

LARDNER'S POINT PARK

Ecological Restoration



Delaware Direct Watershed Partnership
December 2, 2009

Paul Lonie, Delaware River City Corp.

With acknowledgement to Sarah Thorp
(who has gone south)



North Delaware Riverfront Greenway

- **11 miles of trail** from Allegheny Ave. to Poquessing Creek (border between Philadelphia and Bucks Counties)
- Includes **4 existing riverfront parks** and **2 proposed parks** (Lardner's Point is one of these)
- Part of the **East Coast Greenway** – 3,000 mile trail from Maine to Florida



CONTEXT



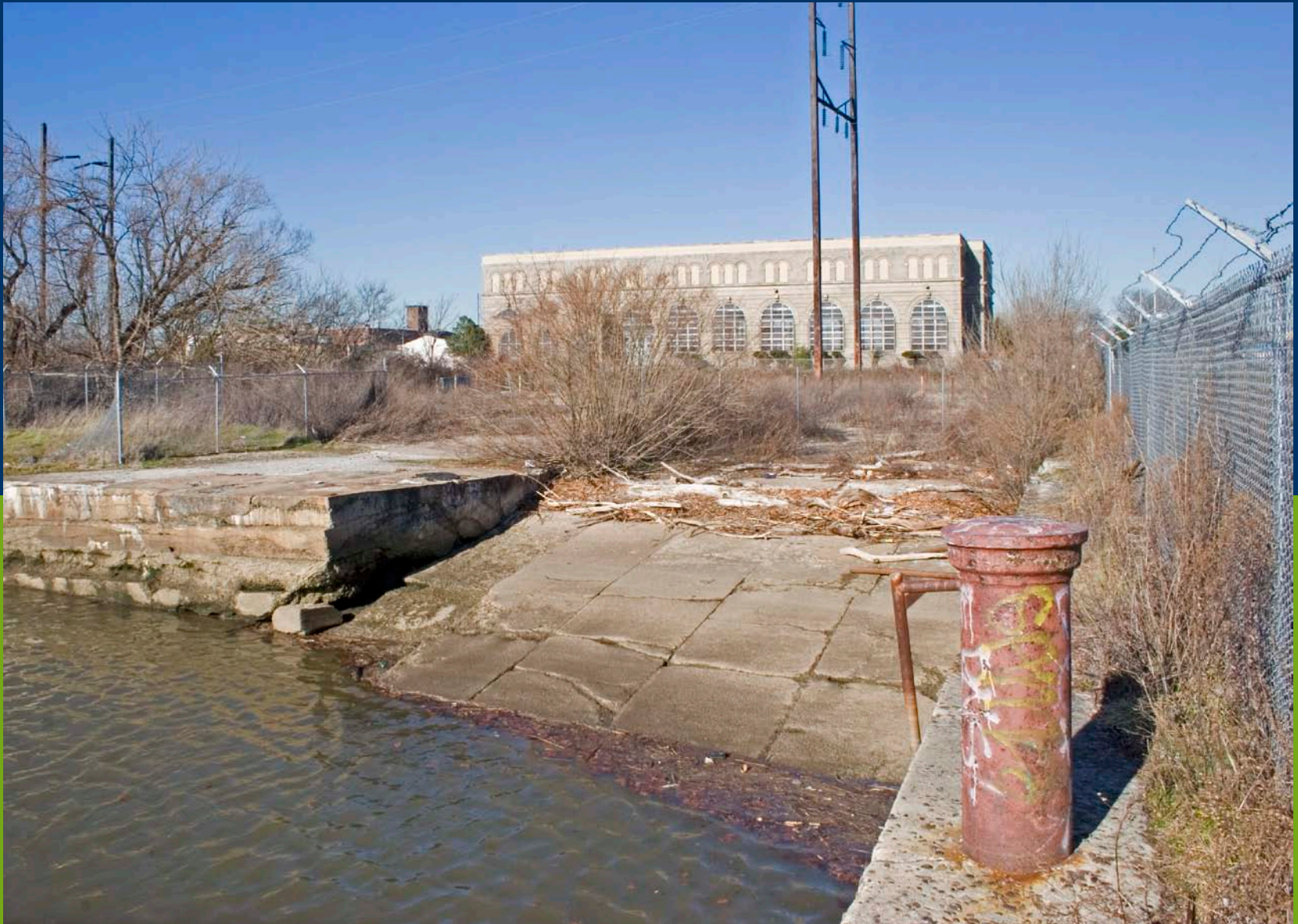
- Park is directly south of Tacony-Palmyra Bridge
- 4.5 acres
- 570 feet of shoreline

A signature park for the 21st century

- 64TH park in FPC system
- 4.5 acres
- Passive recreation
- Extensive habitat restoration
- Elements (pier, wetland, trails, trailhead)
- Sustainability



EXISTING CONDITIONS



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PLANNING

March 2006

Initial park plans completed

Sept. 2006

\$650,000 secured for construction

Summer / Fall 2007

Athos mitigation funding discussions / plans changed to include additional 270 feet of shoreline

December 2007

Concept plan for additional restoration completed

Fall 2008

Design of addt'l shoreline / permitting begun

January 2010

Design completed including new shoreline

March 2010

Construction



2007 Additional Shoreline



Additional Shoreline Restoration Concept Plan

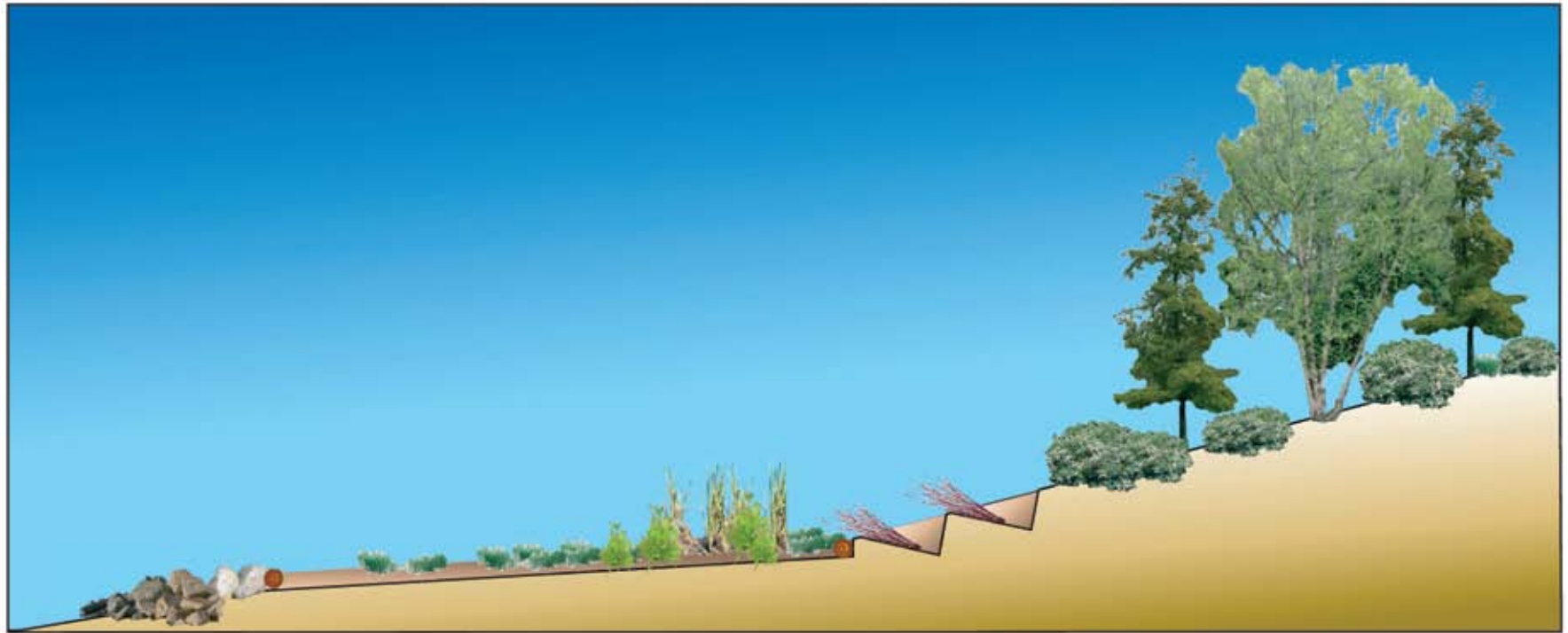
LEGEND

- Completed Park Design- Upland
- Completed Design for NOAA funding
- Completed Park Design- Proposed Trail and Pier
- Existing Tree Grove (to be retained)
- Proposed Trail Segment Relocation
- Existing Concrete Rubble (to be retained)
- Proposed Rock Toe Sill Protection
- Proposed Marsh Fill (Sand and Silt)
- Proposed Marsh Plantings
- Proposed Live Branch Layering
- Proposed Coastal Plain Riverbank plantings

Date: 11/07



2007 Shoreline Cross Section



Rubble

Rock Toe
Sill

Marsh Fill

Marsh Plantings

Live Branch Layering

Riverbank Plantings

CROSS SECTION (TYPICAL)

FUNDING

<u>Cost</u>	<u>Source</u>	<u>Description</u>
\$750,000	PA DCNR	site clearing, grading, basic planting
\$365,000	NPFC	shoreline restoration and wetland
\$123,000	DVRPC	design, permitting, pier
\$178,000	Fed'l Trans.	main trail and trailhead
<u>\$145,000</u>	NFWF	habitat plantings
\$1,561,000	Total	



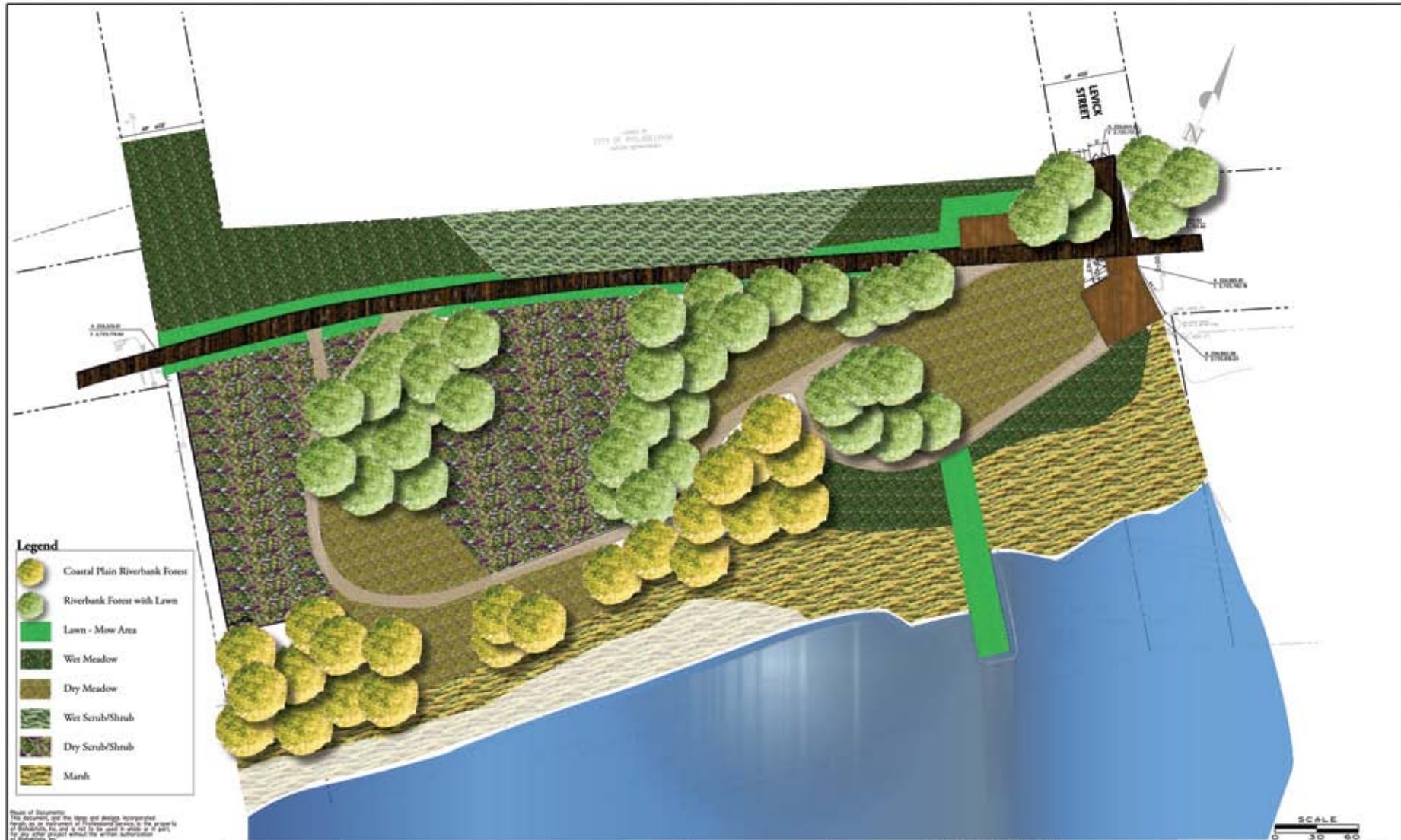
NFWF Request

Habitat plantings

- Wet and dry meadow
- Wet and dry scrub-shrub
- Low and high marshes
- Riverbank forest
- Native entrance garden
- Lawn mow area



NFWF Planting Plan



- Legend**
-  Coastal Plain Riverbank Forest
 -  Riverbank Forest with Lawn
 -  Lawn - Mow Area
 -  Wet Meadow
 -  Dry Meadow
 -  Wet Scrub/Shrub
 -  Dry Scrub/Shrub
 -  Marsh

Notes of Description:
The documents and the design and design incorporated herein, as an instrument of Professional Service, is the property of Biohabitats, Inc. and is not to be used in whole or in part, for any other project without the written authorization of Biohabitats, Inc.

NO.	DATE	DESCRIPTION

Date: 3/08
 Author: SEM, JMT
 Date: 2/2/08
 Author: JMT
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 Author: JMT
 Biohabitats Project No: 04034.01


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**NORTH DELAWARE
 RIVERFRONT GREENWAY-
 LARDNER POINT**
 TACONY - PHILADELPHIA, PENNSYLVANIA

**PROPOSED ECOLOGICAL
 RESTORATION AND
 PARK PLAN**
 SCALE: 1" = 30'
 CONTRACT NO:
 SHEET
3 of 15
DATE SUBMITTED

CHALLENGES

Archeological Clearance

- Shortnose Sturgeon 3/1 to 6/30
- Red Belly Turtles
- Water line relocation
- PWD Post Construction Plan
- National Permit

QUESTIONS

www.drcc-phila.org

PAUL LONIE

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