

Clearview Landfill Community Update

Lower Darby Creek Area Superfund Site

for the

Eastwick Lower Darby Creek Area Community Advisory Group (ELDCA CAG)

September 30, 2020

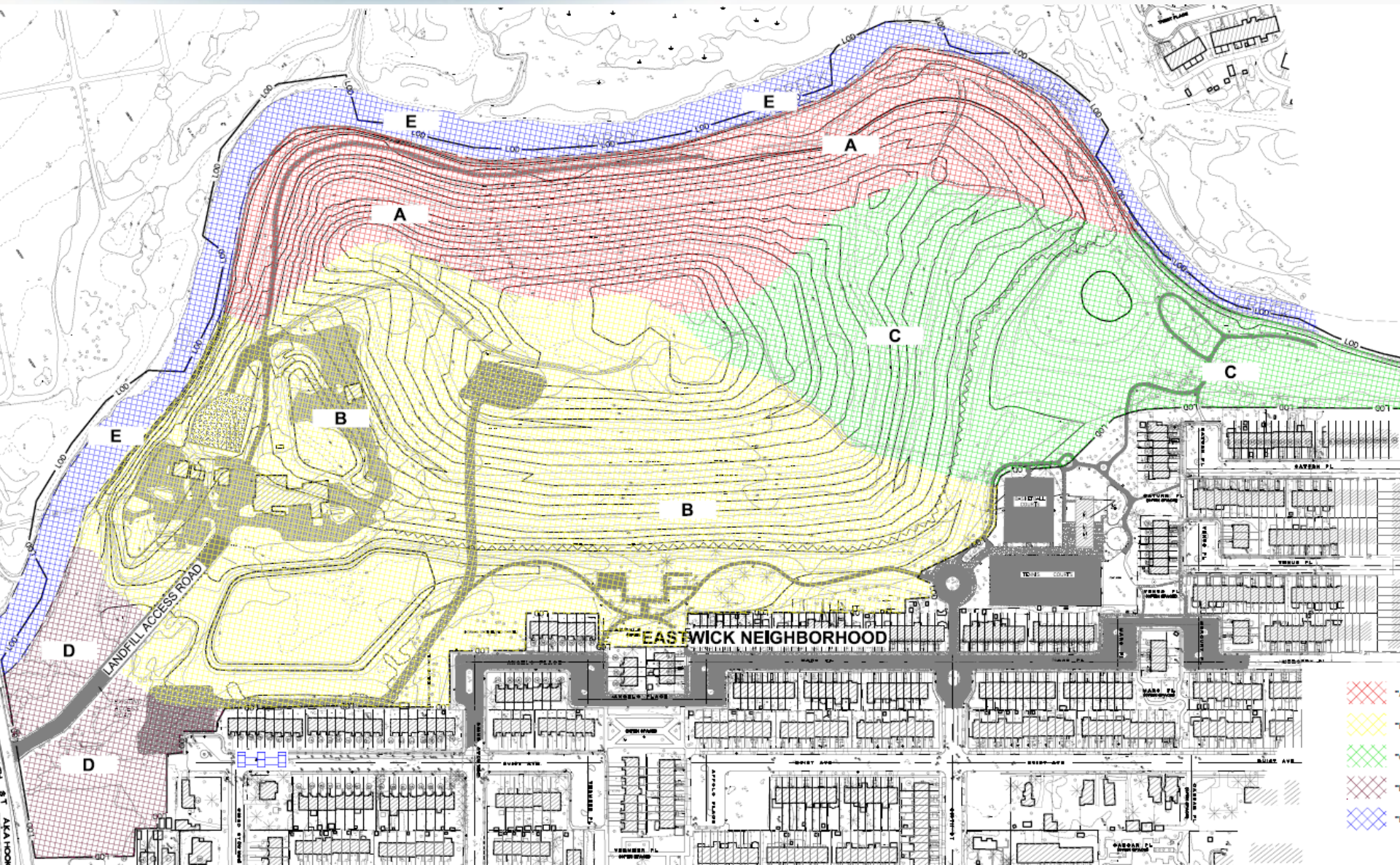
Josh Barber
EPA Remedial Project Manager



Clearview Landfill Cleanup

- Residential yard excavation and restoration
- Excavation of contaminated soil and waste from Eastwick Regional City Park and surrounding areas, placement on the landfill and “capped” with a forested Evapotranspiration (ET) Cover.
- Stabilize and reinforce streambanks to prevent erosion.
- Business relocation, leachate collection & treatment, long-term operation and maintenance

Landfill Cleanup Phases



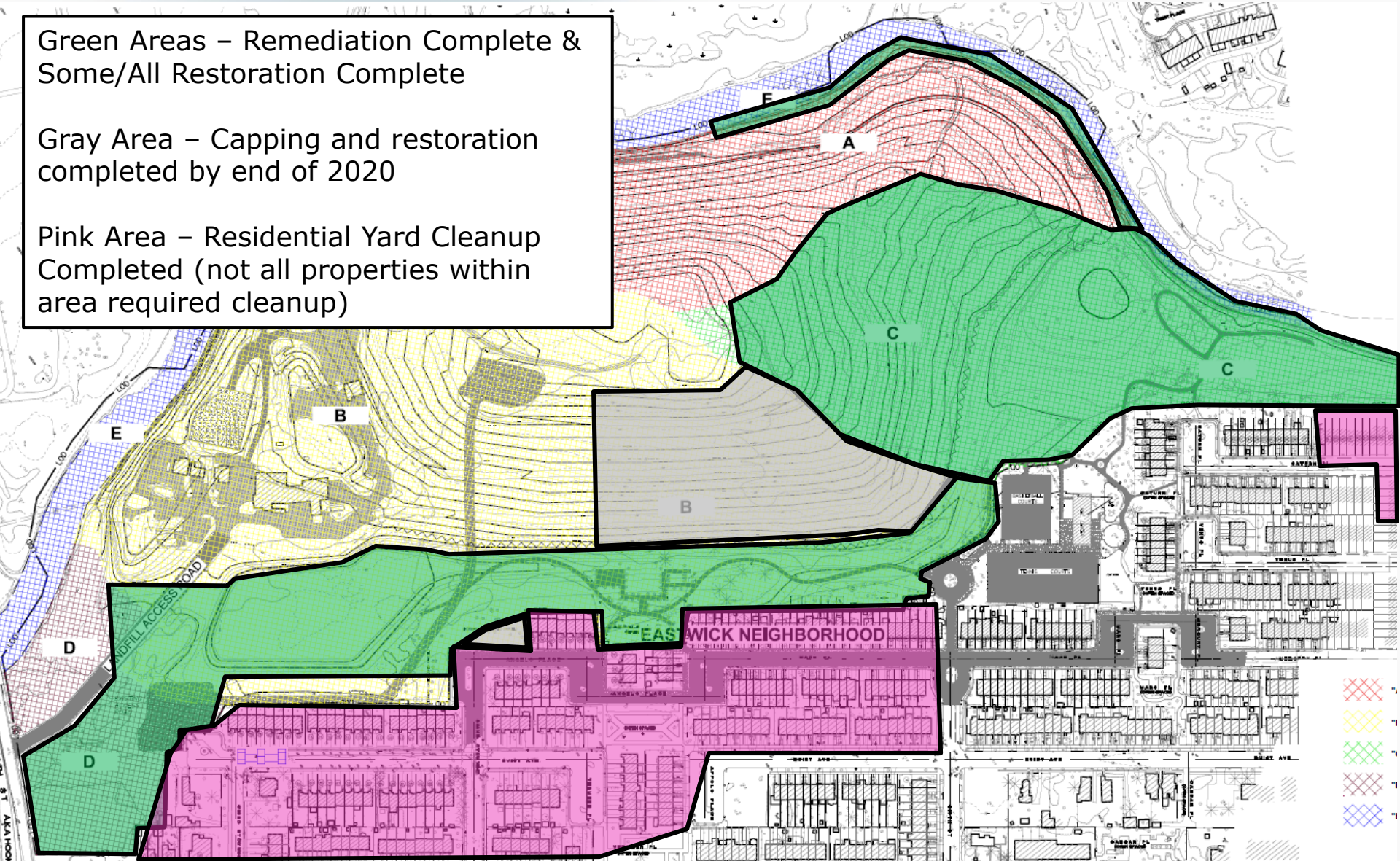
Landfill Cleanup Progress



Green Areas – Remediation Complete & Some/All Restoration Complete

Gray Area – Capping and restoration completed by end of 2020

Pink Area – Residential Yard Cleanup Completed (not all properties within area required cleanup)



Historic Wetland Filling At Clearview Landfill



1953



1965



Isaias Numbers



- Water at 84th St. Bridge peaked at 14.62 ft.
- Rainfall totals averaged around 6" over the Darby Creek watershed.
- 4.16" was reported at the Philadelphia Airport, but 7.57" was reported further inland at Ardmore.
- 25 to 50-yr storm
- However, the event appears to have combined excess rainfall with hurricane storm surge.
- Predicted tide elevation of 5.001 ft for 8/4/20 but an observed tide peak of 7.54 ft.

Water and Soil Testing



- EPA collected floodwater and creek water samples. Very few contaminants **of any kind** were detected at all.
- One Site contaminant, lead, was present at a maximum of 32 parts per billion (ppb). The EPA screening level for the type of exposures that can happen in a floodwater type situation is 150 ppb.
- A more extensive risk evaluation of the floodwater is being developed to make sure risks are sufficiently calculated.
- Eight residential properties were sampled after flooding to evaluate potential contamination from floodwaters. Results are expected in mid- to late-October 2020.

Isaias Flooding at Clearview

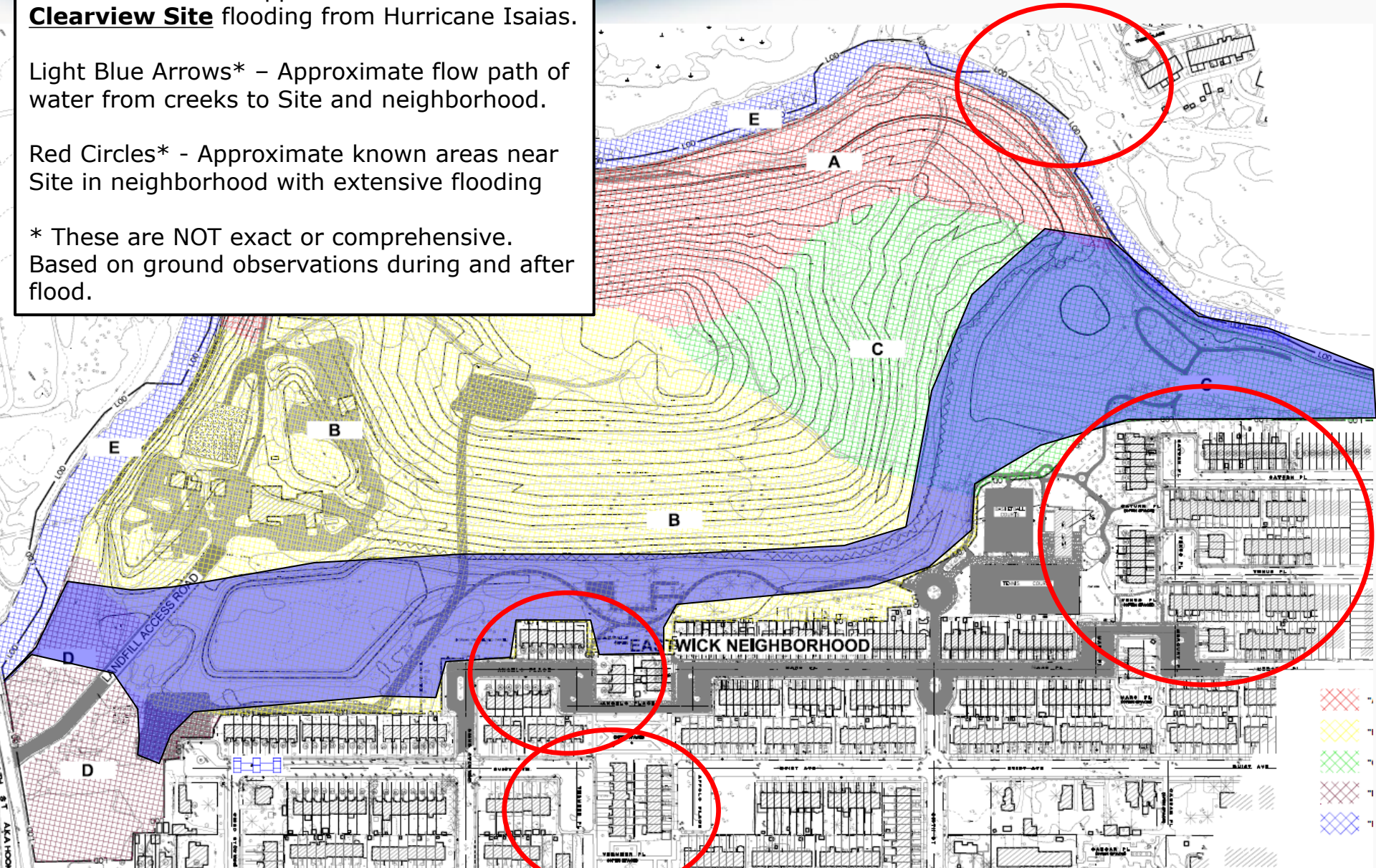


Dark Blue Area* – Approximate extent of **Clearview Site** flooding from Hurricane Isaias.

Light Blue Arrows* – Approximate flow path of water from creeks to Site and neighborhood.

Red Circles* - Approximate known areas near Site in neighborhood with extensive flooding

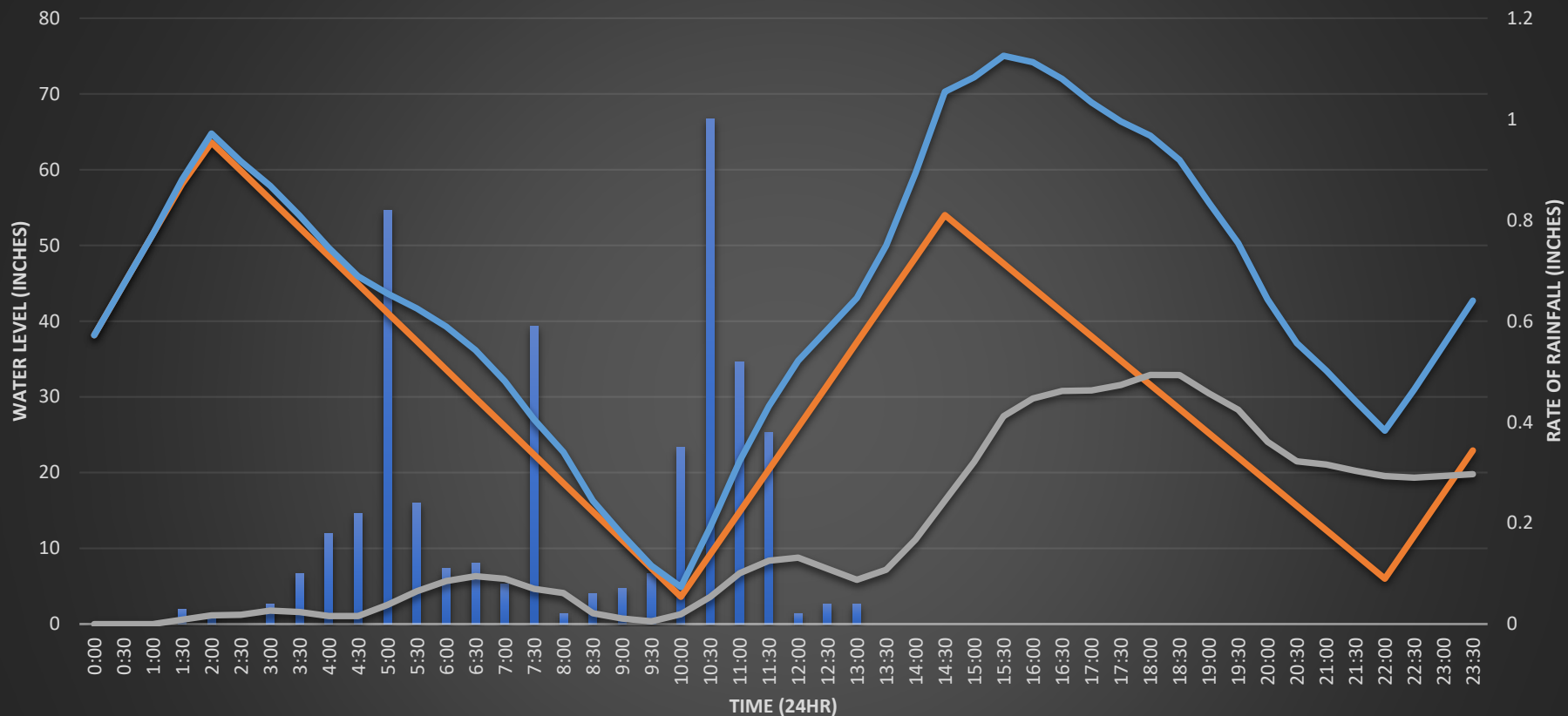
* These are NOT exact or comprehensive. Based on ground observations during and after flood.



Storm Surge & Precipitation



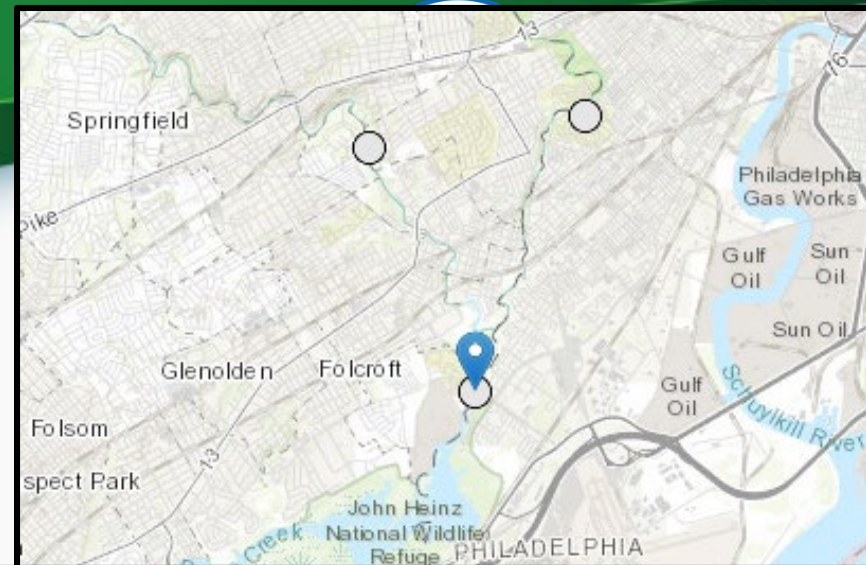
08/04/2020 - Isaias Impact at Clearview Landfill



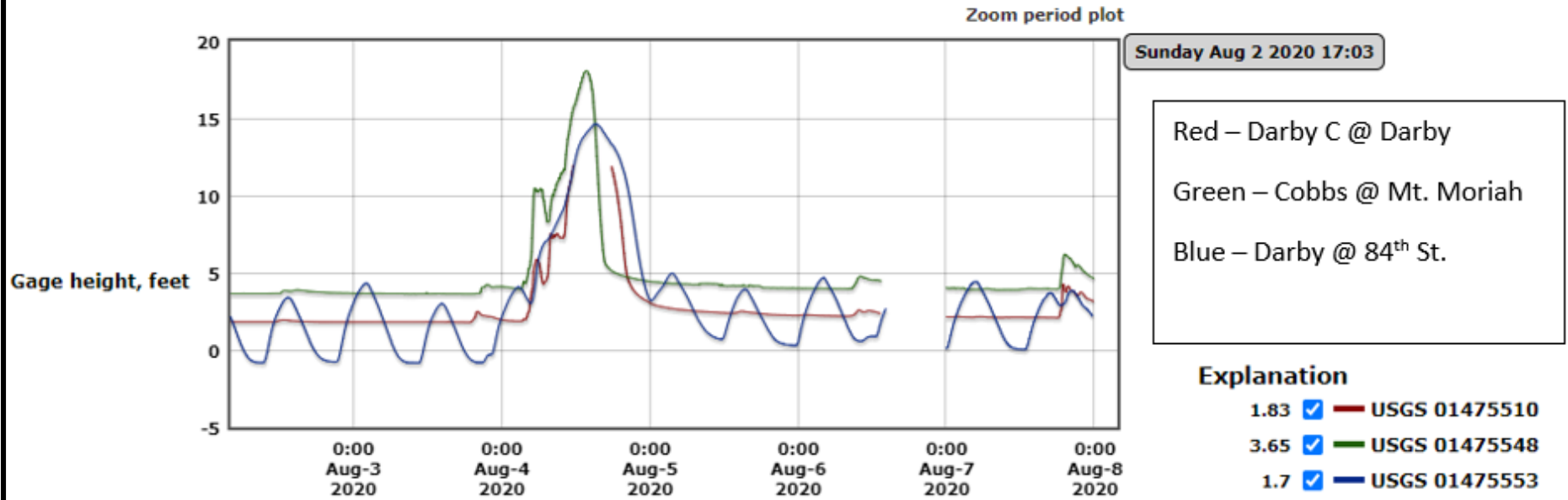
DATA SOURCES: PRECIPITATION - TETRA TECH CLEARVIEW LANDFILL WEATHER STATION, PREDICTED TIDE - TINICUM NATIONAL WILDLIFE REFUGE, DARBY CREEK, PA, STORM SURGE - NOAA TIDES AND CURRENTS (MARCUS HOOK, PA)

■ Precipitation ■ Predicted Tide ■ Storm Surge ■ Storm Surge + Predicted Tide

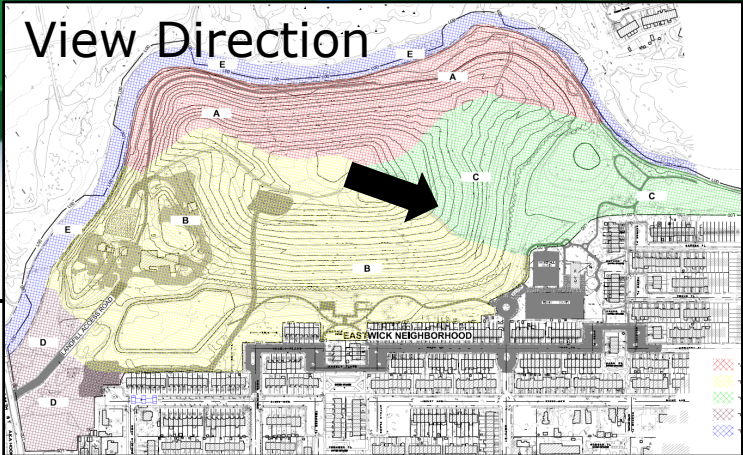
Stream Gauge Height



USGS 01475510 Darby Creek near Darby, PA
USGS 01475548 Cobbs Creek at Mt. Moriah Cemetery, Philadelphia
USGS 01475553 Darby Creek at 84th St Bridge at Eastwick, PA



Flood Extent



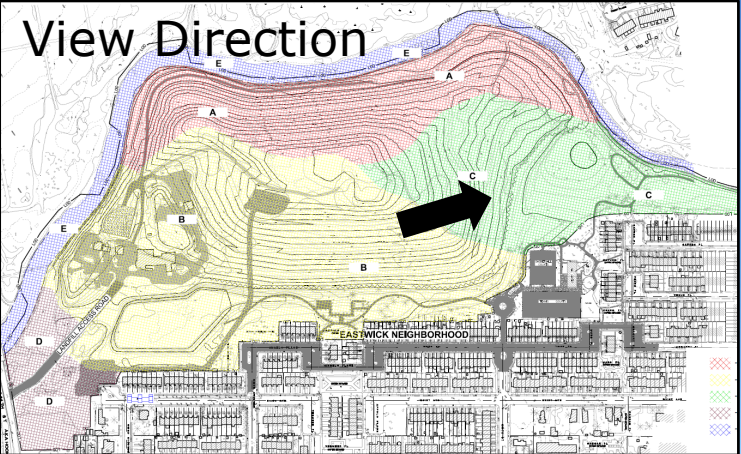
Evacuations underway due to flooding in Southwest Philadelphia



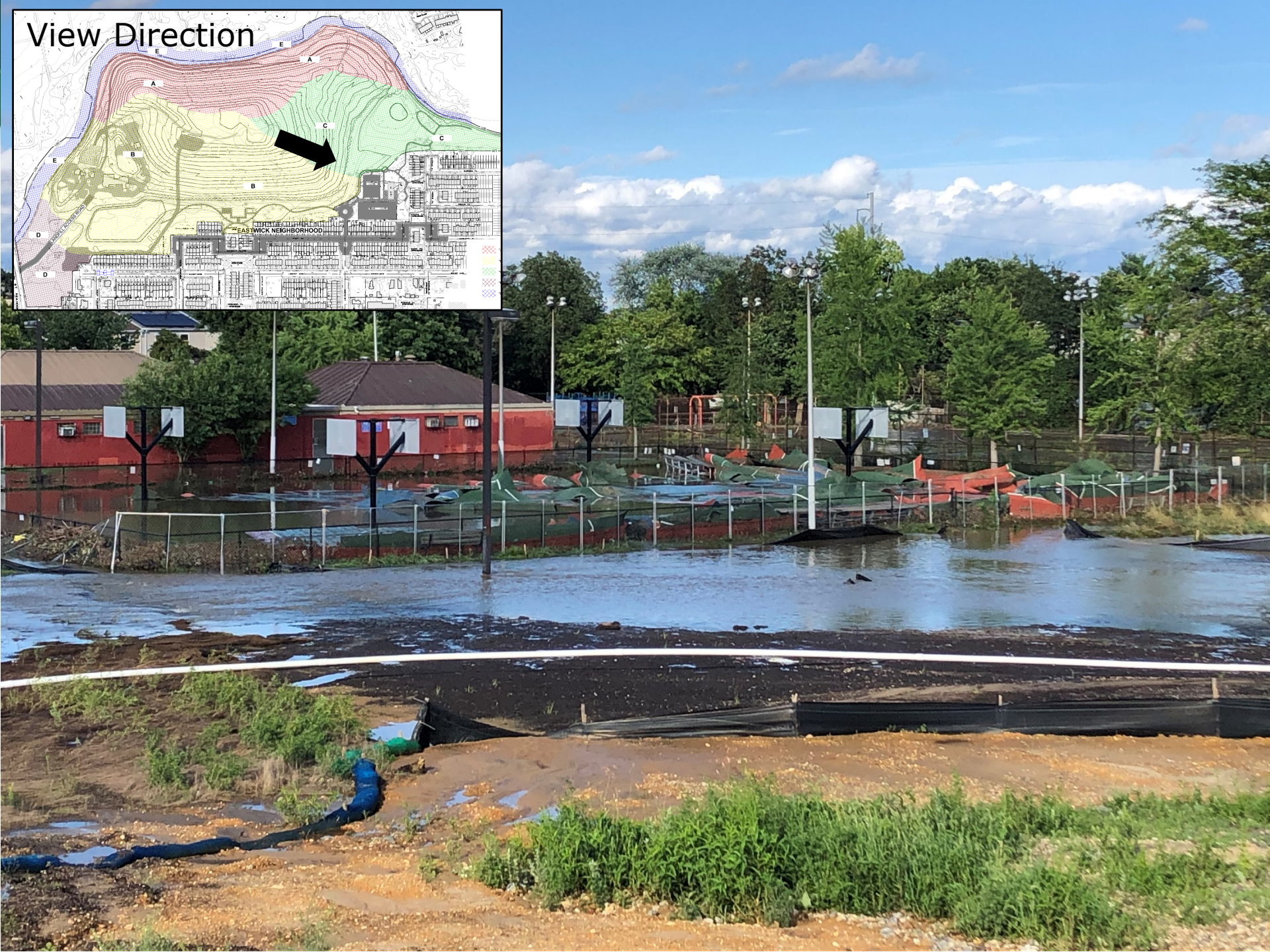
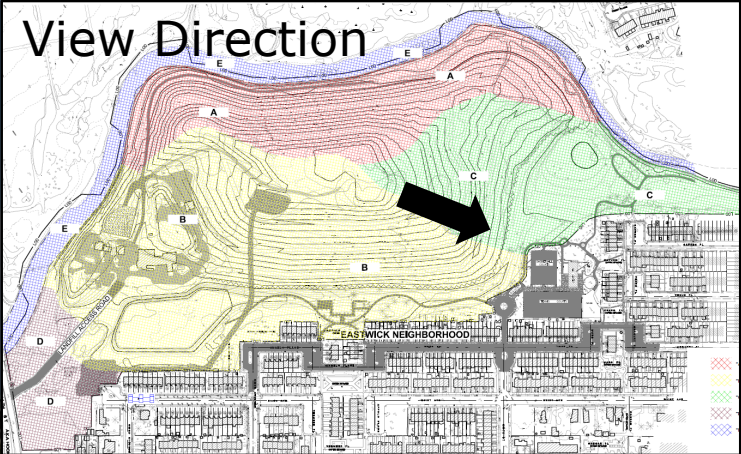
Updated 21 minutes ago



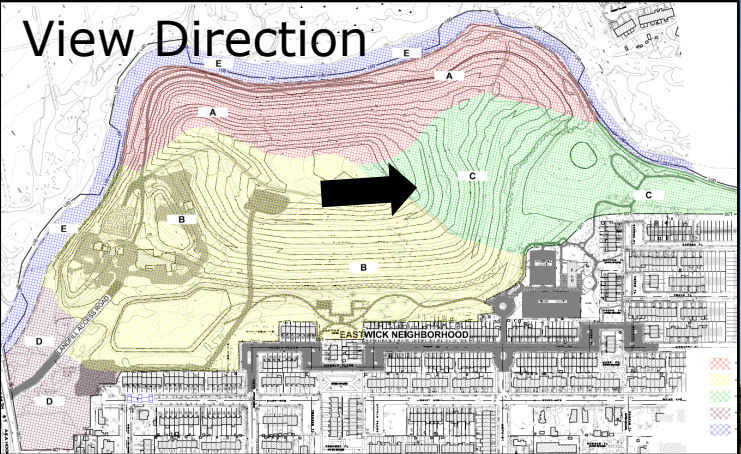
View Direction

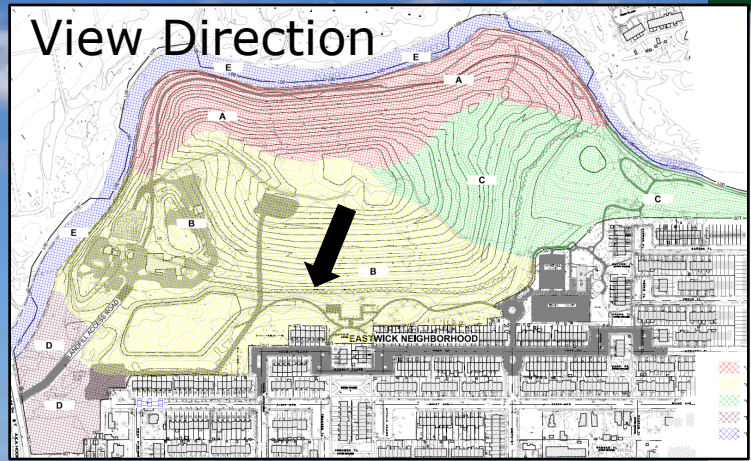


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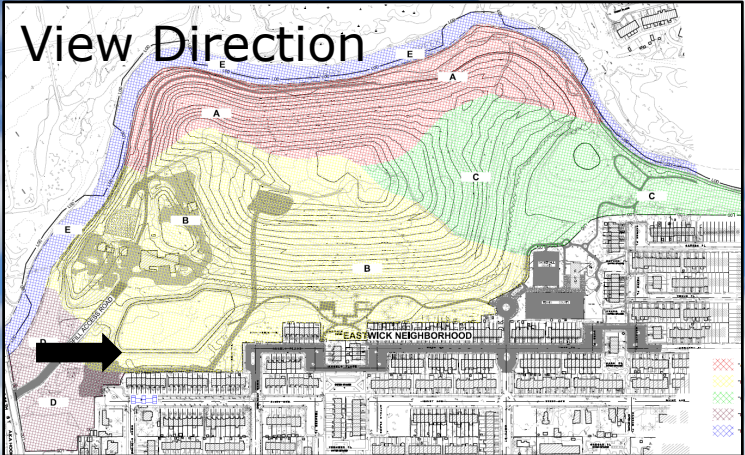


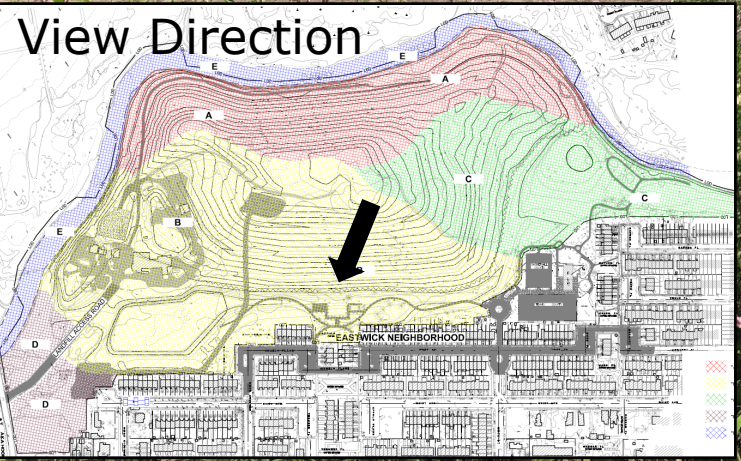
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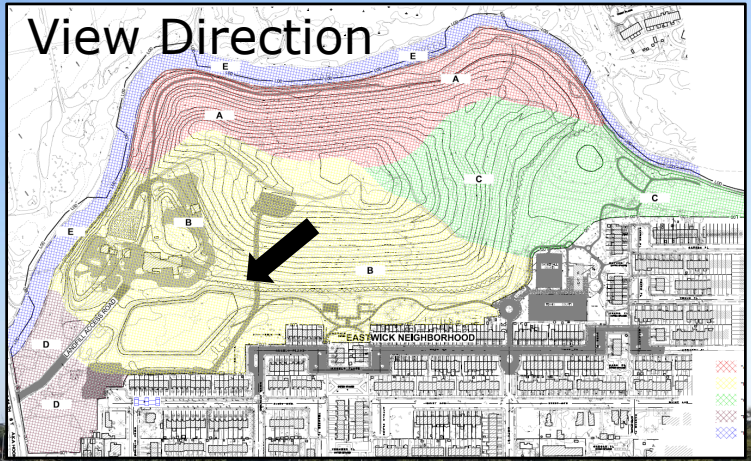
LDCA
FLOODING
neighborhood from
fill

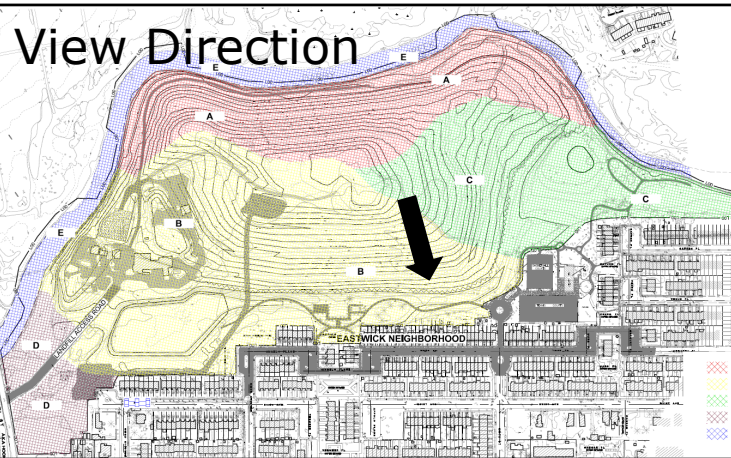




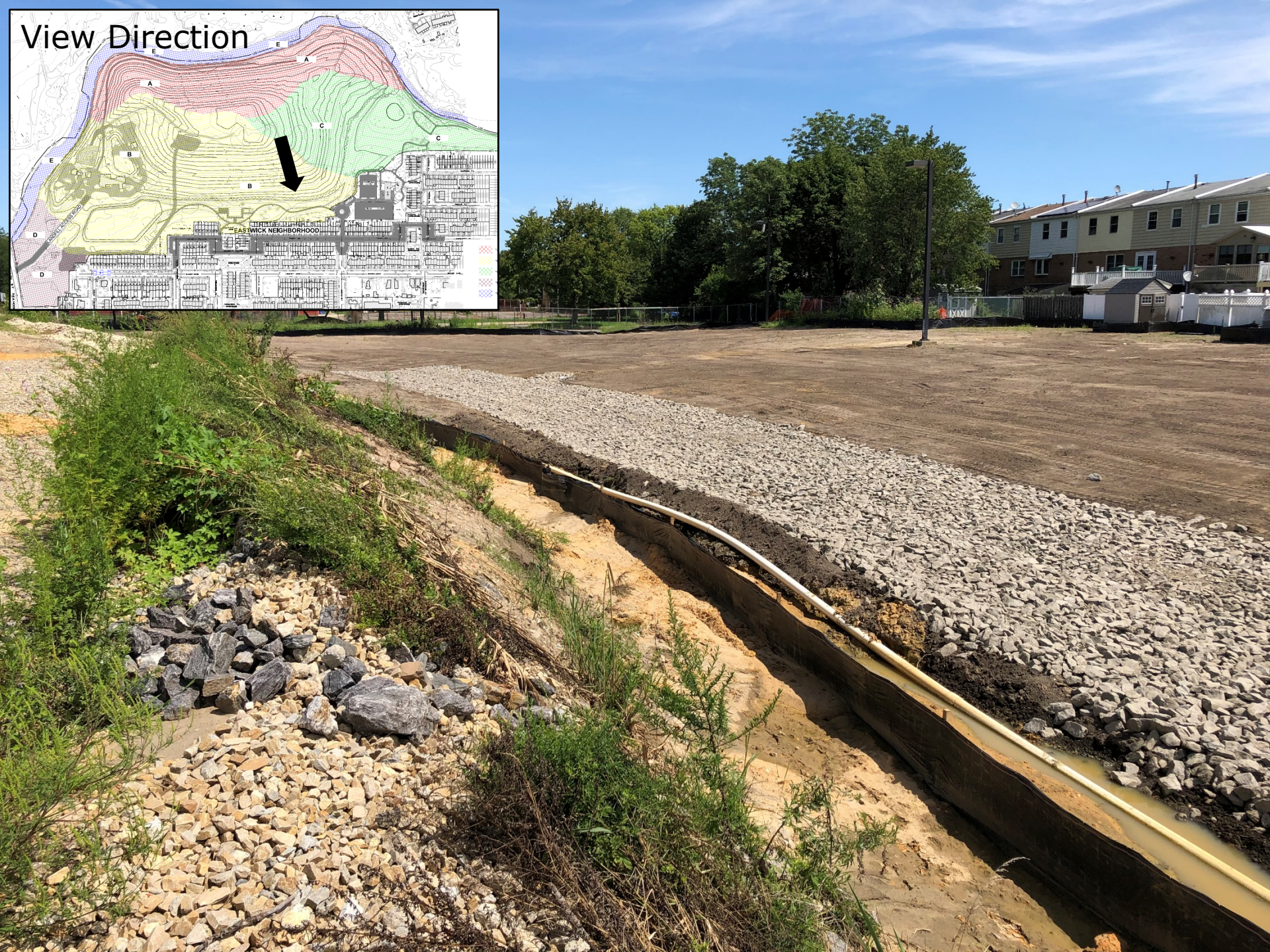
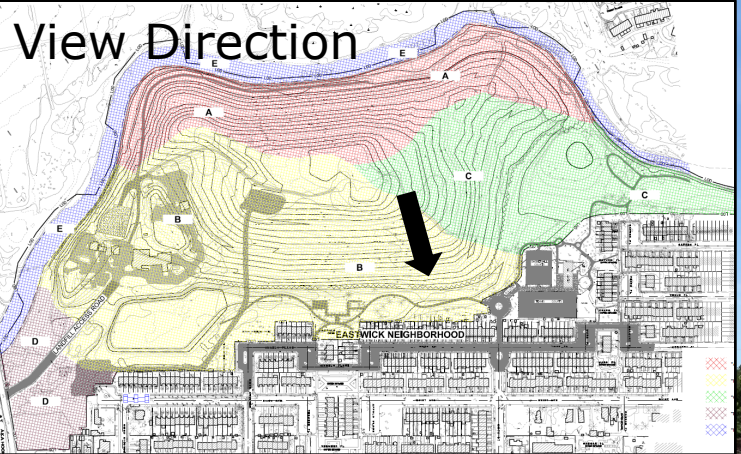


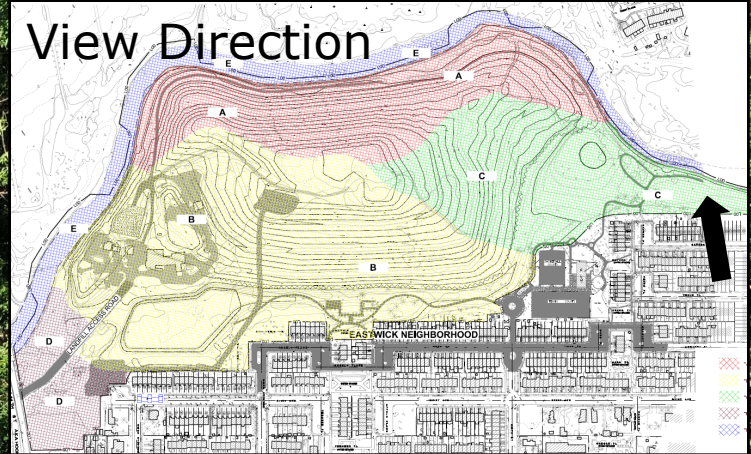
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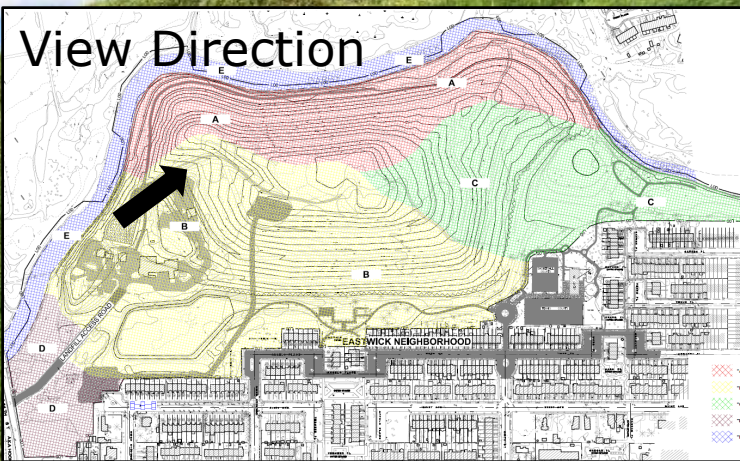
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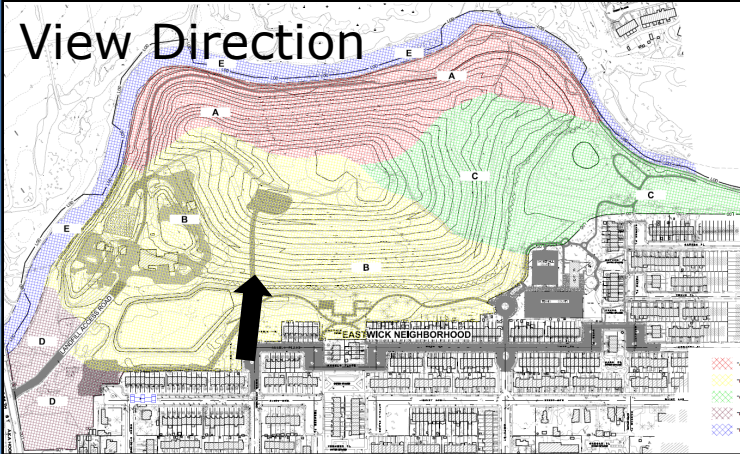
LDCA
FLOODING

Washout - Access
Road

8/4/2020



View Direction

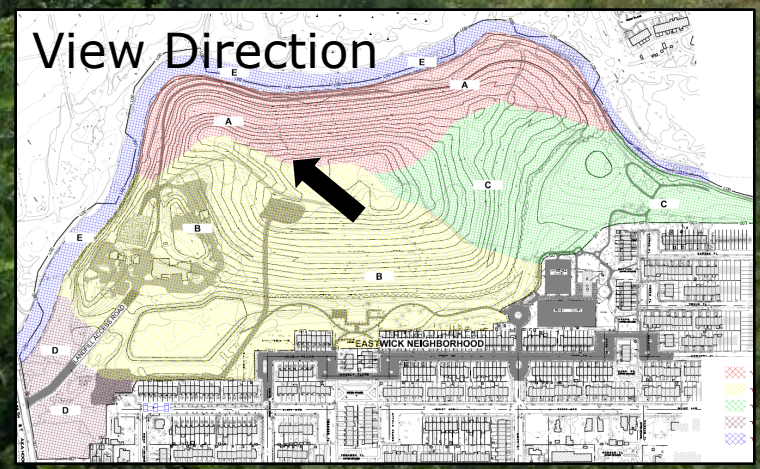




LDCA
FLOODING

Creek from
top of Landfill

8/4/2020





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LDCA Website: <http://go.usa.gov/vQv3>