

SHALLOW LAND DISPOSAL AREA PUBLIC MEETING

Pittsburgh District, US Army Corps of Engineers
COL Andrew “Coby” Short, Commander
CPT Brian T. Molloy, Project Manager
14 November 2018



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AGENDA

- Opening Comments and Introductions
- Outreach
- Site History
- Project Update
- Monitoring – Water & Air
- Incident Response Coordination
- Discussion / Q&A
- Closing Comments



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GOALS

- Safety and security
 - Safeguard the workers, the community, and the environment during the excavation, characterization, packaging, and disposal of site materials
- Transparency
 - Provide timely and useful information to the public about our actions consistent with information security limitations
- Community Involvement
 - Update to community and provide a venue for questions and comments

OUTREACH

- Meetings
 - May 2017, Nov 2018, Spring 2019 TBD
- Status Report
 - Handout
- Website
 - Project history, updates, announcements
- Community Coordination Outreach
 - Public Outreach Coordination Tool
 - Project Updates
 - Site Activity Notifications
- Media Engagement

Parks Township Shallow Land Disposal Area



STATUS REPORT



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INTRODUCTION TO STORY MAP

Shallow Land Disposal Area - A Story Map



Shallow Land Disposal Area Parks Township, Armstrong County Pennsylvania

Overview:

The Shallow Land Disposal Area (SLDA), located in Parks Township, Armstrong County, encompasses 44 acres of private land owned by Babcock/Wilcox Technologies (BWXT).

The Nuclear Materials and Equipment Corporation (NUMEC), a predecessor to BWXT, disposed of radioactive waste materials at the

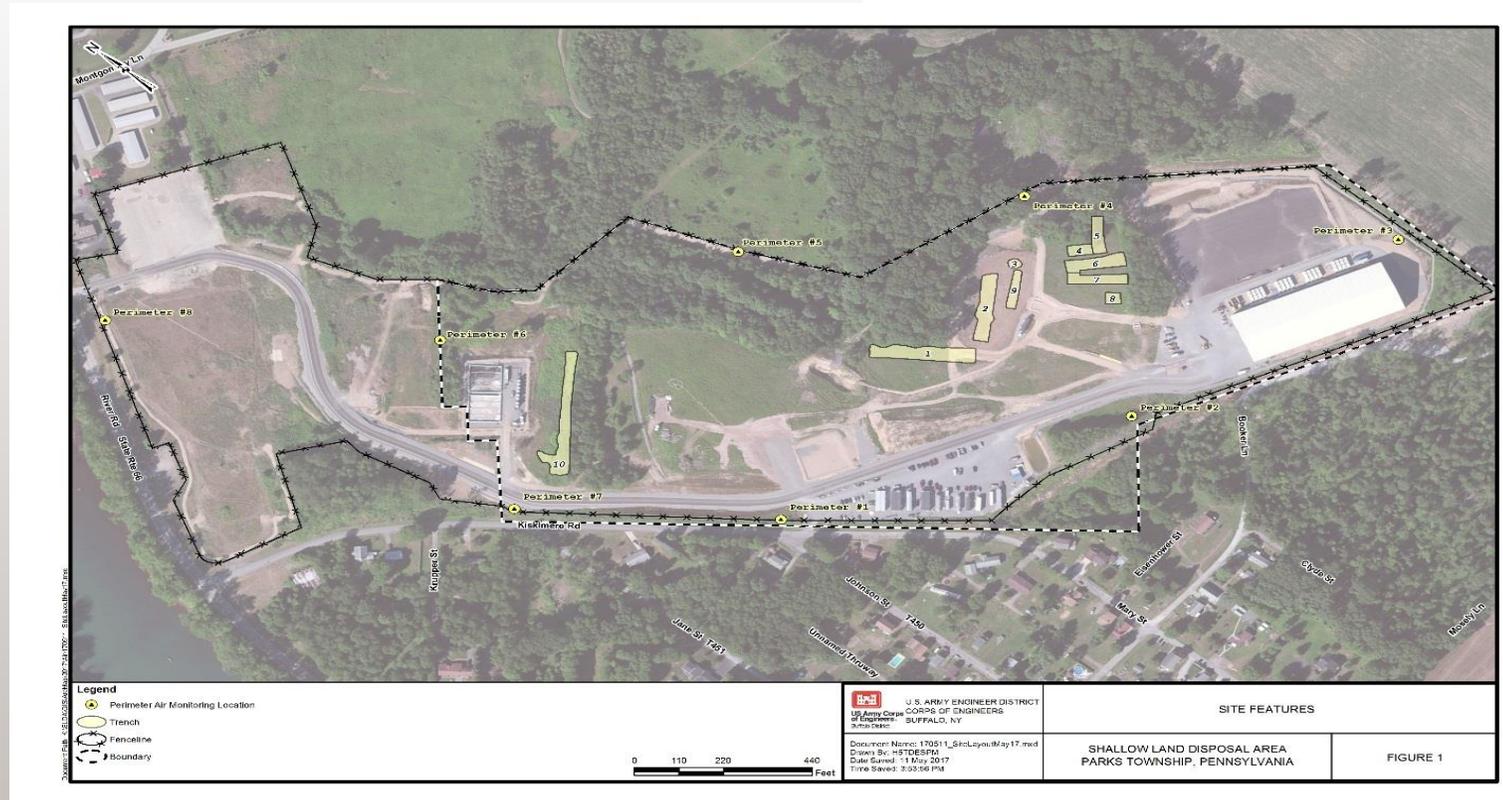


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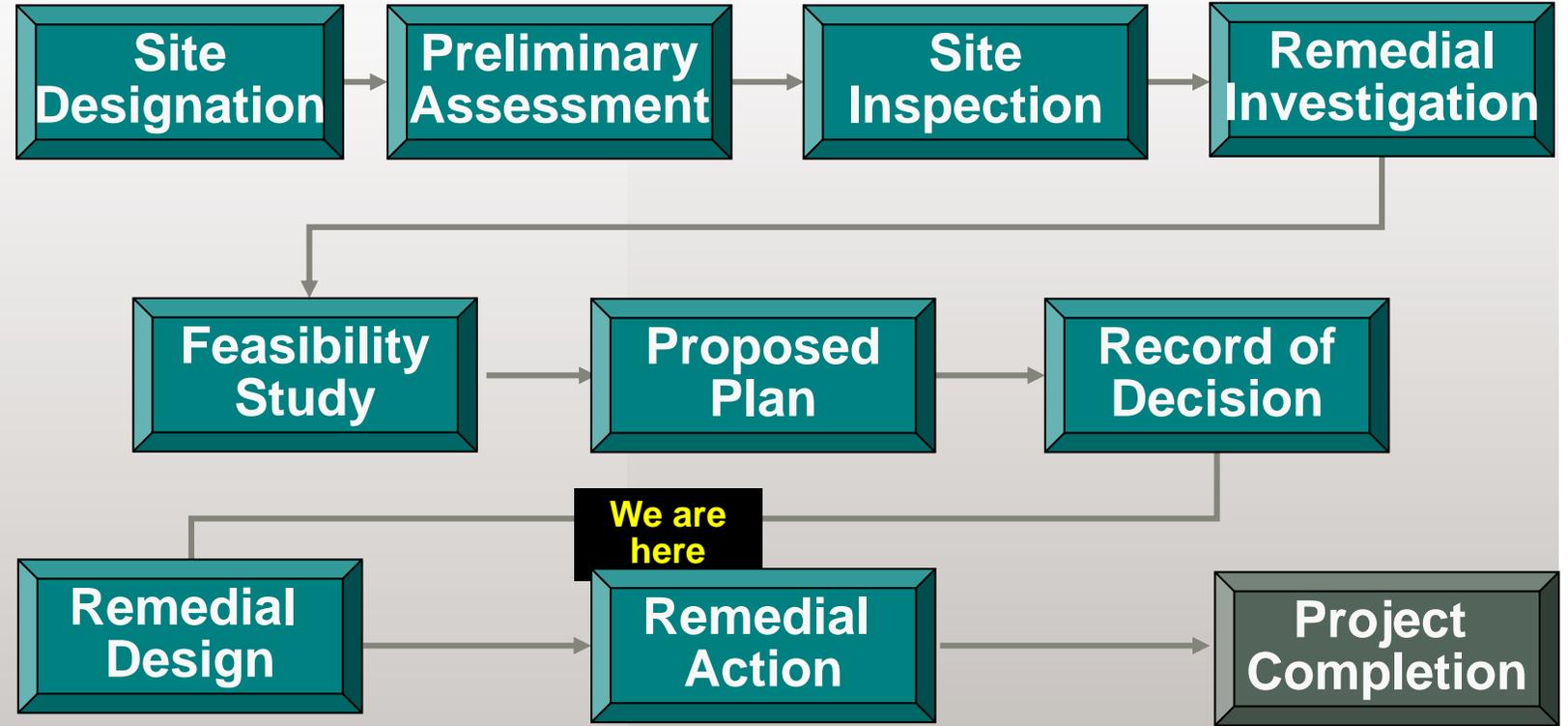
SITE HISTORY

- NUMEC used the site 1961-1970 to dispose of material from the Apollo Processing Plant
- Material was disposed in 10 site-specific locations, reportedly in accordance with AEC/NRC disposal regulations in effect at the time
- Disposal regulations were rescinded in 1981
- A 2002 law directs that the site be added to FUSRAP and that costs are recovered



SITE HISTORY (CONTINUED)

- 2005 Remedial Investigation Completed
- 2006 Feasibility Study Completed
- 2007 ROD Signed
- 2011 Shut-Down
- 2015 ROD Amendment
- 2017 New Remediation Contract Awarded
- 2017 Contract Protest
- **2018 Corps Confirmed Original award**



A removal action may be initiated at any time during the process if human health or the environment is in immediate danger.

Complete
 Underway
 To be completed



PROJECT UPDATE (CONTINUED)

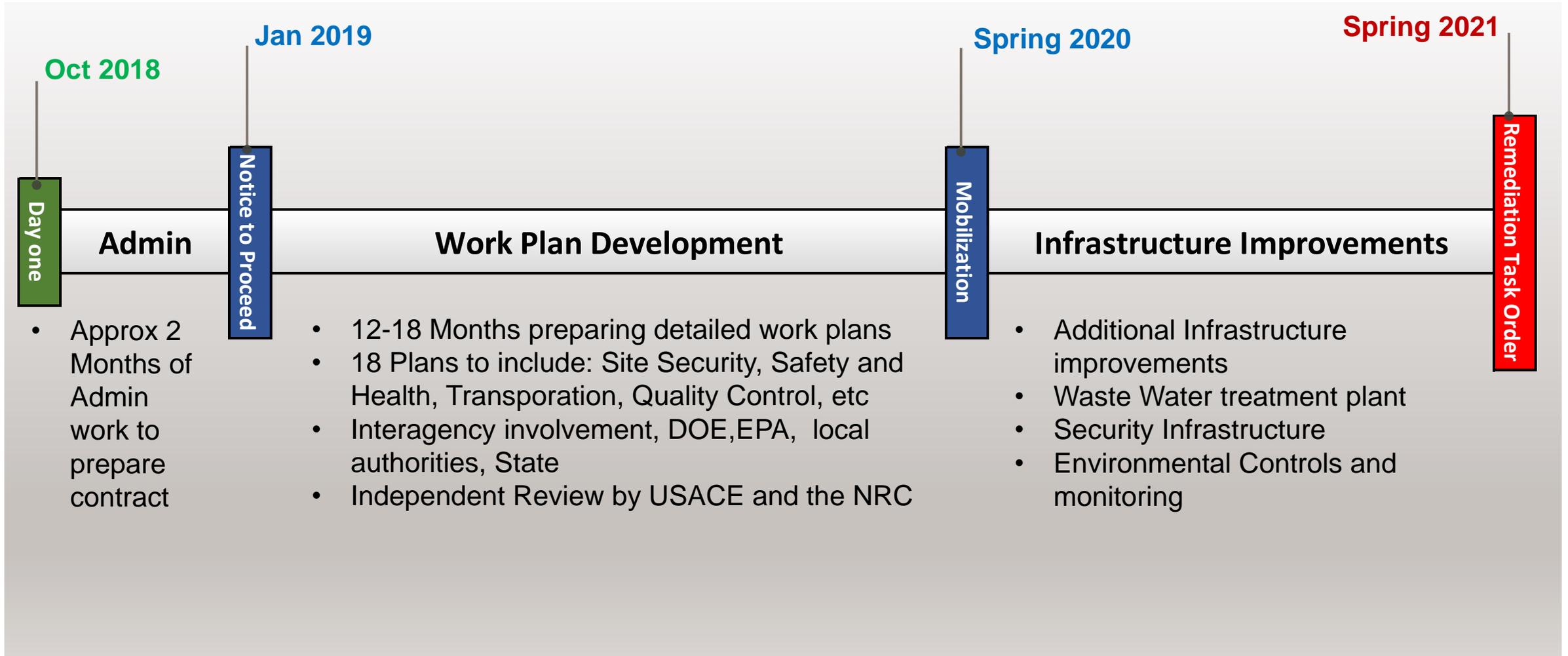
- Security Upgrades
Lighting/Cameras installed



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WHAT TO EXPECT



Shallow Land Disposal Area (SLDA)

Parks Township, PA

2017 Groundwater Monitoring Results

**Pittsburgh and Buffalo
Districts**



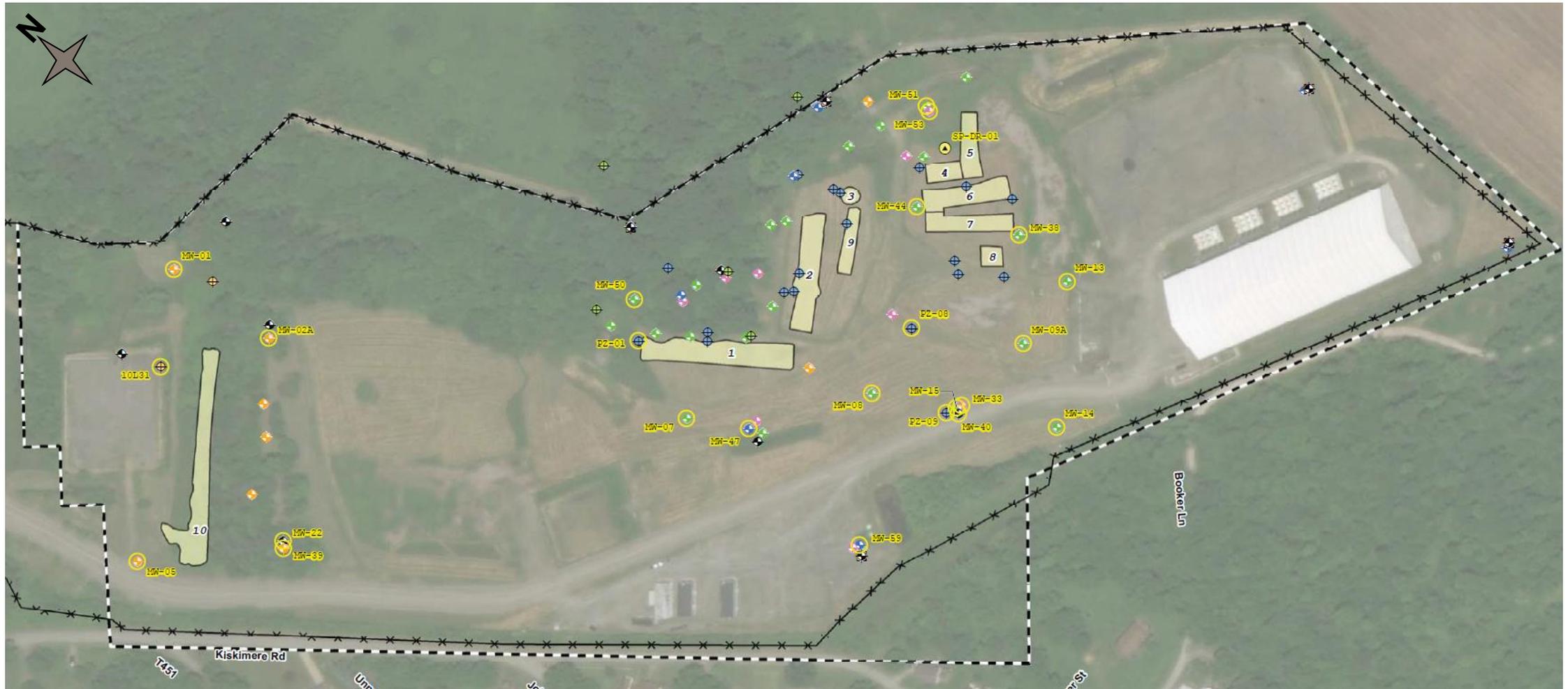
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Key Findings

- Groundwater results from 2017 are consistent with historical findings
- Groundwater contains naturally occurring metals and radioactive elements normally found in rock and soil
- Radionuclides detected in groundwater are below USEPA, PADEP, or NRC drinking-water standards
- No evidence of radiologic plume or off-site migration
- Groundwater sampling will continue during the Corps' presence

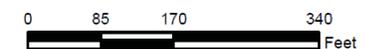
June 2017 Groundwater Sampling Locations



- Twenty-four (24) monitoring wells
- Two (2) surface-water locations

Legend

Monitoring Well/Piezometer (Sampled 2017)	Monitoring Well (Second Shallow Bedrock)	Piezometer (Overburden)	Fenceline
Surface Water Location (Sampled 2017)	Monitoring Well (Upper Freeport Zone)	Piezometer (First Shallow Bedrock)	Boundary
Monitoring Well (Overburden)	Monitoring Well (Deep Bedrock)	Piezometer (Upper Freeport Zone)	
Monitoring Well (First Shallow Bedrock)	Nested Monitoring Well	Trench	



USACE Groundwater Sampling Constituents

What do we sample for and find?

Radioactive Isotopes (Radionuclides):

- Uranium
 - Thorium
 - Radium
- } Naturally Occurring
- Plutonium
 - Americium
- } Man-made

- All radionuclides below USEPA, PADEP, or NRC drinking water standards
- Groundwater and surface-water sampling results from 2003 to 2017 show no radiologic risk to site workers or the community

USACE Groundwater Sampling Constituents

What do we sample for and find?

- 23 naturally occurring metals
- Seven metals exceed USEPA, PADEP, or NRC drinking water standards
 - Aluminum, Antimony, Arsenic, Beryllium, Iron, Manganese, Nickel
- Wells with elevated metals are screened in coal mine or deeper groundwater - not local drinking water sources

Future Groundwater Activities

- USACE data report for 2017 on SLDA website
- USACE sampled during August 2018
- Next sampling event: Summer 2019 (7th year)
- Annual groundwater monitoring reports will be generated

Air Monitoring Program

Air Filter Samples from 9 Locations:

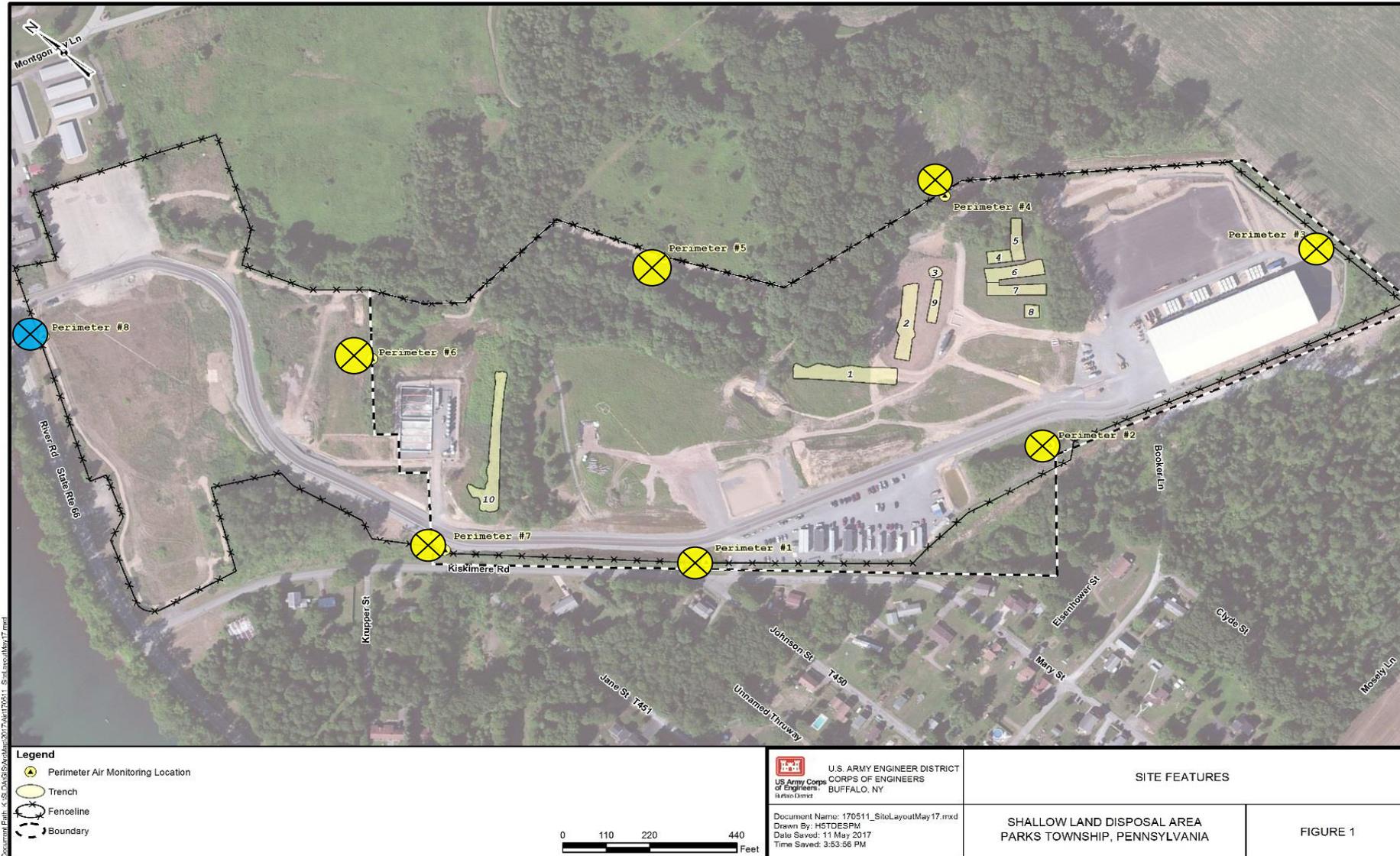
- Total Radioactivity (weekly)
- Uranium (U-234, -235, -238)
- Thorium (Th-232)
- Plutonium (Pu-239)
- Americium (Am-241)

All results well below generally accepted NRC air standards

- ✓ 10CFR20, Appendix B, Table 2 (<10%)



AIR AND DOSE RATE MONITOR LOCATIONS



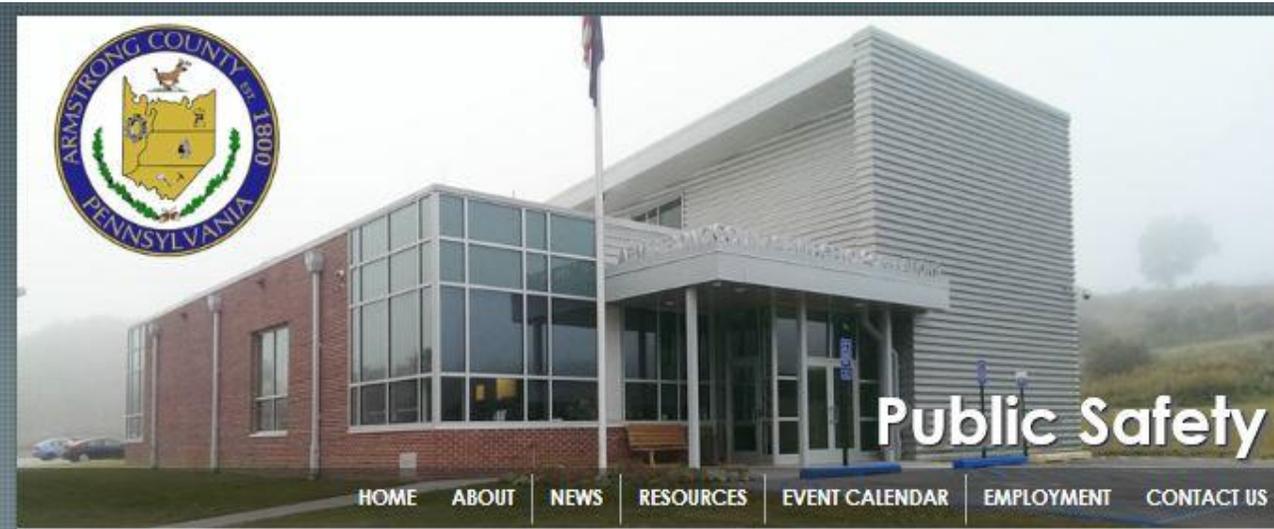
SLDA INCIDENT RESPONSE TEAM

- Local first responding agencies provide notification
- Participating Organizations
 - Armstrong County Office of Public Safety
 - Armstrong County Emergency
 - Armstrong County HAZMAT
 - Armstrong County HAZMAT Contractor
 - Parks Township
 - Police Chief /Community Emergency Manager
 - Fire Chief
 - EMS Director
 - Incident Response Plan
 - Contractor will be involved in emergency planning process



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Armstrong County Vesta Alert Disclaimer page

| Hits: 1333

The Armstrong County Department of Public Safety provides the "Public Alerting and Notification System" Self-Registration Portal as a free service to our citizens. The system is provided in good faith with the understanding that it is the sole responsibility of the subscriber to register with the required information requested by the portal and that the subscriber shall be responsible for maintaining the information provided in a timely manner. It is also understood that the subscriber can remove themselves from the system at any time. The data that you provide will be stored in a secure manner and it will not be distributed outside the notification system unless required by law to do so.

By registering in the "Public Alerting and Notification System" you confirm that you understand that the safety notifications by the "Public Alerting and Notification System" should NOT be your only source of information - you should also pay attention and monitor other sources such as our Face book page, our web site, other social media sources, radio, television, and weather radios. I have read, understand, and accept these Terms and Conditions. I hereby request that "Public Alerting and Notification System" notifications be sent to the listed phone numbers and email address(es), for which I have legal authority to request transmission.

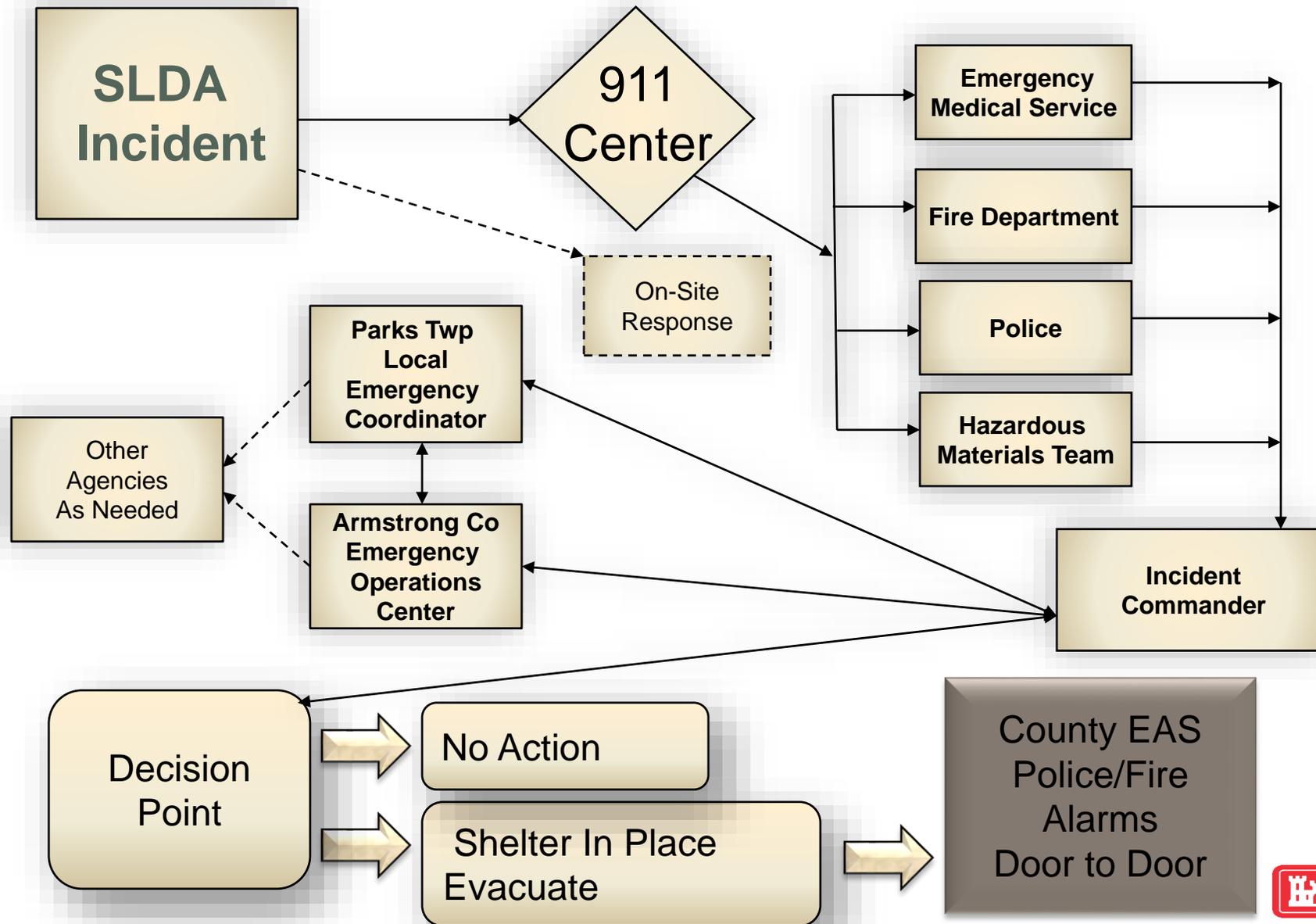
There is no need to register if you only wish to receive alerts on your land-line phone. All land-line phones have been automatically registered by 911 and will be updated on a yearly basis.

[Continue to Self-Registration](#)

NEW ARMSTRONG COUNTY ALERT SYSTEM



Emergency Response Matrix



Q&A