NSP2 Environmental Review Record Submission to HUD

GRANTEE INFO

• Grantee name: Camden Redevelopment Agency

Grant Number: B-09-CN-NJ-0008
 Contact person: Olivette Simpson

• Contact Person E mail: OlSimpso@ci.camden.nj.us

• Contact Person Phone Number: **856-757-7600**

TA PROVIDER INFO

• TA Number: **3833**

- Status of Submission:
- Please check box that indicates status of submission:
 - X Original
 - € Resubmission
 - € Change in Scope or nature of project, i.e. activities, number of units, conditions
- TA Provider name: **John W. Downs**
- TA Provider email: **JDowns@nationaldevelopmentcouncil.org**
- Ta Provider phone number: 919-783-0108
- Date Grantee received comments/recommendations from TA provider on the ERR (copy attached):

PROJECT INFO

- Location of project: Camden, New Jersey
- Brief description of project: This area does not have a specific project associated with it to date. This ERR is being done as part of the planning process for the Lanning Square Neighborhood.
- Total estimated cost of project: Not Applicable
- Total amount of HUD NSP2 funds for project:
- Amount of HUD NSP2 funds requested for project for this submission:

TYPE OF REVIEW

- Please check a box that describes this submission:
 - € Categorically Excluded Not Subject to
 - X Categorically Excluded Subject To 50.4
 - € Environmental Assessment
 - **X** Batched Review, **Tiered**, Neighborhood Target

TIER 1: AREA WIDE REVIEW: LANNING SQUARE NEIGHBORHOOD

Program/project name and description:

The Lanning Square Neighborhood (Project Area) consists of abandoned buildings previously used for commercial, manufacturing or industrial purposes, or same allowed to deteriorate and become untenable; land that is owned by the Municipality, the County, the Local Housing Authority, redevelopment entity or unimproved vacant land; and properties which have experienced dilapidation, obsolescence, deleterious land use detrimental to the welfare of the community. The primary purpose of Lanning Square's redevelopment is to restore the area as a vibrant neighborhood with a strong educational facilities presence; to revitalize and complement area housing, institutions and businesses and to create new commercial, housing, open space, institutional opportunities and improved infrastructure. This redevelopment will have the result of making the Lanning Square area consistent with the revitalization in the adjacent neighborhoods of Camden Downtown, Cooper Plaza, Bergen Square and Central Waterfront within the City of Camden. The Camden Redevelopment Agency (CRA), intends to use United States Department of Housing and Urban Development (HUD) funds to provide financing assistance for the redevelopment. The project will consist of rehabilitation of existing residences and new residential development; institutional development; economic development; open space development and infrastructure development.

From: January 2008 To: December 2033

Definition of Area of Consideration:

The Project Area is 79.9-acres in size in North-Central section of the City of Camden, Camden County, New Jersey (**Figure 1**). The Project Area boundaries consist of Dr. Martin Luther King Jr. Boulevard to the North; Pine Street to the South; South Broadway to the East; and South 3rd Street to the West.

AREA-WIDE FACTORS

The following factors were determined based on published literature and sources. Also the findings were based on a limited site reconnaissance which included observations made from public right of ways.

Coastal Zone Management

Based on review of published literature and sources, the Project Area is not located within a Coastal Barrier Area (Figure 2).

Source documentation: GIS data set entitled "CBRS_Polygons", published by U.S. Fish and Wildlife Service, 4/1/2010.

Floodplain Management

Based on review of published literature and sources, the Westernmost and Northwestern sections, mainly west of South 4th Street of the Project Area contain floodplains. This floodplain is designated as Zone AE which is defined as an area inundated by 100-year flooding, for which Base Flood Elevation (BFE) has been determined. The BFE for this Flood Zone is 9 feet (**Figure 3**).

Source documentation: GIS data set entitled "National Flood Hazard Layer", published by FEMA, 7/22/2010. The Project Area appears on FIRM Panel Nos. 17, 28 and 36 of 305 for Camden County, New Jersey (all jurisdictions).

Historic Preservation

Research at the New Jersey Department of Environmental Protection (NJDEP) – Historic Preservation Office (SHPO) found that 33 cultural resource surveys had been conducted within a 1-mile radius of the Project Area (**Table 1**). Of these, 8 appear to have occurred within the Project Area or overlapped the Project Area's boundaries. These studies and other efforts to identify cultural resources have resulted in the recording of 42 historic properties within a mile of the Project Area boundaries; 11 of which are situated within or adjacent to the Project Area (**Table 2** and **Figure 4**). The New Jersey State Museum (NJSM) has recorded a single archaeological site within 1 mile of the Project Area boundaries (**Table 3**). Four additional archaeological sites are recorded at the SHPO; however, these sites do not appear on the NJSM maps of the area.

A majority of the cultural resources discussed above have either been listed on the New Jersey and National Registers of Historic Places or have been issued an Opinion of Eligibility for listing on both registers by the NJDEP-HPO, which affords them the same protected status under federal historic preservation regulations as being listed. The involvement of the HUD in funding the proposed redevelopment and the potential to affect properties listed on the National Register of Historic Places and properties which have been evaluated as eligible for listing on the National Register and the existence of such properties within the Project Area indicate that the proposed actions are an "undertaking" as defined in 36 CFR 800. The undertaking therefore falls under the jurisdiction of Section 106 of the National Historic Protection Act of 1966 (Section 106) and National Environmental Policy Act (NEPA). Section 106 and NEPA require federal agencies funding or permitting a project to take into account that project's potential effects on historic properties (36 CFR 800).

Source Documentation: GIS data sets entitled "NJDEP Historic Districts of New Jersey, Edition 2010" and "NJDEP Historic Properties of New Jersey, Edition 2010", published by New Jersey Department of Environmental Protection (NJDEP), Natural and Historic Resources (NHR), Historic Preservation Office (HPO), 10/6/2010.

Google Earth file downloaded from the National Register of Historic Places website: http://nrhp.focus.nps.gov/natreg/docs/Spatial_Data.html, on 11/26/2010. The data was last updated on 8/13/2010.

File Research and review at State Historic Preservation Office.

File Research and review at New Jersey State Museum.

Noise Abatement

Based on review of published literature and sources, there are no railroads within 3,000 feet; no civil airports within 5 miles; no military airfields within 15 miles; and no major highways within 1,000 feet of the Project Area. There are three busy roads within 1,000 feet of the Project Area: these roads serving the project area are arterial roadways—Broadway, Federal Street and Newton Avenue (**Figure 5**).

Source documentation: Street data was taken from GIS data set entitled NJ_Roadway_Network_Flipped", published by New Jersey Department of Transportation (NJDOT), Bureau of Transportation Data Development (BTDD), 7/01/2010.

Airport locations were taken from GIS data set entitled "StreetMap USA", published by ESRI, 2007.

Hazardous Operations

Based on review of published literature and sources and the site reconnaissance there appears to be some facilities that can be deemed Hazardous Industrial Operations. These consist of dry cleaners and gasoline stations that are located in the Project Area.

(Figure 6)

Source Documentation: Observations noted during field visit, November, 2010.

Airport Hazards

Based on review of published literature and sources, there are no FAA-designated civil airports within 3,000 feet of the project and no military airfields within 2-1/2 miles of the Project Area (**Figure 7**).

Source documentation: Airport locations were taken from GIS data set entitled "StreetMap USA", published by ESRI, 2007.

Wetland Protection

Based on review of published literature and sources, there are no wetlands within the Project Area (Figure 8).

Source documentation: New Jersey State wetlands were derived from GIS data set entitled "2007 Land use/Land Cover Update", published by New Jersey Department of Environmental Protection (NJDEP), May 2010.

National Wetlands Inventory areas were taken from the "Wetlands Data - Continental US" layer, using a Web Map Service (WMS) inside the ESRI ArcGIS ArcMap environment. Data was published by U.S. Fish and Wildlife Service, 1/22/2010. Link to the WMS is at: http://www.fws.gov/wetlands/Data/WebMapServices.html

Toxic Chemicals & Radioactive Materials

Based on review of published literature and sources and the site reconnaissance there appears to be some facilities that can be deemed as having toxic chemicals. These findings are based on facilities observed during the site reconnaissance and the records reviews which indicated that there are several facilities within the Project Area that have been identified as being a potentially contaminated site. Although no underground storage tanks (USTs) were identified during the site reconnaissance, due to the age of the Project Area, the presence of USTs is high. This evaluation does not include a Phase I Environmental Site Assessment (Phase I ESA) nor is there knowledge that a Phase I or Phase II ESA has been completed on some or all of the properties within the Project Area.

Based on review of published literature and sources there are no United States Environmental Protection Agency (USEPA) National Priority or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites within the Project Area. Based on the information reviewed on the USEPA Web Page there are no radiologically impacted sites in or adjacent to the Project Area.

Source documentation: Superfund Sites were taken from the "Superfund_Sites – NPL_FS" layer, using a Web Map Service (WMS) published by the U.S. EPA. The data in the WMS is entitled "National Priority List (NPL) Sites (Public Version), 2006". Link and more information on this WMS is at: http://www.epa.gov/geospatial/help.htm.

Underground Storage Tank Locations were derived by running a query on the New Jersey Department of Environmental Protection (NJDEP) Data Miner's Active Facilities with Compliant Tank Report. The report was queried on 11/26/2010. The address to the Data Miner report is: http://datamine2.state.nj.us/DEP_OPRA/OpraMain/categories?category=Underground+Storage+Tanks. Locations were then geocoded into a map using ESRI ArcGIS ArcMap program.

Landfill locations were researched using the NJDEP Solid & Hazardous Waste website at: http://www.state.nj.us/dep/dshw/lrm/landfill.htm, accessed on 11/26/2010.

NPL Radiation Sites were researched using USEPA Web Page. http://www.epa.gov/radiation/cleanup/usa.html#nj

Contaminated or potentially contaminated sites were identified on the NJDEP Web Page I-Map. http://njgin.state.nj.us/dep/DEP iMapNJDEP/viewer.htm

Endangered Species

Based on review of published literature and sources, and although this project does propose new construction, according to the United States Department of Interior website, there are no Threatened or Endangered Species or Critical Habitats in the Project Area.

Source documentation: United States Department of Interior Critical Habitats Web Page http://crithab.fws.gov/

United States Department of Interior Endangered Species Web Page http://ecos.fws.gov/ipac/wizard/chooseLocation!prepare.action

Farmland Protection

Based on review of published literature and sources, the Project Area is zoned for Residential, Commercial and Manufacturing.

Source documentation: New Jersey Parcel Maps City of Camden Zoning Map, Division of Planning, 9/30/77.

Sole Source Aquifers

Based on review of published literature and sources, the City of Camden does not have a sole source aquifer designated by the U.S. EPA.

Source documentation: United States Department of Environmental Protection Web Page http://www.epa.gov/region02/water/aquifer/

Environmental Justice

Based on review of published literature and sources, there are currently five Petitioned Environmental Justice Areas in the State of New Jersey. Of these five there is one in Camden designated as Camden Waterfront South. The Project Area is not situated within or overlap the Camden Waterfront South area.

Source documentation: New Jersey Department of Environmental Protection Web Page. http://www.state.nj.us/dep/ej/pupdate.html

Flood Insurance

Based on review of published literature and sources, the Westernmost and Northwestern sections, mainly west of South 4th Street of the Project Area contain floodplains. This floodplain is designated as Zone AE which is defined as an area inundated by 100-year flooding, for which Base Flood Elevation (BFE) has been determined. The BFE for this Flood Zone is 9 feet (**Figure 3**).

Source documentation: GIS data set entitled "National Flood Hazard Layer", published by FEMA, 7/22/2010. The Project Area appears on FIRM Panel Nos. 17, 28 and 36 of 305 for Camden County, New Jersey (all jurisdictions).

CONCLUSIONS

Based on the findings of the Tier 1 Target Area Assessment the determination is made that there are environmental factors that need to be taken into account when Site Specific Projects are identified through a Tier 2: Sited Specific Project Review.

Coastal Zone Management

The Project Area is not located within a Coastal Zone Management Area, therefore, no further assessment/investigation/mitigation is required.

Floodplain Management

The Westernmost and Northwestern sections, mainly west of South 4th Street of the Project Area contain Zone AE floodplains. Once Site Specific Projects are identified in this area, a further review of the nature of the project relative to the floodplain should be assessed/investigated to determine appropriate mitigation measures. Further evaluation should also be made in accordance with 24 CFR Part 55.

Historic Preservation

Compliance with Section 106 and NEPA will initially require determination of the Project Area's: Area of Potential Effect (APE); identification of potential National Register-eligible properties that might be affected by the proposed redevelopment; and consultation with various interested parties. Initial SHPO consultation, in this case, will require a Phase IA cultural resource investigation. A Phase IA study is essentially equivalent to the specified requirements for Tier II applications.

Noise Abatement

There are no railroads within 3,000 feet; no civil airports within 5 miles; no military airfields within 15 miles; and no major highways within 1,000 feet of the Project Area. There are three busy roads within 1,000 feet of the Project Area: these roads serving the project area are arterial roadways—Broadway, Federal Street and Newton Avenue (Figure 5).

Once Site Specific Projects are identified in the Project Area, specifically in the areas of the Major Roadways, the determination should be made as to the applicability of a Noise Assessment in accordance with 24 CFR 51, Subpart B. Further review consisting of additional assessment/investigation, via a noise study, if necessary, will determine the need for mitigation measures.

Hazardous Operations

The findings of this Tier I Assessment has indicated the presence of Hazardous Industrial Operations. Once Site Specific Projects are identified in this area, a further review of the nature of the project relative to the Hazardous Industrial Operations should be assessed/investigated to determine appropriate mitigation measures, if necessary. Further evaluation should also be made in accordance with 24 CFR Part 51, Subpart C

Airport Hazards

There are no FAA-designated civil airports within 3,000 feet of the Project Area and no military airfields within 2-1/2 miles of the Project Area. Therefore, no further assessment/investigation/mitigation is required.

Wetland Protection

The Project Area does not contain wetlands, therefore, no further assessment/investigation/mitigation is required.

Toxic Chemicals & Radioactive Materials

The findings of this Tier I Assessment has indicated the presence of potential Toxic Chemicals within the Project Area. Once Site Specific Projects are identified in this area, a further review of the nature of the project relative to the Toxic Chemicals should be assessed/investigated to determine appropriate mitigation measures, if necessary. As previously stated, there are no Radiologically impacted sites in or adjacent to the Project Area.

Endangered Species

Although this project does propose new construction, according to the United States Department of Interior website there are no Threatened or Endangered Species or Critical Habitats in the Project Area. Therefore, no further assessment/investigation/mitigation is required.

Farmland Protection

The Project Area is zoned for Residential, Commercial and Manufacturing. Therefore, no further assessment/investigation/mitigation is required.

Sole Source Aquifers

The City of Camden does not have a sole source aquifer designated by the U.S. EPA. Therefore, no further assessment/investigation/mitigation is required.

Environmental Justice

The Project Area is not within an Environmental Justice Area, therefore, no further assessment/investigation/mitigation is required.

Flood Insurance

The Westernmost and Northwestern sections, mainly west of South 4th Street of the Project Area contain Zone AE floodplains. Once Site Specific Projects are identified in this area, a further review of the nature of the project relative to the floodplain should be assessed/investigated to determine appropriate mitigation measures. Further evaluation should also be made in accordance with 24 CFR Part 55.

FUTURE ACTIVITIES

Based upon the findings of this Tier I: Area Wide Review there are items which require further review. The Preparer's opinion is that a Tier II: Sites Specific Project Review be conducted as particular projects are developed within the Project Area. This Tier II process should be conducted in accordance with the Environmental Review Guide for Private NonProfit Recipients of NSP2 Grants – 24 CFR Part 50 and the Environmental Assessment Guide for Housing Projects 1390.2. Based on the findings of this Tier I Review, the following items need to be further evaluated in the Tier II process:

- Floodplain Management;
- Historic Preservation;
- Noise Abatement;
- Hazardous Operations;
- Toxic Chemicals & Radioactive; and
- Flood Insurance

Preparer Name (Signature) and Title	Date
Director of Housing, Camden Redevelopment Agency (Signature)	Date

Environmental Assessment and Compliance Findings for the Related Laws

U.S. Department of Housing and Urban Development

1. Project Number	
HUD Program	
2. Date Received	

RMS: HI-00487R

Findings and Recommendations are to be prepared **after** the environmental analysis is completed. Complete items 1 through 15 as appropriate for all projects. For projects requiring an environmental assessment, also complete Parts A and B. For projects categorically excluded under 24 CFR 50.20, complete Part A. Attach notes and source documentation that support the findings.

complete Part A. Attach notes and source doct	imentation that support	the findings.		
3. Project Name and Location (Street, City, County, State Census Tract 6003 Lanning Square Neighborhood Camden, New Jersey 08103	,	4. Applicant Name and Address (Street, City, State, Zip Code), and Phone Camden Redevelopment Agency Camden City Hall 520 Market Street, Suite 1300 PO Box 95120 Camden, New Jersey 08101-5120		
5. Multifamily Elderly Other 6.	Number of	7. Displacement V No Yes		
If Other, explain.	Dwelling U	-		
Planning Process	Stories	Acres		
8. New Construction Rehabilitation	✓ Other	10. Planning Findings. Is the project in compliance or conformance with the following plans?		
(if Other, explain) Planning Process		Local Zoning		
9. Has an environmental report (Federal, State, or local) been used in completing this form? If Yes, identify:		Coastal Zone Yes No Not Applicable Air Quality (SIP) Yes No Not Applicable Explain any "No" answer:		
11. Environmental Finding (check one) ✓ Categorical exclusion is made in accorda Environmental Assessment and a Findin Impact (FONSI) is made in accordance of the control of the cont	ng of No Significant with § 50.33 or	Are there any unresolved conflicts concerning the use of the site? No Ves (explain): See Attached Report		
Impact is made, and an Environmental li required in accordance with §§ 50.33(d) a	mpact Statement is			
12. Preparer (signature)	Date	13. Supervisor (signature) Date		
14. Comments by Environmental Clearance Officer (EC (required for projects over 200 lots/units)	0)			
ECO (signature)		Date		
,		Date		
X				
15. Comments (if any) by HUD Approving Official				
HUD Approving Official (signature)		Date		
X				

§ 50.4 Laws and Authorities	Project is in Compliance Yes No		Source Documentation and Requirements for Approval			
16. Coastal Barrier Resources	✓		See Attached Report for Sourcing Information.			
17. Floodplain Management (24 CFR Part 55)		✓	See Attached Report for Sourcing Information.			
18. Historic Preservation (36 CFR Part 800)		✓	See Attached Report for Sourcing Information.			
19. Noise Abatement (24 CFR Part 51 Subpart B)		✓	See Attached Report for Sourcing Information.			
20. Hazardous Operations (24 CFR Part 51 Subpart C)		✓	See Attached Report for Sourcing Information.			
21. Airport Hazards (24 CFR Part 51 Subpart D)	✓		See Attached Report for Sourcing Information.			
22. Protection of Wetlands (E. O. 11990)	✓		See Attached Report for Sourcing Information.			
23. Toxic Chemicals & Radioactive Materials(§ 50.3(i))		✓	See Attached Report for Sourcing Information.			
24. Other § 50.4 authorities (e.g., endangered species, sole source aquifers, farmlands protection, flood, insurance, environmental justice)		✓	See Attached Report for Sourcing Information.			

Part B. Environmental/Program Factors

Factors	Impac	nticipat Defici Minor	ed iencies Major	Source Documentation and Requirements for Approval
25 Unique Natural Features and Areas				
26. Site Suitability, Access, and Compatibility with Surrounding Development				
27. Soil Stability, Erosion, and Drainage				
28. Nuisances and Hazards (natural and built)				
29. Water Supply / Sanitary Sewers				
30. Solid Waste Disposal				
31. Schools, Parks, Recreation, and Social Services				
32. Emergency Health Care, Fire and Police Services				
33. Commercial / Retail and Transportation				
34. Other				

Environmental Assessment and Compliance Findings for the Related Laws HUD Form 4128 Source Documentation Lanning Square Neighborhood

16. Coastal Barrier Resources:

GIS data set entitled "CBRS_Polygons", published by U.S. Fish and Wildlife Service, 4/1/2010.

17. Floodplain Management:

GIS data set entitled "National Flood Hazard Layer", published by FEMA, 7/22/2010. The Project Area appears on FIRM Panel Nos. 17, 28 and 36 of 305 for Camden County, New Jersey (all jurisdictions).

18. Historic Preservation:

GIS data sets entitled "NJDEP Historic Districts of New Jersey, Edition 2010" and "NJDEP Historic Properties of New Jersey, Edition 2010", published by New Jersey Department of Environmental Protection (NJDEP), Natural and Historic Resources (NHR), Historic Preservation Office (HPO), 10/6/2010.

Google Earth file downloaded from the National Register of Historic Places website: http://nrhp.focus.nps.gov/natreg/docs/Spatial_Data.html, on 11/26/2010. The data was last updated on 8/13/2010.

File Research and review at State Historic Preservation Office.

File Research and review at New Jersey State Museum.

19. Noise Abatement:

Street data was taken from GIS data set entitled "NJ_Roadway_Network_Flipped", published by New Jersey Department of Transportation (NJDOT), Bureau of Transportation Data Development (BTDD), 7/01/2010.

Airport locations were taken from GIS data set entitled "StreetMap USA", published by ESRI, 2007.

20. Hazardous Operations:

Observations noted during field visit, November, 2010.

21. Airport Hazards:

Airport locations were taken from GIS data set entitled "StreetMap USA", published by ESRI, 2007.

22. Protection of Wetlands:

New Jersey State wetlands were derived from GIS data set entitled "2007 Land use/Land Cover Update", published by New Jersey Department of Environmental Protection (NJDEP), May 2010.

National Wetlands Inventory areas were taken from the "Wetlands Data - Continental US" layer, using a Web Map Service (WMS) inside the ESRI ArcGIS ArcMap environment. Data was published by U.S. Fish and Wildlife Service, 1/22/2010. Link to the WMS is at: http://www.fws.gov/wetlands/Data/WebMapServices.html

23. Toxic Chemicals and Radioactive Materials:

Superfund Sites were taken from the "Superfund_Sites – NPL_FS" layer, using a Web Map Service (WMS) published by the U.S. EPA. The data in the WMS is entitled "National Priority List (NPL) Sites (Public Version), 2006". Link and more information on this WMS is at: http://www.epa.gov/geospatial/help.htm.

Underground Storage Tank Locations were derived by running a query on the New Jersey Department of Environmental Protection (NJDEP) Data Miner's Active Facilities with Compliant Tank Report. The report was queried on 11/26/2010. The address to the Data Miner report is:

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/categories?category=Underground+Storage+Tanks. Locations were then geocoded into a map using ESRI ArcGIS ArcMap program.

Landfill locations were researched using the NJDEP Solid & Hazardous Waste website at: http://www.state.nj.us/dep/dshw/lrm/landfill.htm, accessed on 11/26/2010.

NPL Radiation Sites were researched using USEPA Web Page. http://www.epa.gov/radiation/cleanup/usa.html#nj

Contaminated or potentially contaminated sites were identified on the NJDEP Web Page I-Map. http://njgin.state.nj.us/dep/DEP_iMapNJDEP/viewer.htm

24. Other § 50.4 authorities

Endangered Species

Source documentation: United States Department of Interior Critical Habitats Web Page http://crithab.fws.gov/

United States Department of Interior Endangered Species Web Page http://ecos.fws.gov/ipac/wizard/chooseLocation!prepare.action

Farmland Protection

Source documentation: New Jersey Parcel Maps City of Camden Zoning Map, Division of Planning, 9/30/77.

Sole Source Aquifers

Source documentation: United States Department of Environmental Protection Web Page http://www.epa.gov/region02/water/aquifer/

Environmental Justice

Source documentation: New Jersey Department of Environmental Protection Web Page. http://www.state.nj.us/dep/ej/pupdate.html

Flood Insurance

Source documentation: GIS data set entitled "National Flood Hazard Layer", published by FEMA, 7/22/2010. The Project Area appears on FIRM Panel Nos. 17, 28 and 36 of 305 for Camden County, New Jersey (all jurisdictions).

DRAFT TABLE 1

LANNING SQUARE NEIGHBORHOOD ERR - HISTORIC RESOURCES PREVIOUSLY RECORDED HISTORIC PROPERTIES ON FILE AT NJDEP-HPO (Camden Quadrangle)

Resource No.	Description	Status	Distance from A.P.E.
87	Broadway Methodist Episcopal Church	SHPO opinion 7/6/05	Within A.P.E.
37	George Whitman House*	SR NR 10/11/90	Within A.P.E.
10	Walt Whitman House	NR 1978 National historic Landmark	Within A.P.E.
11	Walt Whitman Neighborhood	SR NR 1978	Within A.P.E.
	305-307 Benson Street	Pending**	Within A.P.E.
44	Camden Free Public Library Main Building	SR NR 1992	Adjacent (east of) A.P.E.
69	South Jersey Gas, Electric, and Traction Co. Office Building***	SR SHPO Opinion 12/5/97	Adjacent to (north of) A.P.E.
35f	Inter-County Mortgage and Finance Co.	SR NR 1990	Adjacent to (north of) A.P.E.
35g	Central Trust Company	SR NR 2004	Adjacent to (north of) A.P.E.
35h	Camden Fire Insurance Association	SR NR 1990	Adjacent to (north of) A.P.E.
70	Former U.S. Post Office	SHPO opinion 12/5/97	Adjacent to (north of) A.P.E.
67	Cooper Plaza Historic District Extension****	SHPO opinion 11/97	<1/4 mile east
21	Two Subway Station Buildings	SHPO opinion 2/4/81; DOE 5/6/83	<1/4 mile northeast
35 a	National State Bank	SR/NR	<1/2 mile north
35b	Marcoast Building	SR/NR	<1/2 mile north
35c	New Jersey Safe Deposit and Trust Co.	SR/NR	<1/2 mile north
35d	A. S. Woodruff Law Co.	SR/NR	<1/2 mile north
35e	Smith Austermuhl Insurance Co.	SR/NR	<1/2 mile north
35j	Charles S. Boyer Building	SR/NR	<1/2 mile north
35k	Finance Building	SR/NR	<1/2 mile north
351	First Camden National Bank	SR/NR	<1/2 mile north
35m	Wilson Building	SR/NR	<1/2 mile north
35n	Camden Safe Deposit and Trust Co.	SR/NR	<1/2 mile north
31	Cooper Grant Historic District	SR/NR	ca. 1/2 mile north
61	State Street Historic District	SHPO opinion 6/20/93, 5/9/95	1 mile north
99	State Street Bridge		1 mile northeast
83	Cathedral of the Immaculate Conception	SR/NR	<1/4 mile northeast
97	800-840 Cooper Street	SHPO opinion 3/26/08	<1/2 mile northeast
76	295-306 William Stanley Ablett Village	SHPO opinion 6/26/98	<1 mile northeast
64	Cooper River Swing Span Railroad Bridge	SHPO opinion 10/08/97	<3/4 mile northeast
56	Pure Oil Company Service Station	SHPO opinion 6/15/91	1/2 mile northeast
80	Camden and Amboy Railroad Line	SHPO opinion 10/4/91	<1/4 mile northeast
71	New Jersey Battery and Armory	SHPO 10/4/91	<1/4 mile northeast
63	Kay-Evans Farm Complex	SR/NR	<1/2 mile east
96	Newton Avenue Garage	SHPO opinion, DOE	<1/2 mile southeast
86	Parkside Historic District	SHPO opinion 6/5/96	<3/4 mile southeast
84	Saint Joseph Polish Catholic Church	SR/NR	<1/2 mile southeast
35o	Victory Trust Company	SR/NR	<1/4 mile south
35p	Broadway Trust Company	SR/NR	<1/4 mile south
35q	American National Bank	SR/NR	<1/2 mile south
39	South Camden Historic District	SR/NR	<1 mile south
74	General Gas Mantle Corp. Building	SHPO opinion 9/16/98	1 mile south

NOTES:

^{*} Reportedly burned down in 1991 (http://commons.wikimedia.org/wiki/File:George_Whitman_House_Camden_NJ.JPG).

^{**} It is likely that NJDEP-HPO considers this resource eligible for National Register listing but has not yet issued an official opinion.

^{***} A note in the map margin appears to locate Prehistoric Sites 28-Ca-6, -22, -37, and -38 at this spot. This information appears to be contradicted by the State Museum's files, which do not show those sites in this location.

^{****} This label is incorrectly applied to a structure within the A.P.E. on the NJDEP-HPO resource map, which does not depict the location of the Cooper Plaza Historic District itself. The Cooper Plaza Historic District is located immediately east of the study area.

DRAFT TABLE 2

LANNING SQUARE NEIGHBORHOOD ERR - HISTORIC RESOURCES PREVIOUSLY RECORDED HISTORIC PROPERTIES ON FILE AT NJDEP-HPO (Philadelphia Quadrangle)

Resource No.	Description	Status	Distance from A.P.E.
13	Ben Franklin Bridge	SHPO opinion 3/25/85; DOE 3/29/83	<1 mile northwest
4	Cooper Grant Historic District	SR/NR	<3/4 mile northwest
2	Walt Whitman Poetry	SR/NR	<3/4 mile northwest
12	RCA Building 8	SHPO opinion 3/21/06	<3/4 mile northwest
7	Building 17 RCA Victor Co.	SHPO opinion 8/22/97	<3/4 mile west
	Camden Plant	SR/NR	
3	Edward Shapp House	SR/NR	<3/4 mile west
8	RCA Victor Office	SHPO opinion 11/7/97	<3/4 mile southwest
11	Macedonia AME church	COE 4/20/94	<1 mile west
5	Volney Bennett Lumber Co.	SR/NR	1 mile southwest

DRAFT TABLE 3

LANNING SQUARE NEIGHBORHOOD ERR - HISTORIC RESOURCES PREVIOUSLY RECORDED HISTORIC PROPERTIES ON FILE AT NJDEP-HPO (Philadelphia Quadrangle)

Site Number	Site Name	Description	SR/NR Status	Distance from
				A.P.E.
28-Ca-103	Camden County Courthouse Site	Prehistoric lithic scatter with 19th-	Unknown	½ mile north-
		century artifacts		northwest





Study Area

AERIAL MAP

Tier 1 Target Assessment City of Camden, Camden County, New Jersey



 Drawn By: EB
 Scale: 1" = 500'
 Project No. 04323.001.010

 Chk'd By: JMP
 Date: 11/24/2010
 Figure No. 1





Study Area

COASTAL BARRIER RESOURCES MAP

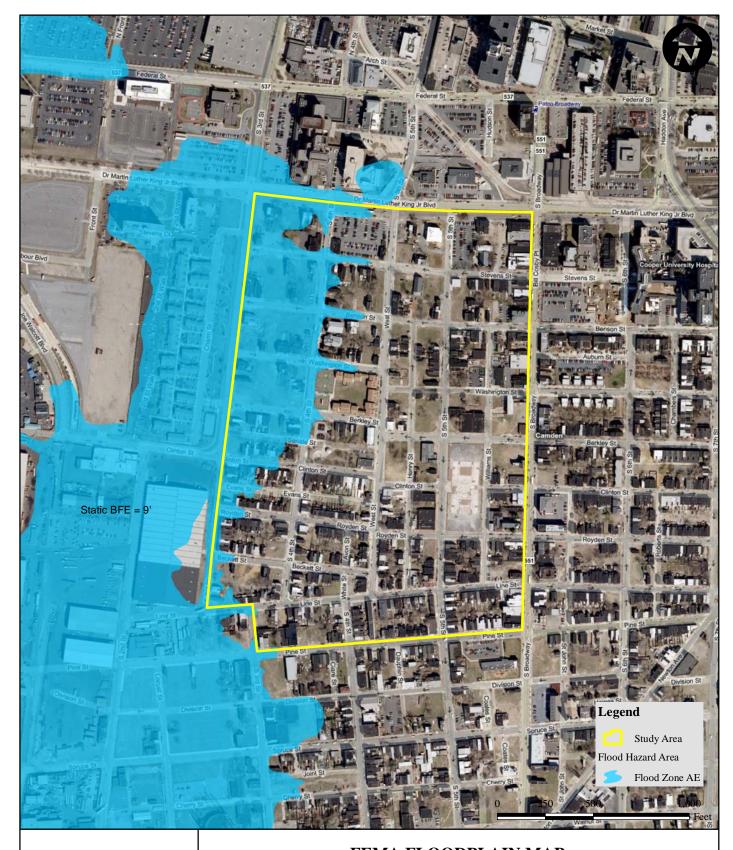
Tier 1 Target Assessment City of Camden, Camden County, New Jersey



Note: There are no Coastal Barrier Resources within map view.

U.S. Fish and Wildlife Service, 2010. ArcGIS Online - Bing Maps Hybrid, 2010.

Project No. 04323.001.010 Drawn By: EB Scale: 1" = 500' Chk'd By: JMP Date: 11/24/2010 Figure No. 2



FEMA FLOODPLAIN MAP

Tier 1 Target Assessment City of Camden, Camden County, New Jersey

Note:
Zone AE = An area inundated by 100-year flooding, for which BFEs have been determined.
BFE = Base Flood Elevation (ft).
Vertical Datum - NAVD88. Flood Hazard Areas shown within map view are approximate and may not reflect flood hazard elevations/limits pursuant to NJDEP NJAC 7:13-3.1.

National Flood Hazard Layer, FEMA, 2010. ArcGIS Online - Bing Maps Hybrid, 2010.

Drawn By: EB Scale: 1" = 500' Project No. 04323.001.010 Chk'd By: JMP Date: 11/24/2010 Figure No. 3

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult he Flood Profiles and Floodway Data and/or Summay of Sillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Silliwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations tables in the Summary of Silliwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this

The projection used in the preparation of this map was New Jersey State Plane FIPSZONE 2900. The horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information reparticular conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9221 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for benct marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website a http://www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the State of New Jersey Office of Information Technology. This information was derived from digital orthophotos produced at a scale of 1:2400 with a 1-foot pixel resolution from photography dated April 2002.

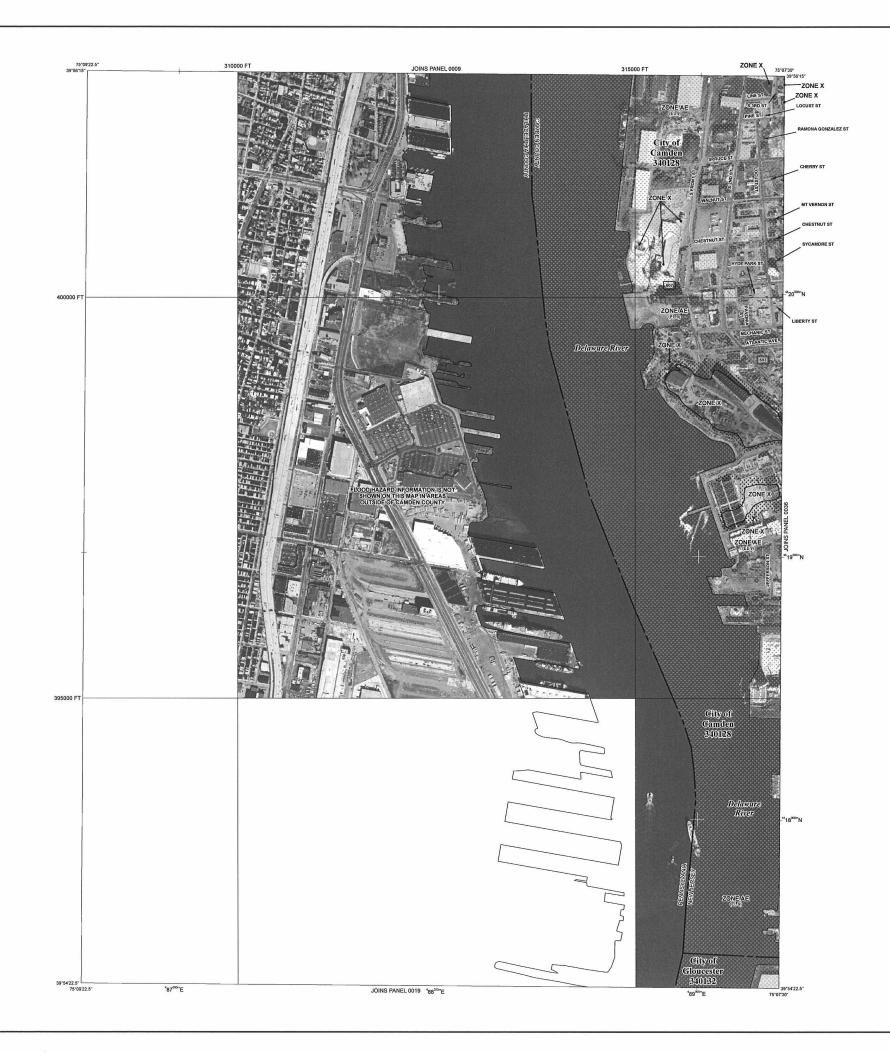
Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. Also, the road to floodplain relationships for evised streams may differ from what is shown on previous maps

Corporate limits shown on this map are based on the best data available at the Corporate limits shown on this map are based on the best data available at it time of publication. Because changes due to annexations or de-annexations ma have occurred after this map was published, map users should contact appropriat community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-338-9503 and its website at https://mxc.tena.gov.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD 100000

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard Include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Bevetion is the water-surface elevation of the 1% annual chance flood.

No Base Flood Elevations determined

ZONE AE Rase Flood Flevations determined

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. ZONE AH

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined. ZONE AO

Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood. ZONE AR

Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined. ZONE A99

Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined

11// FLOODWAY AREAS IN ZONE AE

channel of a stream plus any adjacent floodplain areas that must be kept free that the 1% annual chance flood can be carried without substantial increases

ZONE X

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

ZONE X OTHER AREAS

Areas determined to be outside the 0.2% annual chance floodolain

Areas in which flood hazards are undetermined, but possible. COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

rmally located within or adjacent to Special Flo 1% annual chance floodplain boundary

0.2% annual chance floodplain boundary

Zone D boundary

CBRS and OPA boundary

Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet* (EL 987)

erican Vertical Datum of 1988

(A)

Transect line

87°07'45", 32°22'30"

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisohere

2476000*N 1000-meter Universal Transverse Mercator grid values, zone 600000 FT

5000-foot grid ticks: New Jersey State Plane coordinate system (FIPSZONE 2900), Transverse Mercator projection Bench mark (see explanation in Notes to Users section of this

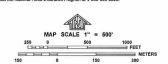
DX5510 x ● M1.5 River Mile

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP September 28, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



PANEL 0017E FIRM FLOOD INSURANCE RATE MAP CAMDEN COUNTY. NEW JERSEY PANEL 17 OF 305 (SEE MAP INDEX FOR FIRM PANEL LAYOUT) CONTAINS COMMUNITY NUMBER PANEL SUFFIX CAMDEN, CITY OF 340128 0017 E GLOUCESTER, CITY OF 340132 0017 E Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the united community. MAP NUMBER 34007C0017E **EFFECTIVE DATE**

SEPTEMBER 28, 2007

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summany of Sillwater Elevations tables contained within the Flood insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-flood elevations. These RFEs are intended the Glood insurance. uns rink. Users shown on aware that thes shown on the HKM represent rounded whole-foot elevations. These BFEs are intended for food insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain amagement.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 8B). Users of this FIRM should be sware that coastal flood elevations are also provided in the Summary of Sillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Sillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this

The projection used in the preparation of this map was New Jersey State Plane FIPSZONE 2900. The horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at https://www.nas.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the State of New Jersey Office of Information Technology. This information was derived from digital orthophotos produced at a scale of 1:2400 with a 1-foot pixel resolution from photography dated April 2002.

Based on updated lopographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous Filmf for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritaive hydraulic dash) may reflect stream channel distances that differ from what is shown on this map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each

available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at https://msc.fema.gov.

If you have **questions about this map** or questions concerning the National Floor Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% armuel chance flood. Area of Special Flood Hazard rules are subject to flooding by the 1% armuel chance flood. Area of Special Flood Hazard rules Cances. A, E, AH, AO, RA, R99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% armuel chance floor.

ZONE A

275

ZONE A99

ZONE D

ZONE AE

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. ZONE AH

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined. ZONE AO

Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently describled. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood. ZONE AR

Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations

Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined

1// FLOODWAY AREAS IN ZONE AE

e channel of a stream plus any adjacent floodplain areas that must be kept free o that the 1% annual chance flood can be carried without substantial increases

ZONE X

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

ZONE X OTHER AREAS

Areas determined to be outside the 0.2% annual chance floodola Areas in which flood hazards are undetermined, but possible

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

mally located within or adjacent to Special Flo

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

Zone D boundary

CBRS and OPA boundary

Base Flood Elevation line and value; elevation in feet

Base Flood Elevation value where uniform within zone; elevatin feet* (EL 987)

erican Vertical Datum of 1988

Transect line

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere 87°07'45", 32°22'30"

1000-meter Universal Transverse Mercator grid values, zone

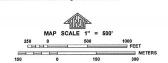
600000 FT

Bench mark (see explanation in Notes to Users section of this FIRM manel) ● M1.5 River Mile

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP September 28, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction. To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-900-638-6620.





PANEL 0028E

FLOOD INSURANCE RATE MAP

CAMDEN COUNTY,

NEW JERSEY

PANEL 28 OF 305

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

NUMBER PANEL SUFFIX CAMDEN, CITY OF 340128 0028 E PENNSAUKEN, TOWNSHIP OF 340142 0028 E

Notice to User: The Map Number shown below should be used when placing map orders; the Community Numbe shown above should be used on insurance applications for the



MAP NUMBER 34007C0028E

EFFECTIVE DATE SEPTEMBER 28, 2007

Federal Emergency Management Agency

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summany of Stithwart Elevations tables contained within the Flood insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or flooddein management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Sitilwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Sitilwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than he elevations shown on this FIRM

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance State of the Program of

FIPSZONE 2900. The horizontal datum was NAU 83, GKS90 spheroto. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.nosa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the State of New Jarsey Office of Information Technology. This information was derived from digital orthophotos produced at a scale of 1:2400 with a 1-foot pixel resolution from photography dated April 2002.

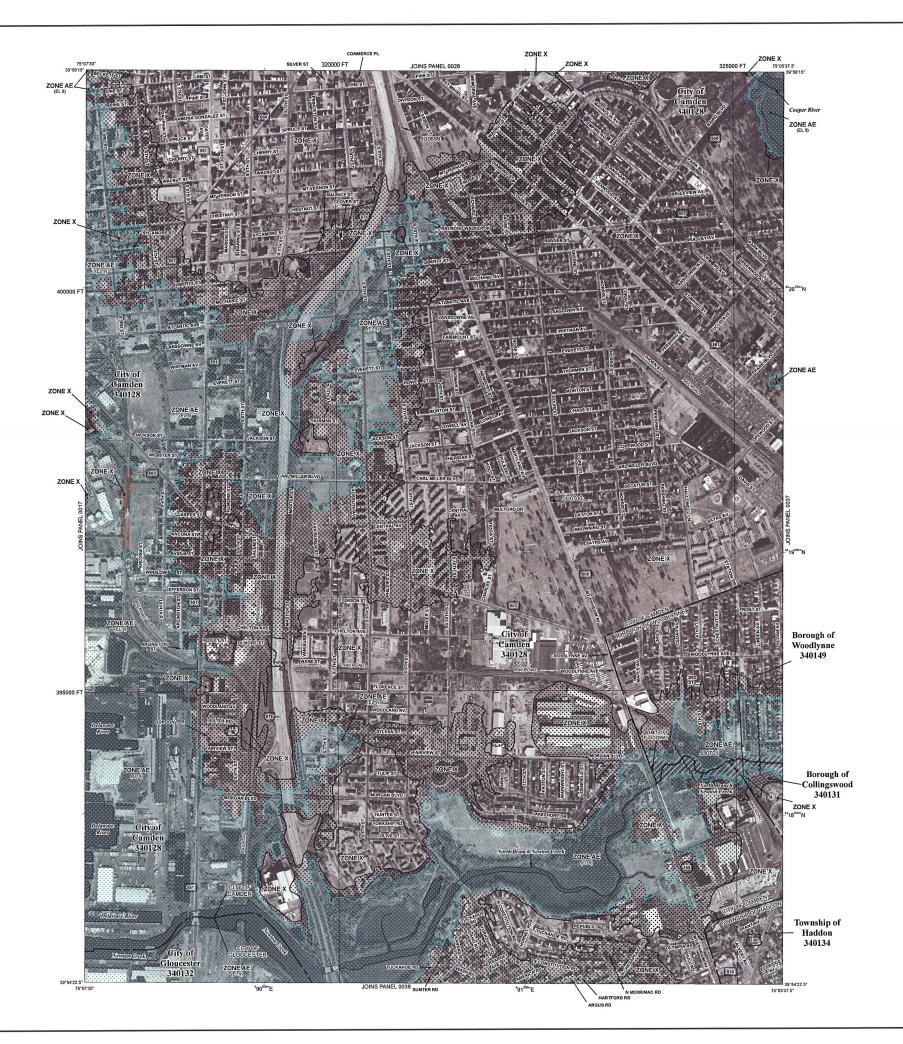
Based on updated topographic information, this map reflects more detailed and up-to-date stream channel configurations and floodplain delineations than those shown on the previous FirM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood insurance Study Report (which contains authoritate hydraulic data) may reflect stream channel distances that differ from what is shown on this map. Also, the roads of hoodplain relationships for unrevised streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-803-38-9620 and fix weekled the Implementation of the Service Center of the

If you have questions about this map or questions concerning the National Floor Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% around chance flood. Areas of Special Flood Hazard Area is the Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE AE Base Flood Elevations determined.

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood ZONE AH

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined. ZONE AO

Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

ZONE X OTHER FLOOD AREAS

OTHER AREAS ZONE X Areas determined to be outside the 0.2% annual chance floo

Areas in which flood hazards are undetermined, but possible. COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

PAs are normally located within or adjacent to Special Flood Hazard Area

1% annual chance floodplain boundary

0.2% annual chance floodplain boundary

Zone D boundary

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

Base Flood Elevation line and value; elevation in feet* ~~~ 513 ~~~

Base Flood Elevation value where uniform within zone; elevation in feet* (EL 987)

* Referenced to the North American Vertical Datum of 1988

_ __ _

Cross section line

Transect line (3)-----(3)

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere

600000 FT

DX5510 ×

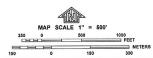
● M1.5

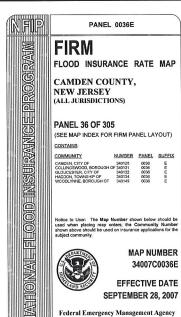
MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

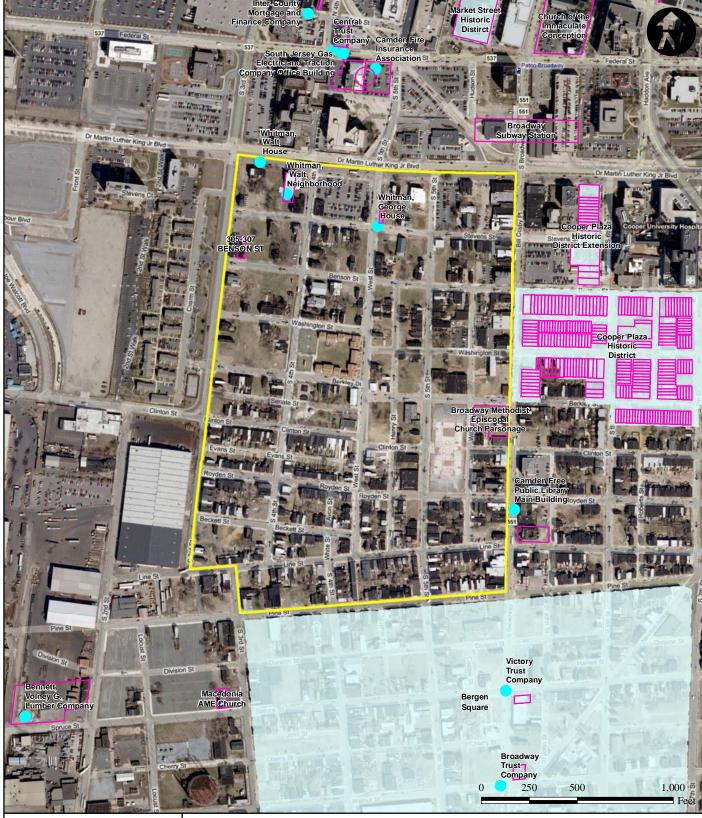
EFFECTIVE DATE OF COUNTYMDE FLOOD INSURANCE RATE MAP September 28, 2007 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.









Study Area



National Register of Historic Places Property



State Historic Property



State Historic District

Source:

U.S. Department of the Interior, National Park Service National Register of Historic Places, 2010. NJDEP Natural and Historic Resources (NHR), Historic Preservation Office (HPO), 2010. ArcGIS Online - Bing Maps Hybrid, 2010.

HISTORIC PRESERVATION MAP

Tier 1 Target Assessment City of Camden, Camden County, New Jersey



 Drawn By: EB
 Scale: 1" = 500'
 Project No. 04323.001.010

 Chk'd By: JMP
 Date: 11/26/2010
 Figure No. 4





Study Area



Major Roadway



Airport

NOISE ABATEMENT MAP

Tier 1 Target Assessment City of Camden, Camden County, New Jersey



Source: New Jersey Department of Transportation, 2010. ESRI StreetMap USA, 2007. ArcGIS Online - Bing Maps Hybrid, 2010.

Drawn By: EB Scale: 1" = 500' Project No. 04323.001.010 Chk'd By: JMP Figure No. 5 Date: 11/26/2010



Note

There are no aboveground storage tanks above 100 gallons the study area.

Source

No above-ground tanks were observed during field visit, November 2010.

Gas Station/Garage designation from NJ Parcel Map, 2010.

2010.
Industrial use designation from Camden County
MOD-IV Tax List Search Database, 2010, The State
of NJ Division of Taxation, the Local Property Tax
(LPT)/Technical Support Section, NJ Office of
Information Technology (NJOIT), Office of
Geographic Information Systems (OGIS), 2010.
ArcGIS Online - Bing Maps Hybrid, 2010.

HAZARDOUS OPERATIONS MAP

Tier 1 Target Assessment City of Camden, Camden County, New Jersey



Drawn By: EB	Scale: 1" = 500'	Project No. 04323.001.010
Chk'd By: JMP	Date: 11/26/2010	Figure No. 6





Study Area

AIRPORT HAZARDS MAP

Tier 1 Target Assessment City of Camden, Camden County, New Jersey

There are no FAA-regulated civilian airports within 2,500 feet nor are there military airfields within 2.8 miles of the project site.

ESRI StreetMap USA, 2007. ArcGIS Online - Bing Maps Hybrid, 2010.

Project No. 04323.001.010 Drawn By: EB Scale: 1" = 500' Chk'd By: JMP Date: 11/26/2010 Figure No. 7





Study Area

PROTECTION OF WETLANDS MAP

Tier 1 Target Assessment City of Camden, Camden County, New Jersey

There are no wetlands within the map view.

Source: NJDEP 2007 Land use/Land cover Update, 2009. U.S. Fish & Wildlife Service, National Wetlands Inventory, 2010. ArcGIS Online - Bing Maps Hybrid, 2010.

P §	38	5	15
integrating	design	&	engineering

Scale: 1" = 500' Project No. 04323.001.010 Drawn By: EB Chk'd By: JMP Date: 11/26/2010 Figure No. 8



Note: There are no sites listed on the Superfund National

Priorities List within the study area.

There are no landfills within 0.25 miles of the study

Source:
Superfund site information from EPA Geodata, 2010.
Landfill information from NJDEP Solid & Hazardous Waste website, 2010.
UST from NJDEP Data Miner, 2010.
NJDEP Regulated Sites from NJDEP Data Miner, 2010.
ArcGIS Online - Bing Maps Hybrid, 2010.

TOXIC CHEMICALS & RADIOACTIVE MATERIALS MAP

Tier 1 Target Assessment City of Camden, Camden County, New Jersey



Drawn By: EB	Scale: 1" = 500'	Project No. 04323.001.010
Chk'd By: JMP	Date: 11/26/2010	Figure No. 9