end of what appear to be long docks.
1891	There is only coverage for about 60% of this Area. Unless otherwise specified here, features remain unchanged from the previous maps. Along the waterfront at the south side of Castle Point is a building material yard, the Pocahontas Coal Pier containing coal trestles that extend into the water, a rock plaster mill, and a public pier. Along the waterfront at the north side of Castle Point there are four boat houses. Inland from these boat houses there is a small structure identified as NJ Yacht Club. Southeast of Hudson and 13th Streets is a lumber yard with a saw and planning mill. East of Hudson and 13th Streets, north of the lumber yard is W & A Fletcher Co., Iron Works that has a boiler shop, machine shop, blacksmith and flange shop, pattern shop, boiler room, wash room, and engine room. Southeast of Hudson and 14th Streets are several structures, two of which are identified as machine and blacksmith, as well as a stable, coal pockets, and a scale.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	There is coverage for the entirety of this Area. However, due to the expected lack of proposed features in the high elevation area of Castle Point, this review only covers the northern portion of this area from 9th through 14th Streets. Along the Hudson River there are four piers extending into the water that are associated with the Pennsylvania Railroad Hoboken Shops located immediately west on land. The shops include boat fender store, ship carpenters tools, storage, pattern storage, carpenters shop, lumber sheds, machine shop, store rooms, offices, sail loft, iron work area, and pipe shop. West of these shops is Hoboken Shore Road and several railroad tracks that travel near the shoreline around Castle Point. On the west side of the railroad tracks northeast of 9th Street and Castle Point Terrace is the Hoboken Tennis Club. Along the east side of Castle Point Terrace are several single family dwellings. At the north end of Castle Point Terrace (that terminates) is Elysian Park followed by railroad tracks that turn northwest from along the shore line. Beyond the tracks to the north, east of Hudson Street, where two rail spurs travel to the north into a wholesale lumber yard (Shephard & Morse Lumber Co.) operating as a lessee to the Lackawanna Railroad (Dodge & Leslie Terminal). There are two piers located immediately east of the lumberyard that are owned by the Lackawanna Railroad and operated by lessees. The southern pier is operated by Schultz Building Materials Co. (masons materials) and the northern pier (Pier 11) is operated by Lawson & MacMurray (lumber dealers). North of the lumber yard and east of Hudson Street is the Hoboken Dock Co. 12th St. Stores and warehouses, followed by the United Ship Works, Inc. Fletcher Plant (iron works & ship yard). There is a steel floating dry dock (9000 ton capacity) and four piers extending into the Hudson River east of the ship yard which has several buildings including joiner shop, sheet metal working area, acetylene tank storage, copper shop, lumber warehouse, machine shop, boiler shop, blacksmith and flange shop, band room, welding area, brass foundry, parking garage, storage, and offices. The blocks between Washington and Hudson Streets from 9th through 13th Streets are occupied by predominantly residential properties identified as dwellings, flats, or apartments. The block surrounded by Hudson, 12th, Washington, and 13th Streets contains an independent electric plant within the north central portion of the block. The block surrounded by Hudson, 13th, Washington, and 14th Streets contains a YMCA, a fire department, a cocoa bean storage, garage, hardware, drug store, laundry, Columbia Trust Co., and other unspecified stores.
1950	**No Coverage**
1951	There is coverage for the entirety of this Area. However, due to the expected lack of proposed features in the high elevation area of Castle Point, this review only covers the northern portion of this area from 9th through 14th Streets. Unless otherwise specified here, many of the features remain unchanged from the previous maps. West of Hoboken Shore Road and the Pennsylvania Railroad Hoboken Shops, two buildings of Stevens Institute of Technology, a dwelling, and the Stevens Hoboken Academy kindergarten are now present. The former wholesale lumber yard is now identified as General Food Corporation - Hoboken Plant that includes a factory area, Sanka Plant, extraction building, storage, manufacturing areas, offices, laboratory and the American Can Co. (can factory). South of and outside of the Sanka Plant there is a large vertical fuel oil tank and east of the Sanka Plant in an outdoor area are 4 horizontal solvent tanks. East of the boiler house is a chimney and east of the chimney there is an area surrounded by a concrete wall 14 ft. high noted as containing 5 fuel oil tanks. East of the fuel oil tanks is a cooling tower. Northeast of Elysian Park many more railroad tracks are now present along the southern boundary of General Foods between 10th and 11th Streets. Several of the tracks lead out to a car ferry slip that extends into the Hudson River. Adjacent to the northern side of these tracks is a cement warehouse. The former Hoboken Dock Co. building appears reduced in size and is identified as Superior Const. and mill construction. The former United Ship Works Inc. Fletcher Plant is now identified as the Bethlehem Steel Co. Shipbuilding Division Hoboken Yard iron works and ship yard, but the building labels remain unchanged. There is a note near the company name indicating "This plant not corrected since April 1943". Minor changes in identified commercial stores in the block surrounded by Hudson, 13th, Washington, and 14th Streets are noted.

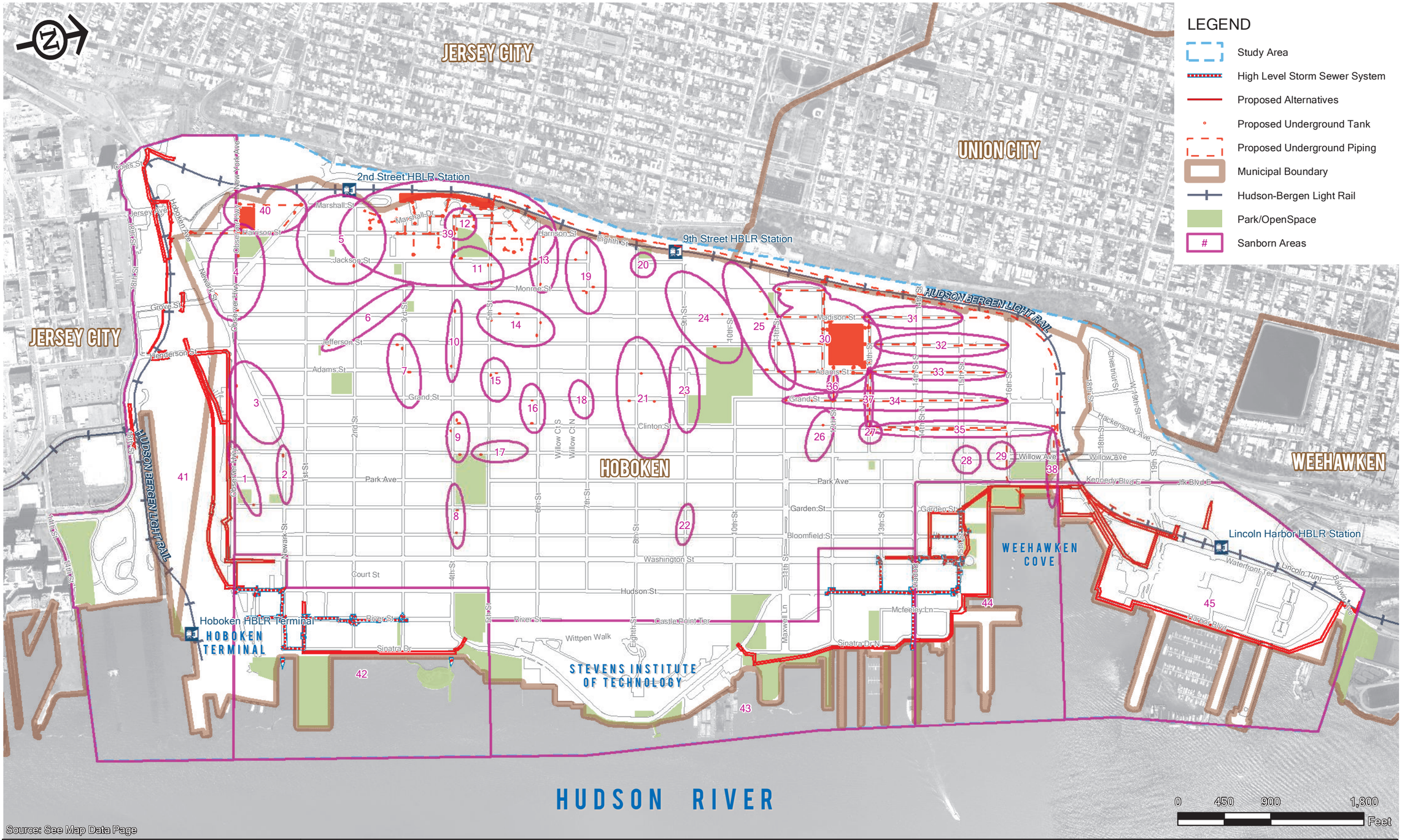
1979	There is coverage for the entirety of this Area. However, due to the expected lack of proposed features in the high elevation area of Castle Point, this review only covers the northern portion of this area from 9th through 14th Streets. Unless otherwise specified here, many of the features remain unchanged from the previous maps. All of the former Pennsylvania Railroad Hoboken Shops are no longer present. The former Hoboken Shore Road containing several railroad tracks is now identified as River Road and contains only one set of tracks. East of River Road across from the southern boundary of Elysian Park, there are 3 horizontal fuel oil tanks surrounded by a 4-foot high concrete wall. The former cement warehouse is no longer present. The General Foods Corporation and American Can Co. plants appear unchanged except for the addition of a warehouse space to the former office and laboratory building. There is a note near the company name indicating "Assoc. Risk No Longer Corrected". The same note appears for the unchanged Bethlehem Street Co. Shipbuilding Division Hoboken Yard iron works and ship yard north of the General Foods Corp. and American Can Co. plant. C.A.T.V. Cable Television moved into one of the previously unidentified spaces next to the YMCA within the block surrounded by Hudson, 13th, Washington, and 14th Streets.
1988	There is coverage for the entirety of this Area. However, due to the expected lack of proposed features in the high elevation area of Castle Point, this review only covers the northern portion of this area from 9th through 14th Streets. Unless otherwise specified here, many of the features remain unchanged from the previous maps. The former 3 horizontal fuel oil tanks east of River Road and the southern boundary of Elysian Park are no longer present.
2006	There is coverage for the entirety of this Area. However, due to the expected lack of proposed features in the area of Castle Point, this review only covers the northern portion of this area from 9th through 14th Streets. Unless otherwise specified here, many of the features remain unchanged from the previous maps. The railroad tracks west of and leading to the former car ferry slip, as well as the pier and bridge leading to the slip are no longer present. All of the buildings associated with the former General Foods Corp. and American Can Co. are no longer present. Sinatra Drive is shown perpendicular to Hudson Street across from 12th Street along the northern side of the former General Foods Corp. and American Can Co. site. The former Bethlehem Steel Co. Shipbuilding Division is no longer present and a new block surrounded by N. Frank Sinatra Drive, 13th, Hudson, and 14th Streets and divided by Bernard McFeely (Shipyard) Lane exists. East of Bernard McFeely Lane there are two sets of residential buildings (South and North Vanguard, and South and North Constitution). East of Hudson Street between 12th and 14th Streets, west of Bernard McFeely Lane, there are two apartment buildings with several commercial buildings in between.

Year	AREA 44
1885	**No Coverage**
1887	At the eastern end of 14th Street there is a ferry house with two boat slips and associated bridges, a waiting room, work shop, and carpenter shop, as well as a coal house. At the east end of 15th Street is a boiler house and further east along the shoreline of Weehawken Cove is a ship yard containing one larger and five smaller structures as well as a tar boiler.
1891	There is only coverage for a portion of this Area. Along the waterfront, there are two coal piers that appear to extend from the area of 15th Street. Park Avenue is located immediately along the shoreline.
1900	**No Coverage**
1906	**No Coverage**
1910	**No Coverage**
1936	**No Coverage**
1937	Coverage exists for the entirety of this Area. Along the waterfront, extending east from 14th Street is the approach to the 14th Street Ferry House that consists of two ferry slips that are identified as going to 23rd Street in New York. Toward the eastern end of the pier is an office, employee room, and a writing room. Closer to land there is a print shop, a repair shop for ferry boats, an auto repair (containing a 30 gal chemical tank), and a private garage. North of the ferry pier there is an ice dock followed by two piers (14 and 15) identified as being owned by Lamport & Holt Limited, and leased by Scandinavian-American Lines. Pier 16 is located north of Pier 15 and is identified as Hoboken Dock Co. (vacant pier). West of Pier 14 there is a steam plant with a chimney for Piers 14 and 15 within an area identified as "filled on piles". Continuing north along the shoreline is the Weehawken Cove. Within the cove the shoreline is located further to the west where 9 piers and associated dry docks that are part of the Todd Shipyard Corporation - Tietjen & Lang Plant extend into the water. Immediately west of the piers are the buildings associated with the shipyard operations that include a boiler shop, ship stores, offices, lumber storage, machine shop, saw mill, and joiner shop. Inland from the 14th Street Ferry House north of the approach there is a small grouping of stores, north of which is a Campbell's Stores warehouse. West of the small grouping of stores along the ferry approach is a set of railroad tracks originating from a point south and turning westward where they join with many other east-west railroad lines identified as the Hoboken Shore Railroad. Along the north side of 14th Street and east of Washington Street are several stores, a hotel with post office, a garage, and a couple of vacant spaces, north of which is the Hoboken Shore Railroad. North of the tracks are the factory terminal buildings that include the Lipton Tea Co. & Tenants, a coffee roasting area, two large pits for crude oil tanks located south of the power plant on the 1st floor, at least 8 elevators, two railroad spurs leading to the building that is located south of Weehawken Cove. Continuing west along the north side of 14th Street between Washington and Bloomfield Street is the Hoboken Trust Co. and another block of stores, north of which are two railroad spurs followed by the Hoboken Terminal Stores warehouse and the Hoboken Shore Road motor house. The block between Bloomfield and Garden Streets along the north side of 14th Street is what appears to be a filling station with 2 gasoline tanks located immediately southwest of the Bloomfield and 14th Street intersection within 14th Street. West of the gas station is the American Grocery Co. warehouse and offices. Two railroad spurs run along the north side of this block, beyond which is the Public Service Corporation containing a salt warehouse, a sub-station, a general warehouse, and a vacant space. Further north across the Hoboken Shore Railroad lines are additional factory terminal buildings occupied by a General Foods Corporation warehouse, coconut products with oil room, and boiler house. A driveway extends from the end of Garden Street that leads to the Todd Shipyard Corporation -Tietjen & Lang Plant consisting of a large building (engineering, boiler room, electrical department, and tin shop) and several smaller buildings (hospital, auto storage, oils and paints, loft, pitch boiling). On the block between Garden Street and Park Avenue north of 14th Street is the Continental Baking Co. Plant No. 3 with railroad spurs along the north side. North of the baking company along the east side of Park Avenue is the U.S. Testing Co., Inc.
1950	**No Coverage**
1951	Coverage exists for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. Piers 14 and 15 are no longer identified as being leased to Scandinavian-American Lines. The area of the former small grouping of stores north of the ferry approach and Campbell's Store warehouse is now occupied by a joined grouping of buildings identified as US Gov't Occupancy & Bethlehem Steel Co. Shipbuilding Yard and a note indicating "this block not corrected since April 1943". North of and behind the block of stores east of Washington and north of 14th Street is a motor freight transfer station and a rail spur. East of the Hoboken Shore Road motor house is a lumber storage building. The smaller General Foods Corp warehouse building (part of the factory terminal buildings) furthest east from the driveway extending from Garden Street has been enlarged to an approximate square structure and labeled Franklin Baker Division food warehouse. The former adjacent boiler house has also been enlarged and labeled as a boiler room. The former pits for two crude oil tanks located south of the loft areas of the largest factory terminal building are no longer present. The former hospital building (No. 13) located along the west side of the driveway to the Todd Shipyard Corporation - Tietjen & Lang Plant is no longer present.

1979	Coverage exists for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. The former 14th Street Ferry House pier is no long identified as such and the two ferry slips and buildings at the east and southwestern portions of the pier are no longer present and the pier is labeled as Bethlehem Steel Corp. Hoboken Yard, associated risk, no longer corrected. Additionally, there is a note indicating that the Sanborn sheet covering this area has not been corrected since April 1942. Although shown on the map, there is a note stating that Pier Nos. 14 and 15 are removed. The area of these former piers remains labeled as Bethlehem Steel Corp Hoboken Yard, not corrected since April 1943. Inland from the former Pier 15 location is a warehouse and a pump house with 3 vertical oil storage tanks. North of the tanks and southwest of Pier 16, an area is identified as boat sales and storage with a very small office building. North of the ferry approach, west of the driveway along the docks, US Gov't Occupancy has been removed from the building that remains labeled as Bethlehem Steel Co. Shipbuilding Yard. East of Washington and north of 14th Street, the former post office is now a commercial building and some of the former stores have been replaced by the Hudson Trust Co. drive-in bank. The presumed gas station at the northwest corner of Bloomfield and 14th Streets is now identified as a filling station and the building is enlarged and changed. The former Hoboken Terminal Stores warehouse and Hoboken Shore Road motor house are no longer identified although the building remains with no label. The former lumber storage located to the east is no longer present. The former Franklin Baker Division food warehouse and the former Lipton Tea Co. & Tenants are no longer labeled as such, although the buildings remain. The northern side of the largest factory terminal building is now identified as Standard Brands Inc. All of the buildings associated with Todd Shipyard Corp - Tietjen & Lang Plant are no longer present except for the auto storage (No. 12) and oils and paints (No. 11) located along the western side of the driveway extending from Garden Street. In the vicinity of the piers and dry docks there is a note indicating the ship repair business is no longer in operation.
1988	Coverage exists for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. The former Hudson Trust Co. drive-in bank located on the northeast corner of Washington and 14th Streets has been replaced by a traditional bank building. The former filling station building located on the northwest corner of Bloomfield and 14th Streets is no longer present, although the two gasoline tanks are still shown as present within and along the northern side of 14th Street. The southeast corner of the Public Service Corp building appears is no longer present and the area is noted as a transfer yard. The former auto storage (No. 12) and oils and paints (No. 11) buildings located north of the driveway extending from Garden Street are no longer present.
2006	Coverage exists for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. The former warehouse, pump house, and 3 vertical tanks located northeast of former Pier No. 15 are no longer present. The former Bethlehem Steel Co. Shipbuilding Yard buildings are no longer present. All of the former railroads within the area surrounded by 14th Street, Park Avenue, 16th Street, and the shoreline are no longer present. The driveway along the dock from the ferry approach has been improved, extended, and labeled Bernard McFeeley Lane. The block surrounded by Bernard McFeeley Lane, the extension of 14th Street (former ferry approach), and Hudson Street (which was extended, improved, and labeled as 15th Street) is now identified as parking. The block surrounded by Hudson, 14th, Washington, and 15th Streets primarily consists of parking with an office, a commercial business, and the Hudson Trust Co. Bank along 14th Street. The block surrounded by Washington, 14th, Bloomfield, and 15th Streets primarily consists of parking with a bank, stores, and a commercial business along 14th Street. The block surrounded by Bloomfield, 14th, and Garden Streets, primarily consists of parking with the remaining usage along 14th Street unchanged. The former US Testing Co. Inc. is no longer present, but the building outline remains and is identified as open deck parking. The former unidentified square building, boiler house, and boiler room east of General Foods Corp. is no longer present. The former chimney located southwest of the Standard Brands Inc. building has been removed. The former loading platforms located on the western side of the southern portion of this former factory terminal building are no longer present. The southern portion of the building is now identified as apartments and the building has been labeled Hudson Tea Building.

Year	AREA 45
1885	**No Coverage**
1887	**No Coverage**
1891	**No Coverage**
1900	Coverage exists for most of this Area, except the northern-most portion. Along the waterfront there are 9 piers (Piers A through D, and F through J) that extend into the Hudson River, all of which have at least one set of railroad tracks leading out onto the pier. The 5 northern-most piers are labeled as warehouses for the Erie Railroad. The southern-most pier (Pier J) is labeled as Penn. Coal Pier, and the next one to the north (Pier L) has a coal trestle. Inland from these piers are 4 boiler houses (No. 1 through 4, near Piers B, between C and D, F, and L), a pump house, vertical tank, and a large oil storage area (near Pier L), and an Erie Railroad warehouse (between Piers B and C). West of these buildings is the Erie Railroad rail yard and a couple of rail tracks labeled as New Jersey Junction Railroad. West of Pier A there are cattle pens, a platform leading to the adjacent railroad tracks, and a cattle bridge that goes over the tracks and connects to Baldwin Ave. West of the tracks and south of Baldwin Ave are the Erie Railroad stables. Southwest of the stables across the railroad tracks is a large area of cattle pens including some stables, an office, a shed, and a carpenter building. South of the cattle pens and east of Hudson Boulevard East (Park Ave) is additional Erie Railroad property containing a railroad turntable and roundhouse, a railroad trestle leading to coal pockets, stables, shed, and kindling wood storage. South of this area is additional rail yard with buildings of unspecified use along the east side of Hudson Boulevard East north of 19th Street. South of 19th Street along the east side of Hudson Boulevard East, is the Erie Railroad Freight House. East of Willow Ave is Benton, Heath & Co. Wall Paper that encompasses almost half of the block between 18th and 19th Streets, the remainder of which is either undeveloped or contains buildings of unspecified use. North of 19th Street between Hudson Boulevard East and Willow Ave (which becomes Branch Road) is a public school and other areas that are either undeveloped or contain buildings of unspecified use.
1906	**No Coverage**
1910	Coverage exists for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. Along the waterfront, all of the piers are now labeled as Erie Railroad and the four former boiler house buildings along the piers are no longer labeled as such. Beginning at the south end of this area inland from Pier J, the area is labeled Erie Railroad Marine Yard. Several buildings are now present within this area including a repair shop, warehouse, iron storage, hoisting engine, and an oil and paint storage building. Inland of Pier I, the vertical tank west of the boiler house is now labeled as a fuel oil tank. Pier E is now present and consists of a mooring rack. The area inland from Pier F has an area of scattered lumber located east of an office and lumber shed. West of the Erie Railroad rail yard, the turntable is no longer present and the "old round house" is identified as storage. East of the office within the cattle pens and across some of the tracks is a storage building for O'Rourke Engineering & Construction Co. At the northeast corner of the cattle pens south of Baldwin Ave is a large pile of iron pipes. East of this pile of pipes and south of Baldwin Ave is the James Emslie Horse Co. southeast of which is the Penn Railroad tunnel pit surrounded by a 12-foot high concrete wall. East of James Emslie Horse Co., along Baldwin Road (Coaldock Road) is an office and engine room with water tank for O'Rourke Engineering & Construction Co. that also has a railroad spur to a stone crusher plant located north of Baldwin Road. North of the Erie Railroad yards, the New Jersey Junction Railroad tracks continue north of Baldwin Road which extends toward the piers with a wooden viaduct over the tracks. East of the New Jersey Junction Railroad tracks is an area labeled Delaware & Hudson Canal Co., with a note "buildings and trestle not used". At the southeast corner of 19th Street and Hudson Boulevard East the four small former structures have been replaced by a single larger structure labeled McCann & Callery Coal Pockets (electric motor). Northwest of the 18th Street and Hudson Boulevard East intersection there is the Weehawken Contracting Co., an incandescent electric light manufacturer, a sewage disposal facility, and an electric light plant. The wall paper factory located east of Willow Ave between 18th and 19th Streets has been renamed Hobbs, Benton & Heath wall paper factory, north of which there is a nut cracker manufacturer, flats, saloons, stores, and dwellings. On the block north of 19th Street between Branch Road and Hudson Boulevard East the previous public school has doubled in size and is labeled Public School No. 1. The block also contains many stores, a saloon, drug store, flats, and a dwelling.
1936	Coverage exists for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. The Erie Railroad Co. Weehawken Terminal seems to have grown to include more railroad spurs leading to the piers than previous maps indicated. The Erie Railroad Marine Repair Dept. west of Piers H, I, and J has expanded to include three bunk houses, an oil pumping machine next to two large vertical tung oil tanks, lumber piles, and lumber shed. The former repair shop is now occupied by a carpenter shop, rope storage, and a blacksmith. A coal chute is present at the eastern end of Pier B. Pier D is leased to Arnold Berstein Steamship Co. and inland of Pier I, the former oil storage area is no longer present. A generator building and auto repair building are shown south of the tracks leading onto Pier H. An electric ferry slip to New York has been added to the eastern end of Pier A. The former cattle shed west of Pier A is no longer present; the area is now occupied by General Motors Export Co. shipping and assembling that occupies a large building with a boxing dept, woodworking area, duco painting, a paint vault, and office. West of General Motors Export Co., across the railroad tracks, and south of Baldwin Road, the buildings formerly occupied by O'Rourke Engineering and Contracting Co. and the former Erie Railroad cattle pens are no longer present. The Pennsylvania Railroad tunnel pit is larger and is now surrounded by an 8-foot high concrete wall. South of the former cattle pens, the former roundhouse used as storage is no longer present. Immediately southwest of this area along the east side of Hudson Boulevard East is the Jagels A Fuel Corporation coal operation with coal pockets, coop storage, auto garages, offices, stalls, and a gas tank. The former McCann & Callery building southeast of Park Ave and 19th Street is now a manufacturer of case hardening compounds and the adjacent freight storage facility to the south has expanded. South of 18th Street between Willow and Park Ave, the formerly unimproved lot north of the railroad tracks is now occupied by Charles S. Shultz Building Material Co. containing a building material warehouse, office, 9 stalls, and a boiler room. The block surrounded by Park Ave, 18th Street, Willow Ave, and 19th Street is almost completely occupied by S-B Penick & Co., a manufacturer of crude drugs, and contains a machine shop, drug mill room, a coppersmith (foundry and welding areas), pyrethrum extract plant, milled and crude drug areas, lab and packing, receiving and shipping, factory building, and storage. Along Park Ave near 18th Street there is also the Weehawken Sewage Disposal Plant Pump Station. The block north of 19th Street between Willow and Park Ave is virtually unchanged except the public school is now identified as Lincoln Public School No. 1.
1937	**No Coverage**

1950	Coverage exists for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. Along the waterfront, the Erie Railroad Weehawken Terminal remains in full operation except the former electric ferry slip on Pier A, the Pier E mooring rack, and Pier I are no longer present. The former Erie Railroad Marine Repair Department area that was located west of Piers I and J is no longer present. West of Pier A and General Motors Export Co., there is a machine shop located southeast of Baldwin Road next to (and west of) the railroad yard. A steel and concrete bridge consisting of inbound and outbound roadways leading to the Lincoln Tunnel Plaza crosses over Baldwin Ave, around the Pennsylvania Railroad tunnel pit, and crosses over Hudson Boulevard East before heading northeast into the Lincoln Tunnel. East of the tunnel plaza along the west side of Hudson Boulevard East is a field office building and garage. Southwest of the tunnel entry roadway in the area of the former cattle pens and former Jaegels A Fuel Corporation is a structure identified as Neo-Gravure Pring Co. Inc. that contains a paper stock area, ink room, press room, fan room, boiler room with two horizontal underground fuel oil tanks off the northeast corner of the building, offices, dining room, storage, shipping area, and truck dock. There are also five horizontal underground solvent tanks shown off the southeast corner of the building exterior near the ink room. On the block located northeast of the 19th Street and Park Ave intersection west of the railroad spurs, Dykes Lumber is present consisting of lumber sheds, yard, and small storage buildings. East of the Dykes Lumber Co. are coal storage buildings with an interior gas tank, office, and four exterior horizontal fuel oil tanks located south of the building. On the block formerly occupied by Charles S. Shultz Building Materials, the same buildings remain but are identified as being used for motor freight storage, an office, and 5 stalls. The northern two-thirds of the building formerly occupied by S-B Penick & Co. crude drug manufacturing is no longer present. The remaining portion of the S-B Penick building is identified as furniture warehouse and manufacturing. The foundry and welding areas for the coppersmith are still present. South of 19th Street between Park and Willow Ave are a few stores.
1951	**No Coverage**
1979	Coverage exists for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. Along the waterfront, only Piers A through D, H and J remain. The area formerly occupied by Erie Railroad rail yard and the piers are void of railroad tracks, except those previously identified as New Jersey Junction Railroad. The area formerly occupied by the Erie Railroad Marine Repair Dept is now identified as Todd Shipyard Corporation with a note stating "not corrected since March 1941". The remaining areas of the Erie Railroad yard are identified as Seatrain Lines Inc. containerized freight depot with a single building located within the southern portion of the yard east of 19th Street and the New Jersey Junction Railroad tracks. The former freight station and warehouse located southeast of 19th Street and Park Ave intersection is no longer present. The former coal storage east of Dykes Lumber Co. is shown reduced in size with the former gasoline and fuel oil tanks no longer shown. The former Neo-Gravure Printing Co. Inc. is now occupied by 3M with photo processing rooms, control rooms, dressing and locker rooms, and offices. The former Lincoln Tunnel field office building located west of Hudson Boulevard East is no longer present, but a new building identified as the Lincoln Tunnel New Jersey Administration Building is located east of Hudson Boulevard East north of Baldwin Ave. A toll house is also shown to extend across the tunnel plaza area. On the block south of 19th Street between Park and Willow Ave, the former motor freight storage building is no longer present. The smaller of the two remaining buildings on this lot is now identified as a dwelling and the larger one for commercial and manufacturing. The central portion of the block surrounded by Park Ave, 18th Street, Willow Ave, and 19th Street has a building identified as auto storage and repair. The northeastern corner of this block has been redeveloped as a filling station and the northwest corner of the block has a commercial building. On the next block north of 19th Street, the former Lincoln Public School No. 1 is no longer present.
1988	Coverage exists for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. Along the waterfront, only Piers A through D, H and J remain. Pier C no longer contains a building structure, but is identified as parking. The area formerly occupied by Seatrain Lines, Inc. containerized freight depot has no identifying labels. The building former occupied by Seatrain Lines is identified as Paine Webb offices, south of which is an open deck garage and generator room. In the area formerly identified as Todd Shipyard Corporation there is a metal building associated with transportation but no further identifying label. The former location of Dykes Lumber shows no structures, but at the southeast corner of 19th Street and Park Ave there is a new building labeled Dyke Lumber. On the south side of 19th Street between Park and Willow Ave the filling station and commercial buildings are no longer present; an unidentified structure of different layout is now present. On the block north of 19th Street between Park and Willow Ave is the Weehawken Fire Dept Engine No. 1 building.
2006	Coverage exists for the entirety of this Area. Unless otherwise specified here, many of the features remain unchanged from the previous maps. Along the waterfront, only Piers A, C, D, H, and J remain. Pier H is now labeled as open parking and apartments. Inland of the piers there are many improvements shown. Where railroad tracks used to cross Park Ave south of 18th Street, a new road, South Harbour Boulevard, has been constructed to the east/northeast toward the inland area west of the piers and connecting to another new road, Harbour Boulevard, that travels along the waterfront. Similarly, 19th Street has been extended toward this area with a new road, Waterfront Terrace, that travels parallel to the waterfront a block west of Harbour Boulevard. The overall area has been developed with several multi-story offices, hotels, and parking garages, and tennis courts. The northern portion of the inland area east of the Lincoln Tunnel helix is identified as parking. The former 3M building is now identified as offices with parking. East of Park Ave north of 19th Street two structures are now present; the southern building is identified as warehouse with offices, and the northern building is labeled "skel" and is presumed to be a skeleton structure that was begun and abandoned or is under construction.



Source: See Map Data Page

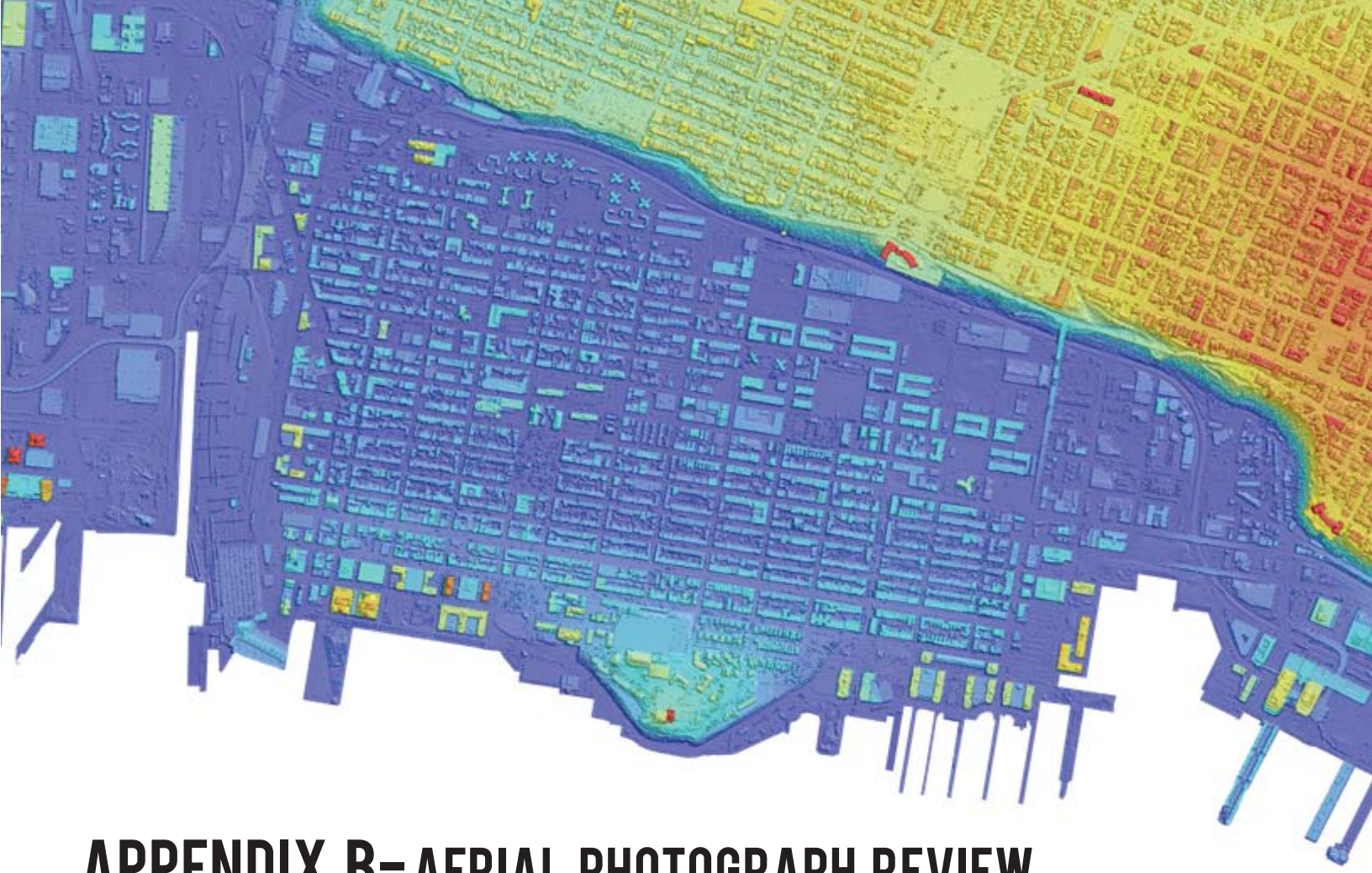
REBUILD BY DESIGN HUDSON RIVER ▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

Dewberry · State of New Jersey Department of Environmental Protection

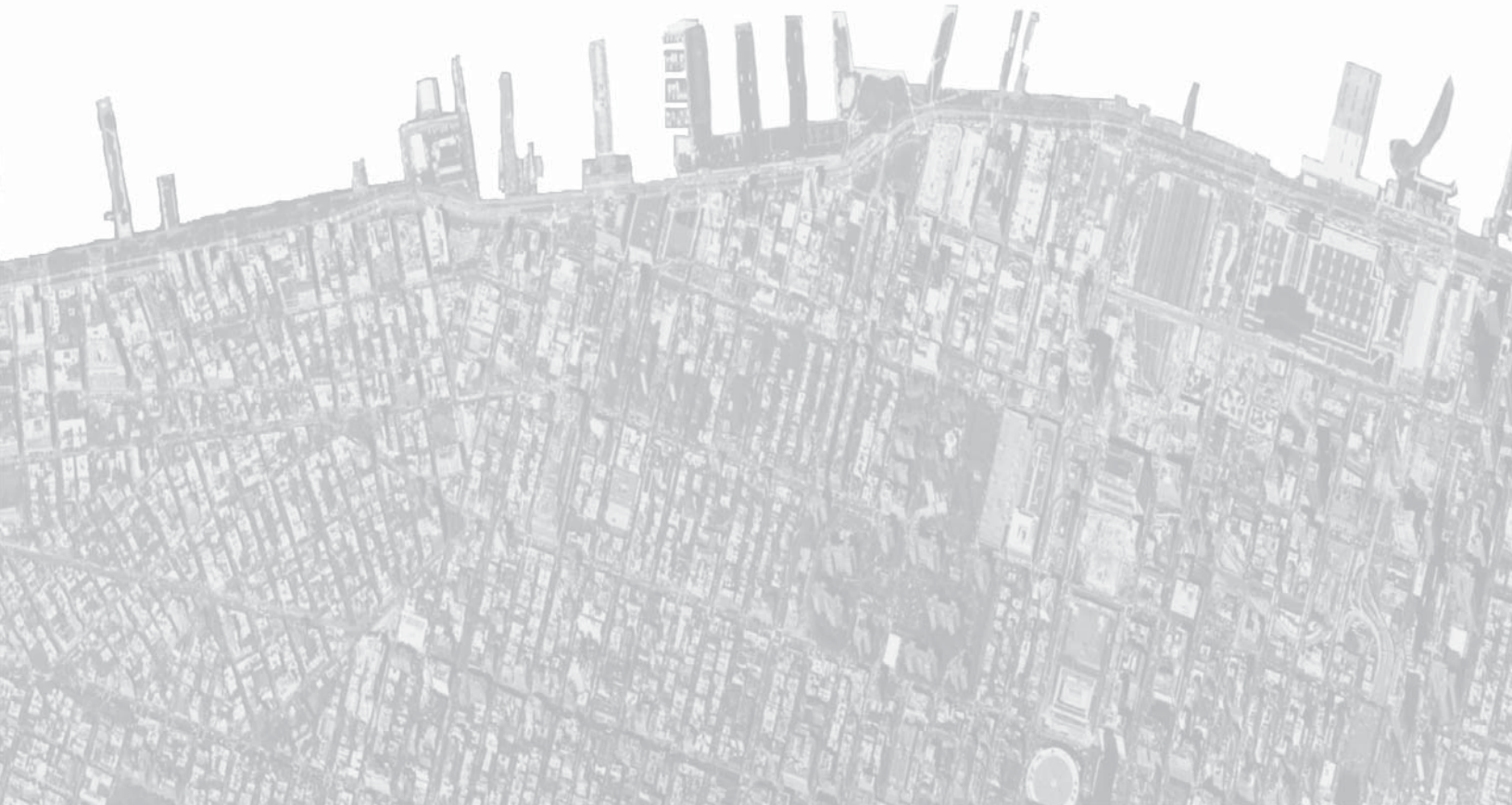
SANBORN AREAS

August 2016

Appendix A



APPENDIX B- AERIAL PHOTOGRAPH REVIEW



Dewberry Engineers Inc. (Dewberry) obtained historical aerial photographs of the subject property from Environmental Data Resources, Inc. (EDR) for the following years: 1940, 1943, 1951, 1954, 1961, 1966, 1974, 1981, 1985, 1991, 1995-94, 2006, 2009, 2011, and 2013.

Due to the size of the study area, EDR prepared and presented the photos in six different sections. Each year's description will be discussed by year and index section number.

The inland areas are comprised of the odd numbered index section numbers 1, 3, and 5. The waterfront areas along the Hudson River are comprised of the even numbered index section numbers 2, 4, and 6. Following are descriptions of the approximate limits of each index section:

Index Section No. 1: Northwestern section of the study area from West 19th Street south to 13th Street in Hoboken, and from the western boundary east to approximately Willow Avenue.

Index Section No. 2: Northeastern section of the study area from the Lincoln Tunnel "Helix" in Weehawken south to 13th Street in Hoboken, and west to Willow Avenue, approximately.

Index Section No. 3: Western mid-section of the study area between 15th Street and 4th Street in Hoboken, and from the western boundary east to approximately Park Avenue.

Index Section No. 4: Eastern mid-section of the study area between 15th Street south to 4th Street in Hoboken, approximately.

Index Section No. 5: Southwestern section of the study area from 4th Street in Hoboken south to the southern study area limit, and from the western boundary east to approximately Willow Avenue.

Index Section No. 6: Southeastern section of the study area from 4th Street in Hoboken south to the southern study area limits.

1940

Index Section No. 1: The photo is of very poor quality. The area west of Willow Avenue between 19th and 14th Streets consists of a mix of moderately sized buildings and cleared undeveloped lots. From 14th Street south to 12th Street there is a mix of larger buildings presumably warehouses and moderate-sized industrial buildings, some with outdoor storage yards. Along the west side of Willow Ave and north of 14 Street there appears to be smaller residential and/or commercial buildings. The block surrounded by Adams, 13th, Grand, and 12th Streets appears to have four vertical tanks within the southeastern corner. Immediately across Grand Street there appears to be an elevated water tank. Other blocks are cleared and undeveloped.

Index Section No. 2: The approach and entrance to the Lincoln Tunnel are visible. The area to the east of the Lincoln Tunnel approach and the waterfront is heavily developed with railroad tracks connecting the shipping docks to the mainland. There is an apparent tank farm located just north of the project limits. The shipping docks extend south from the apparent northern project limits in Weehawken, south to into Weehawken Cove. The railroad tracks extend south along Park Avenue and continue east along 15th Street to the docks seen to the northeast of the intersection of 15th Street and Shipyard Lane.

On the northeastern tip of Weehawken Cove, there appears to be a materials storage area with two circular structures, potentially for covered storage area. Boats/ships are all visible in each of the section photos being docked.

Index Section No. 3: South from 12th to 8th Street and west of Clinton Street, there is a mix larger buildings that appear to be warehouses and open undeveloped lots. The most notable open area is south of 11th Street to 9th Street between Jefferson and Clinton Street that will become John F. Kennedy Stadium and Columbus Park, the beginnings of which are visible. The area between 9th and 4th Streets and west of Willow Avenue is predominantly occupied by smaller buildings presumably residential and scattered small to medium sized commercial buildings.

Index Section No. 4: From 15th Street south to the Elysian Park/Maxwell Place area, more shipping docks and associated structures are visible. The railroad tracks do not appear to run along the current Frank Sinatra Drive. Buildings associated with Stevens Institute of Technology (Stevens) are visible. East of Stevens, across Frank Sinatra Drive, there is a large, north-south-oriented possibly covered dock structure. Docks and structures continue south of Stevens along Frank Sinatra Drive.

Index Section No. 5: South of 4th Street to Observer Highway and west of Willow Avenue to Harrison Street, the area is fully developed and consists predominantly of smaller residential buildings and small to medium commercial buildings. West of Harrison Street between 1st and 2nd Streets, the block is appears to contain some medium sized commercial buildings with cleared storage yards. West of Harrison between 2nd and 4th Streets, the entire area is cleared but undeveloped.

Index Section No. 6: Southeast of Stevens along Frank Sinatra Drive to 4th Street, there are more docks and ships. The area between Sinatra Drive and River Street from 4th Street to 1st Street appears partially developed with buildings associated with the docks, while the western half appears to be open space.

The area of Newark Street and the NJ TRANSIT Hoboken Terminal is developed similar to current conditions. The large pier, currently known as Pier A, was not yet built. The area south of Hoboken Terminal, known as Long Slip, appears developed with numerous railroad lines and more pier/docks.

1943

Index Section No. 1: No significant changes are noted from the 1940 aerial photograph.

Index Section No. 2: No significant changes are noted from the 1940 aerial photograph.

Index Section No. 3: No significant changes are noted from the 1940 aerial photograph.

Index Section No. 4: No significant changes are noted from the 1940 aerial photograph.

Index Section No. 5: The majority of the area remains unchanged from the 1940 aerial photograph. However, several buildings along the south side of Newark Street from Adams to Grand Street and the north side of Newark Street from Grand Street to Willow Avenue have been demolished/removed and is vacant in this aerial photograph.

Index Section No. 6: The Long Slip area south of the Hoboken Terminal is comprised of numerous railroad tracks, and shipping piers and docks.

1951

Index Section No. 1: The large flat-roofed building located southeast of the bend in the railroad at the northwestern city boundary is no longer present. Southwest of the former building a large addition was added to the smaller two buildings that are situated perpendicular to each other east of the railroad. The building located northwest of the Clinton and 15th Street intersection is no longer present and this yard is being used for parking. The area northwest of Grand and 16th Streets appears to contain a commercial building with much of the surrounding area used for outside storage. Otherwise, most of the remaining areas indicate no significant changes from the 1943 aerial photograph.

Index Section No. 2: No significant changes are noted from the 1943 aerial photograph.

Index Section No. 3: The former undeveloped lot surrounded by 12th, Adams, 13th, and Jefferson Streets contains three long buildings and outside storage. Previous structures on the lot surrounded by 12th, Clinton, 13th, and Grand Streets are no long present. The former vacant lots east of Jefferson Street, west of Grand Street, and between 9th and 11th Streets have been developed into a baseball field. Otherwise, most of the remaining areas show no significant changes from the 1943 aerial photograph.

Index Section No. 4: The area of the current Maxwell Place Park is no longer crowded with apparent barges or boats and that area (assumed to be water) is visibly darker than the surroundings. No other significant changes are noted from the 1943 aerial photograph.

Index Section No. 5: Site construction work is underway in the area west of Harrison Street and north of 2nd Street. No significant changes are noted from the 1943 aerial photograph.

Index Section No. 6: The southern-most pier has been removed from the series of piers located in the area of 4th Street south to 1st Street.

1954

Index Section No. 1: No significant changes are noted from the 1951 aerial photograph.

Index Section No. 2: No significant changes are noted from the 1951 aerial photograph.

Index Section No. 3: This is a poor quality photograph, but no significant changes are noted from the 1951 aerial photograph.

Index Section No. 4: No significant changes are noted from the 1951 aerial photograph.

Index Section No. 5: Newly constructed buildings for what at appears to be an apartment complex appear complete at the area west of Harrison Street and north of 2nd Street. Otherwise, most of the remaining areas indicate no significant changes from the 1951 aerial photograph.

Index Section No. 6: Pier A appears to be under construction. No other significant changes are noted from the 1951 aerial photograph.

1961

Index Section No. 1: Southeast of the bend in the railroad, north of 16th Street and west of Grand Street a sewage treatment facility has been constructed. Otherwise, most of the remaining areas indicate no significant changes from the 1954 aerial photograph.

Index Section No. 2: No significant changes are noted from the 1954 aerial photograph.

Index Section No. 3: This is a poor quality photograph. The block surrounded by 8th, Clinton, 9th, and Grand Streets appears to have been razed as there are no longer any structures visible on this site. Otherwise, most of the remaining areas indicate no significant changes from the 1954 aerial photograph.

Index Section No. 4: No significant changes are noted from the 1954 aerial photograph.

Index Section No. 5: This is a poor quality photograph. The former buildings on the block surrounded by Harrison, 4th, Jackson and 3rd Streets are no longer present and the block now contains what appear to be large H-shaped apartment buildings and surrounding walkways. Otherwise, most of the remaining areas indicate no significant changes from the 1954 aerial photograph.

Index Section No. 6: A large pier, similar to the current Pier A, has been constructed east of and between 3rd and 4th Streets. No other significant changes are noted from the 1954 aerial photograph.

1966

Index Section No. 1: No significant changes are noted from the 1961 aerial photograph.

Index Section No. 2: The piers in Weehawken Cove and to the north, usually crowded with boats, are empty. It appears that the railroad tracks are mostly removed. The piers south of Weehawken Cove are still occupied by boats.

Index Section No. 3: The former vacant lot surrounded by 12th, Jefferson, 13th, and Madison Streets has been partially developed with some buildings constructed within the northern half of the lot. The former baseball field turned open space in the 1961 aerial photograph located east of Jefferson Street and west of Grand Street between 9th and 11th Streets appears to be under site development into an oval-shaped track and presumably football field. The former cleared lot surrounded by 8th, Clinton, 9th, and Grand Streets has been developed to contain a single full-block sized building. Two blocks surrounded by 4th, Clinton, 6th, and Grand Streets have been razed of all structures and are shown as vacant and possibly undergoing site development construction in this aerial. An adjacent lot surrounded by 5th Street, Willow Avenue, 6th, and Clinton Streets has also been cleared of most of the structures except for a few smaller ones within the northern portion of the block. Otherwise, most of the remaining areas indicate no significant changes from the 1961 aerial photograph.

Index Section No. 4: No significant changes are noted from the 1961 aerial photograph.

Index Section No. 5: No significant changes are noted from the 1961 aerial photograph.

Index Section No. 6: No significant changes are noted from the 1961 aerial photograph.

1974

Index Section No. 1: Almost the entire block surrounded by 14th, Clinton, 15th, and Grand Streets has been razed of structures and is vacant. Otherwise, most of the remaining areas indicate no significant changes from the 1966 aerial photograph.

Index Section No. 2: Two of the piers north of Weehawken Cove have been deconstructed and removed; only the wooden support pylons remain and are visible. The former railroad yard has been converted into a shipping container staging area. One of the main piers has been retrofitted with cranes to load/unload shipping containers.

Index Section No. 3: The block surrounded by 12th Street, Willow Avenue, 13th, and Clinton Streets has been redeveloped into containing a large 3-wing shaped building presumed to be an apartment building. The block that was under site construction as a track and football field in the 1966 aerial photograph appears further advanced in construction. The two blocks surrounded by 4th, Clinton, 6th, and Grand Streets and the adjacent lot surrounded by 5th Street, Willow Avenue, 6th, and Clinton Streets appear to each contain a large multi-story apartment building and surrounding parking lots. Otherwise, most of the remaining areas indicate no significant changes from the 1966 aerial photograph.

Index Section No. 4: The Maxwell Place Park location has been filled and appears to be used either for parking or as storage area for Maxwell House Coffee plant. The Union Dry Dock & Repair Company (Union Dry Dock) building appears to have been demolished and transformed into a dock.

Index Section No. 5: No significant changes are noted from the 1966 aerial photograph.

Index Section No. 6: Some of the railroad tracks located in the Long Slip area south of the Hoboken Terminal have apparently been removed. The area appears to be less busy. The piers are not heavily occupied by boat traffic.

1981

Index Section No. 1: An addition was added to the east of the building located in the southwestern portion of the block surrounded by 15th, Grand, 16th, and Adams Streets. A large addition was added to the north of the building located east of the railroad tracks and west of Madison Street in the area of 13th Street. Otherwise, most of the remaining areas indicate no significant changes from the 1974 aerial photograph.

Index Section No. 2: The site located directly adjacent to/outside of the northern study area boundary appears to have a tank farm with various tank sizes and the remaining site area has been cleared of other stored containers visible in the previous 1974 photo. No boats are observed occupying the Weehawken Cove docks. No significant changes are noted within the study area boundary from the 1974 aerial photograph.

Index Section No. 2: No significant changes are noted from the 1974 aerial photograph.

Index Section No. 4: No significant changes are noted from the 1974 aerial photograph.

Index Section No. 5: Railroad tracks from the southern portion of the Hoboken Railroad Terminal yard have been removed. Otherwise, most of the remaining areas indicate no significant changes from the 1974 aerial photograph.

Index Section No. 6: The land area south of Long Slip is no longer a rail yard; the railroads have been removed and the large pier in the center area of the photo, south of Hoboken Terminal, appears to be under deconstruction.

1985

Index Section No. 1: No significant changes are noted from the 1981 aerial photograph.

Index Section No. 2: The Lincoln Harbor site appears vacant of shipping containers and no boats or ships occupy the docks. Two of the docks in Weehawken Cove have been removed as well as the northernmost of the docks extending off of the corner of 15th Street and Bernard-McFeeley Shipyard Lane. Some apparent clearing for construction work is visible south of 15th Street in the area between Bloomfield Street and Hudson Street.

Index Section No. 3: No significant changes were noted from the 1981 aerial photograph.

Index Section No. 4: The dock at the Union Dry Dock appears to mostly be removed. Docks located south of Castle Point/Frank Sinatra Drive and east of 5th and 6th Streets have been removed. No other significant changes are noted from the 1981 aerial photograph.

Index Section No. 5: No significant changes are noted from the 1981 aerial photograph.

Index Section No. 6: No significant changes are noted from the 1981 aerial photograph.

1991

Index Section No. 1: The sewage treatment plan (North Hudson Sewerage Authority) appears to be in the process of expanding. The two former circular structures west/northwest of the main building are no longer present and are being replaced by a single new one. Three large settling/flocculation tanks are now present as well. Otherwise, most of the remaining areas indicate no significant changes from the 1985 aerial photograph.

Index Section No. 2: At the northernmost area of the aerial photograph, the tank farm adjacent to/outside of the study area has been removed. In that area there appears to be a large void, potentially holding standing water.

Within the study area boundary, the Lincoln Harbor shipyard area has been redeveloped with a marina, two buildings, and associated parking area in the southern portion of the piece of land; the northern area still appears vacant/undeveloped. The small pier within Weehawken Cove has been removed. The apparent barges have been removed from docks at 15th Street and Bernard McFeeley Shipyard Lane and were replaced with smaller barge-like flotillas.

Index Section No. 3: No significant changes are noted from the 1985 aerial photograph.

Index Section No. 4: The area south of 15th Street between Bloomfield Street and Hudson Street has been developed as a parking lot. East of 15th and Hudson, there appears to be two soil stockpiles on the site. Union Dry Dock site appears to have been further removed. No other significant changes are noted from the 1985 aerial photograph.

Index Section No. 5: North of the Hoboken railroad terminal yard, there are no significant changes noted from the 1985 aerial photograph. South of the rail yard in Jersey City, Eighteenth Street has been constructed into the former area of the rail yard as well as additional changes to the south of the newly constructed Eighteenth Street. Other areas of this aerial photograph show no significant changes from 1985.

Index Section No. 6: Piers A and B, east of 1st Street and 4th Street respectively, appears different than the previous aerial photograph. The docks south of Long Slip have been

further removed, and the area appears to be undergoing redevelopment (excavation activities). A road has been constructed southwest of Long Slip.

1995-94

Index Section No. 1: This aerial photograph is of poor (dark) quality; however, no significant changes are noted from the 1991 aerial photograph.

Index Section No. 2: The northern area of the Lincoln Harbor has been developed with parking area. No other significant changes are noted from the 1991 aerial photograph.

Index Section No. 3: This aerial photograph is of poor (dark) quality; however, no significant changes are noted from the 1991 aerial photograph.

Index Section No. 4: The docks east of and between 12th Street and 15th Street are vacant of the small barge-like flotillas.

Index Section No. 5: This aerial photograph is of poor (dark) quality; however, no significant changes are noted from the 1991 aerial photograph.

Index Section No. 6: Pier B appears to be partially removed and Pier A is marked with "X's." No other significant changes are noted from the 1991 aerial photograph.

2006

Index Section No. 1: The two blocks surrounded by 12th, Adams, 13th, and Madison Streets have been razed of all structures. Additionally, the northern and southern thirds of the log surrounded by 13th, Adams, 14th, and Jefferson Streets are also cleared of structures. The scattered buildings and outdoor storage and parking that was present on the two blocks surrounded by 12th, Grand, 14th, and Adams Streets, as well as the block surrounded by 13th, Clinton, 14th, and Grand Streets are no longer present. These three blocks are now the site of large multi-story apartment buildings. No other significant changes are noted from the 1995-94 aerial photograph.

Index Section No. 2: No significant changes are noted from the 1995-94 aerial photograph.

Index Section No. 3: The former buildings and outdoor storage that were present on the two blocks surrounded by 11th, Grand, 12th, and Jefferson Streets are no longer present. These blocks are now the site of large multi-story apartment buildings. Similarly, the former building located along the south side of 12th Street between Clinton and Grand Streets has been replaced with a multi-story apartment building. Additionally the lot surrounded by 10th, Jefferson, 11th, and Madison Streets has been razed of all buildings and is vacant. The former buildings and outdoor storage and parking on the two blocks surrounded by 8th, Jefferson, 10th, and Madison Streets have also been replaced by large multi-story apartment buildings. No other significant changes are noted from the 1995-94 aerial photograph.

Index Section No. 4: The former Maxwell House Coffee facility has been demolished and the land is being redeveloped. The property on the block of Frank Sinatra Drive, between 2nd and 3rd Streets appears to be vacant with construction in progress. No other significant changes are noted from the 1995-94 aerial photograph.

Index Section No. 5: Two New Jersey Transit building are now present within the Hoboken railroad terminal area. One is located along the south side of Observer Highway and the other is located within the track area and is presumed used for service rail cars and accessed by employees only. No other significant changes are noted from the 1995-94 aerial photograph.

Index Section No. 6: Pier A has visible grass and shrubs growing. Pier B is completely removed. A bridge for the Hudson-Bergen Light Rail Bridge over Long Slip Canal has been constructed. The property south of long slip appears to be a staging or storage area, potentially for construction.

2009

Index Section No. 1: The previously vacant northern portion of the block surrounded by 13th, Adams, 14th, and Jefferson Streets now contains a moderate-sized building and associated parking lot. No other significant changes are noted from the 2006 aerial photograph.

Index Section No. 2: No significant changes were noted from the 2006 aerial photograph.

Index Section No. 3: The formerly vacant lot surrounded by 10th, Jefferson, 11th, and Madison Streets now contains a large multi-story, U-shaped apartment building. The formerly vacant lot surrounded by 8th, Madison, 9th, and Monroe Streets now contains a large rectangular apartment building with an open courtyard in the center. Some of the smaller vacant areas within the northwest and southwest corners of the block surrounded by 5th, Monroe, 6th, and Jackson Streets now contain moderate-sized commercial buildings. No other significant changes are noted from the 2006 aerial photograph.

Index Section No. 4: The former Maxwell House Coffee property redevelopment with associated piers appears completed. No other significant changes are noted from the 2006 aerial photograph.

Index Section No. 5: No significant changes were noted from the 2006 aerial photograph.

Index Section No. 6: The property on the block of Frank Sinatra Drive, between 2nd and 3rd Streets has been developed with the current “W Hoboken” hotel. The southern half of the block appears to be utilized for parking. Progress has been made in the development of the property area south of Long Slip Canal, however construction still appears to be underway.

2011

Index Section No. 1: No significant changes were noted from the 2009 aerial photograph.

Index Section No. 2: The Hoboken/Weehawken Cove park walkway along the waterfront appears to be under construction. A parking garage has been constructed on northern half of the block of 15th Street between Bloomfield Street and Washington Street.

Index Section No. 3: The formerly vacant southern half of the block surrounded by 11th, Jefferson, 12th, and Madison Streets now contains a multi-story commercial/office building. No other significant changes were noted from the 2009 aerial photograph.

Index Section No. 4: No significant changes were noted from the 2009 aerial photograph.

Index Section No. 5: No significant changes were noted from the 2009 aerial photograph.

Index Section No. 6: The Pier C park construction has apparently been completed. No other significant changes are noted from the 2009 aerial photograph.

2013

Index Section No. 1: The previously vacant portion of the multi-story rectangular shaped building with open courtyard on the block surrounded by 13th, Grand, 14th, and Adams Streets has been completed to match the remaining building and close the rectangle. Construction of a new structure is underway at the previously vacant southwestern corner of the intersection of 14th Street and Willow Avenue. No other significant changes were noted from the 2011 aerial photograph.

Index Section No. 2: Construction is in progress for the four buildings currently located in the northern portion of the Lincoln Harbor property. The Hoboken/Weehawken Cove Walkway along the waterfront appears to be mostly, if not totally, completed. No other significant changes are noted from the 2011 aerial photograph.

Index Section No. 3: No significant changes are noted from the 2011 aerial photograph.

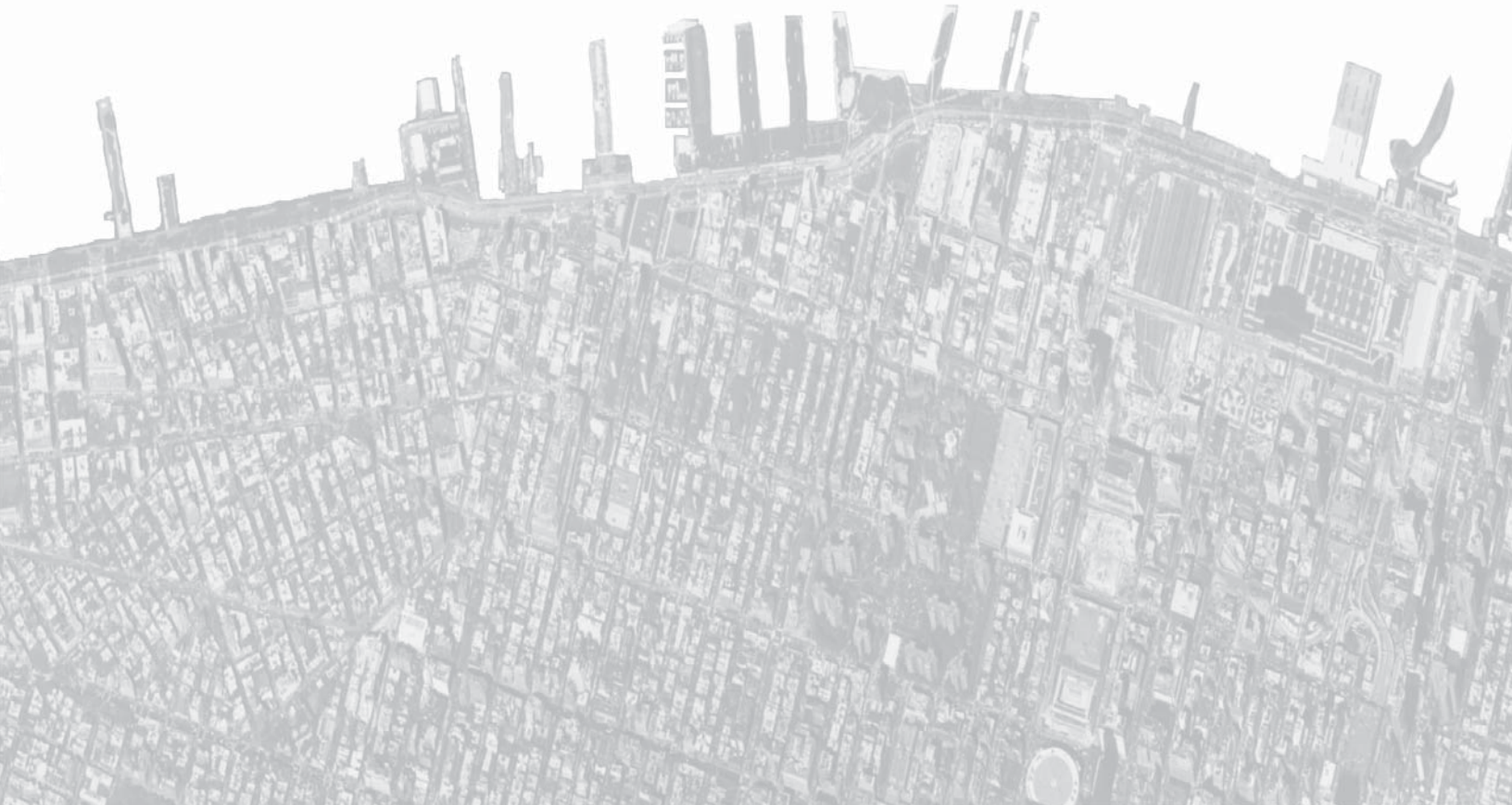
Index Section No. 4: Construction of the Maxwell Place retail and restaurant space, located on Maxwell Lane between 11th and 12th Street is in progress. No other significant changes are noted from the 2011 aerial photograph.

Index Section No. 5: No significant changes are noted from the 2011 aerial photograph.

Index Section No. 6: No significant changes are noted from the 2011 aerial photograph.



APPENDIX C- GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING / EDR DATA MAP



The following pages present a summary of the governmental records searched and the tracking of database requests and updating of data for each. The databases that were searched by EDR® include federal, state (New Jersey and some from New York), tribal, and EDR® proprietary records.

A complete copy of the EDR® Data Map – Area Study are included on compact disc in the pocket that follows.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 75

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 75

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 75

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/01/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/01/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 63

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/05/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/23/2015
Date Data Arrived at EDR: 03/24/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/24/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Semi-Annually

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/12/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/12/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/23/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: No Update Planned

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014
Date Data Arrived at EDR: 12/31/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/03/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/29/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/10/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/09/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/17/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/31/2015
Date Data Arrived at EDR: 04/09/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 63

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/04/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/07/2015
Date Data Arrived at EDR: 04/09/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/09/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 06/10/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Biennially

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/12/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/13/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/22/2015
Data Release Frequency: Annually

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: No Update Planned

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/01/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/10/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/07/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

STATE AND LOCAL RECORDS

NJ SHWS: Known Contaminated Sites in New Jersey

The Known Contaminated Sites in New Jersey includes sites under the purview of the Site Remediation Program which have contamination present at levels greater than the applicable cleanup criteria for soil and/or groundwater standards. The sites appearing in Known Contaminated Sites in New Jersey are classified as either active, where the site is assigned to a specific remedial program area, or pending, where the site is awaiting assignment to a specific remedial program area. Sites where no further action (NFA) designation has been given are not included in this report unless there are other areas of identified contamination which have not been remediated. This report includes sites being remediated under all of the various regulatory programs administered by the Site Remediation Program such as: Federal Superfund Program, Federal Resource Conservation and Recovery Act (RCRA), New Jersey's Industrial Site Recovery Act (ISRA), New Jersey's Underground Storage of Hazardous Substances Act, New Jersey's Spill Compensation and Control Act, New Jersey's Solid Waste Management Act, New Jersey's Water Pollution Control Act.

Date of Government Version: 05/30/2015
Date Data Arrived at EDR: 06/02/2015
Date Made Active in Reports: 06/15/2015
Number of Days to Update: 13

Source: New Jersey Department of Environmental Protection
Telephone: 609-292-8761
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

NY VAPOR REOPENED: Vapor Intrustion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 11/01/2014
Date Data Arrived at EDR: 11/19/2014
Date Made Active in Reports: 01/12/2015
Number of Days to Update: 54

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 05/22/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

NY HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/20/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Annually

NJ HIST HWS: Known Contaminated Sites Listing

The Known Contaminated Sites in New Jersey report is a municipal listing of sites where contamination of soil and/or ground water is confirmed at levels greater than the applicable cleanup criteria or standards. Remedial activities are underway or required at the sites with an on-site source(s) of contamination and at locations where the source(s) of contamination is unknown. Sites with completed remedial work that require engineering and/or institutional controls have reporting measures in place to ensure the effectiveness of past actions, and some include maintenance and/or monitoring

Date of Government Version: 05/09/2008
Date Data Arrived at EDR: 11/14/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 12

Source: Department of Environmental Protection
Telephone: 209-292-2943
Last EDR Contact: 03/16/2009
Next Scheduled EDR Contact: 06/15/2009
Data Release Frequency: No Update Planned

NJ CHROME: Chromate Chemical Production Waste Sites

Known chromate chemical production waste sites.

Date of Government Version: 09/17/2009
Date Data Arrived at EDR: 11/23/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 609-984-4071
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

NJ PF: Publicly Funded Cleanups Site Status Report

The report focuses on publicly funded cleanups and features progress achieved and underway at all sites that are being addressed by the NJDEP with public funds.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 04/25/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 11

Source: Department of Environmental Protection
Telephone: 609-292-9418
Last EDR Contact: 04/23/2015
Next Scheduled EDR Contact: 08/23/2015
Data Release Frequency: Annually

NY DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/20/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Annually

NY ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/20/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

NJ SWF/LF: Solid Waste Facility Directory

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/01/2015
Date Data Arrived at EDR: 05/06/2015
Date Made Active in Reports: 05/21/2015
Number of Days to Update: 15

Source: Department of Environmental Protection
Telephone: 609-984-6741
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Quarterly

NY SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/08/2015
Date Data Arrived at EDR: 04/10/2015
Date Made Active in Reports: 04/30/2015
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Semi-Annually

NJ UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 01/09/2009
Date Data Arrived at EDR: 02/25/2009
Date Made Active in Reports: 03/11/2009
Number of Days to Update: 14

Source: Department of Environmental Protection
Telephone: 609-292-0407
Last EDR Contact: 05/01/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

NY UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/11/2015
Date Made Active in Reports: 03/20/2015
Number of Days to Update: 9

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 06/11/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly

NJ SWRCY: Approved Class B Recycling Facilities

"Class B recyclable material" means a source separated recyclable material which is subject to Department approval prior to receipt, storage, processing or transfer at a recycling center in accordance with N.J.S.A. 13:1E-99.34b.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 05/06/2015
Date Made Active in Reports: 05/29/2015
Number of Days to Update: 23

Source: Department of Environmental Protection
Telephone: 609-984-6650
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

NJ NON OP LF: Non-Operating Landfills

The landfills described in this document are non-operating and historic landfills identified by, or reported to, the Department. Working with local and regional environmental agencies, community representatives, and through review of historic materials the Site Remediation Program is developing this inventory to prevent injury to human and ecological resources.

Date of Government Version: 06/26/2008
Date Data Arrived at EDR: 09/30/2010
Date Made Active in Reports: 10/15/2010
Number of Days to Update: 15

Source: Department of Environmental Protection
Telephone: 609-984-6650
Last EDR Contact: 06/18/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Varies

NJ HIST LF: Solid Waste Facility Directory

Old or non-permitted solid waste facilities/landfills that are not included in the current solid waste facilities/landfills database.

Date of Government Version: 06/10/2003
Date Data Arrived at EDR: 02/19/2004
Date Made Active in Reports: 03/09/2004
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: 609-984-6880
Last EDR Contact: 02/19/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NY SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

NY SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 04/08/2015
Date Data Arrived at EDR: 04/10/2015
Date Made Active in Reports: 04/30/2015
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Semi-Annually

NJ LUST: UST Active Remediation Sites Listing

A listing of regulated Underground Storage Tanks that have a cleanup underway.

Date of Government Version: 05/26/2015
Date Data Arrived at EDR: 05/28/2015
Date Made Active in Reports: 06/15/2015
Number of Days to Update: 18

Source: New Jersey Department of Environmental Protection
Telephone: 609-292-8761
Last EDR Contact: 05/28/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

NY LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/21/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

NJ HIST LUST: Historical Leaking USTs

This listing is no longer updated or maintained by the DEP.

Date of Government Version: 09/17/2002
Date Data Arrived at EDR: 01/27/2006
Date Made Active in Reports: 02/08/2006
Number of Days to Update: 12

Source: Department of Environment Protection
Telephone: 609-292-8761
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

NY HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NY TANKS: Storage Tank Faciliy Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

NJ UST: Underground Storage Tank Data

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/22/2014
Date Data Arrived at EDR: 12/18/2014
Date Made Active in Reports: 01/22/2015
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: No Update Planned

NY CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

NY MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

NY HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

NJ LIENS: Environmental LIENS

A listing of properties with environmental liens. The listing includes sites from the Site Remediation & Waste Management Program Sites where the Department has placed either a 1st Priority or Regular Spill Fund Lien against. 1st Priority Type Lien - a lien placed against the property where the discharged occurred providing that the owners of the property have some responsibility towards the discharge. First Priority Lien is superior to other types of liens. Non-Priority (Regular) Type Lien - a lien placed against the Responsible Party & their revenues and all real and personal property, other than the real property comprising the location of the discharge.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 03/27/2015
Date Made Active in Reports: 04/06/2015
Number of Days to Update: 10

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

NY AST: Petroleum Bulk Storage

Registered Aboveground Storage Tanks.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: No Update Planned

NY LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 05/08/2015
Date Data Arrived at EDR: 05/12/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 8

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 05/08/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

NJ MAJOR FACILITIES: List of Major Facilities
Major facilities means all facilities, located on one or more contiguous or adjacent properties owned or operated by the same person, having total combined storage capacity of 20,000 gallons or more for hazardous substances other than petroleum or petroleum products, or 200,000 gallons or more for hazardous substances of all kinds.

Date of Government Version: 02/24/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 9

Source: Department of Environmental Protection
Telephone: 609-292-1690
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

NY HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

NY CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

NJ HIST MAJOR FACILITIES: List of Major Facilities
Major facilities means all facilities, located on one or more contiguous or adjacent properties owned or operated by the same person, having total combined storage capacity of 20,000 gallons or more for hazardous substances other than petroleum or petroleum products, or 200,000 gallons or more for hazardous substances of all kinds. This file contains detail information that is no longer available by the Department of Environmental Protection due to security concerns.

Date of Government Version: 01/02/2002
Date Data Arrived at EDR: 01/11/2006
Date Made Active in Reports: 01/11/2006
Number of Days to Update: 0

Source: Department of Environmental Protection
Telephone: 609-633-7476
Last EDR Contact: 02/02/2009
Next Scheduled EDR Contact: 05/04/2009
Data Release Frequency: No Update Planned

NY MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 04/29/2015
Date Made Active in Reports: 05/29/2015
Number of Days to Update: 30
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2015
Date Data Arrived at EDR: 05/06/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 14
Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Annually

NJ Release: Hazardous Material Incident Database
Hazardous material release. Initial notification information reported to the Department of Environmental Protection's Environmental Action Line and the office has not conducted any investigations to determine its validity or accuracy.

Date of Government Version: 03/23/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 05/29/2015
Number of Days to Update: 31
Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 06/19/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Semi-Annually

NJ Spills: Spills
Initial notification information of hazardous material incidents, where there is land contamination, reported to the Department of Environmental Protection's Environmental Action Line. The DEP has not conducted any investigation to determine its validity or accuracy.

Date of Government Version: 03/23/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 05/29/2015
Number of Days to Update: 31
Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 06/19/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Annually

NY SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/21/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 29
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

NY HIST SPILLS: SPILLS Database
This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NJ ENG CONTROLS: Declaration Environmental Restriction/Deed Notice Sites

Legal Document that restricts the use of contaminated property; holds owner(s) to the regulatory/statutory requirements for cleanup.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 04/23/2015
Date Made Active in Reports: 05/29/2015
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

NY ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/20/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

NJ INST CONTROL: Classification Exception Area Sites

A Classification Exception Area is an institutional control providing notice that ground water contamination exists in a particular location above State standards.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 04/23/2015
Date Made Active in Reports: 05/29/2015
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

NY INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/20/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

NJ VCP: Voluntary Cleanup Program Sites

Through the VCP, responsible parties, developers, local officials, or individuals may work with the department to remediate non-priority contaminated sites that pose no immediate threat to human health or the environment.

Date of Government Version: 08/17/2013
Date Data Arrived at EDR: 11/27/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 44

Source: Department of Environmental Protection
Telephone: 609-341-3121
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

NY VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/20/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Semi-Annually

NJ DRYCLEANERS: Drycleaner List
A listing of registered drycleaners.

Date of Government Version: 05/12/2015
Date Data Arrived at EDR: 05/14/2015
Date Made Active in Reports: 06/15/2015
Number of Days to Update: 32

Source: Department of Environmental Protection
Telephone: 609-292-2795
Last EDR Contact: 05/12/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

NY DRYCLEANERS: Registered Drycleaners
A listing of all registered drycleaning facilities.

Date of Government Version: 03/31/2015
Date Data Arrived at EDR: 04/20/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 06/11/2015
Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Varies

NJ BROWNFIELDS: Brownfields Database
Brownfields are identified as former or current commercial or industrial use sites that are presently vacant or underutilized, on which there is suspected to have been a discharge of a contamination to the soil or groundwater at concentrations greater than applicable cleanup criteria.

Date of Government Version: 12/03/2012
Date Data Arrived at EDR: 02/27/2013
Date Made Active in Reports: 04/05/2013
Number of Days to Update: 37

Source: Department of Environmental Protection
Telephone: 609-292-1251
Last EDR Contact: 05/12/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Annually

NY BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/20/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Semi-Annually

NJ ISRA: ISRA Database
The ISRA process begins with determining if the Act applies to your type of business and transaction. The provisions of ISRA only apply to industrial establishments. What is an industrial establishment? The term "industrial establishment" refers to the type of business operations and transactions that would subject a facility to review under ISRA. An industrial establishment must meet each of the following three criteria: The place of business or real property at which such business is conducted, having a North American Industry Classification System (NAICS) code listed in N.J.A.C. 7:26 B - Appendix C subject to the specified exceptions and limitations. The place of business must have been engaged in operations on or after December 31, 1983; and The place of business must involve the generation, manufacture, refining, transportation, treatment, storage, handling, or disposal of hazardous substances or hazardous wastes.

Date of Government Version: 04/09/2015
Date Data Arrived at EDR: 05/07/2015
Date Made Active in Reports: 05/29/2015
Number of Days to Update: 22

Source: Department of Environmental Protection
Telephone: 609-984-3081
Last EDR Contact: 06/18/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Quarterly

NJPDES: New Jersey Pollutant Discharge Elimination System Dischargers

The NJPDES contains the names, addresses and other information of all permitted New Jersey Pollutant Discharge Elimination Sytem dischargers.

Date of Government Version: 05/01/2015
Date Data Arrived at EDR: 05/20/2015
Date Made Active in Reports: 06/15/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 609-984-4428
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

NY SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 05/01/2015
Date Data Arrived at EDR: 05/01/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 06/09/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: No Update Planned

NJ AIRS: Emissions Inventory Listing

An emission inventory is an estimate of air pollutant emissions in a given area. Emission inventories are fundamental building blocks used to develop air quality control strategies on a local, regional and national level. Emission inventories are also used to estimate the progress of an air quality program.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 08/07/2014
Date Made Active in Reports: 08/18/2014
Number of Days to Update: 11

Source: Department of Environmental Protection
Telephone: 609-984-5483
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

NY AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 04/17/2015
Date Data Arrived at EDR: 04/23/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Annually

NJ HWS RE-EVAL: Site Re-Evaluation Report

The locations were removed from the Known Contaminated Sites list for a variety of reasons. Some of the sites were taken off the list because they were inactive, some were not assigned a case worker and some were no longer contaminated. Inspectors from the DEP are now undertaking a full re-evaluation of each of the locations statewide. That includes visual and environmental tests to see whether contamination still exists.

Date of Government Version: 09/20/2007
Date Data Arrived at EDR: 10/12/2007
Date Made Active in Reports: 12/03/2007
Number of Days to Update: 52

Source: Department of Environmental Protection
Telephone: 609-984-3081
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: No Update Planned

NY ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 03/06/2015
Date Data Arrived at EDR: 03/27/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 27

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 06/19/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Varies

NY MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

NY RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/21/2014
Number of Days to Update: 21

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 06/25/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Varies

NY E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 03/17/2015
Date Data Arrived at EDR: 03/27/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 27

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 06/19/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Varies

NY CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

NJ GW CONTAM AREAS: Groundwater Contamination Areas

This data identifies those sites where groundwater contamination has been identified and, where appropriate, the NJDEP has established a Classification Exception Area (CEA). CEAs are institutional controls in geographically defined areas within which the New Jersey Ground Water Quality Standards (NJGWQS) for specific contaminants have been exceeded. When a CEA is designated for an area, the constituent standards and designated aquifer uses are suspended for the term of the CEA. This data layer contains information about areas in the state which are specified as the Currently Known Extent (CKE) of ground water pollution. CKE areas are geographically defined areas within which the local ground water resources are known to be compromised because the water quality exceeds drinking water and ground water quality standards for specific contaminants.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/25/2014
Date Made Active in Reports: 07/29/2014
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 609-777-0672
Last EDR Contact: 06/24/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Varies

NJ COAL ASH: Coal Ash Listing
Coal combustion survey ash listing.

Date of Government Version: 05/10/2010
Date Data Arrived at EDR: 05/12/2010
Date Made Active in Reports: 06/28/2010
Number of Days to Update: 47

Source: Department of Environmental Protection
Telephone: 609-984-6985
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

NJEMS: New Jersey Environmental Management System
NJEMS Sites are points representing sites regulated by NJDEP under one or more regulatory permitting or enforcement programs, or sites that are otherwise of some interest to a NJDEP program. Program interests included in NJEMS are: Air, Communications Center, Discharge Prevention, Exams and Licensing, Fish Game and Wildlife, Green Acres, Hazardous Waste, Lab Certification, Land Use, Landscape Irrigation, Parks and Forestry, Pesticides, Pinelands, Planning, Radiation, Right-to-Know, Site Remediation, Soil Conservation, Solid Waste, TCPA, Water Quality, Water Supply, and Watershed Management.

Date of Government Version: 04/04/2015
Date Data Arrived at EDR: 04/07/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: 609-633-1208
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

NY COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 04/08/2015
Date Data Arrived at EDR: 04/10/2015
Date Made Active in Reports: 05/11/2015
Number of Days to Update: 31

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 48

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 53

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/03/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 03/17/2015
Date Data Arrived at EDR: 05/01/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 52

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 24

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 53

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/26/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 27

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 03/17/2015
Date Data Arrived at EDR: 05/01/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 52

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 48

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/06/2015
Date Data Arrived at EDR: 05/19/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 34

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

NJ RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New Jersey Department of Environmental Protection in New Jersey.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: New Jersey Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

NJ RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New Jersey Department of Environmental Protection in New Jersey.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: New Jersey Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

NJ RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New Jersey Department of Environmental Protection in New Jersey.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: New Jersey Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

NY RGA LTANKS: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Tanks database provides a list of leaking above ground and underground storage tanks incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New York State of Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 03/04/2014
Number of Days to Update: 246

Source: New York State of Department of Environmental Conservation (NYSDEC)
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

NY RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

NY RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2015
Date Data Arrived at EDR: 05/06/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/16/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 12/22/2014
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 04/17/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/11/2015
Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Telephone: 281-546-1505
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: 800-823-6277
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Center Listings
Source: Department of Human Services
Telephone: 609-292-1018

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Environmental Protection
Telephone: 609-984-2243

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX D- CORRESPONDENCE

From: John Kerber <JKerber@phenv.com>
Sent: Thursday, August 20, 2015 11:40 AM
To: Vanderhoof, Anna
Subject: RE: Hoboken Waterfront - Site Investigation/Remediation Status Inquiry (PI No. G000028159)

Hi Anna,
I've put brief answers after each question below. If you would like to discuss further, call me at your convenience.

John Kerber
Office (732) 525-3100
Mobile (732) 266-0159

From: Vanderhoof, Anna [mailto:avanderhoof@Dewberry.com]
Sent: Wednesday, August 19, 2015 6:45 PM
To: John Kerber
Subject: RE: Hoboken Waterfront - Site Investigation/Remediation Status Inquiry (PI No. G000028159)

Hi John,

I have a few additional questions regarding this PI number below:

- Contaminants of concern – historic fill material (metals and PAHs)
- Was groundwater impacted? Has any contamination traveled off-site? Groundwater is impacted. Historic fill material is a regional issue and does not have to be "chased" off-site.
- Regarding the deed notice, what block/lots are affected and when was the deed notice put in place? The entire parcel. Block 231.4, Lots 1-4
- Is there a CEA on the property? And if so, what is the length of time? Yes and the duration is "indeterminate". There is no timeframe for a historic fill material related CEA. It is considered a "virtual" CEA and is maintained by NJDEP with no requirements of the remediating party or landowner.

Thank you again for your time,

Anna S. Vanderhoof, LEED Green Associate
Staff Engineer
Dewberry
600 Parsippany Rd., Suite 301
Parsippany, NJ 07054-3715
973.576.9664 (direct)
315.575.7117 (cell)
973.428.8509 (fax)
www.dewberry.com

From: John Kerber [mailto:JKerber@phenv.com]
Sent: Tuesday, July 28, 2015 5:04 PM
To: Vanderhoof, Anna
Subject: Re: Hoboken Waterfront - Block C - Site Investigation/Remediation Status Inquiry (PI No. G000028159)

Very simply this is a historic fill material site that is capped with a deed note, remedial action permit and no further action letter. Call me tomorrow if you need any more information.

Sent from my Verizon Wireless 4G LTE DROID
On Jul 28, 2015 5:00 PM, "Vanderhoof, Anna" <avanderhoof@Dewberry.com> wrote:

Good afternoon John,

My name is Anna Vanderhoof and I work for Dewberry Engineers in Parsippany, NJ. I am currently working on an environmental hazardous waste screening for the Hudson River waterfront area within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the Hoboken Waterfront Block C (PI No. G000028159) located at 333 River Street, Hoboken.

Could you please provide an overview of the environmental history of the site, the current remedial status of the site, and any proposed or ongoing investigations currently taking place?

If you have any questions, please feel free to contact me.

Anna S. Vanderhoof, LEED Green Associate
Staff Engineer
Dewberry
600 Parsippany Rd., Suite 301
Parsippany, NJ 07054-3715
973.576.9664
973.428.8509 (fax)
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Visit Dewberry's website at www.dewberry.com

If you've received this email even though it's intended for someone else, then please delete the email, don't share its contents with others, and don't read its attachments. Thank you.

From: GObert@njtransit.com
Sent: Thursday, August 20, 2015 8:43 AM
To: Vanderhoof, Anna
Subject: FW: NJ TRANSIT Hoboken Rail Yard - Site Investigation/Remediation Status Inquiry (PI No. 280867)

Anna,

See below response to your questions from Roux Associates. Bear in mind that the PI number you accessed is limited to the former diesel fuel storage tank facility. This is a property physically separated from the main yard. Fuel from the AST was piped to the Hoboken Yard fueling facility via underground piping directed beneath 18th Street and surfaced in the vicinity of the Pullman portion of the Hoboken yard adjacent to Luis Munoz Blvd. Also keep in mind that the AST property and approximately half the Hoboken Rail Yard reside in Jersey City.

Jerry

From: Bill Gilchrist [mailto:bgilchrist@rouxinc.com]
Sent: Thursday, August 20, 2015 8:27 AM
To: Obert, Gerald E. (CEDCGEO)
Subject: FW: NJ TRANSIT Hoboken Rail Yard - Site Investigation/Remediation Status Inquiry (PI No. 280867)

Jerry,

See my draft response to her request for information. Do you have anything to add?

William B. Gilchrist, LSRP| Principal Hydrogeologist | **ROUX ASSOCIATES, INC.**
402 Heron Drive | Logan Township, New Jersey 08085
Office: (856) 832-3780 Direct | General(856) 423-8800 | Mobile: (302) 547-2467 | Fax: (856) 241-4670

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From: Vanderhoof, Anna [mailto:avanderhoof@Dewberry.com]
Sent: Wednesday, August 19, 2015 6:45 PM
To: Bill Gilchrist
Subject: NJ TRANSIT Hoboken Rail Yard - Site Investigation/Remediation Status Inquiry (PI No. 280867)

Good afternoon,

My name is Anna Vanderhoof and I work for Dewberry Engineers in Parsippany, NJ. I am currently working on an environmental hazardous waste screening for the Hudson River waterfront area within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the NJ TRANSIT Hoboken Rail Yard (PI No. 280867) located at the southeast corner of Marin Boulevard and 18th Street in Jersey City.

For our review, we need to know the following items:

- Contaminants of concern – Petroleum constituents and historic fill
- Status of the investigation or remediation of the site – RI is ongoing
- Was groundwater impacted? Yes Has any contamination traveled off-site? Yes, but there is co-mingled groundwater contamination, as the surrounding area was also part of a historical rail yard, of which the NJ Transit parcel is part of.
- Is there a deed notice and/or CEA in place for this site? Not at this time.
    - If there is a CEA, what is the length of time?

If you have any questions, please feel free to contact me.
Thank you for your time.

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From: Donald Bello <dbello@lsrpenvironmentalconsulting.com>
Sent: Wednesday, August 19, 2015 7:35 PM
To: Vanderhoof, Anna
Subject: Re: Union Dry Dock & Repair Company - Site Investigation/Remediation Status Inquiry (PI No. 013004)

Ms. Vanderhoof

To answer your questions regarding Union Dry Dock, note:

- **Status of the investigation or remediation of the site -** The status is ongoing
- **Contaminants of concern**
  - **Soils** - In general polycyclic aromatic hydrocabons (PAH, very low levels) and selected metals (e.g., arsenic, beryllium, lead, nickel, etc.)
  - **GW** - Selected metals (aluminum, iron, lead, manganese, nickel, etc.)

  Note that site is a documented historical fill site and, as such, is assumed by NJDEP to be impacted in both soils and ground water by both PAH and selected metals

- **Was groundwater impacted?** - See Above
- **Has any contamination traveled off-site?** - Not to our knowledge
- **Is there a deed notice and/or CEA in place for this site?** - No

Please note my new contact information.

Donald Bello (LSRP #574870)
Technical Director
Dbello@LSRPEnvironmentalConsulting.com

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On Wed, Aug 19, 2015 at 6:44 PM, Vanderhoof, Anna <avanderhoof@dewberry.com> wrote:

Good afternoon Donald,

My name is Anna Vanderhoof and I work for Dewberry Engineers in Parsippany, NJ. I am currently working on an environmental hazardous waste screening for the Hudson River waterfront area within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the Union Dry Dock & Repair Company site (PI No. PI No. 013004) located at 901 Sinatra Drive in Hoboken.

For our review, we need to know the following items:

- Status of the investigation or remediation of the site
- Contaminants of concern
- Was groundwater impacted? Has any contamination traveled off-site?
- Is there a deed notice and/or CEA in place for this site?

o If there is a deed notice, when was it put in place and for what block/lots?

o If there is a CEA, what is the length of time?

If you have any questions, please feel free to contact me.
Thank you for your time.

Anna S. Vanderhoof, LEED Green Associate

Staff Engineer

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From: Michael Novak <mnovak@solutionsenvironmental.com>
Sent: Monday, October 12, 2015 11:58 AM
To: Vanderhoof, Anna
Subject: RE: R. Neumann & Company (300 Observer Highway) - Site Investigation/Remediation Status Inquiry (PI No. 014613)

Hi Anna,

I will review the file and have specific answers for you later this week. In brief, the site is relatively benign from a hazardous substance standpoint.

There will be a Deed Notice and Engineering Controls for Historic Fill; possibly a Historic Fill CEA for groundwater.

There Might ultimately be a CEA for groundwater contamination (diesel fuel, nothing significant). We are addressing, through excavation and disposal, the lone area of concern (AOC) that is causing petroleum contamination at one monitoring well (otherwise the groundwater at the property has not been impacted by site operations).
It is as likely as not that the forthcoming soil excavation will complete the groundwater remedy and allow case closure without CEA. Worse case, there will be a CEA of finite duration for the limited petroleum contamination.

No off-site migration of groundwater contamination confirmed or suspected.

Mike

Michael Novak, LSRP, President
Atlantic Environmental Solutions, Inc.
5 Marine View Plaza, Suite 303
Hoboken, NJ 07030
o. (201) 876-9400 x305
c. (201) 245-6269

From: Vanderhoof, Anna [mailto:avanderhoof@Dewberry.com]
Sent: Monday, October 12, 2015 11:46 AM
To: Michael Novak
Subject: R. Neumann & Company (300 Observer Highway) - Site Investigation/Remediation Status Inquiry (PI No. 014613)

Good afternoon Mike,

I am currently on a team that is working on an environmental hazardous waste screening for a Rebuild By Design Hudson River project for the river waterfront and adjacent/surrounding area within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the R. Neumann site located at 300 Observer Highway (PI No. 014613) in Hoboken. Unfortunately, I think I did the file review before your PA and SIR were available for public review (on September 15th) so I may have to recall the project files again. If you could please answer the following questions to help clarify the current/most up-to-date status of the site, I would greatly appreciate it.

For our review, we need to know the following items:

- Status of the investigation or remediation of the site? - I know a PA Report and SI Report were submitted. Have you performed additional work since then?
- Specific contaminants of concern
- Has groundwater been impacted?
- Has any contamination traveled off-site?
- Is there/will there be a deed notice and/or CEA in place for this site? I realize it is early in the process yet of SI/RI/RA for a Deed Notice. Is that the goal, to have engineering/institutional controls put in place?
    - If there is/will be a deed notice, when was/will it be put in place (rough estimate) and for what block/lots?
    - If there is/will be a CEA, what is the length of time (rough estimate)?

Please contact me if you have any questions regarding this request.

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From: Al Moffit <Al.Moffit@ewma.com>
Sent: Friday, October 09, 2015 1:25 PM
To: Vanderhoof, Anna
Subject: RE: St. Lawrence Place/Gateway To Weehawken (1721 Willow Ave, Weehawken) - Site Investigation/Remediation Status Inquiry (PI No. 582540)

Anna,

Sorry for not getting back to you sooner. I don't recall seeing the earlier email; maybe it went to my spam folder.

With regards to the Cocheo Brothers site, I have no information about this property.

In response to your other questions, I've responded to you items below (in yellow):

- Contaminants of concern: historic fill related compounds (metals, EPH, PAHs, pesticides).
- Status of the investigation or remediation of the site: RIR complete; deed notice recorded, RAR submitted. Awaiting RAP back from NJDEP so that an RAO can be issued.
- Was groundwater impacted? (I'm assuming yes by lead and arsenic covered in the CEA…any other contaminants?). – Yes, CEA established in January 2015.
- Has any contamination traveled off-site? – Likely since contamination was due to regional historic fill material
- Is there a deed notice in place for this site? - Yes an entire side wide one that was just recently recorded
    - If there is a deed notice, when was it put in place and for what block/lots? – Block 11, Lot 5
- I see there is a CEA for lead and arsenic, is this correct? – Yes Are any other contaminants included in the CEA? – yes, iron, manganese, and sodium.

Hope this helps.

Thanks,
Al

From: Vanderhoof, Anna [mailto:avanderhoof@Dewberry.com]
Sent: Friday, October 9, 2015 12:12 PM
To: Al Moffit
Subject: FW: St. Lawrence Place/Gateway To Weehawken (1721 Willow Ave, Weehawken) - Site Investigation/Remediation Status Inquiry (PI No. 582540)

Good morning,

Following up on my email I sent September 17th. I am currently on a team that is working on an environmental hazardous waste screening for a Rebuild By Design Hudson River project for the river waterfront and adjacent/surrounding area within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the property located at 1721 Willow Avenue (PI No. 582540) in Weehawken. Also, this site shares Block 11 Lot 5 with another SRS site known as Cocheo Brothers located at 1801-1831 Willow Avenue (PI No. G000015809). Do you have anything to do with this PI number/project? If you could please answer the following questions to help clarify the current status of the site (PI #582540) as well as Cocheo Brothers (if you are knowledgeable regarding it of course), I would greatly appreciate it.

For our review, we need to know the following items:

- Contaminants of concern
- Status of the investigation or remediation of the site
- Was groundwater impacted? (I'm assuming yes by lead and arsenic covered in the CEA…any other contaminants?). Has any contamination traveled off-site?
- Is there a deed notice in place for this site?
    - If there is a deed notice, when was it put in place and for what block/lots?

I see there is a CEA for lead and arsenic, is this correct? Are any other contaminants included in the CEA?

Please let me know if you are willing to provide this information or not. A response either way would be greatly appreciated.

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From: Vanderhoof, Anna
Sent: Thursday, September 17, 2015 4:52 PM
To: 'Al.Moffit@ewma.com' <Al.Moffit@ewma.com>
Subject: St. Lawrence Place/Gateway To Weehawken (1721 Willow Ave) - Site Investigation/Remediation Status Inquiry (PI No. 582540)

Good afternoon Al,

I am currently working on an environmental hazardous waste screening for the Hudson River waterfront and adjacent/surrounding area within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the property located at 1721 Willow Avenue (PI No. 582540) in Weehawken. Also, this site shares Block 11 Lot 5 with another site known as Cocheo Brothers located at 1801-1831 Willow Avenue (PI No. G000015809). Do you have anything to do with this PI number/project? If you could please answer the following questions to help clarify the current status of the site (PI #582540) as well as Cocheo Brothers (if you are knowledgeable regarding it of course), I would greatly appreciate it.

For our review, we need to know the following items:

- Contaminants of concern
- Status of the investigation or remediation of the site
- Was groundwater impacted? Has any contamination traveled off-site?
- Is there a deed notice and/or CEA in place for this site?
    - If there is a deed notice, when was it put in place and for what block/lots?
    - If there is a CEA, what is the length of time?

If you have any questions, please feel free to contact me.
Thank you for your time.

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From: Paul McAndrew <pmcandrew@Langan.com>
Sent: Tuesday, September 29, 2015 5:21 PM
To: Vanderhoof, Anna
Cc: Alfred Smith
Subject: RE: Maxwell House Coffee Co. (1101-1125 Hudson St., Hoboken) - Site Investigation/Remediation Status Inquiry (PI No. 010958)

No problem Anna.

Block C is municipal Block 261.01, Lot 1.

The groundwater monitoring for VOCs is at a well located in Sinatra Drive north, along the east side of Block B close to the intersection with 11th Street. We are monitoring residual VOC impacts that were previously found in groundwater primarily on Block B and Block F, although some impacts were found on the other blocks as well. The prior consultant on the project submitted a proposed CEA to the NJDEP that covers all of the blocks, and the NJDEP requested additional monitoring to demonstrate a decreasing concentration trend before the CEA could be approved. That is the monitoring that we are performing now.

Paul

Paul McAndrew, PE, LEED AP, LSRP
Senior Project Manager
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Mobile: 201.315.4166
File Sharing Link

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From: Vanderhoof, Anna [mailto:avanderhoof@Dewberry.com]
Sent: Monday, September 28, 2015 4:05 PM
To: Paul McAndrew
Subject: RE: Maxwell House Coffee Co. (1101-1125 Hudson St., Hoboken) - Site Investigation/Remediation Status Inquiry (PI No. 010958)

Paul,

Thank you again for taking the time to speak with me. While writing up my notes from our conversation, I have identified 2 questions/gaps if you could fill them in:

Please confirm the block and lot for Block C as I only heard and noted that there was no Deed Notice in place yet.
Also, for the monitored natural attenuation/groundwater monitoring, is this being performed with respect to the entire site (Block A-F) resulting in an Entire Site Deed Notice and CEA or is it confined to specific project blocks (D and F)?

Thank you,

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From: Paul McAndrew [mailto:pmcandrew@Langan.com]
Sent: Monday, September 28, 2015 1:07 PM
To: Vanderhoof, Anna <avanderhoof@Dewberry.com>
Cc: Bob Koto <bkoto@Langan.com>
Subject: RE: Maxwell House Coffee Co. (1101-1125 Hudson St., Hoboken) - Site Investigation/Remediation Status Inquiry (PI No. 010958)

Anna - I can help you with this. I'll be available at 3:00 today if you have time to talk.

Paul

From: Vanderhoof, Anna [mailto:avanderhoof@Dewberry.com]
Sent: Monday, September 28, 2015 12:42 PM
To: Paul McAndrew; rkoto@langan.com
Subject: Maxwell House Coffee Co. (1101-1125 Hudson St., Hoboken) - Site Investigation/Remediation Status Inquiry (PI No. 010958)

Good afternoon Paul/Robert,

I am currently working on an environmental hazardous waste screening for the Hudson River waterfront within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP for this site and I found your names as the LSRPs of record on NJDEP Dataminer for the Maxwell House Coffee Company site (PI No. 010958) located at 1101-1125 Hudson Street in Hoboken. If you would please answer the following questions to help clarify the current status of the site, it would be very helpful.

Over the course of our review for this screening, my colleague and I have come up with a few questions that concisely sum up what we need to know:

- Status/phase of the investigation or remediation of the site
- Contaminants of concern
- Was groundwater impacted? Has any contamination traveled off-site?
- I saw that there is a Deed Notice on Block 261.07 L1 and Block 261.02 Lot 1 (I got these Block/Lot numbers from NJDEP GeoWeb Map). Are these Blocks/Lots correct? When was the Deed Notice put in place?
- Is there a CEA in place for this site?
    - If so, when was it put in place and do you know of any changes in the block/lot numbers?
    - If there is a CEA, what is the length of time?

If you have any questions, please feel free to contact me.
I greatly appreciate your time.

Thanks,
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From: Jeff Mulligan <JMulligan@ecolsciences.com>
Sent: Tuesday, August 25, 2015 9:42 AM
To: Vanderhoof, Anna
Cc: Henry Waller (HWALLER@tollbrothersinc.com); Ken Paul
Subject: Dell Aquilla/Hoboken Cove

Anna:

Following please find responses to your questions regarding the Hoboken Cove property as per you e-mail from August 19, 2015 (attached).

From: "Vanderhoof, Anna" <avanderhoof@Dewberry.com>
Date: August 19, 2015 at 6:46:44 PM EDT
To: "kpaul@ecolsciences.com" <kpaul@ecolsciences.com>
Subject: RE: Anthony Dell Aquilla/Hoboken Cove - Site Investigation/Remediation Status Inquiry (PI No. 016773) for Hazardous Waste Screening

Good evening Ken,

I am following up on my last email I sent last month regarding the BDLI Associates site (former Anthony Dell Aquilla site) located at 1500 Hudson Street in Hoboken.

For our review, we need to know the following items:

- Status of the investigation or remediation of the site

Investigations were completed pursuant to the December 1996 RAW approval which acknowledged that the entire Site is underlain by historic fill subject to capping and a Deed Notice.

- Contaminants of concern

COCs identified on the Site are PAHs and Metals typical of historic fill.

- Was groundwater impacted? Has any contamination traveled off-site?

No groundwater issues were identified based upon prior investigations and as such, no offsite migration issues exist.

- Is there a deed notice and/or CEA in place for these sites?

Initial Deed Notice encompassing entire site was filed on September 19, 2000. No CEA. As per the Soil Remedial Action Permit issued on March 30, 2015, the specific lots subject to the Deed Notice are as follows: B 126, L5; B255, L4.03; B264, L3.01; B268.1, L1 & 2; B269.02, L1; B269.03, L1; and B269.04, L1.

  - If there is a deed notice, when was it put in place and for what block/lots?
  - If there is a CEA, what is the length of time?

If you have any questions, please feel free to contact me.
Thank you for your time.

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From: Bill Gilchrist <bgilchrist@rouxinc.com>
Sent: Thursday, August 20, 2015 8:41 AM
To: Vanderhoof, Anna
Subject: RE: NJ TRANSIT Hoboken Rail Yard - Site Investigation/Remediation Status Inquiry (PI No. 280867)

Maria,

My responses to your questions are in red below. Feel free to call me if you have any additional questions.

From: Vanderhoof, Anna [mailto:avanderhoof@Dewberry.com]
Sent: Wednesday, August 19, 2015 6:45 PM
To: Bill Gilchrist
Subject: NJ TRANSIT Hoboken Rail Yard - Site Investigation/Remediation Status Inquiry (PI No. 280867)

Good afternoon,

My name is Anna Vanderhoof and I work for Dewberry Engineers in Parsippany, NJ. I am currently working on an environmental hazardous waste screening for the Hudson River waterfront area within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the NJ TRANSIT Hoboken Rail Yard (PI No. 280867) located at the southeast corner of Marin Boulevard and 18th Street in Jersey City.

For our review, we need to know the following items:

- Contaminants of concern – Petroleum constituents and historic fill
- Status of the investigation or remediation of the site – RI is ongoing
- Was groundwater impacted? Has any contamination traveled off-site? Yes, but there is co-mingled groundwater contamination, as the surrounding area was also part of a historical rail yard, of which the NJ Transit parcel is part of.
- Is there a deed notice and/or CEA in place for this site? Not at this time.
    - If there is a CEA, what is the length of time?

If you have any questions, please feel free to contact me.
Thank you for your time.

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From: John Kerber <JKerber@phenv.com>
Sent: Tuesday, July 28, 2015 5:04 PM
To: Vanderhoof, Anna
Subject: Re: Hoboken Waterfront - Block C - Site Investigation/Remediation Status Inquiry (PI No. G000028159)

Very simply this is a historic fill material site that is capped with a deed note, remedial action permit and no further action letter. Call me tomorrow if you need any more information.

Sent from my Verizon Wireless 4G LTE DROID
On Jul 28, 2015 5:00 PM, "Vanderhoof, Anna" <avanderhoof@Dewberry.com> wrote:

Good afternoon John,

My name is Anna Vanderhoof and I work for Dewberry Engineers in Parsippany, NJ. I am currently working on an environmental hazardous waste screening for the Hudson River waterfront area within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the Hoboken Waterfront Block C (PI No. G000028159) located at 333 River Street, Hoboken.

Could you please provide an overview of the environmental history of the site, the current remedial status of the site, and any proposed or ongoing investigations currently taking place?

If you have any questions, please feel free to contact me.

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From: Michael Morris <mmorris@Langan.com>
Sent: Thursday, April 21, 2016 3:39 PM
To: Tso, Jonathan
Subject: RE: LSRP Question Regarding PI No. 649943

I just left you a voice-mail. Please call to further discuss.'

Mike

From: Tso, Jonathan [mailto:jtso@Dewberry.com]
Sent: Thursday, April 21, 2016 2:49 PM
To: Michael Morris
Subject: RE: LSRP Question Regarding PI No. 649943

Hi Michael,

Thank you for responding to my questions. I am still confused about the actual location of the site. According to our GIS data and Hoboken Tax Records, Block 120 is situated between Jefferson Street to the east and Adams Street to the west. Although the site plan you provided me is labeled as Block 121, it is actually portraying Block 120. Block 121 is situated with Adams Street to the West and Grand Street to the East. The first attachment is from our GIS data and the second attachment is from the Hoboken Tax Assessor's Office. The RAO is also addressed for 450-456 14th Street, however, Tax Records show that 450-456 14th Street is Block 120, Lot 25 (third attachment).

If you could please clarify, I'd really appreciate it. Thanks you.
Jon

Jonathan Tso
Staff Environmental Scientist
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From: Michael Morris [mailto:mmorris@Langan.com]
Sent: Tuesday, April 19, 2016 4:21 PM
To: Tso, Jonathan <jtso@Dewberry.com>
Subject: RE: LSRP Question Regarding PI No. 649943

Hi Jon,

121. See attached RAO and amendment. Also attached is a site plan.

Let me know if you have any questions or need anything else.

Mike

Michael Morris
Senior Project Manager
Direct: 973.560.4582
Mobile: 201.294.4130
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From: Tso, Jonathan [mailto:jtso@Dewberry.com]
Sent: Monday, April 18, 2016 3:24 PM
To: Michael Morris
Subject: LSRP Question Regarding PI No. 649943

Hello Michael,

My name is Jonathan Tso and I work for Dewberry Engineers in Parsippany, NJ. I am currently working on an environmental hazardous waste screening for the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the **1400 Adams Street and 450-456 14th Street** site in Hoboken (NJDEP Case No. 14-05-22-1043-21, PI No. 649943, and Langan Project No. 100462001).

I reviewed the RAR dated June 25, 2014 and the RAO-addendum dated March 10, 2015 and wanted to clarify the Block Location for the Site. Is the actual location of the site located at Block 120, Lots 25/26 or is it located at Block 121, Lots 25/26? Tax records indicate that Block 120 is located between Jefferson Street and Adams Street, while Block 121 is located between Adams Street and Grand Street. The Site Plan Figure (Figure 2) text in the RAR states that the Site is **Block 120 Lots 25/26**, but the image itself shows **Block 121**. The image also shows that Adams Street is to the east of the lots. The UHOT form and municipal tank permits indicate that the Site is located on Block 120/removal approval was for Block 120 Lot 25/26, however, your RAO and RAO form indicates that the site is located on Block 121.

Can you please clarify which Block the site is actually on?

If you could get back to me, I'd greatly appreciate it.

Thank you,
Jon

Jonathan Tso
Staff Environmental Scientist
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From: Madden, Sean S (DEC) <sean.madden@dec.ny.gov>
Sent: Wednesday, January 13, 2016 9:42 AM
To: Tso, Jonathan
Subject: RE: Lower Hudson PCBs

Hi Jonathan,

Probably your best potential source of data would be the CARP studies.

http://www.carpweb.org/main.html

Some of the historic publications of Richard Bopp et al. also talk about sources of PCBs to the harbor area. Lisa Rodenburg (nee Totten) has focused on atmospheric sources to the harbor, and her studies may be helpful for your work.

Of course, you can also go to some of the RI documents for the Hudson River Superfund and see what data are available. Less data in the estuary than in the river above Troy, but there may be some.

http://www3.epa.gov/hudson/

NOAA also has a Hudson River contaminants database that they keep well up to date. Again, data in the NY/NJ area may be limited, but it is worth a search.

http://response.restoration.noaa.gov/environmental-restoration/environmental-assessment-tools/query-manager-marplot-data-maps.html

I hope that helps and best of luck!

Sean

From: Tso, Jonathan [mailto:jtso@Dewberry.com]
Sent: Wednesday, January 13, 2016 8:21 AM
To: Madden, Sean S (DEC)
Subject: Lower Hudson PCBs

Hello Mr. Madden,

My name is Jonathan Tso from Dewberry Engineers. We have been contracted by the New Jersey Department of Environmental Protection Agency (NJDEP) to perform an environmental study on the City of Hoboken in Hudson County, New Jersey. It is to my knowledge that the PCB contamination due to the release by General Electric from the two upstate facilities has made its way as far south to the southern tip of Manhattan. I was wondering if you are aware of any sampling/work that was performed within the New York/New Jersey border/portion of the Hudson River.

If you could get back to me, that would be much appreciated.

Thank you,

Jon Tso

Jonathan Tso
Staff Environmental Scientist
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From: Romanowski, Larisa <Romanowski.Larisa@epa.gov>
Sent: Thursday, March 03, 2016 4:13 PM
To: Tso, Jonathan
Subject: RE: Hudson River PCBs Lower Hudson
Attachments: LowerRiverDataTablesFigure.pdf

Hi Jonathan,
As you know, it took some time to pull the historical information together, but I hope this will be helpful.
The Hudson River PCBs Superfund site includes a 200-mile stretch of river between Fort Edward and the Battery in New York City. However, EPA's remedy for the Hudson River is focused on the upper 40 miles of the site from Fort Edward to the Federal Dam in Troy. As such, the vast majority of data collected for this project is focused on this upper section of the River. In reviewing the available data we have, there is minimal data located near Hoboken. Attached is a map that we have prepared for you which shows the sediment sampling locations in the lower river (Troy to New York) and tables which show total PCB results and approximate coordinates. This sediment data was collected during various studies between 1977 and 1993 and was used as part of the Remedial Investigation (RI) and Re-Assessment of the site in 1999. In addition to the attached sediment data, GE has been collecting water and fish samples from the lower Hudson regularly since 2004. This information can be provided if needed. Please be aware that additional data may be available from other agencies or organizations such as the New York State Department of Environmental Conservation. Below is a brief description of the studies presented in the attached data:

1977 NYSDEC data - Consists of four cores taken in 1977 south of the Federal Dam, part of the larger effort by the NYSDEC to characterize the sediment between 1976 and 1978.

1977 and 1986 Bopp Cores - Two cores were collected in 1977 and 1986 by a team led by Dr. Richard F. Bopp, a professor at RPI. The 1977 core was collected for a research paper published in Environmental Science Technology, Vol. 16, No 10, pp 666-676. The 1986 core was collected as part of a report to the Hudson River Foundation. Both cores were collected in the river near the city of Kingston, NY.

1992 High Resolution Coring Program - Conducted in 1992 as part of the River Re-Assessment program including cores in both the Upper Hudson and Lower Hudson, with 11 cores in the Lower Hudson. Three of these cores (HR-002, -003, and -004) are located in New York Harbor.

1993 Ecological Assessment – Surface sediment (0 to 5 cm) data collected in 1993. The data spans the river from approximately Albany to White Plains. Five samples were collected and analyzed from each location.

Larisa W. Romanowski
Public Affairs Specialist
U.S. Environmental Protection Agency
Region 2 Hudson River Field Office
187 Wolf Road, Suite 303
Albany, NY 12205
(518) 407-0400
romanowski.larisa@epa.gov

From: Romanowski, Larisa
Sent: Wednesday, January 13, 2016 3:01 PM

To: 'Tso, Jonathan' <jtso@Dewberry.com>
Subject: RE: Hudson River PCBs Lower Hudson

Hi Jonathan,
I'll look into this and will be back in touch. Thanks, Larisa

Larisa W. Romanowski
Public Affairs Specialist
U.S. Environmental Protection Agency
Region 2 Hudson River Field Office
187 Wolf Road, Suite 303
Albany, NY 12205
(518) 407-0400
romanowski.larisa@epa.gov

From: Tso, Jonathan [mailto:jtso@Dewberry.com]
Sent: Tuesday, January 12, 2016 12:56 PM
To: Romanowski, Larisa
Subject: Hudson River PCBs Lower Hudson

Hello Ms. Romanowski,

My name is Jonathan Tso and I am from Dewberry Engineers. We were retained by the New Jersey Department of Environmental Protection (NJDEP) to perform an environmental study on the City of Hoboken in Hudson County New Jersey. It is to our knowledge that a great portion of the Hudson River is contaminated with PCBs due to General Eletric's discharge from Hudson Falls and Fort Edwards, New York. We were wondering if any studies/sampling were completed within the Lower Hudson (towards New Jersey and Manhattan) regarding this case. Also, are you aware of any studies/sampling performed specifically on the New Jersey side of the Hudson to document how far the PCB has travelled?

If you could help answer my questions, that'd be great? Thank you.

Jonathan Tso

Jonathan Tso
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From: New York DEC Support <newyorkdec@mycusthelp.net>
Sent: Tuesday, March 15, 2016 2:16 PM
To: Tso, Jonathan
Subject: Freedom of Information Law Request :: W004779-030916

--- Please respond above this line ---

Central Office - Albany
P: 518 402-9741 | F:
www.dec.ny.gov

RE: PUBLIC RECORDS REQUEST of 3/9/2016, Reference # W004779-030916

Dear Jonathan Tso,

I am writing in response to your Freedom of Information Law (FOIL) request seeking:
Hudson River PCB Sediments, specifically areas of the Lower Hudson by New York/New Jersey border.Dewberry Engineers has been retained by the New Jersey Department of Environmental Protection (NJDEP) Agency to perform an environmental study on the City of Hoboken in Hudson County, New Jersey. Dewberry is aware that a great portion of the Hudson River is contaminated with PCBs due to General Electric's discharge from Hudson Falls and Fort Edwards, New York. Please provide documents regarding studies/sampling events performed within the vicinity of the New York/New Jersey border..

A diligent search of the files maintained by the Division of Environmental Remediation produced no responsive records. However, I can identify a source of information, a joint program in which the Department participates.

Please go to http://www.carpweb.org/main.html , the web page for the "Contamination Assessment and Reduction Project" or CARP for NY / NJ Harbor. On that page, you can find the link to download the form to obtain data from the CARP Data Archive. It appears based upon my preliminary view of the data that there are available PCB data from over 130 sediment sampling locations in NY/NJ Harbor, some in the immediate vicinity of Hoboken.

If I can be of further assistance, please contact me at 518 402-9778 and reference FOIL W004779-030916.

Sincerely,
Kevin Farrar

From: Herzberg, Mark <Mark.Herzberg@dep.nj.gov>
Sent: Wednesday, January 06, 2016 1:14 PM
To: Tso, Jonathan
Cc: DEP depwebinbox
Subject: Contact NJDEP E-Mail #025173- SITE REMEDIATION

Mr. Tso – I assume that you are referring to the Quanta Resources site in Edgewater. If so then you may want to look at the sort of information that USEPA maintains on the site and consider a request to them since they are the lead agency. http://www.epa.gov/superfund/national-priorities-list-npl-sites-state#NJ

If you want to request NJDEP files you should request information regarding PI#003945.

Mark Herzberg
NJDEP Office of Community Relations
Phone (609) 633-1369
Fax (609) 633-2360
mark.herzberg@dep.nj.gov

-----Original Message-----
From: contactdep@dep.nj.gov.-.do.not.reply [mailto:contactdep@dep.nj.gov.-.do.not.reply]
Sent: Tuesday, January 05, 2016 3:16 PM
To: DEP depwebinbox
Subject: Contact NJDEP E-Mail #025173- SITE REMEDIATION

Internet E-mail from the CONTACT NJDEP web site

Referral Number: 025173
Email: jtso@dewberry.com
Name: Mr. Jonathan Tso
Address: 600 Parsippany Road, Suite 301
City: Parsippany
State: NJ
ZIP: 07054-
Phone: (973)576-9697 Ext:
Message Type: Information Request
Subject: Hudson River Superfund NJ
Referring Page:

Message:To whom it may concern,

I was wondering if the NJDEP did any studies regarding the Hudson River Superfund site along the New Jersey side. If so, would it be possible to submit an OPRA request? What would be the PI No.?

If you could respond back, that would be great.

Thank you.

From: Pedersen, Brian <Brian.Pedersen@arcadis.com>
Sent: Monday, November 16, 2015 10:49 AM
To: Vanderhoof, Anna
Subject: RE: 1606-1610 Willow Ave (a.k.a. Extra Space Storage Facility) - Site Investigation/Remediation Status Inquiry (PI No. G000037677)

Hi Anna,

Sorry for my delayed response. I've responded to your questions for this site. There is not much activity remaining to be conducted on the site as a cap is in place and the next steps will be to close out the case with the RAR, a remedial action permit for soils to monitor the engineering control, i.e., cap, and to issue the RAO.

~~~~~~~~~~

For our review, we need to know the following items:

- Contaminants of concern - Lead, arsenic, benzo(b)fluoranthene, benzo(a)pyrene
- Status of the investigation or remediation of the site – remedial action completed, RA report not completed, need to obtain RAP-soils before issuing the restricted use RAO
- Was groundwater impacted? Has any contamination traveled off-site? – no groundwater impacts
- Is there a deed notice and/or CEA in place for this site?
    - If there is a deed notice, when was it put in place and for what block/lots? – yes, there is a deed notice filed on 5/22/2012 for Block 141 Lots 4-11, 20-22, and 25-27
    - If there is a CEA, what is the length of time? – no CEA

~~~~~~~~~~~~~~~~~

Let me know if you need anything else.
Regards,
Brian

Brian Pedersen, PE, LSRP | Senior Engineer | brian.pedersen@arcadis.com
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From: Vanderhoof, Anna [mailto:avanderhoof@Dewberry.com]
Sent: Tuesday, October 06, 2015 5:43 PM
To: Pedersen, Brian <Brian.Pedersen@arcadis.com>
Subject: RE: 1606-1610 Willow Ave (a.k.a. Extra Space Storage Facility) - Site Investigation/Remediation Status Inquiry (PI No. G000037677)

I greatly appreciate your help.

Have a great evening,

Anna S. Vanderhoof, LEED Green Associate
Staff Engineer
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315.575.7117 (cell)
973.428.8509 (fax)
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From: Pedersen, Brian [mailto:Brian.Pedersen@arcadis.com]
Sent: Tuesday, October 06, 2015 5:42 PM
To: Vanderhoof, Anna <avanderhoof@Dewberry.com>
Subject: RE: 1606-1610 Willow Ave (a.k.a. Extra Space Storage Facility) - Site Investigation/Remediation Status Inquiry (PI No. G000037677)

Anna – let me put together the information and send it to you.
Thanks,
Brian

Brian Pedersen, PE, LSRP | Senior Engineer | brian.pedersen@arcadis.com
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Professional Registration / LSRP-NJ #594707 | PE-NJ, #42048 | PE-NY, #084149 | PE-PA, #76640 | PE-AZ, #44664 | PE-AK, #11449

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From: Vanderhoof, Anna [mailto:avanderhoof@Dewberry.com]
Sent: Tuesday, October 06, 2015 9:29 AM
To: Pedersen, Brian <Brian.Pedersen@arcadis.com>
Subject: FW: 1606-1610 Willow Ave (a.k.a. Extra Space Storage Facility) - Site Investigation/Remediation Status Inquiry (PI No. G000037677)

Good morning Brian,

Following up on my email to you back in mid-September. I am currently on a team that is working on an environmental hazardous waste screening for a Rebuild By Design Hudson River project for the river waterfront and adjacent/surrounding area within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the property located at 1606-1610 Willow Ave, a.k.a. "Extra Space Storage" (PI No. G000037677) in Hoboken. If you could please answer the following questions to help clarify the current/most up-to-date status of the site, I would greatly appreciate it.

For our review, we need to know the following items:

- Contaminants of concern
- Status of the investigation or remediation of the site
- Was groundwater impacted? Has any contamination traveled off-site?
- Is there a deed notice and/or CEA in place for this site?
    - If there is a deed notice, when was it put in place and for what block/lots?
    - If there is a CEA, what is the length of time?

Please contact me if you have any questions regarding this request.

Thank you for your time.

Anna S. Vanderhoof, LEED Green Associate
Staff Engineer
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315.575.7117 (cell)
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From: Vanderhoof, Anna
Sent: Thursday, September 17, 2015 4:52 PM
To: 'brian.pedersen@arcadis-us.com' <brian.pedersen@arcadis-us.com>
Subject: 1606-1610 Willow Ave (a.k.a. Extra Space Storage Facility) - Site Investigation/Remediation Status Inquiry (PI No. G000037677)

Good afternoon Brian,

I am currently working on an environmental hazardous waste screening for the Hudson River waterfront and adjacent/surrounding area within the cities of Jersey City, Hoboken, and Weehawken. I've been through the file review process at the DEP, which is where I found your contact information as the LSRP of record for the property located at 1606-1610 Willow Ave, a.k.a. "Extra Space Storage" (PI No. G000037677) in Hoboken. If you could please answer the following questions to help clarify the current status of the site, I would greatly appreciate it.

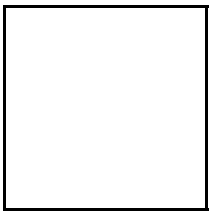
For our review, we need to know the following items:
- Contaminants of concern
- Status of the investigation or remediation of the site
- Was groundwater impacted? Has any contamination traveled off-site?
- Is there a deed notice and/or CEA in place for this site?
    - If there is a deed notice, when was it put in place and for what block/lots?
    - If there is a CEA, what is the length of time?

If you have any questions, please feel free to contact me.
Thank you for your time.

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Record of Communication

Dewberry

Date: 9/28/15	**Time:** 3:01pm – 3:17pm
Spoke with: Paul McAndrew	
Company: Langan Engineering	
Phone No.: 201-398-4578	Fax No.:
Subject of Phone Call: Maxwell House Coffee Site - Hoboken	
Incoming ____ Outgoing __X__	

Discussion

Spoke with Paul McAndrew regarding the existing conditions and status of the investigation/remediation currently at the former Maxwell House Coffee Site located at main address 1101-1125 Hudson Street, Hoboken. The project has been divided into six blocks (A through F) to address soil and groundwater contamination.

For Blocks A, B, and E, active remediation is completed, engineering control cap has been installed, Remedial Action Report(s) (RAR) have been filed and NFAs issued.

For Block C, active remediation is completed and engineering control cap is installed. The administrative portion of the work remains to be completed included reporting, and issuance of a Response Action Outcome (RAO).

Blocks D and F, Active remediation is completed and engineering control caps are installed. The administrative portion remains to be completed.

Paul McAndrew provided a brief history: the site was filled and developed with the Maxwell House Coffee plant. The facility had chlorinated organic solvents stored at and discharges to the property. The impacted soil above groundwater was excavated and disposed while residual impacts to groundwater remain. Ongoing monitoring of groundwater is currently taking place for impacts from the chlorinated solvents as well as contaminated historic fill. Mr. McAndrew expects the monitoring to continue for another year at least. A downward trend in the contaminant concentrations is observed in the data collected.

The result of the monitored natural attenuation will be a deed notice, Remedial Action Permit for the historic fill material and a Classification Exception Area (CEA) for groundwater.

Block A: Block 261.04 Lot 1

Block B: 261.03 Lot 1

Block C: No Deed Notice yet.

Block D: 261.02 Lot 1

Block E: Block 261.06 L1, 261.06 L1, 261.07 L2 (waterfront park)

Block F: Block 261.02 Lot 1 (All of streets within the site)

Call lasted 16 minutes.

Action Items: for Mr. McAndrew -

Please confirm the block and lot for Block C as I only heard and noted that there was no Deed Notice in place yet.

Also, for the monitored natural attenuation, this is being performed on Block D and F which do not yet have a Deed Notice or CEA. Is this correct?

Questions have been forwarded by email to Paul McAndrew 9/28/15 at 4:05pm.

Record of Communication

Dewberry

Date: October 7, 2015	Time: 2:53PM
Spoke with: Steve George	
Company: Boswell Engineering	
Phone No.: 201-641-0770, ext. 215	Fax No.:
Subject of Phone Call: Sinatra Park	
Incoming __X__ Outgoing ____	

Discussion

Steve George called A. Vanderhoof (me, I) to discuss an inquiry that I had sent to Boswell Engineering (the LSRP) for the Sinatra Park (PI No. 601396).

Mr. George stated that they were doing test pits in 2012 at the site when they came across historic fill material and called a discharge into the DEP. Mr. George stated that they didn't actually encounter a discharge and that it was only historic fill-related contamination.

Mr. George stated that only PAHs were of concern at the site. When I asked about metals (which are also common in historic fill), he said no, only PAH-compounds. They were in the process of gathering the disposal manifests and other project information and reporting to be submitted to DEP so the case can be closed. He did not want to estimate a time frame for closure of the case, however, he said I could contact him if needed to follow up.

Call lasted 4 minutes.

Action Items:
None at this time.

Record of Communication

Dewberry

Date: April 21, 2016	Time: 15:42
Spoke with: Mr. Michael Morris	
Company: Langan	
Phone No.: (973) 560-4582	Fax No.:
Subject of Phone Call: LSRP Question Regarding PI No. 649943 1400 Adams Street and 450-456 14th Street, Hoboken	
Incoming ____ Outgoing __X__	

Discussion

- Michael Morris indicated that there was an error in the report, and that the actual Block for the subject property is Block 120 and not Block 121 as indicated in the report.
- Michael Morris reported that the "permits are listed under Block 120".

Action Items:
Clarified exact Block for the subject property. It is actually Block 120, not Block 121

Record of Communication

Dewberry

Date: 7/28/15	Time: 3:28PM	Project/Job No.: 50074974
Dewberry Employee: Anna Vanderhoof		
Spoke with: Joseph Novelli	**Company:** AccuTech Environmental Services, Inc.	
Phone No.: 8623979387	**Fax No.:**	
Subject of Phone Call: Remediation status of PI No. 171448 and 536471 – Hoboken Land Building Corp, 1 Newark Street, Hoboken NJ		
Incoming __X__ **Outgoing** ____		

Discussion

- Joe indicated to me that he is no longer the LSRP for the Hoboken Little School, a childcare center located within the plaza at 1 Newark Street in Hoboken. Joe did not have any soil data for the site. The deed notice was put in placed based solely on the NJDEP mapped historic fill.
- Joe did have knowledge of the removal of a UST from the plaza years ago, but was not involved with the site at the time and therefore does not have all the records for that tank closure.
- Joe mentioned that I should check the NJDEP Dataminer website to look for the LSRP responsible for the inspection of the engineering control cap. He indicated a name "Atlantic," a possible consulting company located in Hoboken and that the property was, to his past knowledge and understanding, looking to hire an LSRP for site from that consultant. He does not know the current status of the LSRP for the site.

Phone call lasted 3:22.

Action Items:
I need to look through the files I have for the site. If I identify any gaps in info, I could contact Joe and inquire if he has any of the "missing data."

Dewberry

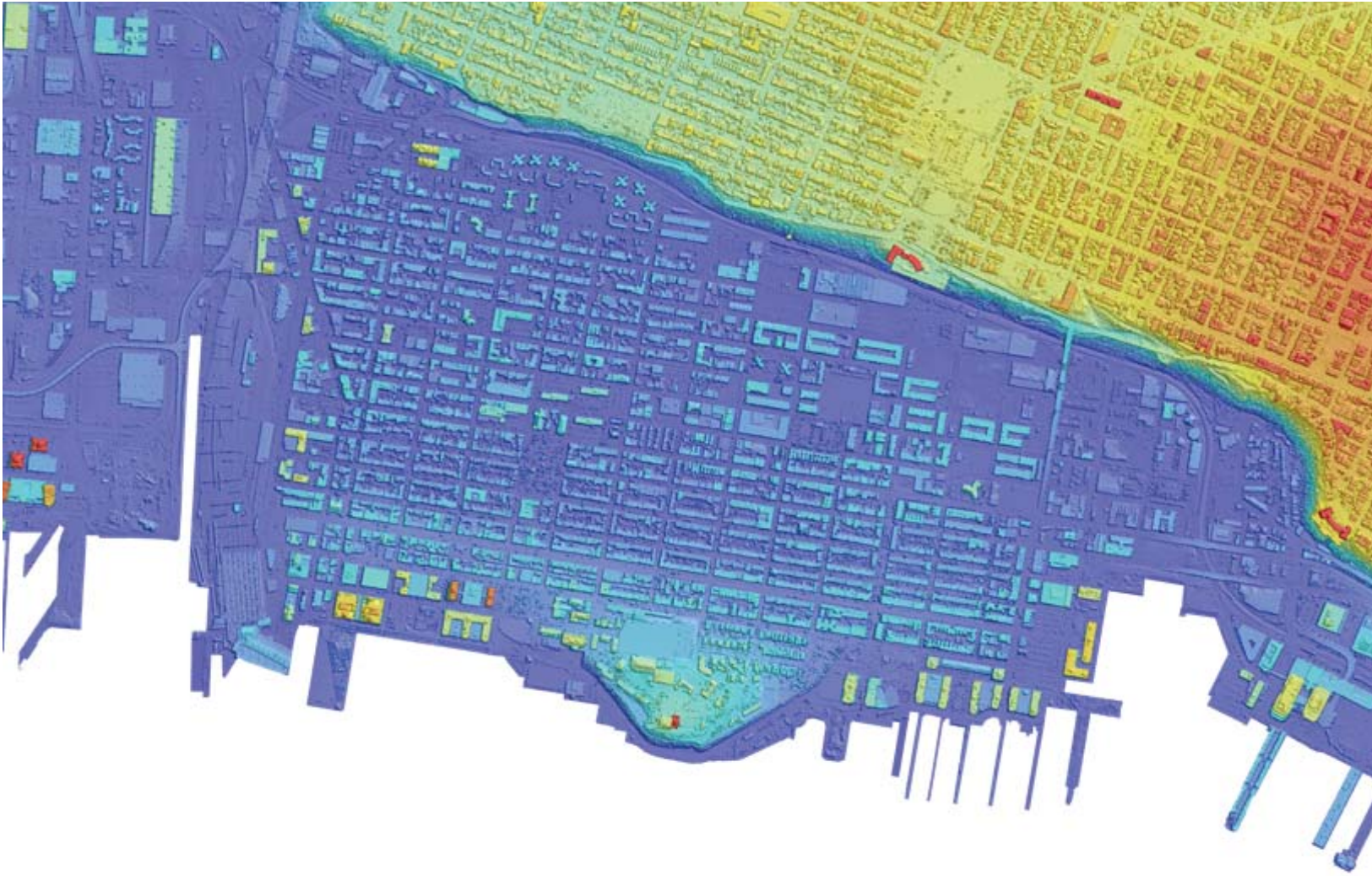
Record of Communication

Date June 9, 2016	Routing
Talked With Carol Campman	
Of EcolSciences, Inc.	
Phone No. 973-366-9500	Action
Recorder Bill Pendexter	
☐ Incoming **X Outgoing**	
Reference Port Imperial South Hexavalent Cr sites	Information

Topic

Discussed the Weehawken Park site and the presence of hexavalent chromium. The entire park site has been capped with an impermeable barrier, a drainage system, and multiple feet of clean Fill, overlying the drainage system. All utilities an plantings are in clean fill. The NJDEP issued a NFA determination in 2012.

The southern most area just south of the park is capped with soil but is proposed to be more Permanently capped with an expansion of the park.



Dewberry

State of New Jersey
Department of Environmental Protection

www.rbd-hudsonriver.nj.gov