

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVAL
0.2	First draft for onsite verification	06/12/24	no
0.9	Final draft for external review	11/12/24	internal

Acid Process baths dump to TT33 for offhaul  
Alkali Process baths dump to TT34 for offhaul  
General line floor waters SS21 are pumped to TT31  
TT31 is pumped through the treatment plant to outfall  
General line rinses overflow to SS15  
SS15 is pumped through ion exchange back to the cleaning bay

Chromate & permanganate baths & floor waters SS12 dump to TT29 which pumps through the treatment plant to outfall  
Permanganate SS7 & chromate SS13 rinses are pumped through ion exchange back to the cleaning bay

NDT baths and floor waters SS28 dump to TT35 for offhaul (bright yellow)  
NDT rinses SS22 are pumped through ion exchange back to the cleaning bay (pale yellow)

Cadmium baths and floor waters SS14 dump to TT36 for offhaul  
Cadmium rinses from SS1 pump through ion exchange then through the treatment plant to outfall

Cleaning bay sumps and tank farm tanks – contents and destinations – as designed					
Sump	Contents	Destination	Tank Farm Tank	Contents	Destination
SS1	Cadmium rinses	Outfall	TT29	Chromate & permanganate baths & floor waters	Outfall
SS7	Permanganate rinses	Cleaning bay	TT30	Cadmium regenerants	TT36
SS12	Chromate & permanganate baths & floor water	Outfall	TT31	General line floor waters	Outfall
SS13	Chromate rinses	Cleaning bay	TT32	NDT regenerants	Outfall
SS14	Cadmium baths & floor waters	TT36 -> Offhaul	TT33	Acid baths	Offhaul
SS15	General rinses	Cleaning bay	TT34	Alkali baths	Offhaul
SS21	General floor waters	TT31 -> Outfall	TT35	NDT baths & floor waters	Offhaul
SS22	NDT rinses	Cleaning bay	TT36	Cadmium baths & floor waters	Offhaul
SS28	NDT baths & floor waters	TT35 -> Offhaul			

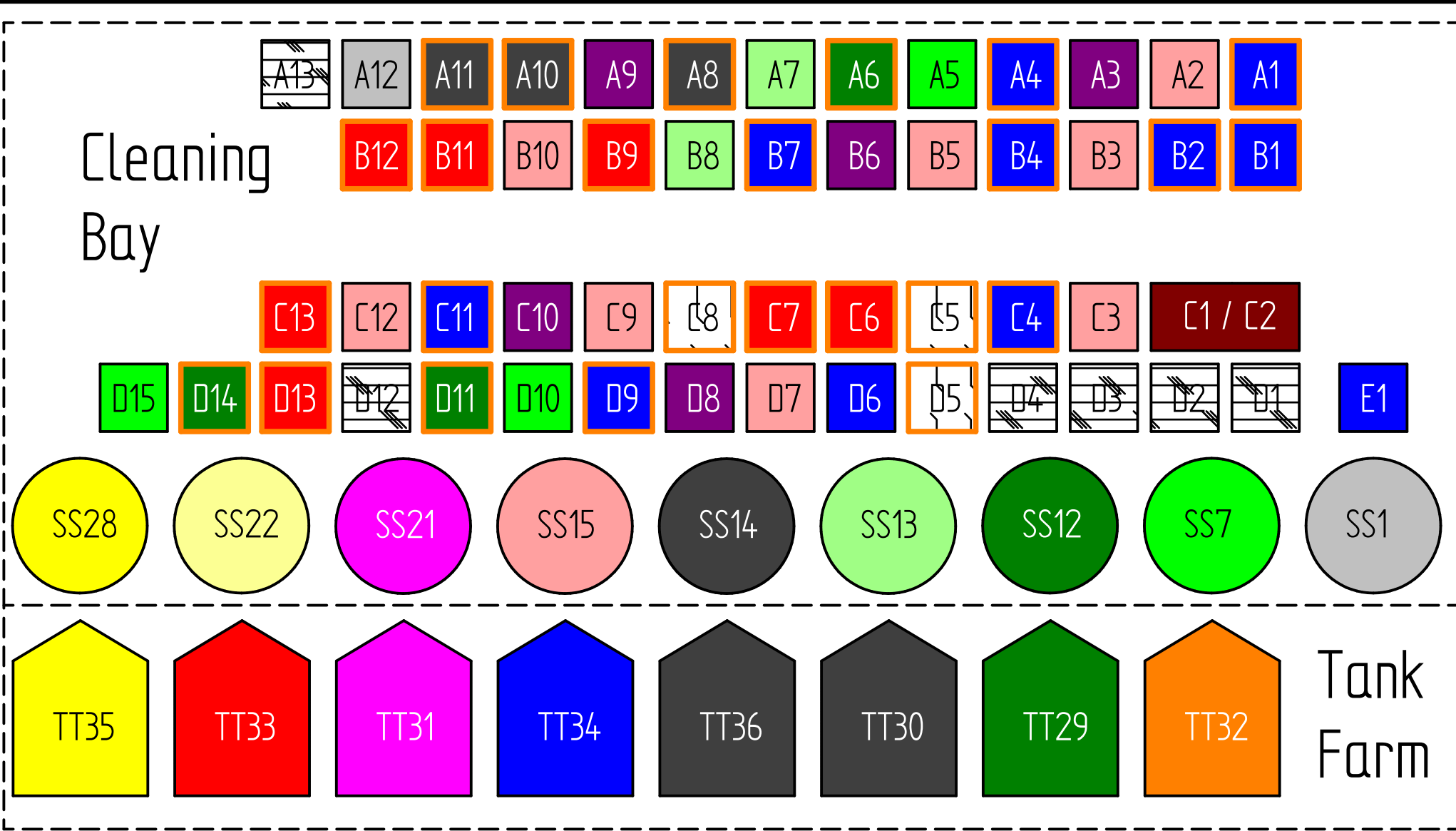
Safety showers shown in purple

Drying oven shown in brown

Baths A13, D1, D2, D3, D4, D12 not in use  
Baths C5, C8, D5 do not have low level drains

Extracted baths outlined orange

	NAME	DATE	ClearwaterConsortium		
DRAWN	Al Bailey	05/12/24			
CHECKED	Al Purser	12/12/2024	TITLE Fluid path schematic as per design		
ENG APPR					
MGR APPR			SIZE A3   DWG NO TCG-4322-601   REV 0.9 FILE NAME: Cleaning bay overview.dft Approved for external distribution		
SCHEMATIC					
NOT TO SCALE					



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Acid Process baths dump to TT34 for offhaul  
Alkali Process baths dump to TT33 for offhaul  
General line floor waters SS21 are pumped to TT31  
TT31 is pumped through the treatment plant to outfall  
General line rinses overflow to SS15  
SS15 is pumped through ion exchange back to the cleaning bay

Chromate & permanganate baths & floor waters SS12 dump to TT29 which pumps through the treatment plant to outfall  
Permanganate SS7 & chromate SS13 rinses bypass ion exchange and run through the treatment plant to outfall.

NDT baths and floor waters SS28 dump to TT35 for offhaul (bright yellow)  
NDT rinses SS22 are pumped through ion exchange back to the cleaning bay (pale yellow)

Cadmium baths and floor waters SS14 dump to TT36 for offhaul  
Cadmium rinses from SS1 pump through ion exchange then through the treatment plant to outfall

Safety showers shown in purple

Drying oven shown in brown

Cleaning bay sumps and tank farm tanks - contents and destinations - as operating December 2024					
Sump	Contents	Destination	Tank Farm Tank	Contents	Destination
SS1	Cadmium rinses	Outfall	TT29	Chromate & permanganate baths & floor waters	Outfall
SS7	Permanganate rinses	Outfall	TT30	Cadmium regnerants	TT36
SS12	Chromate & permangante baths & floor water	Outfall	TT31	General line floor waters	Outfall
SS13	Chromate rinses	Outfall	TT32	NDT regenerants	Outfall
SS14	Cadmium baths & floor waters	TT36 -> Offhaul	TT33	Acid baths	Offhaul
SS15	General rinses	Cleaning bay	TT34	Alkali baths	Offhaul
SS21	General floor waters	TT31 -> Outfall	TT35	NDT baths & floor waters	Offhaul
SS22	NDT rinses	Outfall	TT36	Cadmium baths & floor waters	Offhaul
SS28	NDT baths & floor waters	TT35 -> Offhaul			

		NAME	DATE	ClearwaterConsortium	
DRAWN		Al Bailey	05/12/24		
CHECKED		Al Purser	12/12/2024	TITLE	
ENG APPR					
MGR APPR				Fluid path schematic as operating Dec 24	
SCHEMATIC			SIZE	DWG NO	REV
			A3	TCG-4322-602	0.9
			FILE NAME: Cleaning bay overview.dft		
NOT TO SCALE			Approved for external distribution		