Regulated Area	Habitat Type	Temporary Disturbance Area (acre)	Proposed Restoration	Density/ Seed Rate	Scientific Name	Common Name	Wetland Indicator Status
Wetland	Forested Wetland	0.184	Trees	436/acre	*Acer rubrum*	Red maple	FAC
			Shrubs	681/acre	*Clethra alnifolia*	Sweet pepperbush	FAC
					Ilex verticillata	Winterberry	FACW
					Viburnum dentatum	Arrowood	FAC
					Lindera benzoin	Spicebush	FAC
			Wildlife Food & Shelter Seed Mix (ERNMX-138)	20lb/acre	--	--	--
	Emergent Wetland	0.022	OBL Wetland Seed Mix (ERNMX-131)	20lb/acre	--	--	--
Transition Area	Forested Upland	1.681	Trees	436/acre	*Acer rubrum*	Red maple	FAC
					Prunus serotina	Wild black cherry	FACU
			Riparian Buffer Mix (ERNMX-178)	20lb/acre	--	--	--
	Grassland	0.873	Riparian Buffer Mix (ERNMX-178)	20lb/acre	--	--	--
Riparian Zone	Forested	0.211*	Trees	436/acre	*Acer rubrum*	Red maple	FAC
			Shrubs	681/acre	*Clethra alnifolia*	Sweet pepperbush	FAC
					Ilex verticillata	Winterberry	FACW
					Viburnum dentatum	Arrowood	FAC
					Lindera benzoin	Spicebush	FAC
			Wildlife Food & Shelter Seed Mix (ERNMX-138)	20lb/acre	--	--	--

*Riparian Zone disturbance includes 0.053 acres of forested upland and 0.158 acres of forested wetland disturbance.

APPROVED

File No.: 1436-13-0005.2
Activity No.: LUP210001
Date: January 27, 2022

State of New Jersey
Department of Environmental Protection
Watershed and Land Management

OBL Wetland Mix - ERNMX-131

Percentage	Botanical Name	Common Name
27.00 %	*Carex vulpinoidea, PA Ecotype*	Fox Sedge, PA Ecotype
15.00 %	*Carex lurida, PA Ecotype*	Lurid Sedge, PA Ecotype
14.00 %	*Carex lupulina, PA Ecotype*	Hop Sedge, PA Ecotype
12.00 %	*Carex scoparia, PA Ecotype*	Blunt Broom Sedge, PA Ecotype
5.00 %	*Elymus virginicus, Madison-NY Ecotype*	Virginia Wildrye, Madison-NY
4.00 %	*Verbena hastata, PA Ecotype*	Blue Vervain, PA Ecotype
3.70 %	*Sparganium eurycarpum, PA Ecotype*	Giant Bur Reed, PA Ecotype
3.00 %	*Carex stipata, PA Ecotype*	Awl Sedge, PA Ecotype
3.00 %	*Juncus effusus*	Soft Rush
2.80 %	*Asclepias incarnata, PA Ecotype*	Swamp Milkweed, PA Ecotype
2.00 %	*Iris versicolor*	Blueflag
1.50 %	*Sparganium americanum*	Eastern Bur Reed
1.40 %	*Bidens cernua, PA Ecotype*	Nodding Bur Marigold, PA
1.00 %	*Eupatorium perfoliatum, PA Ecotype*	Boneset, PA Ecotype
1.00 %	*Helenium autumnale, PA Ecotype*	Common Sneezeweed, PA
1.00 %	*Vernonia noveboracensis, PA Ecotype*	New York Ironweed, PA Ecotype
0.50 %	*Lobelia siphilitica, PA Ecotype*	Great Blue Lobelia, PA Ecotype
0.50 %	*Scirpus cyperinus, PA Ecotype*	Woolgrass, PA Ecotype
0.40 %	*Aster novae-angliae, PA Ecotype*	New England Aster, PA Ecotype
0.30 %	*Aster puniceus, PA Ecotype*	Purplestem Aster, PA Ecotype
0.30 %	*Aster umbellatus, PA Ecotype*	Flat Topped White Aster, PA
0.30 %	*Eupatorium fistulosum, PA Ecotype*	Joe Pye Weed, PA Ecotype
0.30 %	*Penthorum sedoides, PA Ecotype*	Ditch Stonecrop, PA Ecotype

Wildlife Food & Shelter Mix - ERNMX-138

Percentage	Botanical Name	Common Name
27.40 %	*Carex vulpinoidea, PA Ecotype*	Fox Sedge, PA Ecotype
20.00 %	*Elymus virginicus, PA Ecotype*	Virginia Wildrye, PA Ecotype
15.00 %	*Carex lupulina, PA Ecotype*	Hop Sedge, PA Ecotype
15.00 %	*Carex scoparia, PA Ecotype*	Blunt Broom Sedge, PA Ecotype
14.00 %	*Carex lurida, PA Ecotype*	Lurid Sedge, PA Ecotype
3.00 %	*Juncus effusus*	Soft Rush
2.00 %	*Asclepias incarnata, PA Ecotype*	Swamp Milkweed, PA Ecotype
2.00 %	*Carex crinita, PA Ecotype*	Fringed Sedge, PA Ecotype
1.00 %	*Cornus amomum, IA Ecotype*	Silky Dogwood, IA Ecotype
0.30 %	*Aronia melanocarpa, OH Ecotype*	Black Chokeberry, OH Ecotype
0.30 %	*Cephalanthus occidentalis*	Buttonbush

Riparian Buffer Mix - ERNMX-178

Percentage	Botanical Name	Common Name
25.00 %	*Elymus virginicus, PA Ecotype*	Virginia Wildrye, PA Ecotype
24.00 %	*Andropogon gerardii, 'Niagara'*	Big Bluestem, 'Niagara'
24.00 %	*Sorghastrum nutans, WI Ecotype*	Indiangrass, WI Ecotype
15.00 %	*Panicum virgatum, 'Carthage', NC Ecotype*	Switchgrass, 'Carthage', NC
3.00 %	*Asclepias incarnata, PA Ecotype*	Swamp Milkweed, PA Ecotype
3.00 %	*Verbena hastata, PA Ecotype*	Blue Vervain, PA Ecotype
1.50 %	*Eupatorium perfoliatum, PA Ecotype*	Boneset, PA Ecotype
1.50 %	*Helenium autumnale, PA Ecotype*	Common Sneezeweed, PA
0.70 %	*Aster novae-angliae, PA Ecotype*	New England Aster, PA Ecotype
0.70 %	*Aster umbellatus, PA Ecotype*	Flat Topped White Aster, PA
0.70 %	*Zizia aurea, PA Ecotype*	Golden Alexanders, PA Ecotype
0.50 %	*Monarda fistulosa, Fort Indiantown Gap-PA Ecotype*	Wild Bergamot, Fort Indiantown
0.40 %	*Solidago rugosa, PA Ecotype*	Wrinkleleaf Goldenrod, PA

Notes:
1. Seed mix lists provided by ERNST Conversation Seeds are dated 9/30/2021 and are subject to change based on availability.
2. Seed mixes will not include the following species:
   - Deer tongue (*Dichanthelium clandestinum*)
   - Black-eyed susan (*Rudbeckia hirta*)
   - Purple coneflower (*Echinacea purpurea*)

USE OF DOCUMENTS
THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF KENNEDY/JENKS CONSULTANTS ©.

NO	REVISION	DATE	BY

SCALES
0 — 1"
0 — 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

STATE OF NEW JERSEY — STEPHEN R. MONTAGNA — No. 35214 — LICENSED PROFESSIONAL ENGINEER

DESIGNED CMW
DRAWN CMW
CHECKED LES

HERCULES LLC - FORMER KENVIL WORKS FACILITY
KENVIL, ROXBURY TOWNSHIP, MORRIS COUNTY, NEW JERSEY
TNT PROJECT AREA FRESHWATER WETLANDS GENERAL PERMIT 4

Kennedy Jenks

RESTORATION PLAN DETAILS

SCALE
JOB NO 1540001.88
DATE JANUARY 2022
SHEET OF 2 OF 2

Plot Date: 1/10/2022 2:17 PM
User: CAYLA WHITESIDE
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