

ATTACHMENT A

ATTACHMENT A

LIST OF UNITS

1. Solid Waste Management Units (SWMUs)

SWMU 6	Acid Wastewater Lagoon (NFA)
SWMU 8	CaSO ₄ Treatment/Disposal Area (NFA)
SWMU 9	CaSO ₄ Treatment/Disposal Area
SWMU 13	Area Outside Open Burning Ground (OBG)
SWMU 17	Air Curtain Destructor and Open Burning Ground
SWMU 31	Ground Coal Ash Settling Lagoons
SWMU 35	CaSO ₄ Treatment/Disposal Area
SWMU 36	CaSO ₄ Drying Bed (NFA)
SWMU 37	CaSO ₄ Treatment/Disposal Area
SWMU 38	CaSO ₄ Treatment/Disposal Area
SWMU 39	Wastewater Ponds from Propellant Incinerator
SWMU 40	Landfill Nitro Area
SWMU 41	Red Water Ash Burial Ground
SWMU 43	Sanitary Landfill #2
SWMU 45	Landfill #3
SWMU 46	Propellant Burial (NFA)
SWMU 48	Oily Water Burial Area
SWMU 49	Red Water Ash Burial #2
SWMU 50	CaSO ₄ Treatment/Disposal Area
SWMU 51	TNT Waste Neutralization Pits
SWMU 54	Propellant Burning Ash Disposal Area
SWMU 57	Pond by Building 4931/4932
SWMU 58	Rubble Pile (NFA)
SWMU 59	Bottom Ash Pile
SWMU 61	Mobile Waste Oil Tanks
SWMU 68	Chromic Acid Treatment Plant Tanks (NFA)
SWMU 69	Pond by Chromic Acid Treatment Plant Tanks (NFA)
SWMU 71	Flash Burn Parts Area
SWMU 74	Inert Landfill #3
SWMU 75	Waste Oil Underground Storage Tank (Inert Gas Plant) (NFA)
SWMU 76	Waste Oil Underground Storage Tanks (NFA)

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2. Areas of Concern (AOCs)

AOC A	Nitrocellulose Rainwater Ditch
AOC F	Former Drum Storage Area (NFA)
AOC O	Underground Fuel Oil Spill
AOC P	Battery Storage Area
AOC Q	CaSO ₄ Treatment/Disposal Area

AOC Bldg 4343 Former Cadmium Plating Facility (NFA)
AOC FLFA Former Lead Furnace Area

3. Site Screening Areas (SSAs)

SSA-2	TNT Wastewater Equalization Basin (Active - VPDES permit)	
SSA-3	TNT Wastewater Treatment Unit (Active - VPDES permit)	
SSA-11	Nitroglycerin 1 Pretreatment Plant (Active - VPDES permit)	
SSA-12	Nitroglycerin 2 Pretreatment Plant (Active - VPDES Permit)	
SSA-18	Sulfuric Acid Recovery Plant - Waste Acid Treatment	
SSA-19	The A-B Line Acidic Wastewater Treatment Plant (Active - VPDES Permit)	Formatted: Right: -0.44"
SSA-20	C Line Acidic Wastewater Treatment Plant (Active - VPDES Permit)	
SSA-21	Continuous Automated Single-Base Line Wastewater Treatment Plant	
SSA-22	Wastewater Holding Lagoons (4912-19)	
SSA-23	Wastewater Holding Lagoons (4912-4)	
SSA-24	Wastewater Holding Lagoons (4912-10)	
SSA-25	Wastewater Holding Lagoons (4912-13)	
SSA-30	Asbestos Disposal Trench No. 1	
SSA-33	Treatment Plant for Solids from Water Treatment (Active - SDWA)	
SSA-34	Treatment Plant for Solids from Water Treatment (Active - SDWA)	
SSA-55	Sewage Treatment Plant (Northeast Section) (Active - VPDES permit)	
SSA-56	Sewage Treatment Plant (Northwest Section) (Active - VPDES permit)	
SSA-60	Rubble Pile East of Administration Building	
SSA-63	C-Line Boiling Tub House Settling Pits (Active - VPDES permit)	
SSA-64	Nitrocellulose C-Line Collection Sump (Active - VPDES permit)	
SSA-65	Nitrocellulose A-B Line Acidic Water Settling Pits (Active - VPDES permit)	Formatted: Right: -0.37"
SSA-66	Nitrocellulose A-B Line Neutral Water Settling Pits (Active - VPDES permit)	
SSA-67	Main Acid Sewer Sumps - (Active- VPDES permit)	
SSA-70	Heavy Equipment Maintenance Shop Tractor Steam Cleaning Area	
SSA-72	Oleum Plant Acidic Wastewater Sump	
SSA-73	Main Lab Waste Container Storage Area (Active - < 90 day storage area)	
SSA-77	Garbage Incinerator	
SSA-78	Rubble Pile Southwest of Unit 51 (Active Inert/Concrete Debris Landfill-DEQ SW regulations)	Formatted: Indent: Left: 0.5", Hanging: 1"
SSA-79	Asbestos Disposal Trench No. 2	
SSA-80	Drainage Ditch for C-Line Wastewater Treatment and Plant Runoff (Active - VPDES permit)	
SSA-81	Red Water Treatment Plant (Active - VPDES permit)	

4. Miscellaneous Units

MU-1	Sewer Systems (completed - submitted Jan 2003) -acid -industrial
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- MU-2 Drainage Ditches (including tributaries of Stroubles Creek)
 - near HSWMU No. 4 (Active - VPDES permit and SWPP)
 - at the TNT/DNT Plant Area (Active - VPDES permit)
 - near abandoned buildings at Increment Area No. 3
 - selected drainage ditches from Main Mfg. Area to New River (Active - VPDES permit and SWPP)
- MU-3 Abandoned Buildings at Increment Area No.3
 - red conductive paint and shallow soil
 - drainage ditches near abandoned buildings at Increment Area No. 3
- MU-4 TNT/DNT Plant Area (Active Area)
 - site of May 1974 explosion
- MU-5 Nitroglycerin Facility (Active Area)
 - site of 1993 explosion
- MU-6 Oleum Plant Area
- MU-7 Buildings and/or demolition debris with exposed red conductive flooring material. For example, Building 9358-4.

~~MU-8 Discarded munitions along the New River from testing at the Ballistics range.~~

~~MU-9 Automated single base area (abandoned) (Section 3 - SSA 21)~~

5. **The following SWMUs/AOCs are related by Virginia Department of Environmental Quality (VDEQ) under its Hazardous Waste Regulations or Solid Waste Regulations. Cleanup of these SWMUs/AOCs, (if necessary) will be coordinated by both EPA and VDEQ.**

- SWMU-10 Bio-plant Basin (Post-closure Care Permit)
- ~~SWMU-13 Waste Propellant Burning Ground~~
- SWMU-26 Fly Ash Landfill #1 (Closed as Permit 399)
- SWMU-27 CaSO₄ Treatment/Disposal Area (Closed as Permit 353/Post-closure Care)
- SWMU-28 Closed Sanitary Landfill (Closed as Permit 401)
- SWMU-29 Fly Ash Landfill #2 (Closed as Permit 353/Post-closure Care)
- SWMU-32 Inert Landfill #1 (Closed as Permit 400)
- SWMU-52 Closed Sanitary Landfill (Closed as Permit 401)
- SWMU-53 Activated Carbon Disposal Area (Closed as Permit 353/Post Closure Care)
- SWMU 74 Inert Landfill #3 (Active - SWP 433)
- HWMU-4 Surface Impoundment #4 (Clean-closed - Aug 16, 2007)
- HWMU-5 Surface Impoundment #5 (Post-closure Care Permit)
- HWMU-7 Surface Impoundment #7 (Clean-closed - 2009)

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HWMU-13 Waste Propellant Burning Ground (Subpart X Permit)
HWMU-16 Hazardous Waste Landfill (Post-closure Care Permit)
HWMU-39 Incinerator Spray Pond adjacent to SWMU-39 (Clean-closed - Nov 13,
2007)
Hazardous Waste Incinerator (Subpart O Permit)

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Attachment A
Unit Status

Location	Description	Addressed Under Other Program ¹	Current Site Status					Final Action		
			SSP	RFI/CMS	IM	LTM	MNA	LUC	NFA	
SWMUs										
SWMU 6	Acid Wastewater Lagoon		●							●
SWMU 8	CaSO ₄ Treatment/Disposal Area		●							●
SWMU 9	CaSO ₄ Treatment/Disposal Area									
SWMU 13	Area Outside OBG		●	○						
SWMU 17	Air Curtain Destructor and Open Burning (Active)									
SWMU 31	Ground Coal Ash Settling Lagoons			○						
SWMU 35	CaSO ₄ Treatment/Disposal Area		●	○						
SWMU 36	CaSO ₄ Drying Bed		●							●
SWMU 37	CaSO ₄ Treatment/Disposal Area		●	○						
SWMU 38	CaSO ₄ Treatment/Disposal Area		●	○						
SWMU 39	Wastewater Ponds from Propellant Incinerator			●	○					
SWMU 40	Landfill Nitro Area			○						
SWMU 41	Red Water Ash Burial Ground			○						
SWMU 43	Sanitary Landfill #2			○						
SWMU 45	Landfill #3		○							
SWMU 46	Propellant Burial		●							●
SWMU 48	Oily Water Burial Area			○						
SWMU 49	Red Water Ash Burial #2			○						
SWMU 50	CaSO ₄ Treatment/Disposal Area			○						
SWMU 51	TNT Waste Neutralization Pits			●	○					
SWMU 54	Propellant Burning Ash Disposal Area			●						
SWMU 57	Pond by Building 4931/4932		●	○						
SWMU 58	Rubble Pile			●						●
SWMU 59	Bottom Ash Pile			○						
SWMU 61	Mobile Waste Oil Tanks									
SWMU 68	Chromic Acid Treatment Plant Tanks		●							●
SWMU 69	Pond by Chromic Acid Treatment Plant Tanks		●							●
SWMU 71	Flash Burn Parts Area			○						
SWMU 75	Waste Oil Underground Storage Tanks (Inert Gas Plant)		●							●
SWMU 76	Waste Oil Underground Storage Tanks		●							●
AOCs										
AOC A	Nitrocellulose Rainwater Ditch		●	○						
AOC F	Former Drum Storage Area		●							●
AOC O	Underground Fuel Oil Spill			○						
AOC P	Battery Storage Area			○						
AOC Q	CaSO ₄ Treatment/Disposal Area		●	○						
AOC Bldg 4343	Former Cadmium Plating Facility			●	●					●
AOC FLFA	Former Lead Furnace Area			○						

Location	Description	Addressed Under Other Program ¹	Current Site Status					
			SSP	RFI/CMS	IM	Final Action		
						LTM	MNA	LUC
SSAs								
SSA 2	TNT Wastewater Equalization Basin (Active)	o						
SSA 3	TNT Wastewater Treatment Unit (Active)	o						
SSA 11	Nitroglycerin 1 Pretreatment Plant (Active)	o						
SSA 12	Nitroglycerin 2 Pretreatment Plant (Active)	o						
SSA 18	Sulfuric Acid Recovery Plant - Waste Acid Treatment		o					
SSA 19	The A-B Line Acidic Wastewater Treatment Plant (Active)	o						
SSA 20	C Line Acidic Wastewater Treatment Plant	o						
SSA 21	Continuous Automated Single-Base Line							
SSA 22	Wastewater Holding Lagoons							
SSA 23	Wastewater Holding Lagoons							
SSA 24	Wastewater Holding Lagoons							
SSA 25	Wastewater Holding Lagoons							
SSA 30	Asbestos Disposal Trench No. 1		o					
SSA 33	Treatment Plant for Solids from Wastewater Treatment (Active)	o						
SSA 34	Treatment Plant for Solids from Wastewater Treatment (Active)	o						
SSA 55	Sewage Treatment Plant (Northeast Section) (Active)	o						
SSA 56	Sewage Treatment Plant (Northwest Section) (Active)	o						
SSA 60	Rubble Pile East of Administration Building		o					
SSA 63	C-Line Boiling Tub House Settling Pits (Active)	o						
SSA 64	Nitrocellulose C-Line Collection Sump (Active)	o						
SSA 65	Nitrocellulose A-B Line Acidic Water Settling Pits (Active)	o						
SSA 66	Nitrocellulose A-B Line Neutral Water Settling Pits (Active)	o						
SSA 67	Main Acid Sewer Sumps (Active)	o						
SSA 70	Heavy Equipment Maintenance Shop Tractor Steam Cleaning Area							
SSA 72	Oleum Plant Acidic Wastewater Sump		o					
SSA 73	Main Lab Waste Container Storage Area (Active)	o						
SSA 77	Garbage Incinerator		o					
SSA 78	Rubble Pile Southwest of Unit 51	o						
SSA 79	Asbestos Disposal Trench No. 2		o					
SSA 80	Drainage Ditch for C-Line Wastewater Treatment and Plant Runoff (Active)	o						
SSA 81	Red Water Treatment Plant (Active)	o						
MUS								
MU-1	Sewer Systems (submitted 1/2003)							
MU-2	Drainage Ditches (including tributaries of Stroubles Creek) (Active)	•						
MU-3	Abandoned Building at Increment Area No. 3							
MU-4	TNT/DNT Plant Area (Active)							
MU-5	Nitroglycerin Facility (Active)							
MU-6	Oleum Plant Area							
MU-7	Buildings / Demolition Debris with exposed red conductive flooring material							

**Attachment A
Unit Status**

Location	Description	Addressed Under Other Program ¹	Current Site Status				Final Action			
			SSP	RF/CMS	IM	LTM	MNA	LUC	NFA	
VDEQ										
SWMU 10	Bio-Plant Basin	○								
SWMU 26	Fly Ash Landfill #1	●								
SWMU 27	CaSO ₄ Treatment/Disposal Area	○								
SWMU 28	Closed Sanitary Landfill	●								
SWMU 29	Fly Ash Landfill #2	○								
SWMU 32	Inert Landfill #1	●								
SWMU 52	Closed Sanitary Landfill	●								
SWMU 53	Activated Carbon Disposal Area	○								
SWMU 74	Inert Landfill #3 (Active)	○								
HWMU 4	Surface Impoundment #4	●								
HWMU 5	Surface Impoundment #5	○								
HWMU 7	Surface Impoundment #7	●								
HWMU 13	Waste Propellant Burning Ground (Active)	○								
HWMU 16	Hazardous Waste Landfill	○								
HWMU 39	Incinerator Spray Pond adjacent to SWMU 39	●								
	Hazardous Waste Incinerator (Active)	○								

Notes:

SWMU = Solid Waste Management Unit
 AOC = Area of Concern
 SSA = Site Screening Area
 MU = Miscellaneous Unit
 HWMU = Hazardous Waste Management Unit
 (Active) = Site Currently Active
 VDEQ = SWMU/AOC is related by Virginia Department of Environmental Quality under its Hazardous Waste Regulations. Cleanup of these SWMUs/HWMUs (if necessary) will be coordinated by both EPA and VDEQ.
 SSP = Site Screening Process
 RF/CMS = RCRA Facility Investigation/Corrective Measures Study
 IM WP = Interim Measures Workplan
 LTM = Long-Term Monitoring
 MNA = Monitored Natural Attenuation
 LUC = Land Use Controls
 NFA = No Further Action

¹ = Site regulated under other program (i.e., VPDES, SDWA, etc.) see Attachment A list for specific program information

○ = Underway
 ● = Action Complete