REBUILD
BY
DESIGN
▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE

HUDSON RIVER
Hoboken  Weehawken  Jersey City  |  New Jersey

CITIZEN ADVISORY GROUP – SCOPING/Criteria AND METRICS

OCTOBER 8, 2015
AGENDA

1. Housekeeping

2. Project Status
   • Scoping Meeting and Drop-In Recap
   • Scoping Document Status
   • Data Collection and Modeling

3. Overview of Concept Screening Criteria

4. Q&A and Comments
## HOUSEKEEPING

### CAG Communication Frameworks

<table>
<thead>
<tr>
<th>Planned</th>
<th>Actual</th>
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<tbody>
<tr>
<td>Sept 11</td>
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PROJECT STATUS

we are here

June 2015

Purpose & Need

Screening Criteria / Metrics

Concept Screening

Alternative Analysis

Draft EIS

Final EIS


NEPA PROCESS

Technical Environmental Studies

FEASIBILITY ASSESSMENT

PUBLIC INVOLVEMENT

NOI - Notice of Intent

ROD - Record of Decision

EIS - Environmental Impact Statement
SCOPING MEETING RECAP
SCOPING MEETING Recap

- Resist
- Delay
- Store
- Discharge
SCOPING MEETING RECAP
SCOPING DOCUMENT STATUS
DATA COLLECTION

Data Collection and Development of Baseline Conditions

**Basemap**
Mapping topographic elevations, environmental constraints, utilities, critical infrastructure, etc.

**Waterfront Inspection**
Determine the existing condition of the waterfront.

**Geotechnical**
Evaluation of soil conditions, groundwater variation, infiltration tests, etc.

**Modeling**
Integrated coastal and stormwater model to evaluate existing conditions and the effectiveness of various design solutions.
WATERFRONT INSPECTION
## GEOTECHNICAL

<table>
<thead>
<tr>
<th>Well No.</th>
<th>Approx. Ground El. (ft)</th>
<th>Depth to Groundwater (ft)</th>
<th>Approx. Groundwater El. (ft)</th>
<th>Locations</th>
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</thead>
<tbody>
<tr>
<td>GW-1</td>
<td>4.0</td>
<td>5.0</td>
<td>-1.0</td>
<td>NE corner of Observer Hwy and Harrison St</td>
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<tr>
<td>GW-3</td>
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<td>8.0</td>
<td>0.0</td>
<td>NW corner of Garden St and 4th St</td>
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<td>GW-4</td>
<td>6.0</td>
<td>5.25</td>
<td>0.75</td>
<td>Harrison St just south of 7th St</td>
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<td>GW-5</td>
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<td>6.75</td>
<td>1.25</td>
<td>SE corner of Harrison St and 8th St</td>
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<td>GW-6</td>
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<td>4.75</td>
<td>0.25</td>
<td>NE corner of Monroe St and 11th St</td>
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<tr>
<td>GW-8</td>
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<td>8.0</td>
<td>0.0</td>
<td>SE corner of Willow Ave and 13th St</td>
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<td>GW-9</td>
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<td>9.0</td>
<td>-2.0</td>
<td>NE corner of Grand St and 9th St</td>
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<td>GW-10</td>
<td>4.0</td>
<td>4.0</td>
<td>0.0</td>
<td>North end of DPW yard at Willow Ave and Newark St</td>
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SCREENING PROCESS

Data Collection
- Basemap
- Waterfront Inspection
- Geotechnical
- Modeling

Concept Screening Criteria

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<thead>
<tr>
<th>Concepts</th>
<th>Overall Comparison</th>
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<tr>
<td></td>
<td>Flood Risk Reduction</td>
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<tr>
<td></td>
<td>Coastal Storm Surge Structure (South/West)</td>
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<tr>
<td></td>
<td>Coastal Storm Surge Structure (North/East)</td>
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<tr>
<td></td>
<td>Stormwater Management</td>
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<td></td>
<td>Environmental Impact and Mitigation</td>
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<td>Utilities</td>
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<td>Economics</td>
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</tbody>
</table>

Concepts

Alternatives

Preferred Build Alternative
CONCEPT SCREENING

Concepts

Build Alternatives

Preferred Build Alternative

- Primarily Qualitative (Concept Screening)
- Quantitative (Alternatives Analysis)
CONCEPT SCREENING CRITERIA AND METRICS

Flood Risk Reduction
- Coastal Storm Surge
- Rainfall
- Public Health

Built Environment
- Waterfront Access
- Connectivity
- Potential Community Benefits

Construction, Maintenance & Operation
- Constructability
- Construction Duration

Environmental Impacts
- Historic Properties
- Hazardous Waste

Benefit/Cost Analysis
- Benefits
- Costs