

TECHNICAL MEMORANDUM

То:	Nevada Environmental Response Trust
Cc:	Nevada Division of Environmental Protection
From:	David Bohmann and Bounkheana Chhun
Date:	June 21, 2018
Subject:	AP-5 Operation and Maintenance Summary – May 2018 Nevada Environmental Response Trust Site; Henderson, Nevada

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary of the operation and maintenance (O&M) activities performed during May 2018 for the AP-5 Pond Phase III sediment mixing, Phase IVa solids washing, and decant water transfer. The system was operated and maintained in accordance with the AP-5 Pond Sediment Washing Treatment Process Operations & Maintenance Manual.

SUMMARY OF O&M ACTIVITIES

Tetra Tech continued operation and maintenance activities associated with the AP-5 sediment mixing and washing system in May 2018 to provide mixing of the AP-5 slurry to keep the sediment in suspension and facilitate extraction of ammonium perchlorate. Operation and maintenance activities associated with solids washing and decant transfer operations were also ongoing during May 2018.

SOLIDS WASHING AND DECANT WATER TRANSFER

Throughout May 2018, routine procedures for washing the solids and transferring decant water were followed. A total of approximately 93,908 gallons of AP-5 wash water was decanted from the Process Tanks and transferred to the Day Tank in May 2018. A summary of daily AP-5 wash water volumes that were decanted from the Process Tanks and transferred to the Day Tank in May is provided in the attached Table 1. The cumulative total of AP-5 wash water volumes that were decanted from the Process Tanks and transferred to the Day Tank is presented in Table 2a. The cumulative total of Stabilized Lake Mead Water (SLMW) added to the Process Tanks for sediment washing is presented in Table 2b. Note that the SLMW flowmeter readings presented in the routine inspection forms (Attachment A) include both the volume of SLMW added to the Process Tanks for sediment washing and for dilution of AP-5 wash water during transfer (discussed below) and flushing of the lines following each batch transfer.

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Once the AP-5 wash water has been decanted from the Process Tanks and transferred to the Day Tank, Envirogen Technologies, Inc. (ETI) transfers the water to the Receiving Tank and subsequently blends the AP-5 water with extracted groundwater for treatment by the Fluidized Bed Reactors. ETI controls and operates the transfer of the AP-5 wash water from the Day Tank to the Receiving Tank, which includes an option to dilute the AP-5 wash water with SLMW to achieve a consistent concentration at the Receiving Tank. The dilution setting is adjustable and has a default setting of 3% perchlorate. During the month of May 2018, the average batch concentration was below 3% and ETI completed transfer of AP-5 wash water without further dilution.

Perchlorate Mass Removal Estimates

Prior to the start of solids washing, the Process Tanks were sampled to provide an estimate of the starting mass of perchlorate in the Process Tanks. The average starting perchlorate mass estimate is provided on Tables 3 and 4. Two methods are used to estimate subsequent perchlorate mass removal resulting from the solids washing process. Due to differing constraints associated with each method, the two methods are intended to provide a range of reasonable estimates for perchlorate mass removal. These methods are summarized below.

AP-5 wash water was sampled from each Process Tank on May 22, 2018 and submitted for perchlorate analysis (Method 314.0). Prior to May 2018, the Process Tank samples were used to estimate the mass of perchlorate removed from each Process Tank and the remaining perchlorate mass in each tank (Table 3 and Figure 1). Final AP-5 Pond closure activities began at the end of April 2018, and therefore the individual mass calculations are suspended until closure activities are completed. The single-point monthly tank samples were used to develop an estimate of the perchlorate mass added in May 2018 as part of final closure activities (Table 4). Table 3 and Figure 1 updates will resume following pond closure activities and sampling of the Process Tanks to established new mass estimates.

Due to the limitations of conducting the mass estimates using a single point sample from each individual Process Tank, the total mass removal from the Process Tanks is also estimated using the average concentration of each batch of decant water transferred by ETI from the Day Tank to the Receiving Tank. The average batch concentration is estimated by an in-line mass flow meter that continuously measures fluid density and flow rate. The density is converted to perchlorate concentration based on a density-to-perchlorate concentration curve developed from laboratory analysis. This method for estimating mass removal relies on continuous readings as opposed to a single point sample, but is based on meter readings as opposed to laboratory data. An estimate of the total mass of perchlorate removed from the Process Tanks based on the mass flow meter readings is presented in Table 4. As noted above, Table 4 also includes an estimate of the perchlorate mass added to the Process Tanks as part of closure activities. In addition, an estimate of the total mass of perchlorate added to the Process Tanks from AP-5 Pond closure activities is provided in this table.

The total perchlorate mass removed using both methods described above is presented on Figure 2. As shown on the figure, the method using individual Process Tank samples is shown through April 2018, and is suspended until final AP-5 Pond closure activities are completed. The deviations in the total mass removal using the two methods is believed to be primarily the result of the use of single monthly samples from each Process Tank. The initial, comprehensive perchlorate mass estimate developed for the Process Tanks revealed significant variability in individual perchlorate sample results within each tank. Therefore, the mass estimates calculated from the single-point monthly samples are subject to this variability. The mass removal approach using the mass flow meter also has limitations that likely contribute in part to the observed deviation in mass estimates. The mass flow meter approach relies on a density-to-perchlorate concentration curve previously developed from laboratory analysis, but does not utilize laboratory data each month. This method also does not include the mass in AP-5 wash water in the Day Tank that has been decanted from the Process Tanks but not yet processed through the mass flow meter. Therefore, the perchlorate mass removal using these two approaches, as summarized in Figure 2, is intended to provide a range of reasonable estimates for perchlorate mass removal.

Ammonia Mass Removal Estimates

The Process Tanks were sampled on November 1, 2017 to provide an estimate of the mass of ammonia in the tanks at that time. Similar to the sampling for the starting perchlorate mass estimate, the starting ammonia mass estimate incorporates data obtained from sampling of the Process Tanks. The average ammonia mass estimate as of November 1, 2017 is provided as the starting mass on Table 5. Estimates of the mass of ammonia removed from each Process Tank and the estimate remaining ammonia mass through April 2018 is presented on Table 5 and shown on Figure 3. As noted above, final AP-5 Pond closure activities began at the end of April 2018, and therefore the individual tank mass calculations are suspended until pond closure activities are completed.

Since the mass flow meter is correlated to perchlorate concentrations, estimates of the mass of ammonia removed from each Process Tank is based only on the method using sample results.

ROUTINE INSPECTIONS

Routine inspections were conducted throughout May 2018. Routine inspections are intended to proactively identify potential issues or concerns with key infrastructure, identify and perform routine maintenance tasks, and confirm process equipment is ready for service. During the inspections, Tetra Tech staff visually inspected the Process Tanks, Day Tank, piping, secondary containment, and the liner system for damage and leaks; confirmed mixer operation; and recorded findings on the inspection forms. Inspections, testing, and maintenance of the dilution lines, transfer lines, and Receiving Tank are under the responsibility of ETI as of July 17, 2017. Copies of routine inspection forms are provided in Attachment A. Summaries of the primary inspection activities are included below.

Process Piping

The piping within the AP-5 Process Area secondary containment area was inspected on a routine basis. AP-5 sediment wash water was decanted from the Process Tanks and transferred to the Day Tank routinely throughout the month of May 2018. The findings of the inspections are provided below:

No visible damage to, or leaks from, the AP-5 process piping were observed.

Secondary Containment

The AP-5 Process Area secondary containment liner was inspected by 360-degree perimeter inspections on a routine basis. The findings of the inspections are provided below:

No damage to the secondary containment liner was observed.

Tanks and Equipment

Process Tanks T-201, T-202 and T-203, and Day Tank T-204 were inspected on a routine basis in May 2018. The findings of the inspections are provided below:

- No visible damage to, or leaks from, Process Tanks or the Day Tank were observed.
- Precipitate on the interior sides of the Process Tanks and impeller shafts was routinely washed down in all three tanks.
- A vibration in the electrical motor was initially observed on the T-201 mixer in March. A vibration analysis was completed in March and determined to be within typical limits. The noise from vibrations appeared to increase in April and an additional inspection was completed in April. The gearbox high speed shaft was observed to have excessive play, indicating bearing wear. Beginning on April 23, 2018, the mixer for T-201 was turned off during the day to minimize usage while a bearing replacement plan is developed. Bearing replacement is expected to begin in June.

MONTHLY INSPECTION

The monthly inspection was conducted on May 31, 2018. Monthly inspections are conducted to provide a more thorough investigation of major equipment and parts and to confirm functionality of key control and interlock components. The monthly inspection form is provided in Attachment B. A summary of the findings is provided below:

- Spare parts for operation of the AP-5 slurry treatment system were present and stored on site.
- The permanent air compressor and controls were tested and operational.
- Air operated double diaphragm pumps were tested, and all were found to be in good working order.
- High-high level alarms for the Process Tanks and Day Tank were tested. All of the level sensors were observed to be functional at the time of the testing.

NON-ROUTINE TASKS

As part of final AP-5 Pond closure, the transfer of residual solids from the pond to the Process Tanks began on April 26, 2018 and continued through May 2018. As of the end of May 2018, approximately 75% of the residual solids and 15% of the cemented/calcified material has been removed from the bottom of the pond. The residual solids are screened through dewatering bins for coarse solids capture, with liquids and fine solids transferred to the Process Tanks. Residual solids and cemented/calcified material removal is ongoing and is currently expected to take until the end of June 2018, weather permitting.

As part of the solids removal process, water is transferred between the Process Tanks to achieve an overall water balance for the operation. As a result of this mixing, the perchlorate and ammonia mass estimates can no longer be tracked for individual Process Tanks (Tables 3 and 5 and Figures 1 and 3). Overall combined mass in the three tanks will continue to be tracked. Following completion of transfer of the residual solids to the Process Tanks, the tanks will be resampled to establish new mass estimates and will be presented in subsequent progress reports.

TRUST CERTIFICATION

AP-5 Operation and Maintenance Summary - May 2018

Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the systems(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee
Signature:, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee Name: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee
Title: Solely as President and not individually
Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee
Date:

CERTIFIED ENVIRONMENTAL MANAGER CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided: Prepared AP-5 Operation and Maintenance Summary for May 2018.

Kyle Hansen, CEM

Hyled. Hansen

Field Operations Manager/Geologist Tetra Tech, Inc.

Date

June 21, 2018

Nevada CEM Certificate Number: 2167

Nevada CEM Expiration Date: September 18, 2018

Tables

Table 1. Monthly AP-5 Wash Water Decant Records

	T-201	T-202	T-203	Daily Total
Date	(Gallons)	(Gallons)	(Gallons)	(Gallons)
1-May	-	-	-	-
2-May	-	-	-	-
3-May	-	-	22,579	22,579
4-May	-	-	-	-
5-May	-	-	-	-
6-May	-	-	-	-
7-May	-	-	-	-
8-May	-	-	-	-
9-May	-	-	-	-
10-May	20,329	-	-	20,329
11-May	-	-	-	-
12-May	-	-	-	-
13-May	-	-	-	-
14-May	-	-	-	-
15-May	-	-	-	-
16-May	-	-	-	-
17-May	-	-	-	-
18-May	-	-	-	-
19-May	-	-	-	-
20-May	-	-	-	-
21-May	26,938	-	-	26,938
22-May	-	-	-	-
23-May	-	-	-	-
24-May	-	-	-	-
25-May	-	-	-	-
26-May	-	-	-	-
27-May	-	-	-	-
28-May	-	-	-	-
29-May	24,062	-	-	24,062
30-May	-	-	-	-
31-May	-	-	-	-
Total	71,329	-	22,579	93,908

1 - Decant volumes presented are based on the starting and ending volumes in the Day Tank during decant operations, plus the volume that was transferred by ETI to the Receiving Tank during the time decant operations were occurring.

Table 2a. Cumulative AP-5 Wash Water Decant and Transfer Records

Month	T-201 (Gallons)	T-202 (Gallons)	T-203 (Gallons)	Monthly Total (Gallons)
July 2017	38,377		20,906	59,283
August 2017	8,868		9,454	18,322
September 2017		22,819		22,819
October 2017		117,200		117,200
November 2017	26,567	65,048	98,171	189,786
December 2017	88,449	43,485	71,600	203,534
January 2018	95,673	81,036	59,577	236,286
February 2018	108,564	55,620	122,012	286,196
March 2018	75,262	76,737	-	151,999
April 2018	44,177	-	27,290	71,467
May 2018	71,329	-	22,579	93,908
Cumulative Total	557,266	461,945	431,589	1,450,800

Table 2b. Cumulative Stabilized Lake Mead Water Volume Added for Sediment Washing

Month	T-201	T-202	T-203	Monthly Total
WOILLI	(Gallons)	(Gallons)	(Gallons)	(Gallons) ¹
July 2017	22,775		6,150	28,925
August 2017	13,970		7,860	21,830
September 2017		20,010		20,010
October 2017		131,247		131,247
November 2017	27,360	65,435	75,440	168,235
December 2017	43,570	39,585	5,485	88,640
January 2018	24,135	30,685	64,205	119,025
February 2018	92,020	22,475	126,845	241,340
March 2018	81,685	79,270	-	160,955
April 2018	465	-	18,805	19,270
May 2018	825	-	390	1,215
Cumulative Total	306,805	388,707	305,180	1,000,692

- 1 Stabilized Lake Mead Water (SLMW) volume added to tanks does not include the volume used to routinely wash down precipitate on the interior sides and mixer impellar shafts. The volume of wash down water is approximately 2,000 gallons per tank per month.
- 2 The volume of SLMW added to the tanks does not include stormwater that accumulates in the lined secondary containment and equipment pads that is pumped to the Process Tanks.

Table 3. Estimate of Perchlorate Mass in Process Tanks Based on Tank Samples

		Mass in T-201 (lbs)	Mass in T-202 (lbs)	Mass in T-203 (lbs)	Total Monthly Mass Removed (lbs)	Total Perchlorate Mass In Process Tanks (lbs)	
Initial P	erchlorate Mass ¹	168,055	247,579	185,745		601,380	
	July 2017 ²	17,828	-	9,189	27,017	574,363	
	August 2017	4,120	-	4,155	8,275	566,088	
	September 2017	-	12,547	-	12,547	553,540	
pa	October 2017	-	59,663	-	59,663	493,878	
Approx.Mass Removed	November 2017	10,605	32,571	40,418	83,594	410,284	
1ass F	December 2017	41,090	16,693	28,582	86,365	323,919	
orox.A	January 2018	36,195	25,360	19,639	81,195	242,724	
Apk	February 2018	26,727	13,925	29,020	69,672	173,051	
	March 2018	12,248	12,168	-	24,415	148,636	
	April 2018	6,083	-	4,441	10,524	138,112	
	May 2018 ³	INDIVIDUAL PROCESS TANK MASS CALCULATIONS ARE SUSPENDED UNTIL POND					
Ending	Perchlorate Mass	CLOSURE ACTIVITIES ARE COMPLETED.					

- 1 The initial perchlorate mass estimate presented is based on an average of laboratory results. The 95% confidence interval for starting perchlorate mass in all three Process Tanks is 422,491 to 776,030 pounds.
- 2 The approximate mass removed for July 2017 is based on the starting concentrations in the Process Tanks. Subsequent mass removal calculations are based on both the starting (prior month) and ending (current month) perchlorate concentrations resulting from single point samples from each tank.
- 3 Individual tank mass calculations are suspended until pond closure activities are completed. Following pond closure, a more comprehensive sampling of the Process Tanks will be completed to establish new mass estimates.

Table 4. Estimate of Perchlorate Mass in Process Tanks Based on Batch Transfers

		Estimated Monthly Mass Added (lbs) ³	Total Monthly Mass Removed (lbs)	Total Perchlorate Mass In Process Tanks (lbs)
Initial P	erchlorate Mass ¹			601,380
	July 2017 ²		13,520	587,860
	August 2017 ²		6,000	581,860
	September 2017		10,706	571,154
pa	October 2017		49,990	521,163
emov	November 2017		74,231	446,933
Approx.Mass Removed	December 2017		73,066	373,867
orox.A	January 2018		69,363	304,504
Apı	February 2018		73,247	231,257
	March 2018		25,321	205,935
	April 2018		7,030	198,905
	May 2018 ⁴	151,078	11,126	338,857
Ending	Perchlorate Mass			338,857

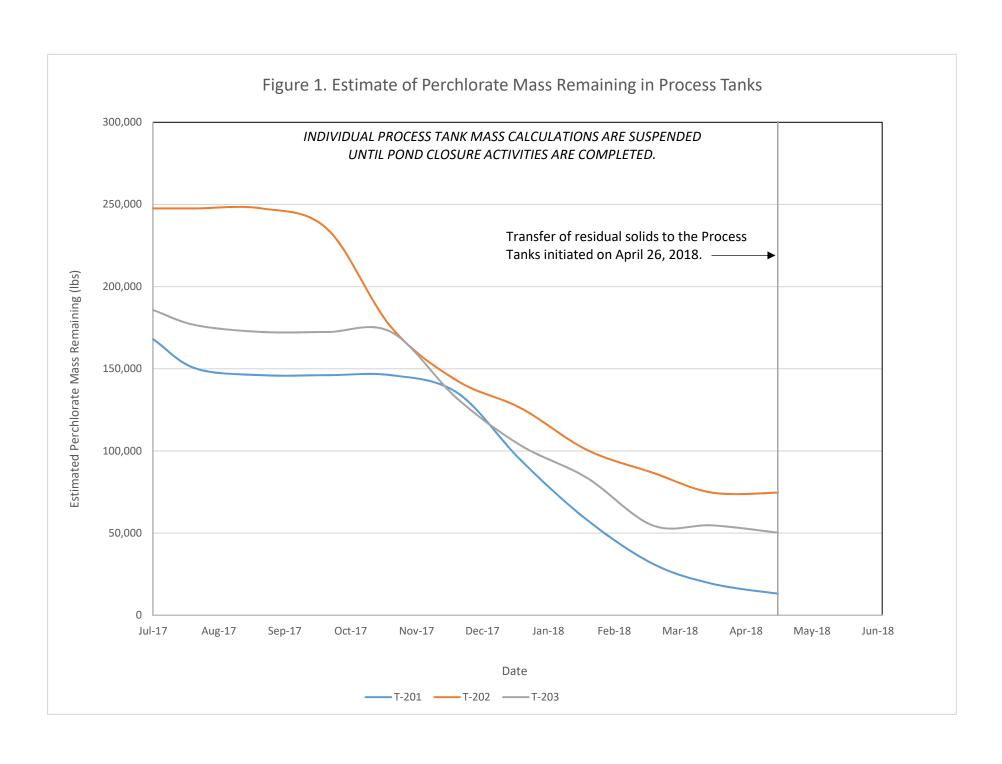
- 1 The initial perchlorate mass estimate presented is based on an average of laboratory results as summarized in the August 11, 2017 technical memo *AP-5 Tank Sampling Activities and Mass Estimate Summary*. The 95% confidence interval for starting perchlorate mass in all three Process Tanks is 422,491 to 776,030 pounds.
- 2 Individual batch data not available from ETI for July and August 2017. Values presented for these months are based on ETI's estimates. Subsequent monthly estimates are based on ETI records for batch volumes and average batch concentrations transferred from the Day Tank T-204 to the Receiving Tank T-205.
- 3 Beginning in May 2018, estimates of the perchlorate mass added as part of final AP-5 pond closure activities were developed based on single point samples from each Process Tank. Following pond closure, a more comprehensive sampling of the Process Tanks will be completed to establish new mass estimates.
- 4 The May 2018 estimate of mass added from AP-5 Pond closure activities represents the period from April 26, 2018 through May 31, 2018, and are estimated using a single point sample from each Process Tank.

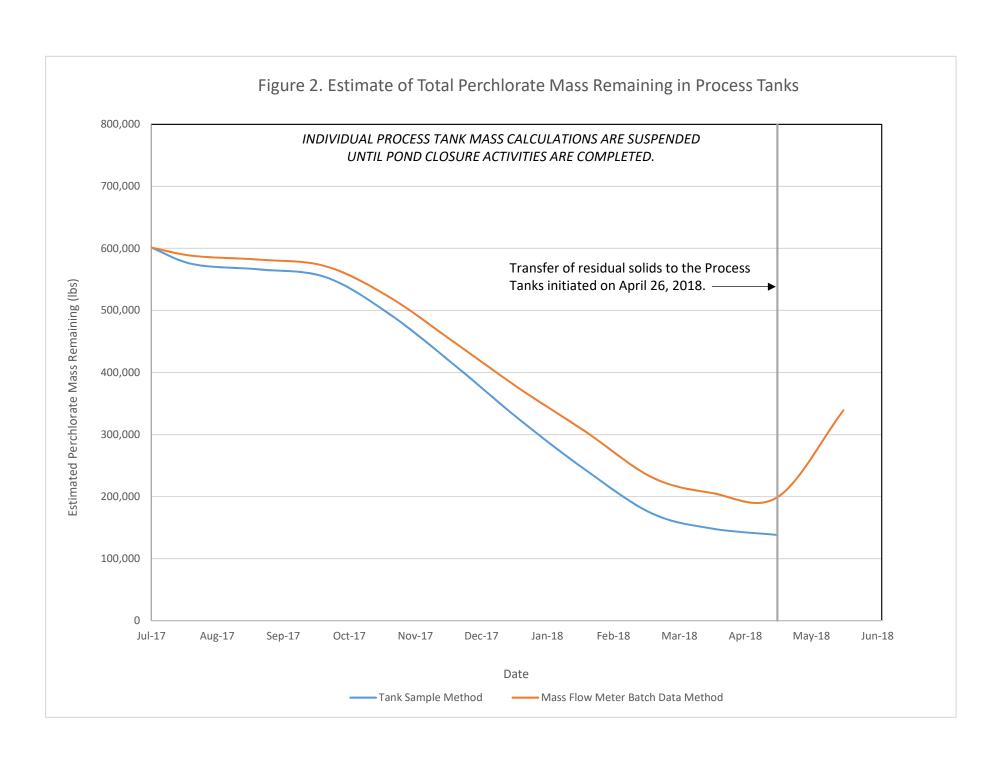
Table 5. Estimate of Ammonia Mass in Process Tanks

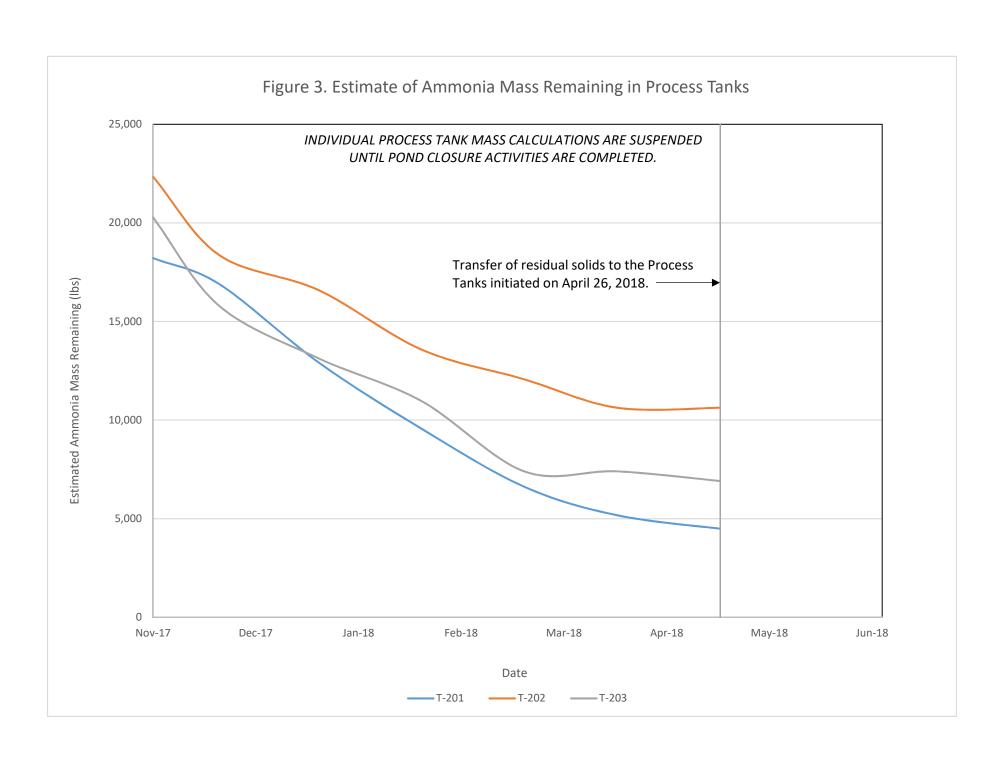
		Mass in T-201 (lbs)	Mass in T-202 (lbs)	Mass in T-203 (lbs)	Total Monthly Mass Removed (lbs)	Total Ammonia Mass In Process Tanks (lbs)
Initial Ammonia Mass ¹		18,217	22,343	20,277		60,837
	November 2017	1,323	3,979	4,490	9,792	51,045
	December 2017	3,974	1,778	2,659	8,411	42,634
pə	January 2018	3,353	3,009	2,163	8,526	34,108
Approx. Mass Removed	February 2018	2,945	1,509	3,564	8,017	26,091
Ma	March 2018	1,445	1,441	-	2,886	23,206
	April 2018	682	-	490	1,172	22,034
	May 2018 ² INDIVIDUAL PROCESS TANK MASS CALCULATIONS ARE SUSPENDED UNTIL CLOSURE ACTIVITIES ARE COMPLETED.					
Ending .	Ammonia Mass					

- 1 The initial ammonia mass estimate presented is based on an average of laboratory results for slurry and accumulated solids samples collected on November 1, 2017. Ammonia mass estimates are not available prior to this date.
- 2 Individual tank mass calculations are suspended until pond closure activities are completed. Following pond closure, a more comprehensive sampling of the Process Tanks will be completed to establish new mass estimates.

Figures







Attachment A Phase III O&M Routine Inspection Forms

Date: <u>5/1/13</u>	8 Time: 1700	Inspector Initials:	Kall
PROCESS PIPING II	NSPECTION		
1. Observe piping	g between Process Tank secondary conta	ainment and FBR secondary	y containment.
Any leaks,	punctures, damage, bulges visible?	Yes*	(No)
2. Observe piping	g in Process Tank secondary containmen	t area.	
Any leaks,	punctures, damage, bulges visible?	Yes*	No
_	g on Stabilized Lake Mead Water (SLMW) flowmeter east of Proces	s Tanks.
Flowmeter	r: 1989, 510 (gallons)		
SECONDARY CONT	TAINMENT INSPECTION		
4. Perform 360 pe	erimeter walk to observe liner system fo	or potential wear and tear.	-
Any leaks,	punctures, or other damage visible?	Yes	(No)
5. Is there storm	water accumulation greater than 1 foot?	? Yes	(No)
If Yes, pum	np storm water into one of the Process T	anks.	100
6. Is there storm	water accumulation in equipment pad si	umps?: Yes	(M)
If Yes, pum	p storm water into one of the process ta	anks.	

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	(No)	Yes*	(Ng)	Yes*	No	Yes*	(No)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	(Yes)	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	(Yes)	No*	(Yes)	No*	NA	NA

		201	T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(es)	No	(es)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	Yes	(vo)	Yes	No
Mixer running and turbulence/vortex observed?**		Nox	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	es	No*	Yes	No*
Ambient air temperature 60 Oil temperature		J°F	B	/ °F	6	°F

Date: 5/1/8 Time: Ins	pector Initials: KGH
NOTES:	
* - Notify Site Implementation Manager immediately if any of these document on this form and through photographs.	conditions are observed and thoroughly
** - Active sediment washing requires occasional shutdown of mixel Implementation Manager immediately if this condition is observed a	
Initiate procedures to mobilize and connect portable generators to ploss greater than six hours to prevent solids from consolidating in the	•
COMMENTS:	
(Describe all "yes" answers, any observed damage, any areas that	could not be inspected and the reason, etc.)
	11
T-201 off due to gear box vib	rations
Operator Signature: Kyle J. Hansu	
EMERGENCY CONTACTS:	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: <u>5/2/18</u> Time: 1640 Inspector In	itials:	KG11
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR se	econdary cont	ainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: $1990,800$ (gallons)	f Process Tank	ks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear a	nd tear.	-
	Any leaks, punctures, or other damage visible?	Yes	(No)
5.	Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	6
6.	Is there storm water accumulation in equipment pad sumps?: If Yes, pump storm water into one of the process tanks.	Yes	(No)

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No)	Yes*	6
All decant valves and transfer valves locked out?**	Yes	(6°)	(ves)	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	(ves)	No*	Ves	No*	NA =	NA

	T-2	201	T-2	202	T-2	03
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Ves	No	(Yes)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Ves	No	Ves	No	(No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Ves	No*	Yes	No*	Ves	No*
Ambient air temperatureOil temperature	77	⊢ °F	71	Q °F	75	> °F

Date:	5/2/18	Time:		Inspector Initials:	K4H	
NOTES:	/					
		n Manager immedia hrough photographs		these conditions are obs	erved and thorough	hly
				mixers and opening of drved and active washing		fy Site
				rs to power the mixers in in the bottom of the Pro		wer
COMMEN	TS:					
(Describe	all "yes" answers,	any observed dama	ge, any areas	that could not be inspec	ted and the reason	n, etc.)
T-20	1 - off duri	ug checani	+			
T-20	v3- off o	ug checani	ul			
			7			
			,			
Operator S	ignature:	gld A	aulu			
EMEDGEN	CV CONTACTS.					

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	78
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

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Da	te: $\frac{5/3//8}{}$ Time: $\frac{707}{}$ Inspector Ini	tials:	F9H	
PR	OCESS PIPING INSPECTION			
1.	Observe piping between Process Tank secondary containment and FBR se	= *	containment	
_	Any leaks, punctures, damage, bulges visible?	Yes*	No	<i>'</i>
2.	Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	No	3
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 1, 995, 600 (gallons)	f Process	Tanks.	
SE	CONDARY CONTAINMENT INSPECTION			
4.	Perform 360 perimeter walk to observe liner system for potential wear ar	nd tear.		_
	Any leaks, punctures, or other damage visible?	Yes	No)
5.	Is there storm water accumulation greater than 1 foot?	Yes	No	
	If Yes, pump storm water into one of the Process Tanks.			2)
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	No	1
	If the annual states were into one of the annual tents			

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(No)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No/	Yes*	(No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Ves	No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Ves	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	-\N9;	Yes	(No*)	(Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	(Yes)	No*
Ambient air temperature 70 Oil temperature	7	€ °F	8	√°F	80	°F

Date: 5/3/18 Time: Inspector Initials: F7t
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
T-201 off due to your 1450es T-202 decanting for goil washing & percutiens

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	11
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 5/4/18 Time: 0850 Inspector Initi	als: <u>//</u>	511					
PROCESS PIPING INSPECTION								
1.	Observe piping between Process Tank secondary containment and FBR sec Any leaks, punctures, damage, bulges visible?	ondary conta Yes*	ainment.					
2.	Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	(No)					
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 1, 996,500 (gallons)	rocess Tank	s.					
SEC	CONDARY CONTAINMENT INSPECTION							
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.						
	Any leaks, punctures, or other damage visible?	Yes	(No)					
5.	Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	No					
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	(No)					

PROCESS TANKS AND DAY TANK INSPECTION

If Yes, pump storm water into one of the process tanks.

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-2	204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(Ng)	Yes*	No	Yes*	No	
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA	
Are transfer pumps ready for service?	Yes	No*	(es)	No*	(Yes)	No*	NA	NA	

- The state of the						
	T-2	201	T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(NO
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(res)	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	Ves	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 76 Oil temperature	76	°F	80	°F,	85	°F

Date:	5/4/18	Time:	Inspector Initials:	KSTI
NOTES:	•			
		n Manager immediately if prough photographs.	any of these conditions are o	bserved and thoroughly
			own of mixers and opening o is observed and active washi	
			nerators to power the mixers lidating in the bottom of the	•
COMMEN (Describe		ny observed damage, an	areas that could not be insp	pected and the reason, etc.)
7- 7	201 off -	Cer decart &	Ulbratton 1550	4
T. Z	05 ott -	For decount	Vibration 1520	
	=	10		
	Signature:	Ref. S. Han	<u></u>	110

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: <u>5/5//8</u> Time: <u>////////////////////////////////////</u>	nitials:	5 A
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and FBR	secondary conta	inment.
Any leaks, punctures, damage, bulges visible?	Yes*	No
2. Observe piping in Process Tank secondary containment area.		
Any leaks, punctures, damage, bulges visible?	Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east	of Process Tanks	5.
Flowmeter: 1, 997, 705 (gallons)		
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential wear	and tear.	~
Any leaks, punctures, or other damage visible?	Yes	No
5. Is there storm water accumulation greater than 1 foot?	Yes	No
If Yes, pump storm water into one of the Process Tanks.		
6. Is there storm water accumulation in equipment pad sumps?:	Yes	No

PROCESS TANKS AND DAY TANK INSPECTION

If Yes, pump storm water into one of the process tanks.

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	es	No*	(Yes)	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	res	No*	Yes	No*	NA	NA

1 30 90 00.00	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No	Yes*	Nø	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Nes	No	es	No	ves	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	80	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	Nox	Xes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Ves	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	81	√ °F	12	5 °F	12	4 °F

Date: _	5/5/	18	Time		IIII	Inspector Initials:	16511	175 _ 11
NOTES:	:							
		nplementat is form and				these conditions are	observed and	thoroughly
						mixers and opening rved and active wash		
						rs to power the mixe in the bottom of the		
соммі	ENTS:							
(Describ	be all "ye	es" answers	, any obse	rved do	amage, any areas	that could not be in	spected and ti	he reason, etc.)
T-2	-01	off	due	to	Vibratar	1550es		
							- Con-	
-		1 -		20010011		2033 - 24		
Operato	or Signat	ure:	Lel S	H	ansu			

EMERGENCY CONTACTS:

Title	Name	Phone #	Comments
THE	Harrie	ritone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: <u>5/6/18</u> Time: <u>0925</u>	Inspector Initials: K5/	/
PROCESS PIPING INSPECTION		
 Observe piping between Process Tank secondary containme Any leaks, punctures, damage, bulges visible? 	ent and FBR secondary containme Yes*	ent. No
2. Observe piping in Process Tank secondary containment area Any leaks, punctures, damage, bulges visible?	Yes*	No)
Record reading on Stabilized Lake Mead Water (SLMW) flow Flowmeter: 1,997,775 (gallons) SECONDARY CONTAINMENT INSPECTION	meter east of Process Tanks.	
4. Perform 360 perimeter walk to observe liner system for pote	antial wear and tear.	
Any leaks, punctures, or other damage visible?	Yes	No)
5. Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	No
6. Is there storm water accumulation in equipment pad sumps? If Yes, pump storm water into one of the process tanks.	?: Yes	No)

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	6
All decant valves and transfer valves locked out?**	Yes	No*	(ve)	No*	(es)	No*	NA	NA
Are transfer pumps ready for service?	les	No*	ves	No*	Yes	No*	NA	NA

To allege	T-2	201	T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	Ne
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Ves	No	es	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	(NO)	Yes	(No)
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	No*	(Yes)	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Ves	No*	Ves	No*	(e)	No*
Ambient air temperature 82 Oil temperature	8	୍ୟ °F	12 1	S °F	12	Y °F

Date:	5/6/18	Time:	<u> </u>	nspector Initials:	Fall
NOTES:	•				
	Site Implementations on this form and t			se conditions are ol	bserved and thoroughly
	e sediment washin ntation Manager im				f decant valves. Notify Site
	rocedures to mobili er than six hours to				in the event of a power Process Tanks.
COMMEN	NTS:				
(Describe	all "yes" answers,	any observed dam	nage, any areas the	at could not be insp	pected and the reason, etc.)
	110				
T-2	01 down	due to	Vibration	169009.	
	Signature:	gh S. Ha	ulia		3 00 11

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 5/7/18 Time: 0875 Inspecto	r Initials:	SH
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and FB	R secondary cont	ainment
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2. Observe piping in Process Tank secondary containment area.		>
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter ea	st of Process Tanl	(5.
Flowmeter: 1, 998, 030 (gallons)		
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential wea	ar and tear.	
Any leaks, punctures, or other damage visible?	Yes	(No
5. Is there storm water accumulation greater than 1 foot?	Yes	(No)
If Yes, pump storm water into one of the Process Tanks.		X
6. Is there storm water accumulation in equipment pad sumps?:	Yes	(No)
If Yes, pump storm water into one of the process tanks.		
PROCESS TANKS AND DAY TANK INSPECTION		
7. Perform 360 degree walk around of each tank to inspect for damage of	or leaks and lock o	out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	160
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	ves	No*	NA	NA
Are transfer pumps ready for service?	Nes	No*	Wes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Ves	No	es	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	ves	No (Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(No+)	Yes	(1o*)	(es)	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	res	No*	Ves	No*
Ambient air temperature 8 2 Oil temperature	4	S °F	10	5 °F	124	/ °F

Date: 5/7/18	Time:	Inspector Initials:	KGH
NOTES:			
* - Notify Site Implementation document on this form and the	•	f any of these conditions are ob	served and thoroughly
		down of mixers and opening of is observed and active washing	
-		enerators to power the mixers olidating in the bottom of the P	-
COMMENTS:			
(Describe all "yes" answers, a	iny observed damage, ai	ny areas that could not be insp	ected and the reason, etc.)
T-201 & T-20	2- decantary	back to APSp	ow
e* 30080000000000000000000000000000000000			
Operator Signature:	gle S. Haw	Su	

EMERGENCY CONTACTS:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	= Rt
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 5/8/18 Time: 0635 Inspect	or Initials:	KSH
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and F	BR secondary co	ntainment.
Any leaks, punctures, damage, bulges visible?	Yes*	(No
2. Observe piping in Process Tank secondary containment area.		0
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter e Flowmeter: 1,999,996 (gallons) SECONDARY CONTAINMENT INSPECTION	ast of Process Ta	anks.
4. Perform 360 perimeter walk to observe liner system for potential wa	ear and tear.	
Any leaks, punctures, or other damage visible?	Yes	No
5. Is there storm water accumulation greater than 1 foot?	Yes	No
If Yes, pump storm water into one of the Process Tanks.		a
6. Is there storm water accumulation in equipment pad sumps?: If Yes, pump storm water into one of the process tanks.	Yes	No

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	201	T-2	202	T-2	203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**		No*	Yes	No*	Yes	(No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 7 ⁴ Oil temperature	70	∱ °F	74	°F	119	S °F

ROS PHASE III O&IVI ROOTINE INSPECTION FORIVI
Date: 5/8/18 Time: Inspector Initials: KST
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site mplementation Manager immediately if this condition is observed and active washing is not occurring.
nitiate procedures to mobilize and connect portable generators to power the mixers in the event of a power oss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Decarding from all three tonks

EMERGENCY CONTACTS:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	Inspector $\frac{5}{9}$ $\frac{9}{60}$ Time: $\frac{1735}{100}$ Inspector	r Initials:	FSH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FB	R secondary	containment
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.		~
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter eas	st of Process	Tanks.
	Flowmeter: 2,003,7(0 (gallons)		
SE	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wea	r and tear.	C C
	Any leaks, punctures, or other damage visible?	Yes	(No)
5.	Is there storm water accumulation greater than 1 foot?	Yes	(No)
	If Yes, pump storm water into one of the Process Tanks.		<u> </u>
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	(No)
	If Yes, pump storm water into one of the process tanks.		

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

		The state of the s								
- W	T-2	201	T-3	202	Т-7	203	T-204			
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No		
All decant valves and transfer valves locked out?**	Yes	No*	Yes	Ne	Yes	No*	NA	NA		
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA		

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	Yes	No (Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(No*	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	jo	3 °F	10	4 °F	10	3 °F

Date: 5/9/18 Time: Inspector Initials: K9H
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- All 3 tanks of during pond closure activities
Operator Signature: Kyl S. Hans

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	W 10
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	^
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	_
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 5/10/18 Time: 0720 Inspector Initi	als:	9 H
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary contain	ıment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of F	rocess Tanks.	
	Flowmeter: $2,006,005$ (gallons)		
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	
	Any leaks, punctures, or other damage visible?	Yes	(No)
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		N

PROCESS TANKS AND DAY TANK INSPECTION

6. Is there storm water accumulation in equipment pad sumps?:

If Yes, pump storm water into one of the process tanks.

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

Yes

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(No)	Yes*	No	Yes*	6
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	ves	No*	res	No*	(Yes)	No*	NA	NA

	T-201		T-202		II T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(NO)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	(res)	No	Yes	No	Ves	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Ves	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	(No*)	Yes	(No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	(es)	No*	(Pes)	No*
Ambient air temperature 48 Oil temperature	Q	°F	- 1	00°F	91	°F

Date: 5/10/18 Time: Inspector Initials: KSH
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
All 3 tanks mobed in decant.
Operator Signature: Hold Haus

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	N H = 1 H =
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	ate: 3/11/18 Time: 0855 Inspe	ctor Initials:	RGH
PF	ROCESS PIPING INSPECTION		4
1.	Observe piping between Process Tank secondary containment and Any leaks, punctures, damage, bulges visible?	d FBR secondary o	containment
2.	Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	No
3. SE	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter Flowmeter: 2,008,020 (gallons) CONDARY CONTAINMENT INSPECTION	r east of Process	Tanks.
4.	Perform 360 perimeter walk to observe liner system for potential and leaks, punctures, or other damage visible?	wear and tear. Yes	No
5.	Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	No
6.	Is there storm water accumulation in equipment pad sumps?: If Yes, pump storm water into one of the process tanks.	Yes	(N)

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

			No. 27 A		D. N.	1000		
	T-201		T-202		T-203		T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No	Yes	No	Yes	Non	NA	NA
Are transfer pumps ready for service?	res	No*	Ves	No*	Ves	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(%)	Yes*	No	Yes*	(NO)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Ves	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	(Tes	No	Nes)	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	149	Yes	No.	Yes	6
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Ves	No*	(es)	No*	es	No*
Ambient air temperatureOil temperature	81	o °F	g	7 °F	86	°F

Date:	5/11/18	Time	e:		Inspector I	nitials:	KSH	= 0
NOTES:								
		entation Mana n and through		ately if any of t	hese conditio	ons are obs	erved and thor	oughly
				al shutdown of i ndition is obser				
				table generator n consolidating	•			power
COMME!		swers, any obs	erved dam	age, any areas	that could no	ot be inspec	cted and the re	eason, etc.)
- A I	(3	tanks	oft	during	pond	Closu	ne activ	ittes
Operator	Signature: _	Kyles	Har	un	_			

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	# II ESI
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

K05 PHASE III O&M ROUTINE INSPECTION FORM ate: 5/12/18 Time: 1205 Inspector Initials: K4H

PROCESS PIPING INSPECTION

1. Observe piping between Process Tank secondary containment and FBR secondary containment
Any leaks, punctures, damage, bulges visible?

Yes*
No

2. Observe piping in Process Tank secondary containment area.

Any leaks, punctures, damage, bulges visible?

Yes*



3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.

Flowmeter: 2008, 460 (gallons)

SECONDARY CONTAINMENT INSPECTION

4. Perform 360 perimeter walk to observe liner system for potential wear and tear.

Any leaks, punctures, or other damage visible?

Yes

5. Is there storm water accumulation greater than 1 foot?

Yes



6. Is there storm water accumulation in equipment pad sumps?:

Yes



If Yes, pump storm water into one of the process tanks.

If Yes, pump storm water into one of the Process Tanks.

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(No)	Yes*	(No)	Yes*	(No)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(Na)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Ves	No	Nes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	(No)	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	(es)	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Ves	No*
Ambient air temperature 78 Oil temperature	8.	S °F	10	4°F	12	O °F

Date: _	5/12/18	Time	e: <u></u>		Inspector Initia	als:	K41	4
NOTES:	f 6							
		entation Mana n and through	ger immediately photographs.	y if any of th	ese conditions	are obse	erved and t	horoughly
			es occasional shu By if this condition					
			onnect portable t solids from con	_	•			•
COMME	NTS:							
(Describ	e all "yes" ans	wers, any obs	erved damage, (any areas t	hat could not b	e inspec	ted and th	e reason, etc.)
	V							
	9	Ш			IN E			- 11
7-2	01 047	der	to Vibra	it dans -	From gee	er b	oΧ	
Operato	r Signature:	Kyli x	1. Han	su			11 9	
EMERGE	NCY CONTACT	· ·						

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 5/13/118 Time: 1015 Inspector Initials: K	SH
PROCESS PIPING INSPECTION	
 Observe piping between Process Tank secondary containment and FBR secondary contains Any leaks, punctures, damage, bulges visible? Yes* 	No No
Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible? Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 2,009,280 (gallons)	
SECONDARY CONTAINMENT INSPECTION	
4. Perform 360 perimeter walk to observe liner system for potential wear and tear. Any leaks, punctures, or other damage visible? Yes	
5. Is there storm water accumulation greater than 1 foot? Yes If Yes, pump storm water into one of the Process Tanks.	(No)
6. Is there storm water accumulation in equipment pad sumps?: Yes If Yes, pump storm water into one of the process tanks.	(No)

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Ves	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	(Yes)	No*	(Yes)	No*	NA T	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(Nd
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	(Ve)s	No	(e)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	es	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	(No)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Ves	No*	(Yes)	No*
Ambient air temperature 89 Oil temperature	8	5°F	8	°F	8	4 °F

Date: _	5/13/18	Time:	Inspe	ector Initials:	KSH	
NOTES:	•					
		on Manager immediate hrough photographs.	ly if any of these co	onditions are ob	served and th	oroughly
		g requires occasional sh mediately if this condit				
	•	ze and connect portable prevent solids from co	-			-
COMME (Describ		any observed damage	, any areas that co	ould not be inspe	ected and the	reason, etc.)
- M:	kers off	in prep.	for deco	ud.		
Operato	or Signature:	glos. Han	usu		= 5	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	94
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 5/14 / 18 Time: 1125	Inspector Initials:	KGH
PROCESS PIPING INSPECTION		
Observe piping between Process Tank secondary contains Any leaks, punctures, damage, bulges visible?	ment and FBR secondary co	ntainment.
2. Observe piping in Process Tank secondary containment a Any leaks, punctures, damage, bulges visible?	rea. Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) fl Flowmeter: 7,009,780 (gallons)	owmeter east of Process Ta	nks.
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for p	otential wear and tear.	δ
Any leaks, punctures, or other damage visible?	Yes	(No)
5. Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tank	Yes ks.	(No)
6. Is there storm water accumulation in equipment pad sum If Yes, pump storm water into one of the process tank	·	(No)
DDGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Ves	No*	NA	NA

<u> </u>	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	(a)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Ves	No	II YES	No	(es)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Ves	No	Yes	No	es	No (
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	(No)	Yes	NOX
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	7	5 °F	7	7 °F	7	7 °F

	5/14/1	8	Time:	-M	Inspector I	nitials:	K4H	<u>L</u> 1
NOTES:								
			n Manager imme Prough photogra		of these condition	ons are obse	rved and thore	oughly
					of mixers and o served and activ			
			-	_	itors to power thing in the bottor			power
COMME	NTS:							
(Describe	e all "yes" d	inswers, a	ny observed da	mage, any are	as that could no	ot be inspec	ted and the re	ason, etc.)
- Miy	iers	af-f	during	pond	Closure	action	cities	
Operator	Signature:	Z.	l. S. Hen	de		- 1 0		

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	W 11 57 5
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 9/15/14 Time: 0920 Inspector I	nitials:	K4H
PROCESS PIPING INSPECTION		
Observe piping between Process Tank secondary containment and FBR Any leaks, punctures, damage, bulges visible?	secondary c Yes*	ontainment No
Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east Flowmeter: 2011,005 (gallons)	of Process T	anks.
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential wear	and tear.	6
Any leaks, punctures, or other damage visible?	Yes	(No
 Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks. 	Yes	No
6. Is there storm water accumulation in equipment pad sumps?: If Yes, pump storm water into one of the process tanks.	Yes	No

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	(No)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Ves	No*	es	No*	NA	NA

	T-201		T-202		T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	No	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	(Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	(Yes)	No	(es)	No
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	(No*)	Yes	(No*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	res	No*	(es)	No*
Ambient air temperature Oil temperature	40) °F	119	°F	97	°F

Date: 5/15/18 Time: Inspector Initials: KSH	
NOTES:	
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thorough document on this form and through photographs.	hly
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notif Implementation Manager immediately if this condition is observed and active washing is not occurring.	fy Site
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a povloss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.	wer
COMMENTS:	
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason	n, etc.)
- Mixeus off during pond closure activities.	
2	
Operator Signature: Myle S. Hansın	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 5/10/18 Time: 1040	Inspector Initials:	KGH				
PR	PROCESS PIPING INSPECTION						
1.	Observe piping between Process Tank secondary containment Any leaks, punctures, damage, bulges visible?	nt and FBR secondary co Yes*	ontainment.				
2.	Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	No				
3.	Record reading on Stabilized Lake Mead Water (SLMW) flows Flowmeter: 2012,780 (gallons)	meter east of Process T	anks.				
SEC	CONDARY CONTAINMENT INSPECTION						
4.	Perform 360 perimeter walk to observe liner system for pote Any leaks, punctures, or other damage visible?	ntial wear and tear. Yes	(Na				
5.	Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	M				
6.	Is there storm water accumulation in equipment pad sumps? If Yes, pump storm water into one of the process tanks.	: Yes	6				

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)		(No	Yes*	No	Yes*	No	Yes*	60
All decant valves and transfer valves locked out?**		No	Yes	No	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	(Yes	No	Ves	No	(es)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	(Yes)	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	10*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	(Yes)	No*	es	No*
Ambient air temperature <u> </u>	8	4 °F	Ę	}	8	Ş °F

, KU	3 PRASE III UQIVI KUL	אפאון שאוווע	CHON FORE	VI	
Date: 5/10/18	Time:	Inspe	ctor Initials:	KSH	
NOTES:					
* - Notify Site Implementation document on this form and the second seco		any of these co	nditions are obs	erved and the	roughly
** - Active sediment washing Implementation Manager im					
Initiate procedures to mobili loss greater than six hours to	•	*			a power
COMMENTS:					
(Describe all "yes" answers,	any observed damage, any	areas that co	uld not be inspe	cted and the i	reason, etc.)
- All mixers pond closur	e activities	water	transfe	ing der	, una
· · · · · · · · · · · · · · · · · · ·					
<u></u>					
Operator Signature:	gle S. Hans	lun			

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	II /II
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 5/17/18 Time: 1815 Inspector	nitials:	KSH
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and FBR	secondary co	ontainment.
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2. Observe piping in Process Tank secondary containment area.		
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east Flowmeter: 2,016,160 (gallons)	of Process Ta	anks.
riowineter. (gallons)		
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential wear	and tear.	
Any leaks, punctures, or other damage visible?	Yes	(19)
5. Is there storm water accumulation greater than 1 foot?	Yes	(No)
If Yes, pump storm water into one of the Process Tanks.		
6. Is there storm water accumulation in equipment pad sumps?:	Yes	(No)
If Yes, pump storm water into one of the process tanks.		

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	201	T-2	202	T-2	203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	es	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	No	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	(Yes	No	ves	No	(es)	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	(No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	es	No*
Ambient air temperature <u>§ 7</u> Oil temperature	8	7 °F	8	8 °F	8	6°F

Date:	5/17	Time:	Inspector Initials:	KGH
NOTE	S:			
		nentation Manager immediately if ar m and through photographs.	ny of these conditions are obs	erved and thoroughly
		washing requires occasional shutdov ager immediately if this condition is		
		mobilize and connect portable generations to prevent solids from consolid	*	•
COMI	ΛENTS:			
(Descr	ribe all "yes" an	swers, any observed damage, any o	areas that could not be inspe	cted and the reason, etc.)
- A (I	1 tanks	off during pour	olosive activity	liec
ġ.				
Opera	tor Signature: _	Hyls. Hans	<u> </u>	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	_
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 5/18/18 Time: (12) Inspecto	or Initials:	1-911
PROCESS PIPING INSPECTION		
Observe piping between Process Tank secondary containment and FE Any leaks, punctures, damage, bulges visible?	BR secondary co Yes*	ntainment.
2. Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter earlier: 2,018,575 (gallons)	ast of Process Ta	nks.
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential we Any leaks, punctures, or other damage visible?	ar and tear. Yes	No
5. Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	№
6. Is there storm water accumulation in equipment pad sumps?:	Yes	6

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	No
All decant valves and transfer valves locked out?**	es	No*	(es)	No*	(es)	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	es	No*	Yes	No*	NA	NA

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Ves	No	(e)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	Yes	No	Yes	(40)
Mixer running and turbulence/vortex observed?**	(es)	No*	Yes	No*	(es)	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	(c)	No*
Ambient air temperature 90 Oil temperature	8	°F ی	8	9 °F	87	°F

Date: 5/18/	/ <u>{</u> Time:	Inspector Initials:	KGH
NOTES:			
	nentation Manager immediately m and through photographs.	if any of these conditions are ob	served and thoroughly
		utdown of mixers and opening of on is observed and active washing	
		generators to power the mixers in solidating in the bottom of the Pi	
COMMENTS: (Describe all "yes" an	swers, any observed damage,	any areas that could not be inspe	ected and the reason, etc.)
- Kan T-20	1 for a short per	riod to re-distribut	e gedjumt.
jo.	2/1/01		- 1 8,1 4-
Operator Signature: _	Ry N. Har	yn_	
EMERGENCY CONTAC	TS:		

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 5/19/18 Time: 1200 Inspector Initia	als:	KGH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secondary leaks, punctures, damage, bulges visible?	ondary co Yes*	ntainment.
2.	Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of P Flowmeter: 2, 0(9, 309 (gallons)	rocess Ta	ınks.
SEC	ONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and Any leaks, punctures, or other damage visible?	tear. Yes	No
5.	Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	(No)
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	(No

PROCESS TANKS AND DAY TANK INSPECTION

If Yes, pump storm water into one of the process tanks.

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	6
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(es)	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		(N)	Yes	(No)	Yes	(No)
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Ves	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Ves	No*	(es	No*
Ambient air temperature 38 Oil temperature	87	7 °F	80	2 °F	8-	°F_

Date:	5/14/10	<u>/</u> Ti	me:		Inspector Init	ials:	4H	1	
NOTES:	, ,								
			nager immedia th photograph	ately if any of the s.	ese conditions	are observed	and the	oroughly	′
				l shutdown of m dition is observe					Site
				able generators consolidating ir				a powe	e r
COMME	NTS:								
(Describe	e all "yes" an:	swers, any o	bserved dama	ge, any areas th	at could not i	be inspected o	and the	reason,	etc.)
- AII	wikevs	tornel	on to	agitate	wafer	columb	for	30	w.uc
9.				*****					
Operator	Signature: _	Kyl	S. Han	un			*		-

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	"
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	- L
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: $\frac{5/20/18}{}$ Time: $\frac{10.55}{}$ Inspecto	or Initials:	KSH_
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and FB	R secondary o	ontainment.
Any leaks, punctures, damage, bulges visible?	Yes*	No
2. Observe piping in Process Tank secondary containment area.		
Any leaks, punctures, damage, bulges visible?	Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter ea	st of Process 1	anks.
Flowmeter: 2019.309 (gallons)		
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential wea	ar and tear.	2
Any leaks, punctures, or other damage visible?	Yes	(No)
5. Is there storm water accumulation greater than 1 foot?	Yes	(No)
If Yes, pump storm water into one of the Process Tanks.		
6. Is there storm water accumulation in equipment pad sumps?:	Yes	6
If Ves, numn storm water into one of the process tanks		-

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-2	204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	60	
All decant valves and transfer valves locked out?**	ves	No*	es	No*	(es	No*	NA	NA	
Are transfer pumps ready for service?	Yes	:No*	res	No*	es	No*	NA	NA	

	T-201		T-202		T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	Vo
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	es	No	Ves	No
Mixer running and turbulence/vortex observed?**		No*	Yes	(No*	Yes	(VO*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	res	No*	es	No*
Ambient air temperature <u>93</u> Oil temperature	8	°F	É	le °F	8	9 °F

Date:	5/20/18	Time:	In	spector Initials:	KGH	
NOTES:	•					
		on Manager immediat through photographs.		e conditions are of	oserved and thoroughly	y
		ng requires occasional and mediately if this conc			decant valves. Notify g is not occurring.	Site
		lize and connect portal o prevent solids from			in the event of a powe Process Tanks.	er:
COMMENT	rs:					
(Describe o	all "yes" answers,	any observed damag	ge, any areas that	t could not be insp	ected and the reason,	etc.)
- A(1	mitera	off prior 1	a cleant			
			141	1000		
Operator S	ignature:	fl I Ham			9	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 5/21/18 Time: 13/0 Inspector In	itials:	K51.				
PR	OCESS PIPING INSPECTION						
1.	Observe piping between Process Tank secondary containment and FBR s Any leaks, punctures, damage, bulges visible?	econdary co	ontainment.				
2.	Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	(N)				
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 7,021,000 (gallons)							
SE	CONDARY CONTAINMENT INSPECTION						
4.	Perform 360 perimeter walk to observe liner system for potential wear a	nd tear.	a				
	Any leaks, punctures, or other damage visible?	Yes	(No)				
5.	Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	(No)				
6.	Is there storm water accumulation in equipment pad sumps?: If Yes, pump storm water into one of the process tanks.	Yes	(No)				

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-:	201	T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(6)	Yes*	6
All decant valves and transfer valves locked out?**	(Pe)	No*	res	No*	(es)	No*	NA	NA T
Are transfer pumps ready for service?	Ves	No*	(Yes)	No*	yes	No*	NA	NA

	T-201		T-202		T-2	203
Visible oil leaks from gear box?	Yes*	No)	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	res	No	(es)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	yes)	No	Yes	No
Mixer running and turbulence/vortex observed?**		No*)	Yes	No*	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	yes'	No*	(es)	No*
Ambient air temperature 40 Oil temperature	85	°F	80	√ °F	86	°F

Date: 5/21/19 Time: Inspector Initials: KSlf
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Allmieur Off during decant procesque.
Operator Signature: Kle S. Hausun

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date	e: <u>5/22/18</u> Time: _	140	15_	ŀ	Inspecto	r Initials:		K5	Н
PRO	CESS PIPING INSPECTION								
1.	Observe piping between Process Ta	nk secor	ndary con	tainmer	nt and FB	R second	iarv cont	ainment	t.
	Any leaks, punctures, damage, b		-				es*	(No	•)
2.	Observe piping in Process Tank seco	ndary co	ontainme	nt area.				6	
	Any leaks, punctures, damage, b	oulges vi	sible?			Y	es*	(N	o)
3.	Record reading on Stabilized Lake M Flowmeter: 2,022, 4				neter ea	st of Pro	cess Tanl	ks.	
SEC	ONDARY CONTAINMENT INSPECTIO	N							
4.	Perform 360 perimeter walk to obse Any leaks, punctures, or other d		•	for pote	ntial wea		ar. es	(N	\supset
5.	Is there storm water accumulation g					Y	es	No	9)
6 .	Is there storm water accumulation in If Yes, pump storm water into o		•	•	•	Y	es	N	5)
PRO	CESS TANKS AND DAY TANK INSPE	CTION							
7.	Perform 360 degree walk around of	each tar	nk to insp	ect for o	damage o	or leaks a	nd lock	out of va	lves:
		T-201			202	T-2	203	T-2	204
	ible damage or leaks/stains?	Yes* No Yes* N				Yes*	No	Yes*	No

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	es	No*	Yes	No*	NA	NA

		T-201		T-202		203
Visible oil leaks from gear box?	Yes*	No/	Yes*	No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No (Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**		No*	Yes	No*	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	90) °F	89	°F	90) °F

Date: 5/27/8 Time: Inspector Initials: R9/1	
NOTES:	
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.	
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Sit Implementation Manager immediately if this condition is observed and active washing is not occurring.	e
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.	
COMMENTS:	
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.	ć.)
= All tanks off during process water transfers	_ _ _
	_
Operator Signature: Myl S. Hanne	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	ate: 5/23/18 Time: 1425 Inspector Initials:	KGH
PR	OCESS PIPING INSPECTION	
1.	Observe piping between Process Tank secondary containment and FBR secondary con	ntainment.
	Any leaks, punctures, damage, bulges visible? Yes*	(No
2.	Observe piping in Process Tank secondary containment area.	
	Any leaks, punctures, damage, bulges visible? Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tall Flowmeter: 2,674,740 (gallons)	ıks.
SEC	CONDARY CONTAINMENT INSPECTION	
4.	Perform 360 perimeter walk to observe liner system for potential wear and tear.	<i>a</i>
	Any leaks, punctures, or other damage visible?	No
5.	Is there storm water accumulation greater than 1 foot? Yes	No
	If Yes, pump storm water into one of the Process Tanks.	
6.	Is there storm water accumulation in equipment pad sumps?:	Ng
	If Yes, pump storm water into one of the process tanks.	
PRO	OCESS TANKS AND DAY TANK INSPECTION	
7.	Perform 360 degree walk around of each tank to inspect for damage or leaks and lock	out of valves:
	T 204 T 202 T 202	7.004

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(No)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	(A)	Yes	No	NA	NA
Are transfer pumps ready for service?	Yes	No*	(es)	No*	Yes	No*	NA	NA

		T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	(10)	
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(es)	No	res	No	
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	Yes	No	es	No	
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	(No*)	
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Ves	No*	ves	No*	
Ambient air temperature <u>87</u> Oil temperature	90	°F	8	7 °F	ξ	9 °F	

Date:	5/23/18	Time:_		Ins	pector Initials:	KG	4
NOTES:	1						
		itation Manager and through pho		any of these	conditions are	observed and	f thoroughly
		shing requires o er immediately i					
		obilize and conr ers to prevent so					
COMMEN	TS:						
(Describe	all "yes" answ	ers, any observ	ed damage, an	ny areas that	could not be in	spected and t	the reason, etc.)
- Tai	ike of	durony	water	trans	Fevy.		
		1					
Operator !	Signature:	The S.	Ham				

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	.2.
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	11 11 11 11
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Observe piping between Process Tank secondary containment and FBR secondary containment. Any leaks, punctures, damage, bulges visible? Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible? Yes* No Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 2.028, 180 (gallons) CONDARY CONTAINMENT INSPECTION									
PROCESS PIPING INSPECTION									
, , -	•		ent area.					ת	
 Observe piping between Process Tank secondary containment and FBR secondary containment. Any leaks, punctures, damage, bulges visible? Yes* No Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible? Yes* No Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 2 028, 180 (gallons) SECONDARY CONTAINMENT INSPECTION Perform 360 perimeter walk to observe liner system for potential wear and tear. Any leaks, punctures, or other damage visible? Yes No If Yes, pump storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks. If Yes, pump storm water into one of the process tanks. PROCESS TANKS AND DAY TANK INSPECTION T-201 T-202 T-203 T-204 									
Flowmeter: 1,020, 1	Flowmeter: 2.028, 180 (gallons)								
SECONDARY CONTAINMENT INSPECTION 4. Perform 360 perimeter walk to observe liner system for potential wear and tear. Any leaks, punctures, or other damage visible? Yes									
Perform 360 perimeter walk to observe liner system for potential wear and tear.								3	
Any leaks, punctures, or other d	amage v	isible?			Y	es	No	2	
					Y	es	No		
•							0		
	, ,	•	•	:	Y	es	(No		
if Yes, pump storm water into o	ne of the	process	tanks.						
PROCESS TANKS AND DAY TANK INSPEC	CTION								
7. Perform 360 degree walk around of	each tar	nk to insp	ect for o	lamage c	r leaks a	nd lock o	out of va	lves:	
	T-2	201	T-2	202	T-2	:03	T-2	04	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	No	
All decant valves and transfer valves	(0								
locked out?**	Yès	No*	Yes	No*	Yes	No*	NA	NA	
Are transfer pumps ready for service?	Yes	No*	Yes	No*	res	No*	NA	NA	

		T-201		T-202		203
Visible oil leaks from gear box?	Yes*	(No	Yes*	No)	Yes*	Ne
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	(Yes)	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	Mo*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	es	No*
Ambient air temperature 914 Oil temperature	10	5°F	10) / °F	10	4 °F

Date: _	5/24/18	Time:		Inspector Initials: _	KSH
NOTES	:				
	ify Site Implementation if you are in the second if you are in this form and the second in the secon			these conditions are o	bserved and thoroughly
				f mixers and opening o erved and active washi	of decant valves. Notify Site ng is not occurring.
				ors to power the mixer g in the bottom of the	s in the event of a power Process Tanks.
сомм	ENTS:				
(Descri	be all "yes" answers,	any observed dan	nage, any area	s that could not be ins	pected and the reason, etc.)
- 1	Nixery off	due to	zedini	t washing	T-202- T-203
- 1	-201 mixer	operating	ander	limited use	T-202- T-20>
Operato	or Signature:	Kelis.	Hann	_	
EMERG	ENCY CONTACTS:				

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	#
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 5/25/19 Time: 6930 Inspector In	itials:	K917
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR se	econdary co	ntainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 2,029, 340 (gallons)	f Process Ta	nks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear at	nd tear.	6
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		~
6.	Is there storm water accumulation in equipment pad sumps?: If Yes, pump storm water into one of the process tanks.	Yes	(Ne)

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

1,000	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	No	Yes*	(No	Yes*	(No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	res	No	Yes	No
Mixer running and turbulence/vortex observed?**		No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	es	No*
Ambient air temperature <u>83</u> Oil temperature	8	5°F	8	3°F	2"	√ °F

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1	7

NOTES:

- * Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
- ** Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.

Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.

COMMENTS:

(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)

Millers 202	9203 off	- due to sedue	ent transfer
T-201- has	limitel use	due to vibration	from glarbox

EMERGENCY CONTACTS:

Operator Signature:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 5/26/13 Time: 0.730 Inspector Initials:	KSH
PROCESS PIPING INSPECTION	
1. Observe piping between Process Tank secondary containment and FBR secondary	containment.
Any leaks, punctures, damage, bulges visible? Yes*	No
2. Observe piping in Process Tank secondary containment area.	
Any leaks, punctures, damage, bulges visible? Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Flowmeter:	Tanks.
SECONDARY CONTAINMENT INSPECTION	
4. Perform 360 perimeter walk to observe liner system for potential wear and tear.	
Any leaks, punctures, or other damage visible? Yes	(No)
5. Is there storm water accumulation greater than 1 foot? Yes If Yes, pump storm water into one of the Process Tanks.	M
6. Is there storm water accumulation in equipment pad sumps?: Yes If Yes, pump storm water into one of the process tanks.	No
PROCESS TANKS AND DAY TANK INSPECTION	
7. Perform 360 degree walk around of each tank to inspect for damage or leaks and le	ock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	(es)	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

		T-201		T-202		.03
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		(No')	Yes	No	Yes	(10)
Mixer running and turbulence/vortex observed?**		(No*)	(Yes)	No*	es	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	(Yes)	No*	Yes	No*
Ambient air temperature Oil temperature	8	°F	61	ℓ °F	68	g °F

Date: _	5/20/18	Time:	Inspector Initials:	1694
NOTES:				
		ion Manager immediately il through photographs.	f any of these conditions are ob	served and thoroughly
			down of mixers and opening of is observed and active washing	
	•	-	enerators to power the mixers i olidating in the bottom of the P	•
сомм	ENTS:			
(Describ	e all "yes" answers	, any observed damage, an	ny areas that could not be inspe	ected and the reason, etc.)
_T-7	201 has ag	ar box 1990es o	FF	
Operato	or Signature:	Gl. S. Haus	<u></u>	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 5/27/18 Time: 1325 Inspector Init	tials:	K4H
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR se Any leaks, punctures, damage, bulges visible?	condary co Yes*	ntainment.
2.	Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 2032, 390 (gallons)	Process Ta	nks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear an Any leaks, punctures, or other damage visible?	d tear. Yes	No
5.	Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	No
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	(No)

PROCESS TANKS AND DAY TANK INSPECTION

If Yes, pump storm water into one of the process tanks.

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

AL BELLEVILLE		T-201		T-202		203
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Ves	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	Yes	No	Yes	6
Mixer running and turbulence/vortex observed?**		No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Wes	No*	6	No*
Ambient air temperatureOil temperature	8	フ °F	8	G₂°F	89	°F

Date:	5/27	/18	Time	e:		Inspector I	nitials: _	KGH	
NOTES:		1							
	y Site Impl nt on this					f these condition	ons are o	bserved and thoroughly	
								of decant valves. Notify Singles is not occurring.	iite
					t portable generat s from consolidati			s in the event of a power Process Tanks.	r
COMME	NTS:								
(Describe	e all "yes"	answers	, any obs	erved	damage, any ared	s that could no	ot be ins	pected and the reason, a	?tc.)
· T-	201	off	che	to	Vibration	144024	iu	gear ha	
. =					==0 ×0×M ≥====				
Operator	· Signature	1/2	les	1	ausur				

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	10
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	× 11 100
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 5/28/18 Time: 0945 Inspector Init	ials:	KSH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secondary leaks, punctures, damage, bulges visible?	ondary co	ontainment.
2.	Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 2,035, 900 (gallons)	Process T	anks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and Any leaks, punctures, or other damage visible?	l tear. Yes	No
5.	Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	No
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	(No

PROCESS TANKS AND DAY TANK INSPECTION

If Yes, pump storm water into one of the process tanks.

5/28/10

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	201	T-2	202	T-2	203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	(No)	Yes*	(NO)	Yes*	(Ng)	Yes*	(M)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203 🥿
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	(Ps	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	(Y _P S	No
Mixer running and turbulence/vortex observed?**	Yes	No	Yes	No	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	(Fes)	No*	Yes	No*	Yes	No*
Ambient air temperature <u>84</u> Oil temperature	80	g °F	8	9 °F	8	'5 °F

Date: 5/2	8/18	Time:		Inspector I	nitials:	KSH	
NOTES:	/						
		n Manager imm hrough photogra		these condition	ons are obse	erved and tho	oughly
		requires occasion rediately if this					
		ze and connect p prevent solids fi	_	,			3 power
COMMENTS: (Describe all "	yes" answers, a	any observed da	mage, any area	s that could no	ot be inspec	ted and the re	eason, etc.)
和	All to	uks of	in pare	pration	For	decat	tomoroa
Operator Sign	, (Sed 7	lanen		- ACT		

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: <u>5/29//8</u> Time: <u>/Y00</u>	Inspector Initials:	KAH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containm	ent and FBR secondary c	ontainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
2.	Observe piping in Process Tank secondary containment are	a. V	1
	Any leaks, punctures, damage, bulges visible?	Yes*	(NO
3.	Record reading on Stabilized Lake Mead Water (SLMW) floo	wmeter east of Process T	anks.
	Flowmeter: 2,037, 450 (gallons)		
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for po	tential wear and tear.	
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?	Yes	(No
	If Yes, pump storm water into one of the Process Tanks	•	
6.	Is there storm water accumulation in equipment pad sump.	s?: Yes	(No
	If Yes, pump storm water into one of the process tanks.		
PR	DCESS TANKS AND DAY TANK INSPECTION		
7.	Perform 360 degree walk around of each tank to inspect for	r damage or leaks and lo	ck out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Veg	No*	Yes	No*	Nes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-201		T-202		T-2	203
Visible oil leaks from gear box?	Yes*	(No	Yes*	(No)	Yes*	(No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Ves	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	91	g°F	9	7°F	98	₹°F

Date: _	5/29/18		Time:		Inspector Initia	ls:	KGH	
NOTES								
			lanager immedi ugh photograph		hese conditions a	re observe	ed and thorough	ıly
** - Act Implem	tive sediment entation Ma	washing red nager immed	quires occasion: liately if this co	al shutdown of ndition is obse	mixers and openi ved and active w	ng of decar ashing is n	nt valves. Notif ot occurring.	y Site
					s to power the m in the bottom of			/er
сомм	ENTS:							
(Descril	be all "yes" a	nswers, any	observed dame	age, any areas	that could not be	inspected	and the reason	, etc.)
- 1	Mixeus	off fo	r pond	closure a	relations	-7 -0		
		<i>j</i>				11		_
Operato	or Signature:	Ryl	A Han	ch	- Ti			

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 5/30/18 Time: 1410 Inspe	ctor Initials:	12511
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and	FBR secondary	containment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter Flowmeter: 2038, 945 (gallons)	reast of Process	Tanks.
SE	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential	wear and tear.	00
	Any leaks, punctures, or other damage visible?	Yes	(No
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		7
6.	Is there storm water accumulation in equipment pad sumps?: If Yes, pump storm water into one of the process tanks.	Yes	(NO

PROCESS TANKS AND DAY TANK INSPECTION

Date: 5/20/10

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	Ng	Yes*	No	
All decant valves and transfer valves locked out?**	Ye	No*	Yes	No	Yes	No*	NA	NA	
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Ves	No*	NA	NA	

	T-2	01	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	NA	Yes*	No.	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	es	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	(es)	No*	Yes	No*
Ambient air temperature 100 Oil temperature	10	5 °F	10	(°F	10	7 °F

Date:_	5/30/	C8 Time:		Inspector Initials:	KGH
NOTES					
		entation Manage n and through ph		f these conditions are ob	served and thoroughly
				of mixers and opening of served and active washin	decant valves. Notify Site g is not occurring.
				tors to power the mixers ng in the bottom of the F	
(Describ		swers, any obser	ved damage, any area	as that could not be insp	ected and the reason, etc.)
ALL	tempes	involved	ru wester	transfers	
Operato	or Signature: _	plyle	S. Hane	<u>.</u>	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: <u>\$\frac{5}{31/18}</u> Time: <u>0700</u> Inspector	Initials:	R
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR	secondary conf	tainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east Flowmeter:	of Process Tan	ks.
SE	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear	and tear.	
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	No
6.	Is there storm water accumulation in equipment pad sumps?: If Yes, pump storm water into one of the process tanks.	Yes	No

PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	(No*	Yes	(No*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	37	°F	8	O °F	81	°F

Date: _	5/31/18	Time: <u>9700</u>	Inspector Initials:	JR
NOTES:				
	fy Site Implementatio ent on this form and t	n Manager immediately if an hrough photographs.	y of these conditions are o	observed and thoroughly
	_	requires occasional shutdov mediately if this condition is	· ·	•
		e and connect portable gene prevent solids from consolid		
(Describ	e all "yes" answers,	any observed damage, any o	areas that could not be ins	spected and the reason, etc.)
T-2	of off due	to vibration	1 1554ES In	gear box
	70 _1			
	or Signature:	y R R		THE TOTAL STREET

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	33.000
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Attachment B Phase III O&M Monthly Inspection Forms

K05 PHASE III O&M MONTHLY INSPECTION FORM

Date:	5/31	119	Time: <u>670</u>	0	-	Inspect	or Initia	ls: <u>-</u> - J	R		
	re all spare ¡	ALS AND PA parts presen which parts		ed and in	form Sit	e Impler	nentatio	(on Mana	Yes ger:		No
2. Aı	•	•	esources, and sup to be ordered and			•			Yes		No
3. Ch Sii P-20 P-20 P-20 P-20 P-20 HIGH-	heck if all AC te Implement 1 2 3 4 5 6	ALARMS IN	pumps are in goo	s are req	uired:						
			ntation Manager i	•	airs are	required			203	т-2	
		e High-High the set poin	alarm signals – ts?	Yes	No*	Yes	No*	Yes	No*	Yes	No*
Test res	et procedur	e – were the	ere any issues?	Yes*	(No)	Yes*	(Ng)	Yes*	No	Yes*	(No
Are all a order?	Are all alarm status lights in good working						No*				
Are the	shut-off dev	ices in good	working order?	Yes	No*	Yes	No*	Yes	No*	Yes	No*
Visible d	lamages to	the alarm co	rds and cables?	Yes*	No	Yes*	(No)	Yes*	No	Yes*	No
Notes	:										

K05 PHASE III O&M MONTHLY INSPECTION FORM

Date: <u>5/31</u>	/18 Time:	0700	Inspector Initials:	JR	

INSPECT PROCESS TANK MIXERS

5. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Is there adequate oil in Process Tank mixer motors?	Yes	No*	(Yes)	No*	Yes No*	
Control panel mixer run time**	9248,4 hrs		9503,4 hrs		9565,5 hrs	

INSPECT MAINTENANCE ITEMS

6. Check if equipment requiring maintenance is in good condition and working order. Provide the date of next required maintenance and contact the Site Implementation if anything is in need of maintenance:

Date of Next

	Replacement or	
Activity	Maințenance	Comments
Replace 3" decant transfer hoses	8/11/2018	_
Replace 3" solid transfer hoses	9/1/2018	
Replace 1.5" SLMW flush hose	12/15/2018	
Replace 3" stainless steel doublesphere expansion joints	5/1/2018	
Replace air compressor filter element	11/16/2018	
Service air compressor	1/26/2019	_
Change process tank mixer gear box oil**	10/18/2018	
Grease gear seals on process tank mixer	1/21/2018	

NOTES:

- * Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
- ** Date of next oil change is approximate. The timing for process tank mixer gear box oil change is based on actual run time (10,000 hours). Each mixer ran for the following hours after the last oil change and prior to control panel set up, and these hours need to be added to the control panel readings to arrive at the total run time for the mixers:

M-201 = 8,987 hours, M-202 = 8,882 hours, M-203 = 8,952 hours

COMMENTS:				
(Describe all "yes" an	swers, any observed a	damage, any areas	that could not be ins	pected and the reason, etc.)
	329-789			
	0.500.0			7/2

Operator Signature: _

K05 PHASE III O&M MONTHLY INSPECTION FORM

Date:	5/31/18	Time: 0720	Inspector Initials:	JK	t .

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334