



# Army Continuation of Cleanup Sunflower AAP Public Update

## G-9 Mission

The DCS, G-9 administers the II PEG, leads the Army's Quality of Life effort, implements, integrates, supervises and assesses execution of policies, resources, plans, and programs for the Installation Enterprise to enable ready, prompt, and sustained land dominance by Army forces.



## G-9 Vision

Professional experts championing Installation Enterprise Readiness and delivering unmatched Quality of Life to our People.

20 July 2022



Deputy Chief of Staff, G-9



# Agenda



- Introduction of Participants and Organizations
- BRAC Ops/AEC/USACE (Co-briefers)
  - Objectives Background and Map Overview
  - Site Remediation: Army and RCRA Process
  - Remediation and Decontamination Update and Next Steps
  - Current Status and Contract Update
  - Questions on Progress
- Restoration Advisory Boards
- End of Presentation





# Meeting Objectives



- To *inform* the Public of the overall progress of Army's continuation of the clean-up
- To *provide* participants with a status of clean-up in the re-development priority areas and other sectors of Sunflower





# Background



- Installation listed excess in 1997 and transferred to Sunflower Redevelopment Limited Liability Corporation (SRL) in 2005.
- The 2005 transfer included approximately 9,065 acres of Sunflower property with \$109M contract funds and \$32M in kind consideration for SRL's remediation agreement and commitment to cleanup approximately 5,300 acres of SFAAP classified as potentially contaminated.
- SRL conducted cleanup until 2011, completing a portion of the cleanup before the funding was expended.
- In 2015 the Army formally decided that Army management of cleanup responsibilities at SFAAP was best path forward to address Army obligations at the site.
- Since then, the Army has awarded thirteen contracts valued at approximately \$170M to remediate the site.





# Site Remediation: Army Process



- Three Army organizations work together to award contracts to conduct explosive and environmental hazard remediation and removal
  - Base Realignment and Closure Office has overall responsibility for the closed site
  - US Army Environmental Command has responsibility for funding projects eligible for Defense Environmental Restoration Program dollars
  - The US Army Corps of Engineers Kansas City District procures the contracts and provides contract oversight and ensures contract execution





## Site Remediation: Army Process (Cont.)

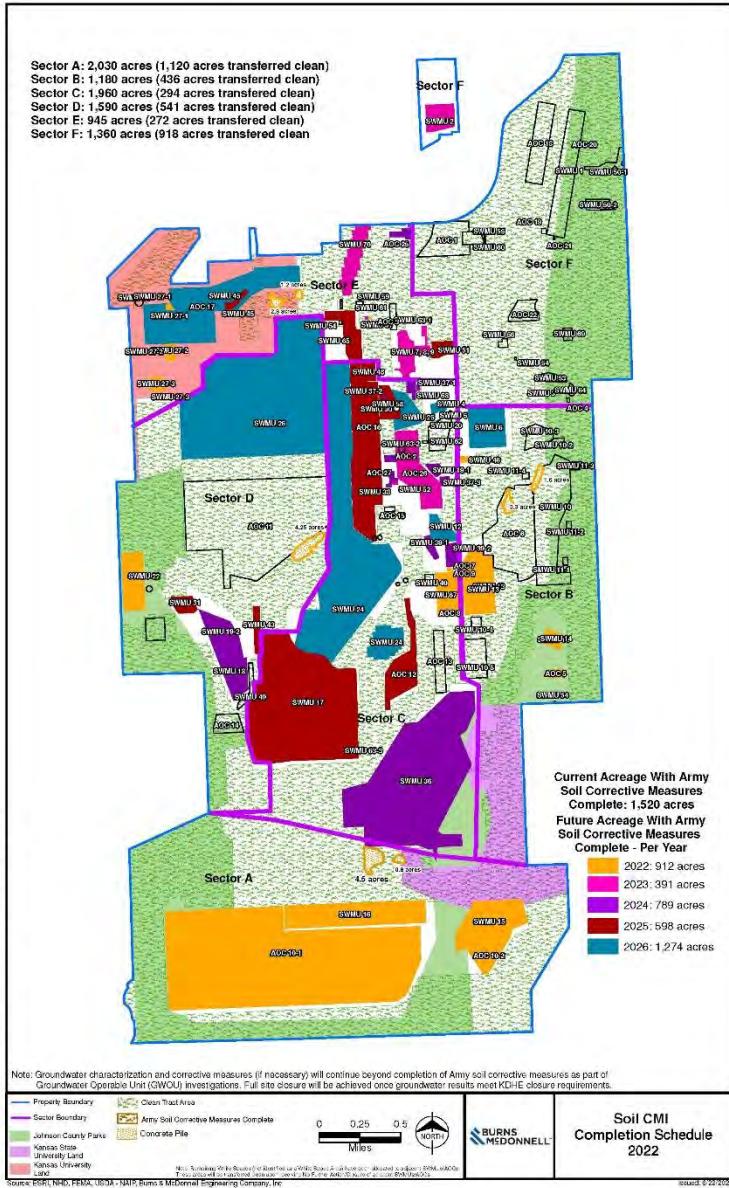


- The Army's process for remediation is governed by law and requires a specific order of activities and completion of one step before we can start another
- The Army is working within the Defense Environmental Restoration Program to accelerate site cleanup with priorities provided by SRL to the maximum extent practical
  - Explosive decontamination is preventing access to some of the interior sites due to **safety** exclusion zones
  - Exclusion zones are diminishing which will allow for access to sites for additional remediation requirements





# Map Overview



*This map depicts the boundary of Sunflower AAP with the various response sites, SWMUs and AOCs, in assorted colors. Clean areas/ acres are colored light green, dark green areas are acres apportioned to Johnson County, and light pink and light purple areas are acres apportioned to the various universities. Areas in white await further delineation based on the remediation completed at the adjacent response site.*



# Army/RCRA Process



- RCRA Facility Assessment (**RFA**) – conducted by regulator (Kansas Department of Health & Environment) to identify solid waste management units and areas of concern
- RCRA Facility Investigation (**RFI**) – delineates nature and extent of contamination
- Corrective Measures Study (**CMS**) – evaluates alternatives
- Corrective Measures Implementation (**CMI**) – implements corrective action
- Statement of Basis or Fact Sheet – documents the preferred alternative and solicits public comment
- No Further Corrective Action Planned – KDHE requested document that facilitates site close-out and removal from the permit
- Corrective Action Permit – KDHE regulatory document that records the corrective measure or No Further Action for a site. A new permit will be issued by KDHE in early 2023. Application in progress





# Current Status As of 1 June 2022



- The RCRA permit is currently in transition. KDHE was given authority for corrective action and will write the new permit. The new RCRA permit application is complete and is in review. EPA will execute a one-time modification of the old permit before the new permit is in effect.
- Focus on Explosive Hazard Decontamination
  - Completed inside/outside sewer and foundation removal work across 13 SWMUs and 3 AOCs; only remaining decontamination work is AOC 16
- Of 92 response sites in the current RCRA permit, five have been closed and require no further action (NFA) and were removed from the permit. Two are landfills that were removed from the RCRA permit but require monitoring and 14 sites have received NFA approval but not yet removed from the RCRA permit. 71 sites are in various stages of investigation, corrective measures and no further action. Two sites remain with work not started; Munitions and Explosive of Concern (MEC) work started with environmental work pending.





U.S. ARMY



# Nitrocellulose (NC) Bulk Explosive





# Zapata Contract Site Summary



## General Overview of Contract Completions:

- Project Totals: 52,976 bank cubic yards removed; 833,867 Square Feet concrete removed; 12,918 linear feet of MEC piping removed
- Site Areas Completed for Non-Temporary Burn Pad Building Accounts:
  - SWMU 8, 59, 65 – North Acid; Laundry Facility; and Tank Farm
  - SWMU 13 & 67 – South Acid Area
  - SWMU 14 – Rocket Static Test Area
  - SWMU 26 – Single Base Propellant, Waste Water Settling Sumps
  - SWMU 48 – Nitroguanidine Support Area
  - AOC 5 – Cannon Range Tunnels (Facility 303)
  - AOC 16 – NC Production Lines
  - Interim Corrective Measures (ICM) and MEC Completion reports are complete.





# Example Work from Zapata Contract



Bldg 5900 - Before



Bldg 2500 - Before



Bldg 5900 - After



Bldg 2500 - After





# Example of Work from Zapata Contract



AOC 16 - Before



AOC 16 - During



AOC 16 - After





# Example of Work from Zapata Contract



312-2 - Before



312-2 - During



312-2 - After





# Sevenson/USA 2016 Contract Summary



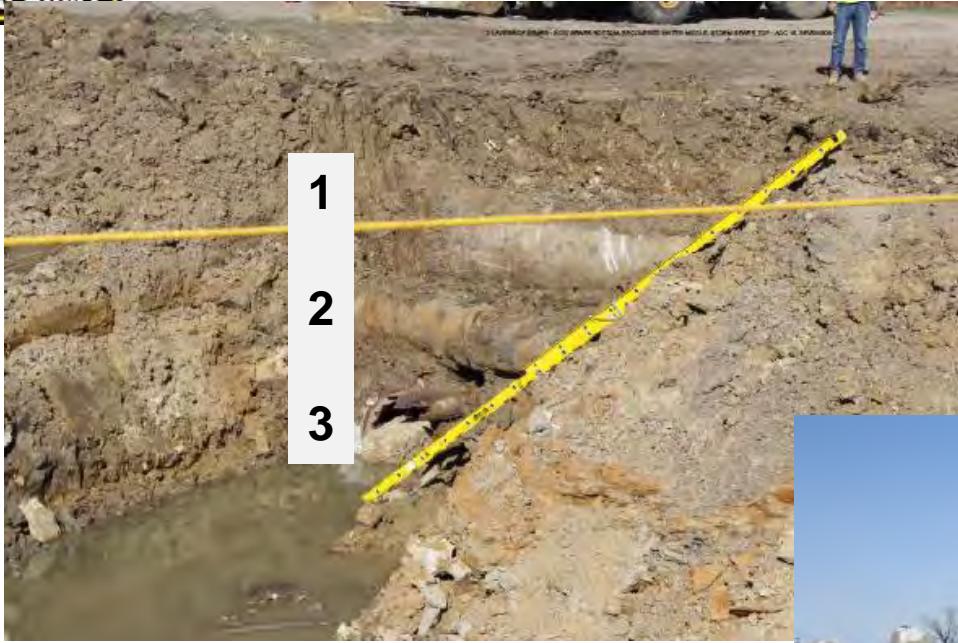
## General Overview of the Project Progress

- Building Foundations (SWMU 8,14,17,26,48 & AOC 16)
  - 100% physically complete
  - Removed: 254,441 sq. ft.
- Inside Sewer Lines (SWMU-17,26 & 48)
  - 100% physically complete
  - Removed: 1,460 linear feet
- Outside Sewer Lines (SWMU 8,14,17,26,48 & AOC 16)
  - 100% physically complete
  - Removed: 138,815 linear feet
- Area restoration is nearing completion in all areas
- ICM and MEC completion reports are in progress in all areas





# Three Layers of Piping



1. Storm sewer
2. Recovered Nitrocellulose water
3. Acid sewer

Deep acid sewer trench  
after pipe removal between  
AOC16 and Pond A





# Example Work from Sevenson Contract



E Line Acid Sewer Removal - During



E Line Acid Sewer Removal - During





# Example Work from Sevenson Contract



**SWMU 26 - Sewer Removal**



**SWMU 26 - Sewer Removal**



**SWMU 26 – Sewer Removal**



**SWMU 26 - Restoration**





# Sevenson/USA 2019 Contract Summary



## General Overview of the Project Progress

- Building Foundations (SWMU 24,31,43,46,65,67 & AOC 12,16,17)
  - 83% physically complete
  - Removed 313,180 sq ft
- Inside Sewer Lines (SWMU 24,65,67 & AOC 16,17)
  - 93% physically complete
  - Removed 729 linear feet
- Outside Sewer Lines (SWMU 24,65,67 & AOC 16,17)
  - 91% physically complete
  - Removed 25,042 linear feet
- Area restoration and Transport & Disposal of contaminated soils are complete in SWMU 31, 43, 46 & AOC 12
- ICM and MEC completion reports are complete in SWMU 31, 43 and 46





# Munitions and Explosive Summary



- Estimated MEC work as of 2015 (Govt Estimate)
  - 1.5 million sq ft of concrete
  - 11,144 linear ft of inside sewer lines
  - 170,000 linear ft of outside sewer lines
- MEC work physically completed as of 1 June 2022
  - 1,400,542 sq ft of concrete removed = 93%
  - 10,241 linear ft of inside sewer line = 92%
  - 168,723 linear ft of outside sewer lines = 99%
- Remaining quantities will be completed under SES-USA 2019 contract





# Contracts

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- Louis Berger Group (LBG) 2015 contract: Complete RCRA documents, update or revise existing work plans and prepare studies to evaluate alternatives for 27 sites. This documentation work has been completed.
- AECOM 2015 contract: Perform sampling investigations (rind soils) and prepare data reports of soils around various structures at selected sites. This work has been completed.
- Zapata-ENVIROCON 2015 contract: Perform explosive decontamination of inside sewer piping; environmental soils excavation, and foundation slab, sump, and subsurface foundations removal in multiple MEC areas. All work is complete.





# Contracts (cont.)



- Sevenson-USA (SES-USA) 2016 contract: Perform work on outside sewer lines including excavation, removal, explosive decontamination and environmental remediation work underneath explosive sewers after the explosive hazards have been removed. This work is 95% complete.
- LBG 2017 contract: Conduct RCRA Facility Investigations (RFI) and develop subsequent reports, alternatives, and Army Decision Documents for 5 sites. This work is complete.
- AECOM 2018 contract: Conduct RFIs and Corrective Measures Studies (CMS) and develop subsequent reports, alternatives, Army Decision Documents and No Further Action Documents. The 13 initial sites on this contract required one or more of the above mentioned phases of environmental work. This work is complete.





# Contracts (cont.)



- CAPE Environmental 2018 contract: Perform RCRA Corrective Measures Implementation (CMI) at 10 sites, including removal of environmentally impacted soils and development of CMI Completion Reports. This work is complete.
- LBG 2019 contract: Conduct RFI/CMS, Decision Documents and No Further Action Documents for multiple sites. The 29 initial sites on contract require one or more of the above mentioned phases of environmental work. All work to be final by September 2023.
- Sevenson-USA (SES-USA) 2019 contract: Third Explosive Decontamination contract. Perform remaining work on inside sewers/foundations and outside sewer lines including excavation, removal, explosive decontamination and environmental remediation work underneath explosive sewers after the explosive hazards have been removed. This work is ~70% complete.





## Contracts (cont.)



- SRS-CAPE 2020 contract: Perform RCRA Corrective Measures Implementation (CMI) at 10 sites, including removal of environmentally impacted soils and development of CMI Completion Reports. This work is 95% complete.
- AECOM 2020 contract: Conduct RFI/CMS and develop subsequent reports, alternatives, Army Decision Documents and No Further Action Documents. The 27 initial sites on this contract require one or more of the above mentioned phases of environmental work. The contract also covers 3 Groundwater Operable Units. The groundwater study will produce a Conceptual Site Model (CSM). This will advise how groundwater flows under SFAAP, its connectivity and its ability to transport contamination throughout the site. This work is about 25% complete.





# Contracts (cont.)



- CAPE Environmental 2021 contract: Perform RCRA Corrective Measures Implementation (CMI) at 10 sites, including removal of environmentally impacted soils, installation of landfill covers on 2 of the sites and development of CMI Completion Reports. This work is 35% complete.
- Burns and McDonnell 2021 AE Contract: This contract consists of ~48 sites requiring at a minimum one phase of environmental work and includes continued investigation of groundwater sitewide. This contract will also prepare and produce the new Corrective Action permit for Sunflower and the work is in its infancy.





# Contracts (cont.)

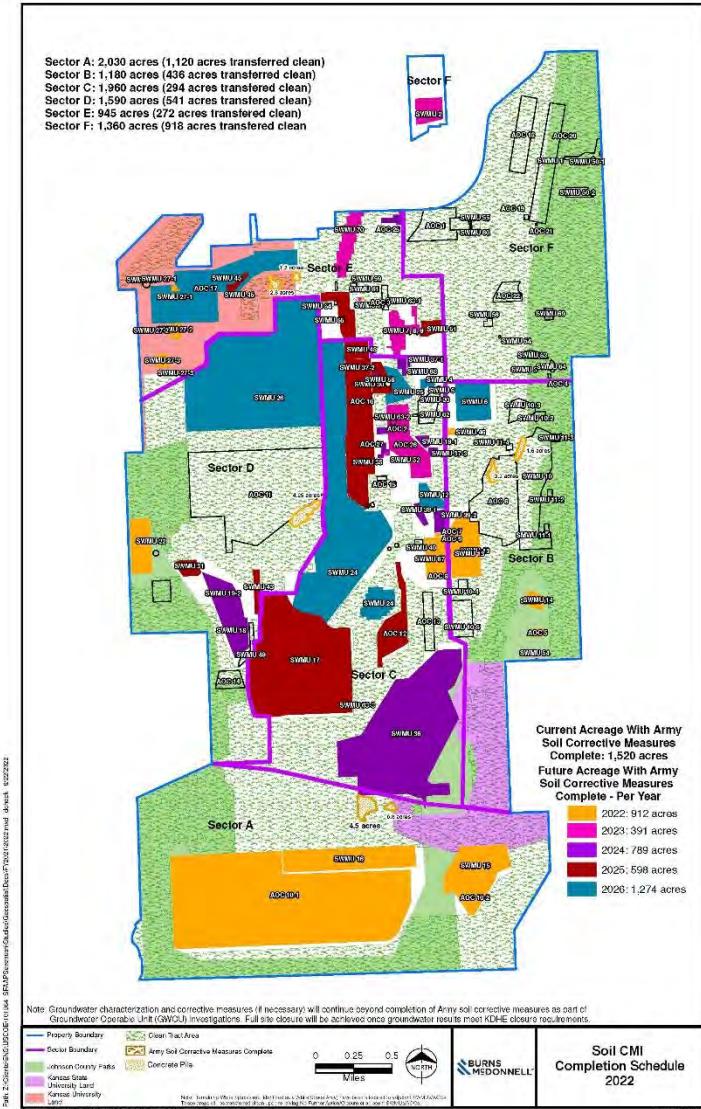


- Upcoming contracts:
  - A Single Award Task Order Contract (SATOC) CMI contract will be procured in FY 22 to begin addressing the remaining soil corrective measures on the property. One SWMU/AOC's will be awarded on the base contract before September 2022.
  - Remaining requirements expected award FY23 through FY25. The goal is all soil cleanup completed by 2028.





# QUESTIONS ON PROGRESS





# Restoration Advisory Boards



Goal: To *provide* information and answer questions about Army Restoration Advisory Boards (RAB)





# RAB Purpose



- A RAB provides the community with the opportunity to become involved in the environmental restoration process either as a RAB member or participation at RAB/public meetings
- RABs offer members the opportunity to influence cleanup decisions through discussions and to provide input to the installation decision makers
- Because representatives of the environmental agencies overseeing cleanup participate in the RAB, the RAB offers members and the public the opportunity to share their questions, concerns and ideas with agencies involved in the cleanup





# RAB Solicitation



- Posted in newspapers January/February 2022 – Kansas City Star, Lawrence Journal World, Gardner News, The Call
- Received 14 requests for community interest forms; 11 were completed and returned (one from a county official and ten from community members)
- Based on response there is insufficient interest in forming a RAB and based on attendance at this meeting the Army will re-solicit if the community feels it is warranted
- The Army will continue to hold annual meetings and additional public meetings as required (or upon request)





## Former Sunflower AAP Website



- As suggested by the community a website was established and is a subset of the Army Environmental Command website:  
**<https://aec.army.mil/index.php/sfaap>**
- The 2022 meeting presentation will be added to the website
- We still need your feedback if there is additional information about the cleanup or Army environmental restoration in general that would be helpful if included





# Feedback

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**Goal:** To *provide* participants the opportunity to provide their feedback to the Army on what information they'd like to receive about the cleanup and how the Army can best communicate with them





# We Need Your Feedback



- When should we meet again?
  - Stakeholder meeting is held annually
- More frequent updates can be provided by email
  - Please sign up if you are interested
- There will be some requirements for documents to be available for public review
  - We can notify you by email
- Information repository is available at:
  - Johnson County Public Library  
9875 West 87th Street, Overland Park, KS 66212





# *End Of Presentation*



- We are here to answer your questions
- You can also reach us later by emailing:  
[usarmy.jbsa.imcom-aec.mbx.public-mailbox@army.mil](mailto:usarmy.jbsa.imcom-aec.mbx.public-mailbox@army.mil)
- If you want to be updated on the status of the cleanup, you can indicate that when you sign in.

