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# Hudson-Raritan Estuary Ecosystem Restoration Feasibility Study

**Appendix K  
Future New Phase Spin-off Feasibility Study Sites  
(Target Ecosystem Characteristics and Natural/Nature Based  
Features)**

**Final Integrated Feasibility Report  
& Environmental Assessment**

**April 2020**

**Prepared by the New York District  
U.S. Army Corps of Engineers**



**THE PORT AUTHORITY  
OF NY & NJ**

# Hudson-Raritan Estuary Ecosystem Restoration Feasibility Study Final Integrated Feasibility Report & Environmental Assessment





**Appendix K: HRE Comprehensive Retoration Plan (CRP) “New Phase” Future “Spin-Off” Feasibility Studies  
Potential Target Ecosystem Characteristics and Natural/Nature Based Features**

Planning Region	CRP ID	Site Name	Wetlands	Islands for Waterbirds	Coastal & Maritime Forest	Oyster Reefs	Eelgrass Beds	Shorelines and Shallows	Habitat for Fish, Crab and Lobsters	Tributary Connections	Enclosed and Confined Waters	Sediment Contamination	Public Access	Acquisition	To Be Determined	Sites with NNBF Potential
Jamaica Bay	9	Seagirt Avenue Wetlands	●		●					●	●	●		●		●
	51	Arverne Urban Renewal Area			●							●	●	●		●
	102	Brant Point*	●		●				●			●				●
	103	Breezy Point			●			●				●	●	●		●
	104a	Spring Creek (North)	●		●			●	●			●	●			●
	104b	Spring Creek (South)	●		●			●	●			●	●			●
	105	Idlewild Park (Brookville)	●		●					●	●	●	●			●
	148	Bayswater Point State Park	●		●				●			●				●
	149	Dubos Point	●		●				●			●				●
	151	Bergen Beach	●		●			●				●				●
	160	Bergen Basin	●		●				●		●	●				●
	161	Hawtree Point	●		●							●				●

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	162	Conch Basin	☉						☉		☉	☉		☉		•
Jamaica Bay	165	Mott Basin	☉		☉				☉		☉	☉				•
	166	Shell Bank Creek	☉		☉				☉		☉	☉				•
	167	Somerville Basin	☉		☉				☉			☉				•
	168	Hendrix Creek	☉		☉	☉		☉	☉		☉	☉				•
	172	Vernam Barabadoes	☉		☉				☉			☉		☉		•
	193	Gerritsen Inlet (Dead Horse Bay)	☉		☉				☉			☉				
	198	Canarsie Beach	☉		☉			☉	☉			☉	☉			•
	200	Mill Basin	☉		☉			☉	☉		☉	☉	☉	☉		•
	601	Hook Creek	☉		☉				☉		☉	☉		☉		•
	602	Doxey Creek													1	
	603	Plumb Beach			☉				☉			☉	☉			•
	604	Sheepshead Bay						☉			☉	☉				•
	607	Floyd Bennett Field			☉			☉				☉	☉			
	611	West Pond	☉		☉			☉	☉			☉	☉			•



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	628	Rockaway Peninsula													1	
Jamaica Bay	631	Frank Charles Park	●		●			●	●		●	●	●			
	632	Grassy Bay						●		●	●	●				●
	634	Thurston Basin	●		●				●	●	●	●		●		●
	647	Rockaway Reef													1	●
	730	Fresh Creek	●		●			●		●	●	●	●			●
	731	Paerdegat Basin	●		●			●	●	●	●	●	●			●
	732	Dead Horse Bay	●		●				●			●				●
	810	Shellbank Basin									●	●				
	914	Sunset Cove- Broad Channel Marina	●		●										1	●
	932	Carnasie Pol	●					●				●				●
	933	Black Wall Marsh	●					●				●				●
	934	Goose Pond Marsh	●					●				●				●
	935	Duck Point Marsh Island	●					●				●				●
	936a	Pumpkin Patch Marsh Island (West)	●					●				●				●

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	936b	Pumpkin Patch Marsh Island (East)	●					●				●				●	
Jamaica Bay	937	Stony Creek Marsh Island	●					●				●				●	
	938	Silver Hole Marsh	●					●				●					
	939	Center of Elders Marsh Island	●					●				●				●	
	940	Big Egg Marsh	●					●				●					
	941	Little Egg Marsh	●					●				●					
	-∞	Head of Bay				●											
	<b>Jamaica Bay Total</b>		<b>48 Sites</b>	<b>38</b>	<b>0</b>	<b>30</b>	<b>2</b>	<b>0</b>	<b>25</b>	<b>22</b>	<b>6</b>	<b>16</b>	<b>44</b>	<b>13</b>	<b>8</b>	<b>4</b>	<b>39</b>
Lower Bay	1	Additions to Arden Woods	●		●								●			●	
	3	Canada Hill Forest	●		●							●		●		●	
	4	Charleston/Kreischer Hill Woods	●		●							●	●			●	
	5	North Mount Loretto Woods	●		●					●		●	●			●	
	6	Northern Sea View			●									●			



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	8	Pouch Camp	●		●								●			
Lower Bay	13	South Beach Wetlands, Northern Section	●		●							●	●	●		●
	20	Leonardo (Middletown Township)	●		●							●		●		●
	21	Ware Creek	●		●					●		●				●
	22	Compton Creek	●		●							●		●		●
	23	Natco Lake/Thorns Creek	●		●					●		●		●		●
	24	East Creek	●		●					●		●		●		●
	25	Flat Creek	●		●					●		●		●		●
	26	Conaskonk Point	●		●			●								●
	27	Matawan Creek	●		●					●		●		●		●
	28	Treasure Lake	●		●							●	●	●		●
	29	Whale Creek/Long Neck Creek	●		●					●		●	●			●
	30	Marquis Creek	●		●						●	●				●

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	31	Cheesequake Marsh	●		●							●		●		●
Lower Bay	32	Old Morgan Landfill/Raritan Bay Waterfront Park	●		●			●				●				●
	33	South Amboy	●		●							●		●		●
	44	Many Mind Creek	●		●					●		●	●	●		
	53	Paw-Paw Hybrid Oak Coastal Woods	●		●							●	●			●
	63	St. Edward's Campground			●							●	●	●		●
	64	Butler Manor Woods	●		●					●		●	●			●
	109	Lemon Creek	●		●			●		●		●	●			●
	116	Matawan Creek/Keyport Harbor Mouth													1	
	117	Shadow Lake Dam								●						
	118	Shrewsbury River Watershed (Multiple Sites)												●	1	





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Lower Bay	119	Cheesequake State Park (Atlantic White Cedar Forest)															
	120	Cheesequake State Park (Hook Lake)															
	155	Dreier Offerman													1		
	568	Global Landfill															
	571	Laurence Harbor															•
	578 <sup>∞</sup>	Oakwood Beach															•
	579	Fort Wadsworth Beach															
	580	Great Kills, Gateway NRA															•
	582	Seaview Avenue Wetlands															•
	591	Shrewsbury/Navesink Rivers													1		
	593	Sandy Hook (Shellfish Restoration)													1		

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	594	Raritan Bay (Oyster Bed Restoration)				●									1	
Lower Bay	595	Raritan Bay (Submerged Rock Bed)							●			●				
	596	Crookes Point	●		●							●	●			●
	597	Verrazano Narrows							●			●				
	598	Hoffman-Swinburne Islands		●					●			●				
	599	Gravesend Bay							●			●				
	800	Mt. Loretto	●		●	●	●	●		●		●	●			●
	801	Great Kills Park	●		●							●	●	●		●
	802	Matawan Creek/Keyport Harbor	●		●							●		●		●
	807	Cheesequake State Park	●		●					●		●	●			
	850	Matawan Creek: Freneau Fields/Hauser Farm													1	



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	929	St. Francis Friary driveway												1		
Lower Bay	-∞	Naval Weapon Station Earle				1										
<b>Lower Bay Total</b>		<b>53 Sites</b>	<b>33</b>	<b>1</b>	<b>38</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>0</b>	<b>38</b>	<b>23</b>	<b>21</b>	<b>7</b>	<b>31</b>
Lower Raritan River	60	Silver Lake	1		1				1	1		1		1		
	65	Dismal Swamp	1		1					1		1	1	1		1
	525	Former Nuodex Corporation Facility												1	1	
	526	Hatco Chemical	1		1							1		1		
	527	Renora, Inc.								1		1		1		
	528	South Plainfield Veterans Memorial Park								1			1			
	529	Woodbrook Road												1	1	
	530	Chemsol, Inc.												1	1	
	532	Middlesex Sampling Plant												1	1	
	533	Factory Lane												1	1	

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	534	Cornell Dubilier Superfund Site													1			
	536	Raritan Arsenal															•	
Lower Raritan River	537	National Lead															•	
	538	Evor Phillips Leasing Company													1			
	539	CPS/Madison Industries													1			
	541	Chemical Insecticide Superfund Site													1			
	543	131 Jersey Avenue													1			
	544	Iron Leaf													1			
	545	Kents Neck																•
	546	Edgeboro Landfill													1			
	547	Kin-Buc & Edison Landfills													1			
	548	South Rivers																•
	552	Raritan River Waterfront													1			



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	553	South Brunswick Landfill			0							1	1	1		
	554	Fried Industries												1	1	
Lower Raritan River	555	Jones Industrial Service Landfill												1	1	
<b>Lower Raritan River Total</b>	<b>26 Sites</b>		<b>6</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>0</b>	<b>9</b>	<b>6</b>	<b>22</b>	<b>16</b>	<b>5</b>
Arthur Kill and Kill Van Kull	2	Cable Avenue Woods	1		1							1		1		1
	7	Outerbridge Ponds and Woods	1		1							1		1		1
	15	Sawmill Park Addition	1		1							1		1		1
	16	Merrill's Creek	1		1					1		1		1		1
	17	Neck Creek	1							1				1		1
	18	Port Mobile Swamp Forest and Tidal Flats	1		1				1			1		1		1
	34	Morses Creek												1	1	
	35	Piles Creek	1							1		1		1		
	48	Arlington Marsh	1						1	1		1				1

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	49	Little Fresh Kills, Arthur Kill Peninsula	●		●				●			●		●		●
	50	Graniteville Swamp Woods	●		●					●		●		●		●
	56	Range Road Forest	●		●				●	●		●		●		
Arthur Kill and Kill Van Kull	62	Teleport Magnolia Forest	●		●					●		●				●
	101	Prall's Island	●	●	●				●			●				●
	110	Arden Heights Woods	●		●								●			●
	111	Long Pond Park	●		●					●		●	●			●
	121	Elizabeth River												●	1	
	125	Madison/Maple Avenues								●		●	●			
	126	Milton Lake						●		●		●	●			
	127	Central Avenue								●		●	●	●		
	129	Rahway River Parkway Lake						●		●		●	●			
	131	Potter's Island		●				●								



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	147	Mariner's Marsh	●		●					●		●				●
	182	Rahway River Parkway (Sperry Section), The Lagoon						●		●		●	●			
Arthur Kill and Kill Van Kull	184	Orange Reservoir						●				●	●			
	185	Vauxhall Creek													1	
	194	Gulfport Marsh	●		●				●			●		●		●
	694	Rahway Riverfront Park	●						●			●				
	704	Fresh Kills Landfill	●		●					●		●	●			●
	712	Shooter's Island													1	
	930	Sharrots Shoreline												●	1	
<b>Arthur Kill &amp; Kill Van Kull Total</b>		<b>31 Sites</b>	<b>19</b>	<b>2</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>7</b>	<b>15</b>	<b>0</b>	<b>23</b>	<b>9</b>	<b>15</b>	<b>5</b>	<b>16</b>
Lower Hudson	66	Pennsylvania Railroad Harsimus Stem Embankment											●	●		

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	159	Riverdale Park	●		●					●		●	●			
	189	Inwood Park	●		●			●	●			●	●			●
	190	Fort Tryon Park			●								●			
	191	Spuyten Duyvil	●		●			●				●				●
	196	Fort Washington Park			●								●			●
	197	Riverside Park			●			●	●			●	●			●
Lower Hudson	556	Hudson/Bergen County Waterfront												●	1	
	562	Hudson River Park Estuarine Sanctuary						●	●			●	●			●
	928	Sawmill River Daylighting- Chicken Island													1	
<b>Lower Hudson Total</b>	<b>10 Sites</b>		<b>3</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>7</b>	<b>2</b>	<b>2</b>	<b>5</b>
Newark Bay, Hackensack River and Passaic River	38	Penhorn Creek	●						●	●		●	●	●		●
	39	Kearny Marsh (Freshwater)	●		●				●		●	●	●			●
	40	Berry's Creek													1	●
	42	Bellman's Creek	●						●	●		●		●		●





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	43	Overpeck Creek													1		
	67	Laurel Hill Park Wetlands															
	142	Van Buskirk Island													1		
	143	Oradell Dam															
	145	Dundee Dam															
Newark Bay, Hackensack River and Passaic River	522	Losen Slote Creek Park															
	715	Anderson Creek Marsh													1		
	718	Lyndhurst Riverside Marsh															
	719	Meadowlark Marsh															
	720	Mehrhof Pond															
	721	Metromedia Marsh															
	722	Mori Tract															
	723	Oritani Marsh															
	724	Petrillo Tract															

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	725	Riverbend Wetlands Preserve	●					●	●			●				●	
	727	Secaucus Tract	●					●	●			●				●	
	728	Steiners Marsh	●					●	●			●				●	
	729	Teterboro Woods	●									●		●		●	
	803	Berry's Creek Marsh	●						●	●		●					
	843	Kearny Marsh (Brackish)	●						●			●					●
Newark Bay, Hackensack River and Passaic River	865	Kearny Point	●					●	●			●	●			●	
	866	Oak Island Yards	●		●				●	●		●	●			●	
	867	Unnamed Tidal Creek Pulaski Skyway (Lawyers Creek)	●							●	●	●					●
	868	Un-named Tidal Creek-NJ Turnpike	●					●	●	●	●	●					
	869	Kearny Marsh (Cedar Creek Marsh)	●						●		●	●					●
	870	Franks Creek Site (1-D Landfill)	●						●	●	●	●					



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	871	Path Rail Fringe Marsh	●						●			●		●		
	872	Harrison Shoreline Redevelopment	●						●			●				
	873	Newark Riverbank Park/Joe G. Minish Park (Portion)	●					●	●			●	●			
	874	Gateway Park/ Joseph G. Minish Park (Portion)											●	●		
Newark Bay, Hackensack River and Passaic River	875	Riverfront Park	●					●	●			●		●		●
	876	Clay Street Lot										●	●	●		
	877	Franklin- Burlington Plastics	●					●	●			●		●		
	878	Frank Vincent Park and Boat Ramp	●					●	●			●	●	●		
	879	Kearny Riverbank Park	●					●	●			●				
	880	Jacobus Avenue-Kearny														1
	881	PSE&G Shoreline														1

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	882	Saddle River Ox Bow								☉		☉		☉		
	883	Saddle River Felician College South								☉		☉		☉		
	884	Saddle River Lodi Cemeteries								☉		☉				
	885	Saddle River Arcola Pool Site								☉		☉		☉		
	886	Saddle River County Park	☉							☉		☉		☉		
	887	Essex County Branch Brook Park	☉					☉		☉			☉	☉		
Newark Bay, Hackensack River and Passaic River	888	Second River Passaic/ Belleville								☉		☉	☉	☉		
	889	Second River Bloomfield								☉		☉	☉	☉		
	890	Second River Watsessing Park								☉		☉	☉			
	891	Second River Wigwam Brook Industrial								☉		☉		☉		
	892	Second River Mills								☉		☉				



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	893	Third River (Mouth)								●		●	●			
	894	Third River Clifton Pond	●							●		●	●			
	895	Third River Forest Hills Field Club								●		●				
	896	Third River JFK Parkway								●		●	●			
	897	Third River Glen Ridge Country Club								●		●				
	898	Third River Clarks Pond	●							●			●			
Newark Bay, Hackensack River and Passaic River	899	Third River Alonzo F. Bonsal Wildlife Preserve								●		●	●			
	900	Dundee Island Park/Pulaski Park						●		●		●	●			
	901	Semel Avenue & River Road Parcel	●					●		●		●	●			

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	902	Clifton Dundee Canal Green Acres Purchase and Dundee Island Preserve	●					●	●	●		●	●			
	903	Botany Street Small Islands	●					●	●	●		●				
	904	Dundee Lake Islands at Clifton and Elmwood Park													1	
	905	Joe Sesselman Park	●					●		●		●	●			
	906	Joe Sesselman Park Annex	●					●		●		●	●			
	907	Waterfront Access in the City of Passaic	●					●		●		●	●			
	Newark Bay, Hackensack River and Passaic River	908	Rutherford Memorial Field	●					●		●		●	●		
909		Route 3 Bridge (PRC) parcels	●							●		●	●			



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Newark Bay, Hackensack River and Passaic River	910	Riverside Co.Park North Joe Carucci Park/Lyndt Park	●						●	●		●	●			
	911	River Bank Edge Parcels	●							●		●				
	912	Riverside Park (Bergen Co. South Pk.)	●						●	●		●	●			
	913	Weasel Brook Park						●		●		●	●			
	923	Nutley Boat Ramp											●			
	925	Stonewall													1	
	931	Rapp's Boatyard												●	1	
<b>Newark Bay, Hackensack River and Passaic River</b>	<b>76 Sites</b>		<b>46</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>31</b>	<b>41</b>	<b>5</b>	<b>62</b>	<b>36</b>	<b>21</b>	<b>9</b>	<b>24</b>
Harlem River, East River and Western Long Island Sound	10	South Brother Island		●	●			●				●				
	11	Udalls Cove Ravine			●					●		●	●	●		●
	12	Huckleberry Island		●												
	52	City Island Wetlands	●		●				●	●		●				

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	107	Meadow Lake	●								●	●	●			●	
	113 <sup>∞</sup>	Bronx River/Shoelace Park	●		●			●	●	●			●		1		
	153	Palmer Inlet	●							●	●	●		●			
	170	Bowery Bay	●		●			●		●	●	●		●		●	
	175	Pugsley Creek	●		●						●	●	●			●	
	177	Turtle Cove													1		
	179	Pelham Bay Park/Tallapoosa West			●										1		
	188	Flushing Creek	●		●			●	●	●		●					●
	648	Ferry Point Park	●		●			●	●			●	●				●
	650	Hart Island	●	●	●			●						●			
	652	Rice Stadium Wetlands													1		
Harlem River, East River and Western Long Island Sound	662	Pelham Bay Landfill			●							●	●				
	663	Sherman Creek	●			●		●	●			●	●	●			●
	666	Oak Point Rail Yard						●	●	●		●		●			●





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	669	Hempstead Harbor	●		●	●			●	●	●	●				●	
	672	Anable Cove	●		●				●			●	●	●			
	673	Stuyvesant Cove						●	●			●	●				
	674	Hallet's Cove	●					●	●			●	●	●		●	
	675	Newtown Creek						●			●	●				●	
	676	Bushwick Inlet	●		●			●	●		●	●	●				●
	677	Cove Between the Bridges (part of Brooklyn Bridge)						●	●			●	●				●
	678	Hutchinson River Marsh Restoration	●		●				●	●		●	●	●			●
	679	Hutchinson River Fish Impediment Removal								●							
	680	Tibbetts Brook									●			●	1		●
Harlem River, East River and Western Long Island Sound	841	Brooklyn Navy Yard Wallabout Channel												●	1		
	842	Bronx Kill Shoreline-Randall's Island													1		
	851	Bronxville Lake	●		●			●	●	●	●		●		1		








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	852	Crestwood Lake													1	
	854	Westchester County Center													1	
	857	Bronx River Forest													1	
	858	182 <sup>nd</sup> St. Dam													1	
	860	Bronx River Park													1	
	862	Muskrat Cove													1	
	918	North White Plains													1	
	919	287 Crossing													1	
	920	Bronx River Invasives Upper													1	
	921	Bronx River Invasives Lower													1	
	922	Woodlawn													1	
Harlem River, East River and Western Long Island Sound	926	East Harlem Ecological Edge													1	
	927	Tibbetts Brook Daylighting and Putnam Greenway													1	



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	942 <sup>∞</sup>	Garth Woods													1	
	943	Harney Road													1	
	944	Anadromous Fish Passage (Bronx Zoo)													1	
	945	Anadromous Fish Passage (Stone Mill)													1	
	<sup>∞</sup>	Soundview Park*														
<b>Harlem River, East River, &amp; Western Long Island Sound Total</b>	<b>49 Sites</b>		<b>21</b>	<b>3</b>	<b>21</b>	<b>3</b>	<b>0</b>	<b>19</b>	<b>21</b>	<b>20</b>	<b>9</b>	<b>21</b>	<b>17</b>	<b>12</b>	<b>25</b>	<b>15</b>
Upper Bay	37	Liberty State Park														
	154a <sup>∞</sup>	Bush Terminal														
Upper Bay	154b	Brooklyn Sunset Park														
	502	Coffey Street Park														
	503	Gowanus Canal														
	504	Lower Bay Reef														

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	840	Northshore Waterfront Greenway Trail													1	•
	864 <sup>∞</sup>	Governors Island														
		<b>8 Sites</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>4</b>
<b>Grand Total</b>		<b>304 Sites Total</b>	<b>169</b>	<b>6</b>	<b>123</b>	<b>10</b>	<b>1</b>	<b>85</b>	<b>96</b>	<b>103</b>	<b>31</b>	<b>207</b>	<b>115</b>	<b>102</b>	<b>69</b>	<b>139</b>
<b>HRE Recommended Plan</b>		<b>20</b>	<b>14</b>	<b>0</b>	<b>8</b>	<b>3</b>	<b>0</b>	<b>10</b>	<b>8</b>	<b>9</b>	<b>1</b>	<b>10</b>	<b>7</b>	<b>3</b>	<b>6</b>	<b>11</b>
<b>Removed from HRE Recommended Plan</b>		<b>11*</b>	<b>10</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>8</b>	<b>9</b>	<b>6</b>	<b>1</b>	<b>8</b>	<b>7</b>	<b>0</b>	<b>4</b>	<b>4</b>
<b>Total Implemented by Others</b>		<b>20</b>	<b>11</b>	<b>0</b>	<b>10</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>5</b>	<b>2</b>	<b>13</b>	<b>10</b>	<b>4</b>	<b>5</b>	<b>13</b>
<b>Total for Future Spin-Offs</b>		<b>253</b>	<b>134</b>	<b>6</b>	<b>99</b>	<b>4</b>	<b>1</b>	<b>63</b>	<b>71</b>	<b>83</b>	<b>27</b>	<b>176</b>	<b>91</b>	<b>95</b>	<b>54</b>	<b>111</b>

Notes:

At the time of publication in June 2016, 296 sites were approved by the RWG. The following sites are not included: Conference House Park freshwater wetland, Crescent Beach, Depot Place, Hammond Cove, Idlewild Cove, City Island Ambrosini fields, and Snug Harbor.



*Symbol indicates that TEC is planned for the project; Blank in column indicates that TEC is not associated with project.*

*Blue: Represents Restoration Sites included in the HRE Recommended Plan.*

*Orange: Represents Restoration Sites that were deleted from HRE Recommended Plan and would not be considered for future feasibility study spin-offs*

*Green: Represents Restoration Sites advanced by Regional Partners*

*∞ Projects would complement and consider ongoing non-federal sponsors activities at the site. Benefits and costs of the project do NOT include these additional activities and were included in the Future Without Project Condition.*

*\*13 Sites were removed from the HRE Recommended Plan. Soundview Park was deleted from the HRE Recommended Plan, but is being implemented by the Harbor School. Brant Point restoration was deleted from the HRE Recommended Plan, but is being implemented by the Atlantic Coast of New York East Rockaway Inlet to Rockaway Inlet and Jamaica Bay Reformulation Study.*