

ENVIRONMENTAL RESOURCE INVENTORY

The Borough of Highland Park

Middlesex County

New Jersey

Prepared By


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For

The Borough of Highland Park Environmental Commission

DRAFT

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Environmental Resource Inventory

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**Table 1: Land Use Type
Relative Area in Highland Park**

Land Use Type	2007 Percentage
Agriculture	0%
Barren Land	0.2%
Forest	10.9%
Residential/Urban	71.8%
Water	9.8%
Wetlands	7.2%
Source: NJDEP, 2010 (GIS data 2007 Land use/Land Cover); see USGS 2007 for definitions of land uses	

Table 2.5: Brownfields

SiteID	PI Number	Site Name	Address
7865	007545	ORCHARD ASSOS	277 S 11TH AVE
7866	004611	ASTRA CLEANERS	705 RARITAN AVE
7867	032895	HIGHLAND PARK SERVICE CENTER INC	126 RARITAN AVE
7868	018773	MIDLAND - ROSS CORP	100 CLEVELAND AVE
7869	004442	UBRY'S INC	115 RARITAN AVE
7870	000923	BERGEN'S CAR CARE CENTER	101 RARITAN AVE
7871	010999	HIGHLAND PARK DEPARTMENT OF PUBLIC WORKS	444 VALENTINE ST
7872	030258	ACME MOTORS INC	211 WOODBRIDGE AVE
7873	021277	AUTO SPA	1010 1020 RARITAN AVE
7874	G000010259	102 NORTH 3RD AVENUE	102 N 3RD AVE
7875	G000038068	55 ADELADE AVENUE S	55 S ADELAIDE AVE
7876	194327	REDS MARINA	DONALDSON ST

Source: NJ Department of Community Affairs, Office of Smart Growth, December 2008

Table 3.2: Characteristics of Bedrock Types Found in Highland Park

Abbreviation	Geologic Formation	Lithology (physical character of the rocks)	Acres	%
Triassic-Jurassic (Mesozoic Era: 248 to 65 million years ago)				
JTrp	Passaic Formation	red-brown shales, siltstones, and sandstones		
Trpg	Passaic Formation Gray bed	sandstone, siltstone and shale		

Sources: NJGS, 2007; Van Houten, 1969; USGS, 2002

Table: 3.5: Characteristics of Surficial Geology Found in Highland Park

Deposit Type	Lithology	Geologic Age	Notes
Alluvial Fan Deposits (Qal)	Sand, silt, pebble-to-cobble gravel; reddish brown, yellowish brown to brown. As much as 40 feet thick.	Holocene and late Pleistocene	Contains variable amounts of organic matter. Deposited in modern floodplains and channels.
Pensauken Formation (Tp)	Sand, clayey sand, pebble gravel, minor silt, clay, and cobble gravel; yellow, reddish yellow, white. Sand typically includes weathered feldspar. Locally iron-cemented. As much as 140 feet thick.	Pliocene	In erosional remnants of a former river plain that occupied the broad valley between South Amboy and the Salem area. Elevation of the top of the deposit grades from 160 feet at South Amboy to 80 feet in the Salem area.
Salt-Marsh and Estuarine Deposits (Qmm)	Silt, sand, peat, clay, minor pebble gravel; brown, dark-brown, gray, black. As much as 300 feet thick in the Hudson valley, 100 feet thick elsewhere.	Holocene	Contain abundant organic matter. Deposited in salt marshes, estuaries, and tidal channels during Holocene sea-level rise.
Weathered Shale, Mudstone and Sandstone (Qws)	Silty sand to silty clay with shale, mudstone or sandstone fragments; reddish brown, yellow, light gray. As much as 10 feet thick on shale and mudstone, 30 feet thick on sandstone.	Pleistocene	

Source: NJGS, 2007

Table 4.2: Hydrologic Soil Grouping

Class	Definition
A	High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.
B	Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils that have moderately course textures.
C	Slow infiltration rates. Soils with layers impeding downward movement of water, or soils that have moderately fine or fine textures.
D	Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Source: USDA NRCS, 2008

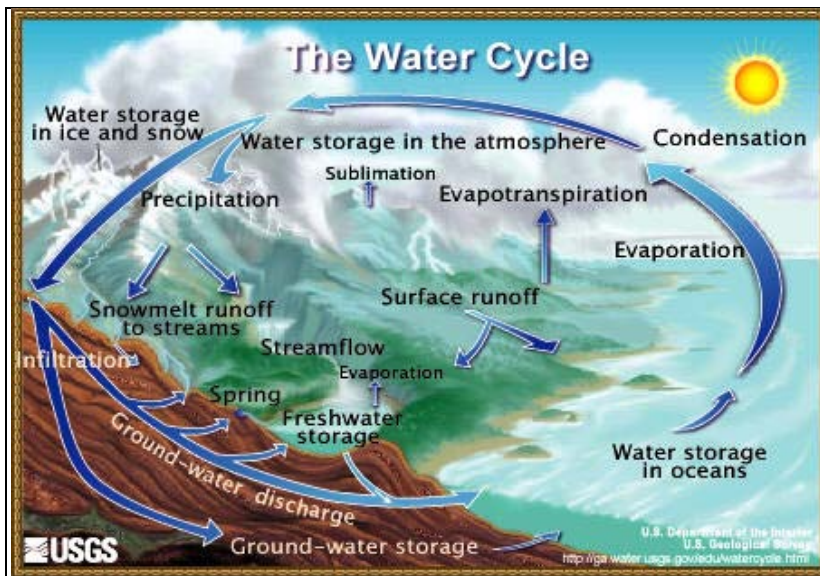


Figure 5a: The Water Cycle

Source: USGS, no date

Table 5.4: Contaminated Sites in and Near Highland Park (See Figure 5e)

Site Identification Number	Name	Address	Status* Date	Lead Agency**	Remedial Level***
Known Contaminated Sites List (KCSL) - 19 within Highland Park					
Only sites within Highland Park are shown below - an additional 62 KCSL exist within the watershed.					
5779	DONALDSON COUNTY PARK	Riverview Ave, Highland Park	2006	BUST	C2
146995	REDS MARINA	Donaldson St, Highland Park	2003	BFO-S	C1
44726	HIGHLAND PARK DEPARTMENT OF PUBLIC WORKS	Valentine & Donaldson Sts, Highland Park	2006	OBR	C3
79563	55 ADELADE AVENUE S	55 Adelaide Ave S, Highland Park	1999	CEHA	C1
188818	MCUA NATIVE RESERVE / FORMER RESIDENCE/ PARK	River RD, Highland Park	2005	CAS	C1
5802	RACEWAY	60 Raritan Ave, Highland Park	1994	BUST	C2
5795	HIGHLAND PARK SERVICE CENTER INC	126 Raritan Ave, Highland Park	1999	BUST	C1
5778	SUNOCO 0007-6406	138 Raritan Ave, Highland Park	1994	BUST	C2
23419	UBRY'S INC	115 Raritan Ave, Highland Park	1999	BUST	C2
5785	ORCHARD ASSOS	277 South 11 th St, Highland Park	1994	BFO-S	C2
360987	OVER THE RAINBOW INC	24 S 3 rd Ave, Highland Park	2009	CAS	C1
67015	102 NORTH 3RD AVENUE	102 N 3 rd Ave, Highland Park	1992	BFO-S	C1

Site Identification Number	Name	Address	Status* Date	Lead Agency**	Remedial Level***
5839	LUKOIL #57237	702 Raritan Ave, Highland Park	2002	BUST	C2
45557	FORNERS SERVICE CENTER	148 Woodbridge Ave, Highland Park	2009	BUST	C1
5789	ASTRA CLEANERS	705 Raritan Ave, Highland Park	2001	BFO-S	C1
45559	ACME MOTORS INC	211 Woodbridge Ave, Highland Park	1995	BUST	C2
53299	AUTO SPA	1020 Raritan Ave, Highland Park	2002	BFO-S	C2
5838	MIDLAND - ROSS CORP	Cleveland Ave, Highland Park	1991	BISR	D
79576	334 N 5TH AVE	334 N 5 th Ave, Highland Park	1999	BFO-S	C2
Classification Exception Area (CEA) ★ - One in Highland Park					
	Mobil 2634884	702 Raritan Ave, Highland Park Boro	2008	BUST	
1310	Amoco Service Station #842	Rt. 1 & Plainfield Ave., Edison Twp.	2005	BUST	
	Camp Kilmer	433 Plainfield Ave, Edison Twp.	2003	BCM	
1873	Continental Beverage Packaging Co.	24 Kilmer Rd, Edison Twp.	2001	BOMM	No further action
1229	Hess Service Station #30258	Rt. 27 & Highway Ter., Edison Twp.	1999	BUST	
	Private Formulations Inc.	460 Plainfield Ave, Edison Twp.	2002	BISR	
1923	Rt. 27 Service Station	1818 Lincoln Hwy, Edison Twp.	2002	BUST	
95-08-15-1338-40	Shilka Store (former US Oil SS)	2279 Woodbridge Ave, Edison Twp.	2004	BUST	
1848	U-Haul Moving and Storage	110 Rt. 1, Edison Twp.	2001	BUST	
780	Getty Service Station #56065	282 George St, New Brunswick City	1998	BUST	
	Gulf Service Station #60047	110 Memorial Pkwy., New Brunswick Twp.	2010	BUST	
Deed Notice Extent (DNA) - None in Highland Park					
	Camp Kilmer	433 Plainfield Ave., Edison Twp.	2003	BCM	
98-12-29-1507-01	Fleet Bank	385 George St., New Brunswick City	2002	BOMM	No further action
E94688	PSE&G, New Brunswick Div	268 Baldwin St., New Brunswick Twp.	1998	BOMM	
<p>*STATUS – all sites in this list are Active: This status is designated when a contaminated site is assigned to a remedial program and measures such as a preliminary assessment, remedial investigation or cleanup work is underway; Status Date: The date that the site was assigned to the contact bureau.</p> <p>**Lead Agency: BCM=Bureau of Case Management; BFO-S = Bureau of Field Operations –Southern (609) 633-1475; BISR=Bureau of Industrial Site Remediation; BOMM = Bureau of Operation, Maintenance & Monitoring (609) 984-2990; BUST=Bureau of Underground Storage Tanks; CAS=Case Assignment Section (now BICAIN) (609)292-2941; CEHA=County Environmental Health Agency; OBR=Office of Brownfields Reuse (609)292-1251</p> <p>***Remedial Level: C1: Remediation does not require a formal design. The source of the contamination is known or has been identified. There is a potential for ground water contamination; C2: Remediation requires a formal design. The source of the contamination is known OR the release has caused ground water contamination; C3: A multi-phased remediation action. Where the source of the contamination is either unknown or there is an uncontrolled discharge to Soil and/or ground water; D: A multi-phased remediation with multiple sources/releases to multiple media including ground water</p> <p>★KCSs where ground water contamination has been identified and NJDEP has established a Classification Exception Area (CEA)</p> <p>Sources: NJDEP SRP, August 2009; NJDEP SRP, November 2010; NJDEP SRP, November 2010</p>					

Table 6.1: Hydrologic Unit Codes for Highland Park's Subwatersheds

Subwatershed Name	14-Digit Hydrologic Unit Code (HUC14)	Comment
Lower Raritan River (Lawrence Brook to Mile Run)	02030105120170	This subwatershed encompasses all of Highland Park.
Lower Raritan River (Mile Run to I-287 Piscataway)	02030105120160	This subwatershed encompasses the segment of the Raritan River directly upstream of Highland Park.
Mile Run	02030105120150	This subwatershed encompasses the Mile Run, a tributary of the Raritan River, joining the River approximately 1 mile upstream of Highland Park
Source: NJDEP NJGS, May 2010		

Table 6.2: Surface Water Quality Standards Classification

Category	Definition
Freshwater General Surface Water Class	
FW1	FW1 means those fresh waters, as designated in N.J.A.C. 7:9B-1.15(j), that are to be maintained in their natural state of quality (set aside for posterity) and not subjected to any man-made wastewater discharges or increases in runoff from anthropogenic activities. These waters are set aside for posterity because of their clarity, color, scenic setting, other characteristic of aesthetic value, unique ecological significance, exceptional recreational significance, exceptional water supply significance or exceptional fisheries resource(s).
FW2	FW2 means the general surface water classification applied to those fresh waters that are not designated as FW1 or Pinelands Waters. In all FW2 waters the designated uses are: 1. Maintenance, migration and propagation of the natural and established biota; 2. Primary contact recreation; 3. Industrial and agricultural water supply; 4. Public potable water supply after conventional filtration treatment (a series of processes including filtration, flocculation, coagulation, and sedimentation, resulting in substantial particulate removal but no consistent removal of chemical constituents) and disinfection; and 5. Any other reasonable uses.
Trout Water Status - this is for information only and does not affect the water quality criteria for those waters.	
TP	Trout production means waters designated at N.J.A.C. 7:9B-1.15I through (i) for use by trout for spawning or nursery purposes during their first summer.
TM	Trout maintenance means waters designated at N.J.A.C. 7:9B-1.15I through (i) for the support of trout throughout the year.
NT	Nontrout waters means fresh waters that have not been designated in N.J.A.C. 7:9B-1.15(b) through (h) as trout production or trout maintenance. These waters are generally not suitable for trout because of their physical, chemical, or biological characteristics, but are suitable for a wide variety of other fish species.
Antidegradation	
ONRW	Outstanding National Resource Waters means high quality waters that constitute an outstanding national resource (for example, waters of National/State Parks and Wildlife Refuges and waters of exceptional recreational or ecological significance). Waters classified as FW1 waters and Pinelands waters are Outstanding National Resource Waters.
FW1/Non-degradation	Nondegradation waters means those waters set aside for posterity because of their clarity, color, scenic setting, other characteristic of aesthetic value, unique ecological significance, exceptional recreational significance, or exceptional water supply significance. These waters include all waters designated as FW1.
C1	Category one waters means those waters designated in the tables in N.J.A.C. 7:9B-1.15(c) through (i), for purposes of implementing the antidegradation policies set forth at N.J.A.C. 7:9B-1.5(d), for protection from measurable changes in water quality based on exceptional ecological significance, exceptional recreational significance, exceptional water supply significance or exceptional fisheries resource(s) to protect their aesthetic value (color, clarity, scenic setting) and ecological integrity

Table 6.2: Surface Water Quality Standards Classification

Category	Definition
	(habitat, water quality and biological functions).
C2	<i>Category two waters</i> means those waters not designated as Outstanding National Resource Waters or Category One at N.J.A.C. 7:9B-1.15 for purposes of implementing the antidegradation policies set forth at N.J.A.C. 7:9B-1.5(d).
SE	<p>SE means the general surface water classification applied to saline waters of estuaries.</p> <p>Unlisted saline waterways and waterbodies are classified as SE1 in the Atlantic Coastal Basin; designated uses are listed in N.J.A.C. 7:9B-1.12(d).</p> <p>In all SE1 waters the designated uses are: 1. Shellfish harvesting in accordance with N.J.A.C. 7:12; 2. Maintenance, migration and propagation of the natural and established biota; 3. Primary contact recreation; and 4. Any other reasonable uses.</p> <p>FW2-NT/SE1 (or a similar designation that combines two classifications) means a waterway in which there may be a salt water/fresh water interface. The exact point of demarcation between the fresh and saline waters must be determined by salinity measurements and is that point where the salinity reaches 3.5 parts per thousand at mean high tide. The stream is classified as FW2-NT in the fresh portions (salinity less than or equal to 3.5 parts per thousand at mean high tide) and SE1 in the saline portions.</p>
Source: NJDEP Land Use Management, Water Monitoring and Standards, January 18, 2011	

Table 6.3: 2008 Integrated List for Highland Park

HUC14	Watershed	Sublist								
		Drinking Water Supply	Recreation (Primary & Secondary Contact)	Aquatic Life General	Shellfish for Consumption	Industrial Water Supply	Agricultural Water Supply	Aquatic Life Trout	Fish Consumption	Overall
02030105120170	Lower Raritan River (Lawrence Brook to Mile Run)	5	3	5	N/A	2	2	N/A	5	5
<p>The assessment units were placed on one of five sublists according to the following: (See Section 7 of the Integrated List Methods Document for more detail on the Sublists). N/A (not applicable) is used when the designated use does not apply to a particular assessment unit.</p> <p>Sublist 1: There is sufficient data to assess all applicable designated uses for the waterbody and the assessment indicates full attainment for all designated uses.</p> <p>Sublist 2: Waterbodies are placed on this sublist when an assessment for an individual designated use is complete and results for that assessment indicates full attainment but other designated uses are unassessed, assessed as non-attain or have an approved TMDL. When all designated uses are assessed as full attain, these waterbodies will be moved to Sublist 1.</p> <p>Sublist 3: Waterbodies are placed on this sublist when the designated use assessment indicated insufficient or no data to assess the designated use.</p> <p>Sublist 4: The waterbody is impaired or threatened for one or more designated uses. There are three subcategories:</p> <p>Sublist 4A. Waterbodies are placed on this sublist when the designated use is non-attain due to pollutants and a TMDL has been adopted in New Jersey Register and approved by the USEPA.</p> <p>Sublist 4B. Waterbodies are placed on this sublist when the designated use is non-attain due to pollutants and other enforceable pollution control requirements are reasonably expected to result in the conformance with the applicable water quality standard(s) in the near future.</p> <p>Sublist 4C. Waterbodies are placed on this sublist when the designated use is non-attain and the impairment is not caused by a pollutant.</p> <p>Sublist 5: Designated use assessment is complete and results for the assessment indicate non-attain. (The individual pollutants causing the non attainment of the designated uses will be identified on the "303(d) List of Impaired Waterbodies by Parameter with Ranking". The Pollutant will be listed if known or "pollutant unknown" or "toxic unknown" will be used when the pollutant is not known.)</p>										
Source: NJDEP Water Monitoring and Standards, July 2009										

Table 6.4: Integrated Water Quality Assessment for Lower Raritan River (Lawrence Brook to Mile Run) 02030105120170

Use	Attainment	Cause	First on 303(d) List	TMDL Priority*	Sources
Agricultural Water Supply	Fully Supporting				
Aquatic Life	Not Supporting	Cadmium Phosphorus (Total) Total Suspended Solids (TSS) Zinc	2002 2006 2006 2002	L M M L	Industrial Point Source Discharge
Fish Consumption	Not Supporting	Benzo(a)pyrene (PAHs) Chlordane DDD DDE DDT Dieldrin Dioxin (including 2,3,7,8-TCDD) Mercury Polychlorinated biphenyls	2008 2008 2008 2008 2008 2008 2008 2008 2008	M M M M M M M M M	Urban Runoff/Storm Sewers Source Unknown
Industrial Water Supply	Fully Supporting				Atmospheric Deposition - Toxics
Primary Contact Recreation	Insufficient Information				
Public Water Supply	Not Supporting	Arsenic Benzo(a)pyrene (PAHs) Heptachlor epoxide	2002 2008 2008	L M M	
<p>*L=low; M=medium; all are scheduled for completion "beyond 2012" Sources: NJDEP Water Monitoring and Standards, November 2010 (draft); NJDEP Water Monitoring and Standards. November 1, 2010</p>					

Table 6.5: NJ Pollutant Discharge Elimination System (NJPDES) Surface Water Discharges

NJPDES ID. #	Facility Name	Status*	Discharge Type*	Receiving Waters
NJG0156272.001D	Route 18 2F Project	E	B4B	Raritan River
NJG0156272.002D	Route 18 2F Project	E	B4B	Raritan River
NJG0156272.003D	Route 18 2F Project	E	B4B	Raritan River
NJG0156272.004D	Route 18 2F Project	E	B4B	Raritan River
NJG0156272.005D	Route 18 2F Project	E	B4B	Raritan River
NJG0003603.521	PSE&G - Edison G S	X	RF	Raritan River
NJ0000582.026A	PSE&G Central Plant	R	IMI	Raritan River
NJ0000582.029A	PSE&G Central Plant	R	IMI	Raritan River
NJ0000582.030A	PSE&G Central Plant	R	IMI	Raritan River
NJG0156272.006D	Route 18 2F Project	E	B4B	Raritan River
NJG0156272.007D	Route 18 2F Project	E	B4B	Raritan River
NJ0020141.002A a	Middlesex County UA	R	IMI	Mill Brook via storm sewer and unnamed tributary
NJG0156272.008D	Route 18 2F Project	E	B4B	Raritan River
NJG0156272.009D	Route 18 2F Project	E	B4B	Raritan River
NJG0076996.001A	Sunoco S/S - Highland Park	R	B4B	Raritan River via storm sewer
NJG0156272.010D	Route 18 2F Project	E	B4B	Raritan River
NJG0156272.011D	Route 18 2F Project	E	B4B	Raritan River
NJ0100161.001A	Grimes Aerospace Company	R	IMI	Raritan River via storm sewer
NJG0136158.001A	Amoco S/S	E	B4B	Raritan River via storm sewer
NJG0105716.001A	Private Formulations - CVS Inc	E	BGR	Mill Brook via storm sewer and unnamed tributary
<p>*Notes for Above Codes (NJDEP's codes and definitions were used):</p> <p><i>Status:</i> E=Existing in the Point Source Permitting Regions; R=Revoked/Terminated - Pipe no longer permitted for discharge; X= Transferred to BNPC - Permits transferred to Bureau of Nonpoint Pollution Control</p> <p><i>Discharge type:</i> B4B=Petroleum hydrocarbon remediation; BGR= General Groundwater Remediation; IMI= Industrial Minor - based on the amount of pollutant(s) in the effluent; RF=Stormwater Discharge</p> <p>Source: NJDEP, Environmental Regulation, Division of Water Quality, November 2010</p>				

Table 6.8: 2010 Fish Consumption Advisories – Statewide Freshwaters

LOCATION	SPECIES	ADVISORY/PROHIBITION	
		General Population ¹ Range of Recommended Meal Frequency	High-Risk Individuals ²
		DO NOT EAT MORE THAN:	DO NOT EAT MORE THAN:
STATEWIDE ESTUARINE & MARINE WATERS	Striped Bass	One meal per month	Do not Eat
	Bluefish (greater than 6lbs / 24 inches)	Six meals per year	
	Bluefish (less than 6lbs / 24 inches)	One meal per month	
	American Eel	Four meals per year	
	American Lobster	Do Not Eat the Green Gland (aka tomalley or hepatopancreas)	
RARITAN BAY COMPLEX Includes Raritan Bay, tidal Raritan River (to the Rt.1 bridge) & tidal portion of all tributaries to the head of tide.	American Lobster	One meal per week Do not eat green gland (hepatopancreas) Discard cooking liquid	
	Weakfish	One meal per month	Do not eat
	Striped Bass		
	Winter Flounder		
	Porgy		One meal per month
	American Eel	One meal per year	Do not eat
	Summer Flounder	One meal per week	One meal per week
	White Perch (Raritan Bay)	One meal per year	Do not eat
Blue Crab	One meal of seven (7) crabs per month. Do not eat green gland (hepatopancreas); Discard cooking liquid		
Raritan River upstream of Route 35 Bridge and the South River (tidal portion)	White Catfish	Four meals per year	Do not eat
	White Perch		
New Jersey Statewide – All water bodies except those listed separately	Freshwater species not listed below	One meal per week	One meal per month
	Trout (brown, brook, rainbow)		One meal per week
	Largemouth bass		One meal per month
	Smallmouth Bass		
	Chain Pickerel	No restrictions	One meal per month
	Yellow bullhead		
	Brown Bullhead		
Sunfish ³	One meal per week		

¹ Eat only the fillet portions of the fish. Use proper trimming techniques to remove fat, and cooking methods that allow juices to drain from the fish (e.g., baking, broiling, frying, grilling, and steaming). See web site for full description. One meal is defined as an eight-ounce serving.

² High-risk individuals include infants, children, pregnant women, nursing mothers and women of childbearing age.

³ Sunfish includes bluegill, pumpkinseed, and redbreast sunfish.

Source: NJDEP Division of Science and Research, 2010 <http://www.state.nj.us/dep/dsr/njmainfish.htm>

Table 7.1: 2007 Land Use/Land Cover (Anderson Classification) in Highland Park

Code	Description	Acres*	%
Urban Land Use Type:			
1110	RESIDENTIAL, HIGH DENSITY OR MULTIPLE DWELLING	677.4	32.4%
1120	RESIDENTIAL, SINGLE UNIT, MEDIUM DENSITY	350.6	16.7%
1130	RESIDENTIAL, SINGLE UNIT, LOW DENSITY	12.5	0.6%
1140	RESIDENTIAL, RURAL, SINGLE UNIT	4.9	0.2%
1200	COMMERCIAL/SERVICES	145.2	6.9%
1300	INDUSTRIAL	14.7	0.7%
1400	TRANSPORTATION/COMMUNICATION/UTILITIES	6.9	0.3%
1420	RAILROADS	41.2	2.0%
1700	OTHER URBAN OR BUILT-UP LAND	148.3	7.1%
1741	PHRAGMITES DOMINATE URBAN AREA	1.1	0.1%
1800	RECREATIONAL LAND	93.5	4.5%
1804	ATHLETIC FIELDS (SCHOOLS)	7.9	0.4%
Total of all Urban Land Uses (excludes built-up wetlands)		1,504.2	71.8%
Forest Land Use Type:			
4110	DECIDUOUS FOREST (10-50% CROWN CLOSURE) ¹	17.6	0.8%
4120	DECIDUOUS FOREST (>50% CROWN CLOSURE)	86.5	4.1%
4322	MIXED FOREST (>50% DECIDUOUS WITH >50% CROWN CLOSURE)	6.7	0.3%
4410	OLD FIELD (< 25% BRUSH COVERED)	2.7	0.1%
4420	DECIDUOUS BRUSH/SHRUBLAND	15.5	0.7%
4440	MIXED DECIDUOUS/CONIFEROUS BRUSH/SHRUBLAND	100.4	4.8%
Total of all Forested Land Uses		229.4	10.9%
Water Land Use Type:			
5100	STREAMS AND CANALS	0.5	0.02%
5200	NATURAL LAKES	2.0	0.1%
5300	ARTIFICIAL LAKES	2.9	0.1%
5410	TIDAL RIVERS, INLAND BAYS, AND OTHER TIDAL WATERS	200.0	9.5%
Total of all Water Land Uses		205.4	9.8%
Wetland Land Use Type:			
1850	MANAGED WETLAND IN BUILT-UP MAINTAINED REC AREA	76.6	3.7%
6141	PHRAGMITES DOMINATE COASTAL WETLANDS	1.4	0.1%
6210	DECIDUOUS WOODED WETLANDS	65.8	3.1%
6231	DECIDUOUS SCRUB/SHRUB WETLANDS	2.3	0.1%
6240	HERBACEOUS WETLANDS	1.0	0.05%
6241	PHRAGMITES DOMINATE INTERIOR WETLANDS	3.6	0.2%
Total of all Wetlands Land Uses		150.7	7.2%
Barren Land Use Type:			
7500	TRANSITIONAL AREAS**	4.4	0.2%
Total of all Barren Land Uses		4.4	0.2%
All Land Uses		2,094.1	100%
* Acreage from the GIS data varies from acreage calculated based on tax maps.			
** <i>Transitional Areas</i> encompass lands on which site preparation for a variety of development types has begun, i.e. areas under construction (USGS, 2007).			
Source: NJDEP, 2010 (GIS data 2007 Land use/Land Cover); see USGS 2007 for definitions of land uses			

¹ Crown closure is the percentage of a forest area occupied by the vertical projections of tree crowns. Crown closure percentages provide a reasonable estimate of stand density (USGS, 2007).

Table 7.5: Definitions of Species Status

STATE STATUS	STATE STATUS DEFINITIONS
	<p>Animals: Two animal lists provide state status codes after the Endangered and Nongame Species Conservation Act of 1973 (NSSA 23:2A-13 et. seq.): the list of endangered species (N.J.A.C. 7:25-4.13) and the list defining status of indigenous, nongame wildlife species of New Jersey (N.J.A.C. 7:25-4.17(a)). The status of animal species is determined by the Endangered and Nongame Species Program (ENSP), with the review and approval of the Endangered and Nongame Species Advisory Committee.</p>
E	<p>Endangered applies to a species whose prospects for survival within the state are in immediate danger due to one or several factors, such as loss or degradation of habitat, over-exploitation, predation, competition, disease or environmental pollution, etc. An endangered species likely requires immediate action to avoid extinction within NJ.</p>
T	<p>Threatened applies to species that may become Endangered if conditions surrounding it begin to or continue to deteriorate. Thus, a Threatened species is one that is already vulnerable as a result of, for example, small population size, restricted range, narrow habitat affinities, significant population decline, etc.</p>
SC	<p>Special Concern applies to species that warrant special attention because of some evidence of decline, inherent vulnerability to environmental deterioration, or habitat modification that would result in their becoming a Threatened species. This category would also be applied to species that meet the foregoing criteria and for which there is little understanding of their current population status in the state.</p>
S	<p>Stable (or increasing) applies to species that appear to be secure in NJ and not in danger of falling into any of the preceding categories in the near future.</p>
U	<p>Undetermined refers to a species about which there is not enough information available to determine the status.</p>
<p>Plants: Plant taxa listed as endangered are from New Jersey's official Endangered Plant Species List (N.J.A.C. 7:5C – 5.1).</p>	
E	<p>Native New Jersey plant species whose survival in the State or nation is in jeopardy.</p>
FEDERAL STATUS	FEDERAL STATUS DEFINITIONS
LE	<p>Taxa formally listed as endangered.</p>
LT	<p>Taxa formally listed as threatened.</p>
STATE RANK	STATE ELEMENT RANK DEFINITIONS
S1	<p>Critically imperiled in New Jersey because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres). Elements so ranked are often restricted to very specialized conditions or habitats and/or restricted to an extremely small geographical area of the state. Also included are elements which were formerly more abundant, but because of habitat destruction or some other critical factor of its biology, they have been demonstrably reduced in abundance. In essence, these are elements for which, even with intensive searching, sizable additional occurrences are unlikely to be discovered.</p>
S2	<p>Imperiled in New Jersey because of rarity (6 to 20 occurrences). Historically many of these elements may have been more frequent but are now known from very few extant occurrences, primarily because of habitat destruction. Diligent searching may yield additional occurrences.</p>
S3	<p>Rare in state with 21 to 100 occurrences (plant species and ecological communities in this category have only 21 to 50 occurrences). Includes elements which are widely distributed in the state but with small populations/acreage or elements with restricted distribution, but locally abundant. Not yet imperiled in state but may soon be if current trends continue. Searching often yields additional occurrences.</p>
S4	<p>Apparently secure in the state, with many occurrences.</p>
S5	<p>Demonstrably secure in state and essentially ineradicable under present conditions.</p>
SH	<p>Elements of historical occurrence in New Jersey. Despite some searching of historical occurrences and/or potential habitat, no extant occurrences are known. Since not all of the historical occurrences have been field surveyed, and unsearched potential habitat remains, historically ranked taxa are considered possibly extant, and remain a conservation priority for continued field work with the</p>

STATE STATUS	STATE STATUS DEFINITIONS
	expectation they may be rediscovered.
B	Refers to the breeding population of the element in the state.
N	Refers to the non-breeding population of the element in the state.
REGIONAL STATUS	REGIONAL STATUS CODES FOR PLANTS AND ECOLOGICAL COMMUNITIES
LP	Indicates taxa listed by the Pinelands Commission as endangered or threatened within their legal jurisdiction. Not all species currently tracked by the Pinelands Commission are tracked by the Natural Heritage Program. A complete list of endangered and threatened Pineland species is included in the NJ Pinelands Comprehensive Management Plan.
HL	Indicates taxa or ecological communities protected by the Highlands Water Protection and Planning Act within the jurisdiction of the Highlands Preservation Area.
GLOBAL RANK	GLOBAL ELEMENT RANK DEFINITION
G1	Critically imperiled globally because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.
G2	Imperiled globally because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extinction throughout its range.
G3	Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the East) or because of other factors making it vulnerable to extinction throughout its range; with the number of occurrences in the range of 21 to 100.
G4	Apparently secure globally ; although it may be quite rare in parts of its range, especially at the periphery.
G5	Demonstrably secure globally ; although it may be quite rare in parts of its range, especially at the periphery.
GH	Of historical occurrence throughout its range i.e., formerly part of the established biota, with the expectation that it may be rediscovered.
Note: To express <i>uncertainty</i> , the most likely rank is assigned and a question mark added (e.g., G2?). A range is indicated by combining two ranks (e.g., G1G2, S1S3).	
Sources: NJDEP Division of Fish and Wildlife, 2008 and NJDEP Division of Fish and Wildlife, 2010	

Table 7.6: Animal Species Presently Recorded in the Natural Heritage Database for Highland Park

Common Name	Scientific Name	Federal Status	State Status	Global Rank	State Rank	Habitat
Vertebrates, birds:						
great blue heron	<i>Ardea herodias</i>		SC/S	G5	S3B.S4N	Wetlands, shores
Vertebrates, reptiles:						
Eastern box turtle	<i>Terrapene carolina carolina</i>		SC	G5T5	S3	
Note: For status and rank definitions, refer to Table 7.5 .						
Sources: NJDEP ONLM, October 2010						

Table 7.7: Landscape Project Habitat Rank Definitions

Rank	Definition	Approximate Percent of Highland Park
1	Suitable Habitat – Rank 1 is assigned to patches that meet habitat-specific suitability requirements such as minimum size criteria for endangered, threatened or priority wildlife species, but that do not intersect with any confirmed occurrences of such species.	x%
2	Special Concern – Rank 2 is assigned to patches containing one or more occurrences of species considered to be species of special concern	x%
3	State Threatened – Rank 3 is assigned to patches containing one or more occurrences of State threatened species.	x%
4	State Endangered – Rank 4 is assigned to patches with one or more occurrences of State endangered species.	x%
5	Federally Listed – Rank 5 is assigned to patches containing one or more occurrences of wildlife listed as endangered and threatened pursuant to the Federal Endangered Species Act of 1973.	x%
Sources: Niles et al, 2008		

Table 7.8: Plant Species Presently Recorded in the Natural Heritage Database for Highland Park


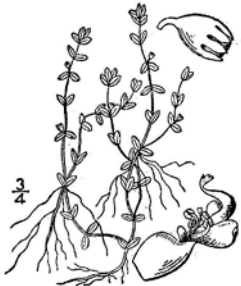







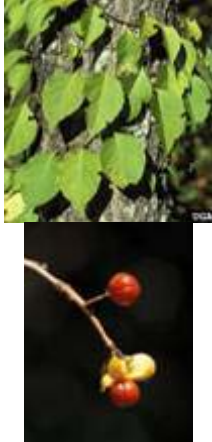





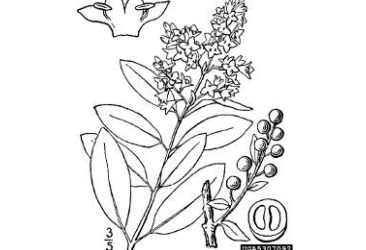
Scientific Name	Common Name	Federal Status	State Status	Regional Status	Global Rank	State Rank	Last Observed	
<i>Bidens bidentoides</i>	Estuary burr-marigold			HL	G3G4	S2	1918	
<p>Description: Plants are 4-36" height; narrowly oval, sharp pointed, toothed leaves; 1/4" yellow flowers bloom in summer-fall; Aster family (Asteraceae); usually occurs in wetlands. Also known as Southern Estuarine beggar-ticks or Delmarva beggar-ticks.</p>								
Scientific Name	Common Name	Federal Status	State Status	Regional Status	Global Rank	State Rank	Last Observed	
<i>Micranthemum micranthemoides</i>	Nuttal's mudwort		E	LP, HL	GH	SH	1918	
<p>Description: Figwort family (Scrophulariaceae), obligate wetland species</p>								
Scientific Name	Common Name	Federal Status	State Status	Regional Status	Global Rank	State Rank	Last Observed	
<i>Sagittaria calycina</i> <i>var. spongiosa</i>	Tidal arrowhead			HL	G5T4	S3	198?	
<p>Description: Water plantain family (Alismataceae), obligate wetland species</p>								
Scientific Name	Common Name	Federal Status	State Status	Regional Status	Global Rank	State Rank	Last Observed	
<i>Sagittaria subulata</i>	Awl-leaf arrowhead			HL	G4	S2	1918	
<p>Description: Water plantain family (Alismataceae), obligate wetland species</p>								
Scientific Name	Common Name	Federal Status	State Status	Regional Status	Global Rank	State Rank	Last Observed	
<i>Scutellaria nervosa</i>	Veined skullcap			HL	G5	S2	1916	
<p>Description: Plants are 6-24" height; leaves oval or round, toothed, rounded at base; 1/4" purplish flowers solitary in axils, irregular petals, blooms in spring-summer; Mint family (Lamiaceae)</p>								
<p>Note: For status and rank definitions, refer to Table 7.5.</p>								
<p>Sources: NJDEP ONLM, October 2010; USDA-NRCS PLANTS Database / Britton and Brown, 1913 (illustrations); descriptions from Clemants & Gracie, 2006 (Bb&Sn).</p>								




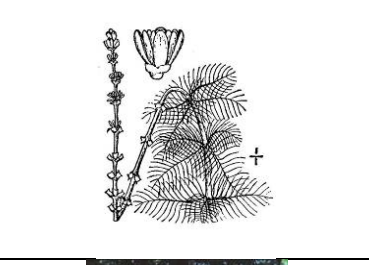


Table 7.9: Natural Heritage Grid Descriptions

Grid Id. #	Precision	Species Name	Habitat	State Rank
12080	M	<i>Bidens bidentoides</i>	Estuarine; Palustrine	S2
	M	<i>Micranthemum micranthemoides</i>	Estuarine; Palustrine	SH
12081	M	<i>Epilobium angustifolium ssp. circumvagum</i> (Narrow-leaf Fireweed)	Palustrine; Terrestrial	SH
12082	M	<i>Epilobium angustifolium ssp. circumvagum</i> (Narrow-leaf Fireweed)	Palustrine; Terrestrial	SH
12250	M	<i>Bidens bidentoides</i>	Estuarine; Palustrine	S2
	M	<i>Micranthemum micranthemoides</i>	Estuarine; Palustrine	SH
	S	<i>Sagittaria calycina var. spongiosa</i>	Palustrine	S3
	M	<i>Sagittaria subulata</i>	Estuarine; Palustrine	S2
12420	M	<i>Bidens bidentoides</i>	Estuarine; Palustrine	S2
	M	<i>Micranthemum micranthemoides</i>	Estuarine; Palustrine	SH
	M	<i>Sagittaria subulata</i>	Estuarine; Palustrine	S2
	M	<i>Scutellaria nervosa</i>	Terrestrial	S2
12421	M	<i>Scutellaria nervosa</i>	Terrestrial	S2
12591	M	<i>Scutellaria nervosa</i>	Terrestrial	S2
Note: For state rank definitions, refer to Table 7.5 . For more information about the species, see Table 7.8 .				
Source: NJDEP ONLM, November 2009				

Table 7.10: Invasive Exotic Plants

Scientific Name	Common Name	Problems Caused	Illustration	Illus. Source
<i>Acer platanoides</i>	Norway maple	Dispersed seeds easily sprout in shade, crowding out native plants. Canopy produces deep shade and roots produce a toxic substance preventing growth of wildflowers and other trees under its canopy.		Jan Samanek, State Phytosanitary Administration, Bugwood.org
<i>Ailanthus altissima</i>	tree of heaven	Aggressive in disturbed areas, crowding out native plants.		Britton and Brown, 1913, Vol. 2: 446.
<i>Alliaria petiolata</i>	garlic mustard	Aggressive in shady habitats, crowding out native plants.		Deborah J. Kratzer
<i>Berberis thunbergii</i>	Japanese barberry	Can grow so thick in the understory of open forests that it shades out indigenous understory plants. Affects soil properties, particularly pH, which can affect plant establishment. Can form nearly impenetrable thorny thickets that impact the recreational value of natural lands.		Deborah J. Kratzer
<i>Celastrus orbiculatus</i>	Oriental bittersweet	The vine twines around surrounding plants, impeding sap flow. Also makes host plants too heavy, increasing wind, snow & ice damage.		James H. Miller, USDA Forest Service, Bugwood.org

Scientific Name	Common Name	Problems Caused	Illustration	Illus. Source
<i>Cirsium arvense</i>	Canada thistle	Competes with crops and degrades pastures (inedible to livestock).		Deborah J. Kratzer
<i>Dipsacus fullonum</i>	wild teasel	Highway mowing equipment and discarded dried teasel heads from flower arrangements can lead to the establishment of new colonies, often forming a monoculture that displaces native communities.		Steve Dewey, Utah State University, Bugwood.org
<i>Elaeagnus umbellata</i>	autumn olive	Sprouts vigorously in disturbed areas, produces shade, preventing sprouting of native trees.		Deborah J. Kratzer
<i>Euonymus alatus</i>	burning bush	Grows well in many sites, especially upland forests and pastures, crowding out native plants.		James H. Miller, USDA Forest Service, Bugwood.org
<i>Hedera helix</i>	English ivy	Grows vigorously in deep shade, inhibiting growth of native woodland plants. Vines up tree trunks, adding to weight, and increasing likelihood of wind damage.		Deborah J. Kratzer
<i>Ligustrum vulgare</i>	common privet	Crowds out more desirable native plants.		USDA PLANTS Database, Bugwood.org

Scientific Name	Common Name	Problems Caused	Illustration	Illus. Source
<i>Lonicera japonica</i> Thunberg	Japanese honey-suckle	Spreads aggressively in disturbed habitats, crowding out native plants. Aggressive roots can decrease the growth of native trees and vines. Vines engulf small trees and shrubs, causing them to collapse. Leafs out very early in spring, which could inhibit flowering by spring ephemerals.		Chuck Bargeron, University of Georgia, Bugwood.org
<i>Lythrum salicaria</i>	purple loosestrife	Spreads aggressively in wetlands, eliminating open water habitats and crowding out native plants. Contributes to the loss of wildlife that depend on native wetland plants.		John D. Byrd, Mississippi State University, Bugwood.org
<i>Microstegium viminium</i>	Japanese stiltgrass	Spreads aggressively in disturbed, moist, shady areas, crowding out native plants. May raise pH and reduce organic soil horizon.		Deborah J. Kratzer
<i>Myriophyllum spicatum</i> L.	Eurasian water-milfoil	An aquatic plant that begins growing earlier in spring than most indigenous aquatic plants, it quickly overtops, outshades, and outcompetes surrounding vegetation.		Britton and Brown, 1913, Vol. 2: 614.
<i>Miscanthus sinensis</i>	Chinese silver grass	Escapes from ornamental plantings and can form large clumps along disturbed areas, crowding out native vegetation. It is also extremely flammable and increases fire risks where it grows.		James H. Miller, USDA Forest Service, Bugwood.org
<i>Polygonum cuspidatum</i>	Japanese knotweed	Spreads aggressively in disturbed, sunny areas, especially river banks and wetlands, crowding out native plants.		Tom Heutte, USDA Forest Service, Bugwood.org





Scientific Name	Common Name	Problems Caused	Illustration	Illus. Source
<i>Potamogeton crispus</i> L.	curly leaf pondweed	An aquatic plant that begins growing earlier in spring than most indigenous aquatic plants, it quickly overtops, outshades, and outcompetes surrounding vegetation. Can form dense mats that disrupt boating, swimming, and fishing.		Mohlenbrock , 1995
<i>Rosa multiflora</i>	multiflora rose	Spreads everywhere, except standing water, crowding out native plants and degrading pastures.		James H. Miller, USDA Forest Service, Bugwood.org
<i>Rubus phoenicolasius</i>	wineberry	Forms an extensive, nearly impenetrable understory layer in favorable locations such as moist soils in forests over dolomite, marble, shale, diabase, and traprock, crowding out native plants.		Jill M. Swearingen, USDI National Park Service, Bugwood.org
<i>Vinca minor</i>	periwinkle	Spreads in shady forests, crowding out native plants.		Jill M. Swearingen, USDI National Park Service, Bugwood.org
Sources: Snyder & Sylvan, 2004; Swearagain et al., 2002; Courtney, 1997; Center for Invasive Species and Ecosystem Health, 2009; Britton and Brown, 1913; Mohlenbrock , 1995				

Table 8: Preserved Open Space

Block	Lot	Property Location	Owner	Acres
		Red's Marina	Middlesex County	3.2
		Donaldson Park	Middlesex County	85.1
		Johnson Park	Middlesex County	51.4
		Johnson Park	Middlesex County	102.7
		Karsey Street Park		1.0
		Veterans Park		0.1
		Volkert/South Ninth		0.3
		Native Plant Reserve on River		3.1
		Rutgers Eco Preserve		66.4
		Felton Avenue Tot Lot		0.1
		Meadows Land Below the Landfill		17.0
		Valley Place Ravine		3.9
		Gateway		0.1
		Cedar Avenue		0.0
		Block 47: Bikeway Lower Portion		1.3
		Block 48: Bikeway Upper Portion		1.0
		Plateau of Landfill		4.7
		Crowells Road and South Eleven		0.0
		Board of Education (BOE)		20.6
		Municipal Land at the head of		0.2
		Sixth Avenue Park - Comp.		0.0
		Sixth Avenue Park - Div.		0.7
		North Eleventh Avenue		0.3
		Route 27 Bridge Abutment & Ele		0.0
		Garden Triangle, Madison and N		0.2
		Municipal Property Overlooking		0.5
Total Preserved Acres (approximate):				363.9
Note: There are no state owned open space properties within Highland Park				
Sources: Middlesex County				

1876 Map:

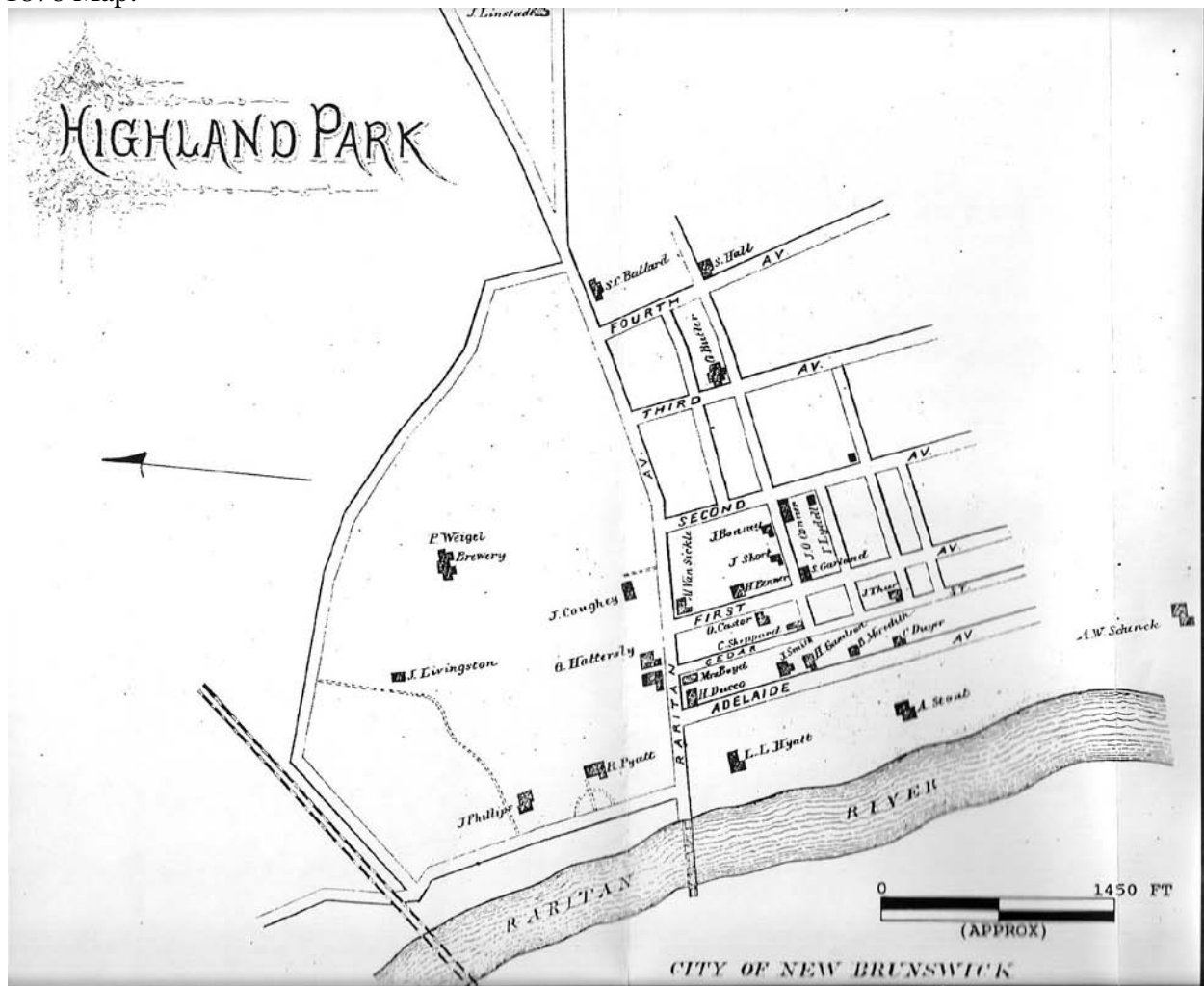


Table 9.1: Criteria for Evaluation for Inclusion in the National Register of Historic Places

The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

- A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- B. That are associated with the lives of persons significant in our past; or
- C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. That have yielded or may be likely to yield, information important in prehistory or history.

Note: Properties are usually at least 50 years old to be considered eligible.

Source: National Register of Historic Places, 2009

Table 9.2: Historic Places in the Borough of Highland Park
 (Item number correlates to numbers shown on Figure 9a)

Item	Inv Number	Street Address	Block	Lot	Waypoint
1	1207-B13	64 Johnson	10	47	2
2	1207-B14	16 South First Avenue	8	10	6
3	1207-B15	20 South First Avenue	8	11	7
4	1207-B16	26 South First Avenue	8	12	8
5	1207-B17	34 South First Avenue	8	15	9
6	1207-B20	103 South First Avenue	14	1	3
7	1207-B21	115 South First Avenue	14	26	4
8	1207-B22	120 South First Avenue	8	24	5
9	1207-B25	212 South First Avenue	9	4	GONE
10	1207-B26	118 Raritan Avenue	13	2	10
11	1207-B27	130 Raritan Avenue	13	9	11
12	1207-B28	134 Raritan Avenue	13	6	12
13	1207-B32	302 South Second Avenue	16	12	15
14	1207-B36	208 Raritan Avenue	22	3	14
15	1207-B37	212 Raritan Avenue	22	4	13
16	1207-B39	233 Magnolia Street	22	17	16
17	1207-B2	17 Cliff Court	11	8	1
18	1207-B7	76/78 South Adelaide	12	12	3
19	1207-B8	11 Cedar Lane	8	6	9
20	1207-B9	19 Cedar Lane	8	35	10
21	1207-B10	20 Cedar Lane	5	5.02	GONE
22	1207-B41	105 Montgomery Street	174	6	7
24	1207-B43	3 River Road	183	2	6
25	1207-B44	19 River Road	183	9.01	5
26	1207-B45	48/50 River Road	186	10	GONE
27	1207-B46	51 River Road	185	11	4
28	1207-B48	443 River Road	189	3	GONE
29	1207-12	143 Raritan Avenue	173	35	8
30	1207-20	Railroad Bridge			
31	1207-21	Rt 27 Bridge			
32	1207-17	Sewer Pumping Station			

Source:

Table 9.3: Archeological Sites of High Potential of Highland Park

(Item number correlates to numbers shown on Figure 9b)

Item	Description	Location
1	Cannery	Donaldson Park
2		
3		
4		
5		
6	Lupardus/Schuchard/Olendorf House and Farmstead	Raritan and Adelaide
7		
8		
9		
10	Phillips Boat House	River Road
11		
12		
13		
14	Railroad Bridge	River Road
15		
16		
17		
18		
19		
20	Greenland House/Tavern, Mercer/Bray/Snyder Mill Property, and Belleview Property	River Road
21		
22		
23		
28	Thompson/Dunn/Crowell House and Farmstead	Donaldson Road
29		
30		
31		
Source:		

Table 9.4: Architecturally Interesting Sites of Highland Park
(ID number correlates to numbers shown on Figure 9c)

ID	No.	Alpha	Address	Block, Lot	Lot
1	1	A	310 Grant Ave	Bl 167	Lot 44
2	1	B	303 Grant Ave	Bl 168	Lot 53
3	1	C	Watson Whitley House (35 Harrison Ave)	Bl 180	Lot 8
4	1	D	241 Grant Avenue	Bl 168	Lot 56
5	1	E	257 Lincolne Ave	Bl 167	Lot 22
6	1	F	254 Lawrence	Bl 165	Lot 26
7	1	G	235 Lincoln Ave	Bl 167	Lot 24
8	1	H	226 Lincoln ave	Bl 166	Lot 35
9	1	I	211 Lincoln	Bl 167	Lot 28
10	1	J	208 Lincoln Ave	Bl 166	Lot 32
11	1	K	Livingston House (81 Harrison Ave)	Bl 180	Lot 4
12	1	L	237 Lincoln	Bl 168	Lot 22
13	1	M	58 Harrison Ave	Bl 179	Lot 5
14	2	A	3-5-7 South Adelaide Avenue	Bl 5	Lot 9
15	2	B	Rice Estate	Bl 1	Lot 1
16	2	C	17 South Adelaide Avenue	Bl 5	Lot 36
17	2	D	23 South Adelaide Avenue	Bl 5	Lot 5.01
18	2	E	29 South Adelaide Avenue	Bl 5	Lot 35
19	2	F	35 South Adelaide Avenue	Bl 5	Lot 34
20	2	G	39 South Adelaide Avenue	Bl 5	Lot 33
21	2	H	43 South Adelaide Avenue,	Bl 5	Lot 32
22	2	I	45 South Adelaide Avenue	Bl 5	Lot 31
23	2	J	51 South Adelaide Avenue,	Bl 5	Lot 30
24	2	K	55 South Adelaide Avenue	Bl 5	Lot 29
25	2	L	59 South Adelaide Avenue	Bl 5	Lot 28
26	2	M	63 South Adelaide Avenue	Bl 5	Lot 15.01
27	2	N	69 South Adelaide Avenue	Bl 5	Lot 16.01
28	3		The "Castle" (433 River Road)	Bl 189	Lot 4
29	4		Bellevue (411 River Road)	Bl 190	Lot 4
30	5		High School (Mill and N. 5th Ave)	Bl 145	Lot 18
31	6		47 Raritan (Brody House)	Bl 173	Lot 54
32	7		202 Raritan Avenue	Bl 22	Lot 1
33	8		215 Magnolia Avenue	Bl 22	Lot 22
34	9		203 S. 4th Avenue	Bl 38	Lot 51
35	10		204 Raritan Ave	Bl 22	Lot 2
36	11		38 S. 1st Avenue	Bl 8	Lot 16
37	12		54 Cedar Avenue	Bl 5	Lot 13
38	13		127 Benner Street	Bl 14	Lot 19
39	14		133 Benner Street	Bl 14	Lot 13,17
40	15		215 S. 1st Avenue,	Bl 15	Lot 27
41	16		126 Benner Street	Bl 15	Lot 6
42	17		205 S. 1st Avenue	Bl 15	Lot 1
43	18		208 S.1st Avenue,	BL 9	Lot 3.01
44	19		401 S. 2nd Avenue	Bl 26	Lot 1
45	20		100 S.1st Avenue	Bl 8	Lot 18
46	21		452 Cedar Ave (NW junction of Cedar and Skyview Terrace	Bl 86	Lot 4
47	22		Soldier Statue WW I	Bl 87	Lot 26
Source:					