

Work Order Number:

01780374

01780374

**Title: MONITORING OF CLOSED WASTE TANKS FOR HTF
AND FTF**

Task #'s

APPROVED

MSR's:

Work Group #: ENG

CLI #: ----

Functional Class:

Planner: GUILFOYLE, MARK JAMES JR

Comment



Work Order Package

MC11

Date

5/28/20

Safety Class



0178037401

Work Order 01780374 **Task** 01

Facility	FTF	F-TANK FARM	
Unit		Project	
Work Order Type	PM	Priority	3B
WO Discipline	A	Written To	MONITORING OF CLOSED WASTE TANKS
WO Planner	D0931	WO Planner Name	BURNS G
Task Planner	G2639	Task Planner Name	GUILFOYLE M J
Work Order Title	MONITORING OF CLOSED WASTE TANKS FOR HTF AND FTF	Task Title	MONITORING OF CLOSED WASTE TANKS FOR HTF AND FTF

Work Order Task Written To

Job Type	OT	User Defined	
Facility	FTF	Unit	
System Code		Area	
Equipment Type		Component Type	
Equipment Number		Component Number	
Work Item	MONITOR CLOSED TANK	Equipment List	
UTC		Alternate Tag	
Equipment Tag		UTC Sub Type/Desc	
Client/Account		Maint PGMs	
Location			
UTC Eqpt Type			
CLI			

Crews

ENG

APPROVED

Work Order Package

Work Order 01780374 Task 01

Nuclear Information

RWP Required		NCR
TS/SLC Related	N	Tech Spec Date/Time
Tech Spec Action		Q Group
LCO		

Work Order Task Instructions

Identify conditions that would lead to loss of integrity or long-term structural strength of the closed tank (as assumed in the performance assessment) that would compromise stabilization and containment of the residual waste (See attached checklist).

This inspection is performed by the RM&A and WDA groups and is required per the requirements of FTF / HTF General Closure Plans (LW0-RIP-2009-00009 and SRR-CWDA-2011-00022).

The point of contact is Kent Rosenberger, 557-9328, Building 705-1C.

Rework/Approval

Deficiency Tag	Location
Tag Removed	Rework N
Rework Comment	

QC Requirements/Comments

none

Documents added to work package in field:

Check box if added document is to be retained as part of Work Pkg record.

Closed Waste Tank Inspection Checklist For Tanks 5,6,12,16,17,18,19,20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Work Order Package

Work Order 01780374 Task 01

Trouble Found/Work Performed

PM Completion Readings: _____ Miles _____ Hours _____
 Continue on additional sheets? _____

Print Report - Work Order Documents (M102/M104)

Facility	Type	Sub-Type	Document Number	Sheet	Image Address
FTF	DOC		INSP COVER SHEET & CHECKLIST		
	Title		INSPECTION COVER SHEET & CHECKLIST		
FTF	WI		01400397-01		
	Title		WORK INSTRUCTIONS		

References/Document Information (M102/M104)

Facility	Type	Sub-Type	Document Number	Sheet	Image	N
FTF	DOC		INSP COVER SHEET & CHECKLIST			
	Title		INSPECTION COVER SHEET & CHECKLIST		Image	N
FTF	DOC		LWO-RIP-2009-00009			
	Title		GENERAL CLOSURE PLAN FOR FTF		Image	N
FTF	DOC		ORIGINAL CLOSED TANK INSP. DOC			
	Title		ORIGINAL CLOSED TANK INSPECTION DOCUMENTS & FORMS		Image	N
FTF	WI		01400397-01			
	Title		WORK INSTRUCTIONS		Image	N
HTF	DOC		SRR-CWDA-2011-00022			
	Title		GENERAL CLOSURE PLAN FOR HTF		Image	N

Work Order Package

Work Order

01780374

Task

01

* * *

End of Report

* * *

Work Order No: 01400397 - 01

Work Order Title: MONITORING OF CLOSED WASTE TANKS FOR HTF AND
FTF

Rev: 0

Asset Suite Information

Date Created 03/21/2019
Planner Name Burns, Gary
Planner Telephone
Equipment Name MONITORING OF CLOSED WASTE TANKS
Facility FTF
CLI Number
Functional Class

1.0 Scope of Work:

Identify conditions that would lead to loss of integrity or long-term structural strength of the closed waste tank (as assumed in the applicable performance assessment) that would compromise stabilization and containment of the residual waste.

AHA Number: N/A		Documents: LWO-RIP-2009-00009 and SRR-CWDA-2011-00022			
Pre Job Briefing Checklist: OPS-SO-LWO.01		Procedure: N/A			
SRWP	<input checked="" type="checkbox"/>	OR	Job Specific RWP	Calibration Datasheet: N/A	
Permits: SC1 890 008 898		ASME B31.3:	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No
Fluid Service: N/A					
Additional Attachments: Closed Waste Tank Annual Inspection Checklist Cover Sheet & Checklist					

2.0 Precautions and Limitations:

- 2.1. Workers shall perform Individual Hazard Analysis (IHA) for this task, which includes continual self-analysis of work scope, hazards and controls (reference Savannah River Site General Employee Basic Hazard Control Handbook).
- 2.2. A Time Out shall be initiated, FLM shall be notified and/or the work package returned to planning for problems or conditions encountered that are not anticipated or covered under the AHA or associated permits, or the boundaries/scope of work change as the job progresses.

Closed Waste Tank Annual Inspection Checklist

Additional Information to Support the Closed Waste Tank Annual Inspection Checklist

Area of Inspection	Waste Tank Feature of Concern	Condition of Concern (i.e., expected to have potential impact on waste tank modeling)
Excessive cracking or openings in riser caps or tank top	Tank Top Integrity	Cracks in riser caps and/or the waste tank should be minimized such that water infiltration through the tank top is not significantly increased.
Evidence of waste tank elevation changes	Tank Concrete/ Tank Grout Stability	Substantive waste tank elevation changes (sinking or lifting) could result in cracks forming in the Tank Concrete and/or the Tank Grout.
Washed out/eroded soil or sink holes near tank tops	Tank Top Integrity	Washed out/eroded soil or sink holes near tank tops should be minimized such that water infiltration through or mean the tank top is not significantly increased.
Excessive accumulation of water on tank tops	Tank Concrete/ Tank Grout Stability	Inadequate drainage or stormwater system degradation could lead to increased degradation in the Tank Concrete and/or the Tank Grout.
Unstable tank top structure/component	Tank Top Integrity	Structure/component with potential to fail and damage tank top.
Excessive vegetation	Tank Top Integrity	Vegetation should not be allowed to impact the tank top such that water infiltration through the tank top would be significantly increased (e.g., substantial root infiltration).
Indication of leakage of grout material out of risers or waste tank (discoloration or staining)	Tank Grout Stability	Leakage of grout material out of risers or waste tank could be indicative of grout degradation.

3.0 Prerequisites:

3.1. RM&A/FLM: **PERFORM** a pre-job briefing per OPS-SO-LWO.01.

3.2. RM&A: **NOTIFY** Shift Manager prior to performing work. 8-8936

3.3. RM&A: **NOTIFY** RPD prior to performing work. 2-3536
8-8949

3.4. RM&A: **DETERMINE** which waste tanks have been operationally closed and require an inspection below:

- | | | | | | | | | | | | |
|-------------------------------------|----|-------------------------------------|----|--------------------------|----|-------------------------------------|----|-------------------------------------|----|-------------------------------------|----|
| <input type="checkbox"/> | 1 | <input type="checkbox"/> | 2 | <input type="checkbox"/> | 3 | <input type="checkbox"/> | 4 | <input checked="" type="checkbox"/> | 5 | <input checked="" type="checkbox"/> | 6 |
| <input type="checkbox"/> | 7 | <input type="checkbox"/> | 8 | <input type="checkbox"/> | 9 | <input type="checkbox"/> | 10 | <input type="checkbox"/> | 11 | <input checked="" type="checkbox"/> | 12 |
| <input type="checkbox"/> | 13 | <input type="checkbox"/> | 14 | <input type="checkbox"/> | 15 | <input checked="" type="checkbox"/> | 16 | <input checked="" type="checkbox"/> | 17 | <input checked="" type="checkbox"/> | 18 |
| <input checked="" type="checkbox"/> | 19 | <input checked="" type="checkbox"/> | 20 | <input type="checkbox"/> | 21 | <input type="checkbox"/> | 22 | <input type="checkbox"/> | 23 | <input type="checkbox"/> | 24 |
| <input type="checkbox"/> | 25 | <input type="checkbox"/> | 26 | <input type="checkbox"/> | 27 | <input type="checkbox"/> | 28 | <input type="checkbox"/> | 29 | <input type="checkbox"/> | 30 |
| <input type="checkbox"/> | 31 | <input type="checkbox"/> | 32 | <input type="checkbox"/> | 33 | <input type="checkbox"/> | 34 | <input type="checkbox"/> | 35 | <input type="checkbox"/> | 36 |
| <input type="checkbox"/> | 37 | <input type="checkbox"/> | 38 | <input type="checkbox"/> | 39 | <input type="checkbox"/> | 40 | <input type="checkbox"/> | 41 | <input type="checkbox"/> | 42 |
| <input type="checkbox"/> | 43 | <input type="checkbox"/> | 44 | <input type="checkbox"/> | 45 | <input type="checkbox"/> | 46 | <input type="checkbox"/> | 47 | <input type="checkbox"/> | 48 |
| <input type="checkbox"/> | 49 | <input type="checkbox"/> | 50 | <input type="checkbox"/> | 51 | | | | | | |

3.5. RM&A: **IF** an inspection was performed on a tank the previous year, **THEN**

RETRIEVE the closed waste tank annual inspection task document and associated photographs from the previous year, from the Liquid Waste Organization Document Library (LWO DL).

4.0 Task Performance:

Initial/Date

4.1. RM&A/WDA: **PERFORM** a walk down, **AND**

Visually INSPECT each respective tank top and surrounding area.

PAM | 6/16/20

4.2. WDA: **IF** available, **THEN**

COMPARE photographs from the previous year to the current condition of the tank top.

PAM | 6/16/20

4.3. WDA: **ASSESS** the condition of previous findings.

PAM | 6/16/20

4.4. RM&A /WDA: **TAKE** photographs of the tank top and any unsatisfactory conditions.

BAM | 6/16/20

4.5. RM&A/WDA: **COMPLETE** the Closed Waste Tank Annual Inspection Coversheet & Checklist (i.e., cover sheet and an inspection checklist for each closed waste tank).

PAM | 6/16/20

4.5.1. RM&A: **ATTACH** photographs to the appropriate inspection checklist.

PAM | 6/16/20

4.6. RM&A: **ASSIGN** the completed Closed Waste Tank Annual Inspection Cover Sheet and Checklist(s) a single LWO DL document number (guidance provided by the library help), **THEN**

SELECT "C&WDA" for the "Organization" field, **AND**

INCLUDE the inspection year as the first characters in the "Title" field.

PAM | 7/1/20

4.7. RM&A: **RETAIN** the completed Closed Waste Tank Annual Inspection Checklist Cover Sheet and Checklist(s) as a Tank Farm Area Specific document per procedure S4-ADM.55, *Tank Closure Wallet (TCW) Documentation Process*.

PAM | 7/1/20

5.0 Post Maintenance Testing & Return to Service:

N/A

6.0 Post Work & Feedback:

Initial/Date

6.1. RM&A: **NOTIFY** work control that the closed waste tank annual inspection task is complete, **AND**

RETURN the completed Closed Waste Tank Annual Inspection Checklist Cover Sheet and Checklist(s) documentation.

BGM / 7/1/20

6.2. RM&A: **ENTER** any feedback including field revisions and recommendations for improvements for future work in Passport **OR** NA if no feedback applies (CO Comments - Mechanic Feedback to be addressed by Work Control).

BGM / 7/1/20

Note: The following Steps 6.3.1 through 6.3.5 **SHALL** only be performed if unsatisfactory conditions are found. If all conditions are satisfactory these steps can be N/A'd.

6.3. RM&A /WDA: **ASSIGN** a corrective action for any unsatisfactory condition as detailed below:

6.3.1. RM&A: **ENTER** the information required by the STAR system (guidance provided by the system) and include an appropriate due date.

N/A /

6.3.2. RM&A: **ATTACH** photographs that substantiate the unsatisfactory condition.

N/A /

6.3.3. RM&A: **INSERT** the STAR unique identifier in the appropriate location on the appropriate inspection checklist.

N/A /

6.3.4. RM&A: **ATTACH** the necessary electronic files required by the STAR system (e.g., copy of the inspection checklist affected, screen shot of the work request, Request for Engineering Assistance (REA), Nonconformance Report (NCR).

N/A /

6.3.5. RM&A: **IF** the unsatisfactory condition and planned corrective action cannot be remediated within 30 days, **THEN**

NOTIFY SCDHEC and EPA within 30 days of identification

N/A /

Closed Waste Tank Annual Inspection Checklist Cover Sheet

Inspection Year: 2020

Number of pages in document including cover page:

36

Date: 6/20/20 Rev: ∅

Work Order Package Number: 01780374 - 01

Preventive Maintenance Number: PMID 68926

Completed inspection checklists are included in this document for the waste tanks selected below:

- | | | | | |
|---------------------------------------|--|-----------------------------|-----------------------------|-----------------------------|
| <input type="checkbox"/> 1 | <input type="checkbox"/> 11 | <input type="checkbox"/> 21 | <input type="checkbox"/> 31 | <input type="checkbox"/> 41 |
| <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> 12 | <input type="checkbox"/> 22 | <input type="checkbox"/> 32 | <input type="checkbox"/> 42 |
| <input type="checkbox"/> 3 | <input type="checkbox"/> 13 | <input type="checkbox"/> 23 | <input type="checkbox"/> 33 | <input type="checkbox"/> 43 |
| <input type="checkbox"/> 4 | <input type="checkbox"/> 14 | <input type="checkbox"/> 24 | <input type="checkbox"/> 34 | <input type="checkbox"/> 44 |
| <input checked="" type="checkbox"/> 5 | <input type="checkbox"/> 15 | <input type="checkbox"/> 25 | <input type="checkbox"/> 35 | <input type="checkbox"/> 45 |
| <input checked="" type="checkbox"/> 6 | <input checked="" type="checkbox"/> 16 | <input type="checkbox"/> 26 | <input type="checkbox"/> 36 | <input type="checkbox"/> 46 |
| <input type="checkbox"/> 7 | <input checked="" type="checkbox"/> 17 | <input type="checkbox"/> 27 | <input type="checkbox"/> 37 | <input type="checkbox"/> 47 |
| <input type="checkbox"/> 8 | <input checked="" type="checkbox"/> 18 | <input type="checkbox"/> 28 | <input type="checkbox"/> 38 | <input type="checkbox"/> 48 |
| <input type="checkbox"/> 9 | <input checked="" type="checkbox"/> 19 | <input type="checkbox"/> 29 | <input type="checkbox"/> 39 | <input type="checkbox"/> 49 |
| <input type="checkbox"/> 10 | <input checked="" type="checkbox"/> 20 | <input type="checkbox"/> 30 | <input type="checkbox"/> 40 | <input type="checkbox"/> 50 |
| | | | | <input type="checkbox"/> 51 |

Closed Waste Tank Annual Inspection Checklist

Closed Waste Tank Annual Inspection Checklist for Waste Tank Number: 5

Work Order Package Number: 01780374-01 Date: 5/28/20 ^{BGM}
~~3/21/19~~ Rev: Ø

Personnel in Attendance (print name/organization/signature):

Bruce Martin WDA / B-G M / /
Mark Layton / WPA / ML / /
Brittany Brush / WDA / BB / /

Date of Inspection:	SAT	UNSAT	Description	Corrective Action	Due Date
<u>16 BGM</u> <u>6/4/2020</u>					
Excessive cracking or openings in riser caps or tank top	BGM ML				
Evidence of waste tank elevation changes (sinking or lifting)	BGM ML				
Washed out/eroded soil or sink holes near tank tops	BGM ML				
Excessive accumulation of water on tank tops. Evidence of inadequate drainage or stormwater system degradation.	BGM ML				
Unstable structure/component with potential to fail and damage tank top	BGM ML				
Excessive vegetation	BGM ML				
Indication of leakage of grout material out of risers or waste tank (discoloration or staining)	BGM ML				
Other evidence of degradation	BGM ML				

Comments:

No change.

Tank 5, Riser 1



Tank 5, Riser 2



Tank 5, Riser 3



Tank 5, Riser 4



Tank 5, Riser 5



Tank 5, Riser 6



Tank 5, Riser 7



Tank 5, Riser 8



Closed Waste Tank Annual Inspection Checklist Photos

Tank 5, Center Riser



Tank 5, South Annulus Riser



Tank 5, West Annulus Riser



Tank 5, North Annulus Riser



Tank 5, East Annulus Riser



Closed Waste Tank Annual Inspection Checklist

Closed Waste Tank Annual Inspection Checklist for Waste Tank Number: 6

Work Order Package Number: 01780374-01

Date: ~~3/21/19~~ 5/28/20 BGM Rev: Ø

Personnel in Attendance (print name/organization/signature):

Bruce Martin WDA / BGM / /
Mark Layton / WDA / MHL / /
Brittany Brush / WDA / BGM / /

Date of Inspection:	SAT	UNSAT	Description	Corrective Action	Due Date
<u>6/16/2020 BGM</u>					
Excessive cracking or openings in riser caps or tank top	BGM MHL				
Evidence of waste tank elevation changes (sinking or lifting)	BGM MHL				
Washed out/eroded soil or sink holes near tank tops	BGM MHL				
Excessive accumulation of water on tank tops. Evidence of inadequate drainage or stormwater system degradation.	BGM MHL				
Unstable structure/component with potential to fail and damage tank top	BGM MHL				
Excessive vegetation	BGM MHL				
Indication of leakage of grout material out of risers or waste tank (discoloration or staining)	BGM MHL				
Other evidence of degradation	BGM MHL				

Comments:

No Change

Tank 6, Riser 1



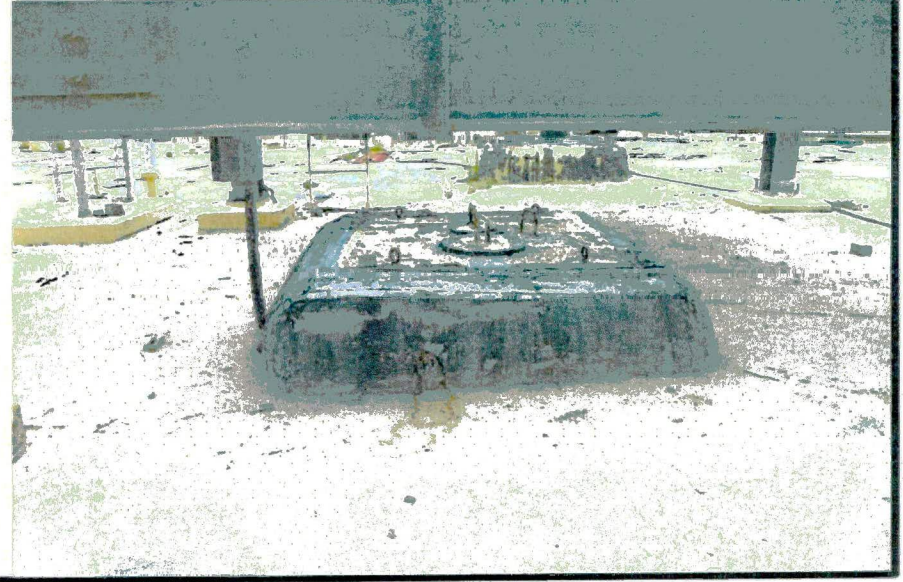
Tank 6, Riser 2



Tank 6, Riser 3



Tank 6, Riser 4



Closed Waste Tank Annual Inspection Checklist Photos

Tank 6, Riser 5



Tank 6, Riser 6



Tank 6, Riser 7



Tank 6, Riser 8



Tank 6, Center Riser



Tank 6, South Annulus Riser



Tank 6, West Annulus Riser



Tank 6, North Annulus Riser



Tank 6, East Annulus Riser



Closed Waste Tank Annual Inspection Checklist

Closed Waste Tank Annual Inspection Checklist for Waste Tank Number: 12

Work Order Package Number: 01780374-01 Date: 5/28/20 ~~3/21/19~~ Rev: BAM ~~Ø~~

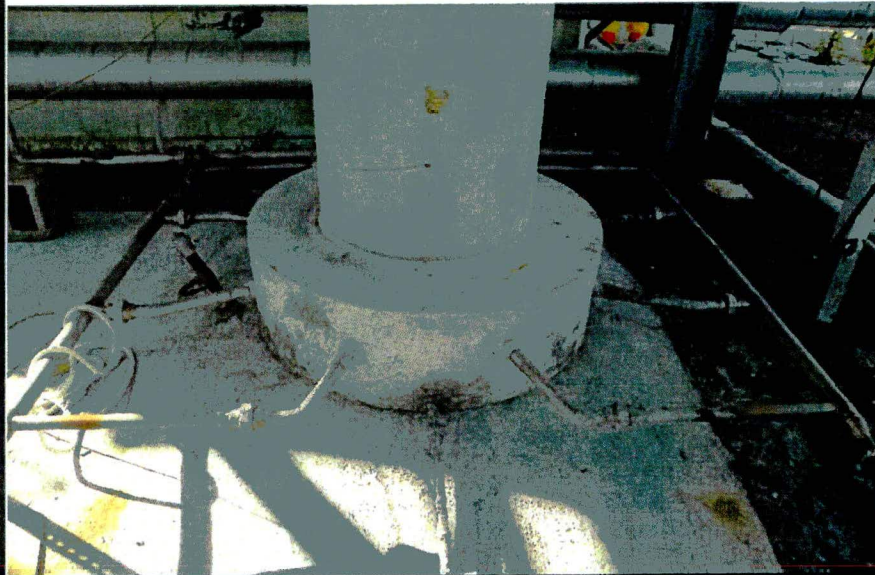
Personnel in Attendance (print name/organization/signature):
Bruce Martin WDA / B-G M & / /
Mark Layton / WPA / [Signature] / /
~~Brittany Bruch / WDA / BAM~~ / /
6/30/20

Date of Inspection:	SAT	UNSAT	Description	Corrective Action	Due Date
<u>9 BAM</u> <u>6/4/2020</u>	<u>BAM</u> <u>Nil</u>		Excessive cracking or openings in riser caps or tank top		
	<u>BAM</u> <u>Nil</u>		Evidence of waste tank elevation changes (sinking or lifting)		
	<u>BAM</u> <u>Nil</u>		Washed out/eroded soil or sink holes near tank tops		
	<u>BAM</u> <u>Nil</u>		Excessive accumulation of water on tank tops. Evidence of inadequate drainage or stormwater system degradation.		
	<u>BAM</u> <u>Nil</u>		Unstable structure/component with potential to fail and damage tank top		
	<u>BAM</u> <u>Nil</u>		Excessive vegetation		
	<u>BAM</u> <u>Nil</u>		Indication of leakage of grout material out of risers or waste tank (discoloration or staining)		
	<u>BAM</u> <u>Nil</u>		Other evidence of degradation		

Comments:
No. change.

Closed Waste Tank Annual Inspection Checklist Photos

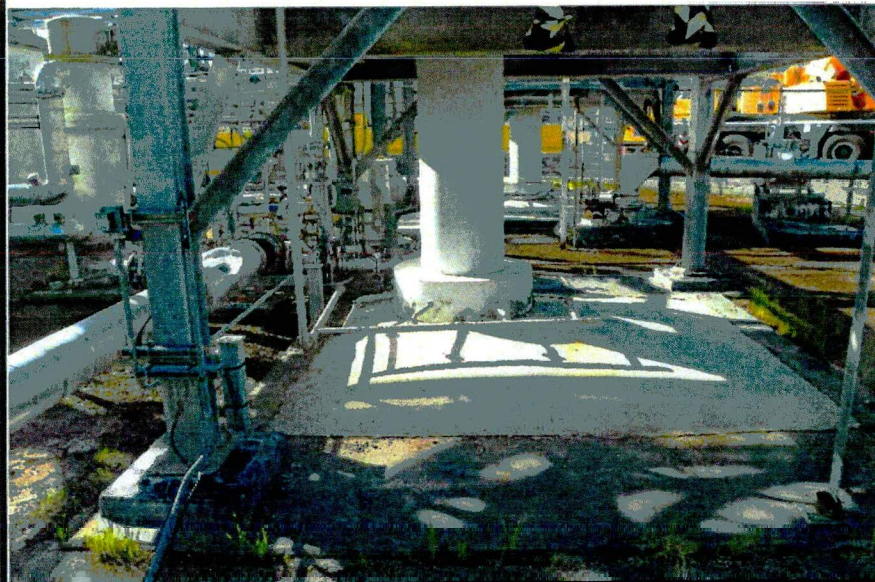
Tank 12, Riser 1



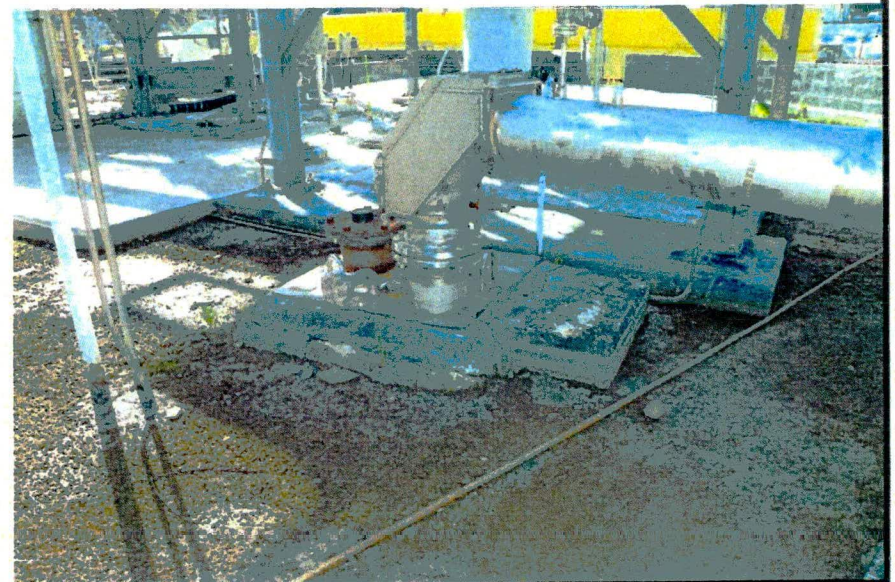
Tank 12, Riser 2



Tank 12, Riser 3



Tank 12, Riser 4



Closed Waste Tank Annual Inspection Checklist Photos

Tank 12, Riser 5



Tank 12, Riser 6



Tank 12, Riser 7



Tank 12, Riser 8

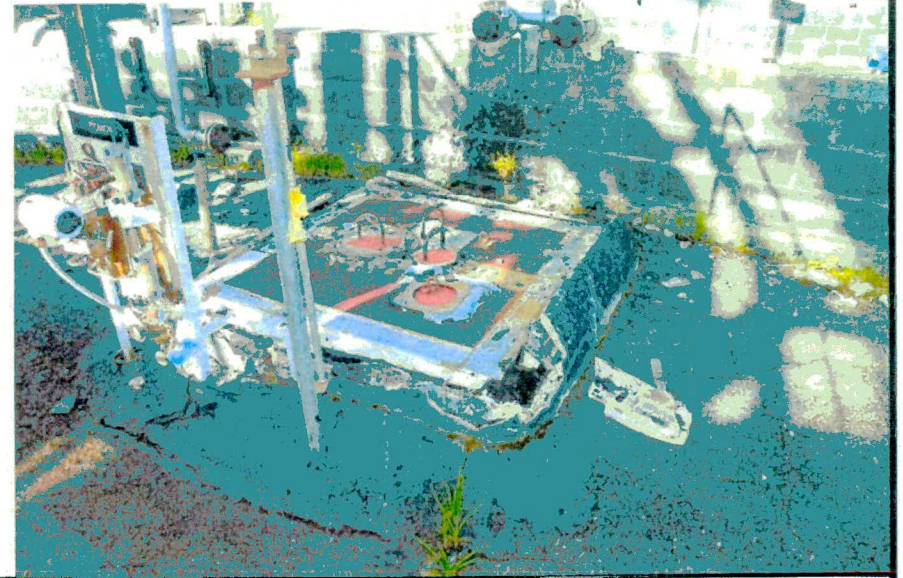


Closed Waste Tank Annual Inspection Checklist Photos

Tank 12, North Annulus Riser



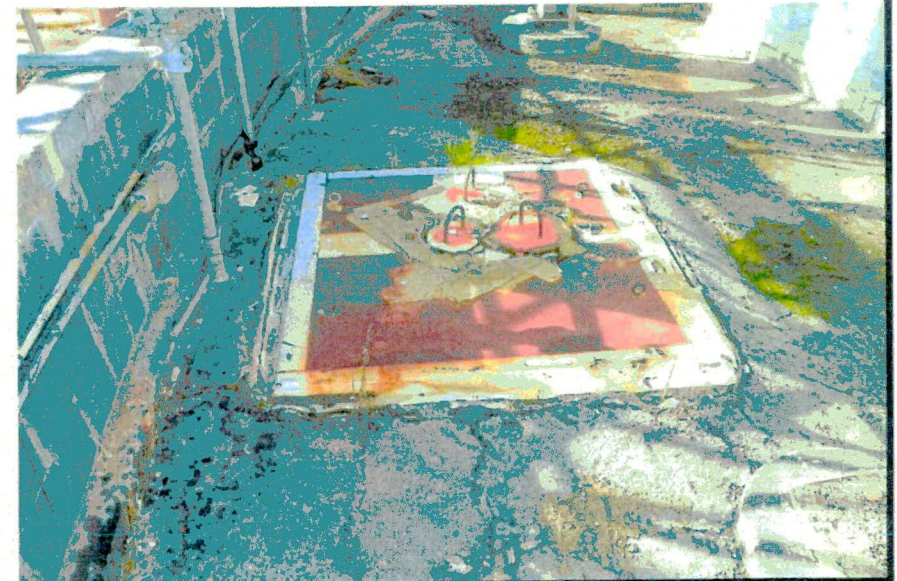
Tank 12, West Annulus Riser



Tank 12, South Annulus Riser



Tank 12, East Annulus Riser



Tank 12, Center Riser



Closed Waste Tank Annual Inspection Checklist

Closed Waste Tank Annual Inspection Checklist for Waste Tank Number: 16

Work Order Package Number: 01780374-01

Date: 5/28/20 ^{pam}
~~3/21/19~~ Rev: Ø

Personnel in Attendance (print name/organization/signature):

Bruce Martin WDA / B. Martin / /
Mark Layton / WPA / ML / /
~~Brittany Brush / WDA / B. Brush~~ / /
6/30/20

Date of Inspection:	SAT	UNSAT	Description	Corrective Action	Due Date
<u>9 13am</u> <u>6/4/2020</u>					
Excessive cracking or openings in riser caps or tank top	<u>13am</u> <u>ML</u>				
Evidence of waste tank elevation changes (sinking or lifting)	<u>13am</u> <u>ML</u>				
Washed out/eroded soil or sink holes near tank tops	<u>13am</u> <u>ML</u>				
Excessive accumulation of water on tank tops. Evidence of inadequate drainage or stormwater system degradation.	<u>13am</u> <u>ML</u>				
Unstable structure/component with potential to fail and damage tank top	<u>13am</u> <u>ML</u>				
Excessive vegetation	<u>13am</u> <u>ML</u>				
Indication of leakage of grout material out of risers or waste tank (discoloration or staining)	<u>13am</u> <u>ML</u>				
Other evidence of degradation	<u>13am</u> <u>ML</u>				

Comments:

No. Charge.

Tank 16, Risers 1 and 2



Tank 16, Riser 2A



Tank 16, Riser 3



Tank 16, Risers 4 and 4A



Closed Waste Tank Annual Inspection Checklist Photos

Tank 16, Risers 5, 6, and 7



Tank 16, Risers 5, 6, and 7



Tank 16, 3' 6" Riser



Tank 16, Riser 8



Tank 16, West Annulus Riser



Tank 16, North Annulus Riser



Tank 16, South Annulus Riser



Tank 16, Inspection Ports 35, 39, and 42



Tank 16, West Annulus Riser



Tank 16, North Annulus Riser



Tank 16, East Annulus Riser



Closed Waste Tank Annual Inspection Checklist

Closed Waste Tank Annual Inspection Checklist for Waste Tank Number: 17

Work Order Package Number: 01780374-01 Date: 5/28/20 BGM Rev: 0
~~3/21/19~~

Personnel in Attendance (print name/organization/signature):
Bruce Martin WDA / BGM / /
Mark Layton / WPA / ML / /
Brittany Brush / WDA / BB / /

Date of Inspection:	SAT	UNSAT	Description	Corrective Action	Due Date
<u>16 BGM</u> <u>6/4/2020</u>					
Excessive cracking or openings in riser caps or tank top	<u>BGM</u> <u>ML</u>				
Evidence of waste tank elevation changes (sinking or lifting)	<u>BGM</u> <u>ML</u>				
Washed out/eroded soil or sink holes near tank tops	<u>BGM</u> <u>ML</u>				
Excessive accumulation of water on tank tops. Evidence of inadequate drainage or stormwater system degradation.	<u>BGM</u> <u>ML</u>				
Unstable structure/component with potential to fail and damage tank top	<u>BGM</u> <u>ML</u>				
Excessive vegetation	<u>BGM</u> <u>ML</u>				
Indication of leakage of grout material out of risers or waste tank (discoloration or staining)	<u>BGM</u> <u>ML</u>				
Other evidence of degradation	<u>BGM</u> <u>ML</u>				

Comments: No change

Closed Waste Tank Annual Inspection Checklist Photos

Tank 17, Southeast Riser



Tank 17, Center Riser (South Side)



Tank 17, Center Riser (North Side)



Tank 17, Southwest Riser (Northwest Corner)



Tank 17, Southwest Riser



Tank 17, West Riser



Tank 17, Northwest Riser



Tank 17, Northeast Riser



Closed Waste Tank Annual Inspection Checklist Photos

Tank 17, East Riser



Closed Waste Tank Annual Inspection Checklist

Closed Waste Tank Annual Inspection Checklist for Waste Tank Number: 18

Work Order Package Number: 01780374-01 Date: 5/28/20 ^{BAM} ~~3/21/19~~ Rev: 0

Personnel in Attendance (print name/organization/signature):
Bruce Martin WDA / BAM / / /
Mark Layton / WPA / ML / / /
Brittany Brush / WDA / BB / / /

Date of Inspection:	SAT	UNSAT	Description	Corrective Action	Due Date
<u>16 BAM</u> <u>6/4/2020</u>					
Excessive cracking or openings in riser caps or tank top	<u>BAM</u> <u>ML</u>				
Evidence of waste tank elevation changes (sinking or lifting)	<u>BAM</u> <u>ML</u>				
Washed out/eroded soil or sink holes near tank tops	<u>BAM</u> <u>ML</u>				
Excessive accumulation of water on tank tops. Evidence of inadequate drainage or stormwater system degradation.	<u>BAM</u> <u>ML</u>				
Unstable structure/component with potential to fail and damage tank top	<u>BAM</u> <u>ML</u>				
Excessive vegetation	<u>BAM</u> <u>ML</u>				
Indication of leakage of grout material out of risers or waste tank (discoloration or staining)	<u>BAM</u> <u>ML</u>				
Other evidence of degradation	<u>BAM</u> <u>ML</u>				

Comments:
No change.

Closed Waste Tank Annual Inspection Checklist Photos

Tank 18, West Riser



Tank 18, Northwest Riser



Tank 18, Center Riser (North Side)



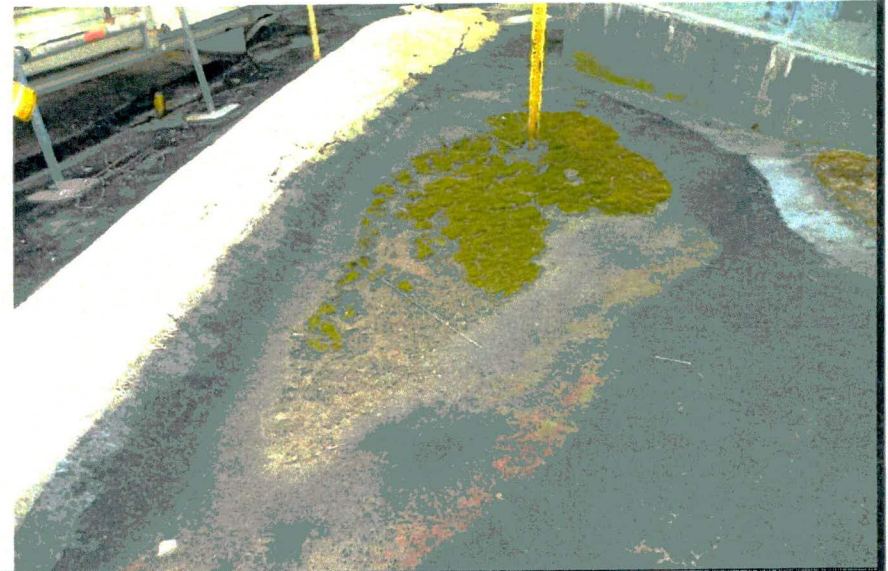
Tank 18, Center Riser (South Side)



Tank 18, Northeast Riser



Tank 18, Depression North of East Riser



Tank 18, East Riser



Tank 18, Southeast Riser



Tank 18, Southwest Riser



Closed Waste Tank Annual Inspection Checklist

Closed Waste Tank Annual Inspection Checklist for Waste Tank Number: 19

Work Order Package Number: 01780374-01 Date: 5/28/20 ^{PAM}
~~3/21/19~~ Rev: Ø

Personnel in Attendance (print name/organization/signature):
Bruce Martin WDA / B. G. Martin / /
Mark Layton / WPA / Mark Layton / /
Brittany Brush / WDA / Brittany Brush / /

Date of Inspection:	SAT	UNSAT	Description	Corrective Action	Due Date
<u>6/16/2020</u>					
Excessive cracking or openings in riser caps or tank top	BGM MK				
Evidence of waste tank elevation changes (sinking or lifting)	BGM MK				
Washed out/eroded soil or sink holes near tank tops	BGM MK				
Excessive accumulation of water on tank tops. Evidence of inadequate drainage or stormwater system degradation.	BGM MK				
Unstable structure/component with potential to fail and damage tank top	BGM MK				
Excessive vegetation	BGM MK				
Indication of leakage of grout material out of risers or waste tank (discoloration or staining)	BGM MK				
Other evidence of degradation	BGM MK				

Comments:
No change.

Closed Waste Tank Annual Inspection Checklist Photos

Tank 19, Southeast Riser and Ventilation Riser



Tank 19, Southwest Riser



Tank 19, Center Riser (South Side)



Tank 19, Center Riser (North Side)



Tank 19, West Riser



Tank 19, Northwest Riser



Tank 19, Northwest Riser (Crack on South Side)



Tank 19, North Sample Riser



Closed Waste Tank Annual Inspection Checklist Photos

Tank 19, Northeast Riser



Tank 19, East Riser



Tank 19, Underliner Sump Access Port



Closed Waste Tank Annual Inspection Checklist

Closed Waste Tank Annual Inspection Checklist for Waste Tank Number: 20

Work Order Package Number: 01780374-01 Date: 5/28/20 ^{pam}
~~3/21/19~~ Rev: Ø

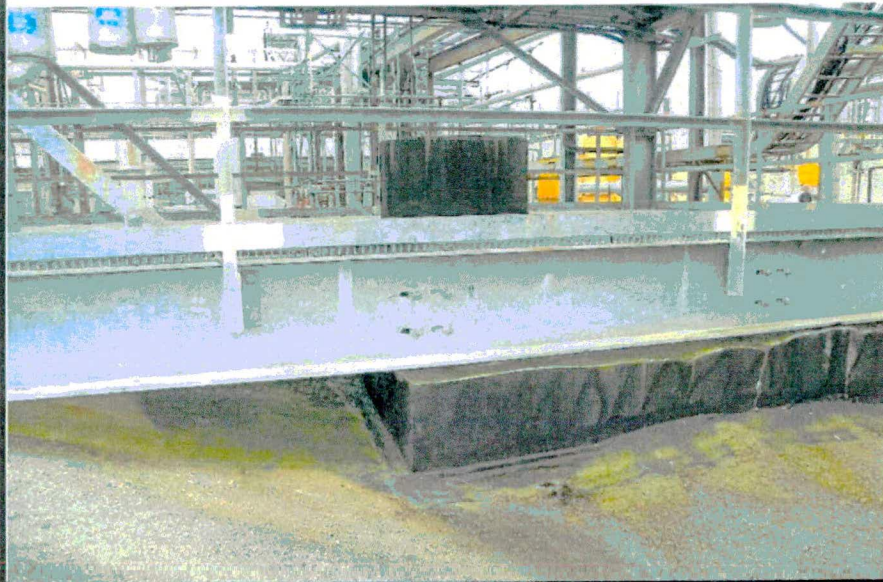
Personnel in Attendance (print name/organization/signature):
Bruce Martin WDA / B-G M & S
Mark Layton / WDA / ML
Brittany Brush / WDA / B-G M & S for Brittany Brush pr/telecom / 6/20/20

Date of Inspection:	SAT	UNSAT	Description	Corrective Action	Due Date
<u>16 pam</u> <u>6/19/2020</u>					
Excessive cracking or openings in riser caps or tank top	<u>Bam</u> <u>ML</u>				
Evidence of waste tank elevation changes (sinking or lifting)	<u>Bam</u> <u>ML</u>				
Washed out/eroded soil or sink holes near tank tops	<u>Bam</u> <u>ML</u>				
Excessive accumulation of water on tank tops. Evidence of inadequate drainage or stormwater system degradation.	<u>Bam</u> <u>ML</u>				
Unstable structure/component with potential to fail and damage tank top	<u>Bam</u> <u>ML</u>				
Excessive vegetation	<u>Bam</u> <u>ML</u>				
Indication of leakage of grout material out of risers or waste tank (discoloration or staining)	<u>Bam</u> <u>ML</u>				
Other evidence of degradation	<u>Bam</u> <u>ML</u>				

Comments:
No change.

Closed Waste Tank Annual Inspection Checklist Photos

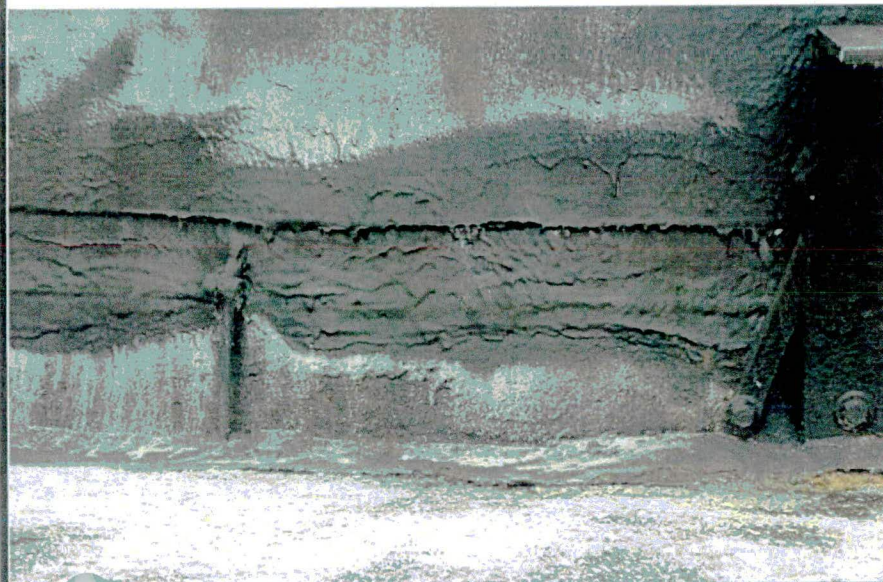
Tank 20, West Riser



Tank 20, Northwest Riser



Tank 20, Center Riser (North Side)



Tank 20, Center Riser (South Side)



Tank 20, Northeast Riser



Tank 20, East Riser



Tank 20, Southeast Riser



Tank 20, Southwest Riser and Ventilation Riser

