

TECHNICAL MEMORANDUM

To: Nevada Environmental Response Trust

Cc: Nevada Division of Environmental Protection
United States Environmental Protection Agency

From: David Bohmann and Bounkheana Chhun

Date: April 20, 2018

Subject: AP-5 Operation and Maintenance Summary – March 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 March 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 March 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 March 2018.

SOLIDS WASHING AND DECANT WATER TRANSFER

Throughout March 2018, routine procedures for washing the solids and transferring decant water were followed. A total of approximately 151,999 gallons of AP-5 wash water was decanted from the Process Tanks and transferred to the Day Tank in March 2018. A summary of daily AP-5 wash water volumes that were decanted from the Process Tanks and transferred to the Day Tank in March 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.

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 March 2018, the average batch concentration was 2.0% based on in-line mass flow meter readings. ETI completed transfer of AP-5 wash water in March 2018 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 March 21, 2018 and submitted for perchlorate analysis (Method 314.0). An estimate of the mass of perchlorate removed from each Process Tank based on the monthly sample results and the estimated remaining perchlorate mass is presented in Table 3 and shown on Figure 1. These estimates are based on a single monthly sample from each Process Tank.

Due to the limitations of conducting the mass estimates using a single point sample, the total mass removal and total remaining mass in the Process Tanks was 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 and the estimated total remaining perchlorate mass is presented in Table 4.

The total perchlorate mass removed using both methods described above is presented on Figure 2. 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 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 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 Tables 3 and 4 and 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. 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.

Monthly samples were collected from the Process Tanks for analysis of ammonia at the same time as the monthly perchlorate samples in March 2018. An estimate of the mass of ammonia removed from each Process Tank and the estimate remaining ammonia mass is presented on Table 5 and shown on Figure 3.

ROUTINE INSPECTIONS

Routine inspections were conducted throughout March 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 March 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.
- Stormwater accumulated on the secondary containment liner and in equipment pad sumps and was pumped to Process Tanks on March 11, 2018.

Tanks and Equipment

Process Tanks T-201, T-202 and T-203, and Day Tank T-204 were inspected on a routine basis in March 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 bearing noise in the drive end of the motor in the mixer was observed on Process Tank T-202 on March 27, 2018. The bearing was greased, and no additional noises were observed.
- A vibration in the electrical motor was observed on the T-201 mixer in March. Monitoring is ongoing and no increase in vibrations or oil temperature were observed during routine inspections. A visual inspection by an authorized representative conducted on March 20, 2018 determined the vibrations are typical of those associated with the gear unit and do not pose a risk.

MONTHLY INSPECTION

The monthly inspection was conducted on March 28, 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

Non-routine tasks included evaluating ammonia and perchlorate removal trends and continued preparation for AP-5 Pond closure.

Additional samples of residual cemented/calcified material in the AP-5 Pond were collected as part of the field testing conducted in December 2017. Testing was completed and results were received in March 2018.

The trends for ammonia and perchlorate removal rates were evaluated for the period of November 2017 to March 2018. Over that period, the overall trend for monthly mass removal quantities is decreasing for both ammonia and perchlorate. Perchlorate was removed at a higher rate compared to ammonia, which is expected due to the higher concentrations of perchlorate. The Trust will be meeting with NDEP and EPA in April 2018 to present a long-term treatment approach for both perchlorate and ammonia until treatment is no longer required.

The Process Hazard Analysis report for the pond closure procedures was received in March 2018. The procedures are being revised to address the final recommendations and identified safeguards. Pond closure equipment procurement and initial mobilization activities started in March 2018. The transfer of residual solids from the pond to the Process Tanks is expected to begin in April 2018.

TRUST CERTIFICATION

AP-5 Operation and Maintenance Summary – March 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: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

*not individually, but solely
as Pres. Trust*

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

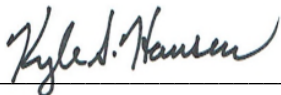
Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Date: 4/20/18

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 March 2018.



April 20, 2018

Kyle Hansen, CEM
Field Operations Manager/Geologist
Tetra Tech, Inc.

Date

Nevada CEM Certificate Number: 2167
Nevada CEM Expiration Date: September 18, 2018

Tables

Table 1. Monthly AP-5 Wash Water Decant Records

Date	T-201 (Gallons)	T-202 (Gallons)	T-203 (Gallons)	Daily Total (Gallons)
1-Mar	-	-	-	-
2-Mar	38,236	-	-	38,236
3-Mar	-	-	-	-
4-Mar	-	-	-	-
5-Mar	37,026	-	-	37,026
6-Mar	-	-	-	-
7-Mar	-	-	-	-
8-Mar	-	38,284	-	38,284
9-Mar	-	-	-	-
10-Mar	-	-	-	-
11-Mar	-	38,453	-	38,453
12-Mar	-	-	-	-
13-Mar	-	-	-	-
14-Mar	-	-	-	-
15-Mar	-	-	-	-
16-Mar	-	-	-	-
17-Mar	-	-	-	-
18-Mar	-	-	-	-
19-Mar	-	-	-	-
20-Mar	-	-	-	-
21-Mar	-	-	-	-
22-Mar	-	-	-	-
23-Mar	-	-	-	-
24-Mar	-	-	-	-
25-Mar	-	-	-	-
26-Mar	-	-	-	-
27-Mar	-	-	-	-
28-Mar	-	-	-	-
29-Mar	-	-	-	-
30-Mar	-	-	-	-
31-Mar	-	-	-	-
Total	75,262	76,737	-	151,999

Notes:

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
Cumulative Total	441,760	461,945	381,720	1,285,425

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

Month	T-201 (Gallons)	T-202 (Gallons)	T-203 (Gallons)	Monthly Total (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
Cumulative Total	305,515	388,707	285,985	980,207

Notes:

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 Perchlorate Mass¹		168,055	247,579	185,745		601,380
<i>Approx. Mass Removed</i>	<i>July 2017²</i>	17,828	-	9,189	27,017	574,363
	<i>August 2017</i>	4,120	-	4,155	8,275	566,088
	<i>September 2017</i>	-	12,547	-	12,547	553,540
	<i>October 2017</i>	-	59,663	-	59,663	493,878
	<i>November 2017</i>	10,605	32,571	40,418	83,594	410,284
	<i>December 2017</i>	41,090	16,693	28,582	86,365	323,919
	<i>January 2018</i>	36,195	25,360	19,639	81,195	242,724
	<i>February 2018</i>	26,727	13,925	29,020	69,672	173,051
	<i>March 2018</i>	12,248	12,168	-	24,415	148,636
Ending Perchlorate Mass		19,242	74,651	54,743		148,636

Notes:

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.

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

		Total Monthly Mass Removed (lbs)	Total Perchlorate Mass In Process Tanks (lbs)
Initial Perchlorate Mass¹			601,380
<i>Approx. Mass Removed</i>	<i>July 2017²</i>	<i>13,520</i>	587,860
	<i>August 2017²</i>	<i>6,000</i>	581,860
	<i>September 2017</i>	<i>10,706</i>	571,154
	<i>October 2017</i>	<i>49,990</i>	521,163
	<i>November 2017</i>	<i>74,231</i>	446,933
	<i>December 2017</i>	<i>73,066</i>	373,867
	<i>January 2018</i>	<i>69,363</i>	304,504
	<i>February 2018</i>	<i>73,247</i>	231,257
	<i>March 2018</i>	<i>25,321</i>	205,935
Ending Perchlorate Mass			205,935

Notes:

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.

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 Mass¹	18,217	22,343	20,277		60,837	
<i>Approx. Mass Removed</i>	<i>November 2017</i>	<i>1,323</i>	<i>3,979</i>	<i>4,490</i>	<i>9,792</i>	51,045
	<i>December 2017</i>	<i>3,974</i>	<i>1,778</i>	<i>2,659</i>	<i>8,411</i>	42,634
	<i>January 2018</i>	<i>3,353</i>	<i>3,009</i>	<i>2,163</i>	<i>8,526</i>	34,108
	<i>February 2018</i>	<i>2,945</i>	<i>1,509</i>	<i>3,564</i>	<i>8,017</i>	26,091
	<i>March 2018</i>	<i>1,445</i>	<i>1,441</i>	<i>-</i>	<i>2,886</i>	23,206
Ending Ammonia Mass	5,177	10,627	7,402		23,206	

Notes:

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.

Figures

Figure 1. Estimate of Perchlorate Mass Remaining in Process Tanks

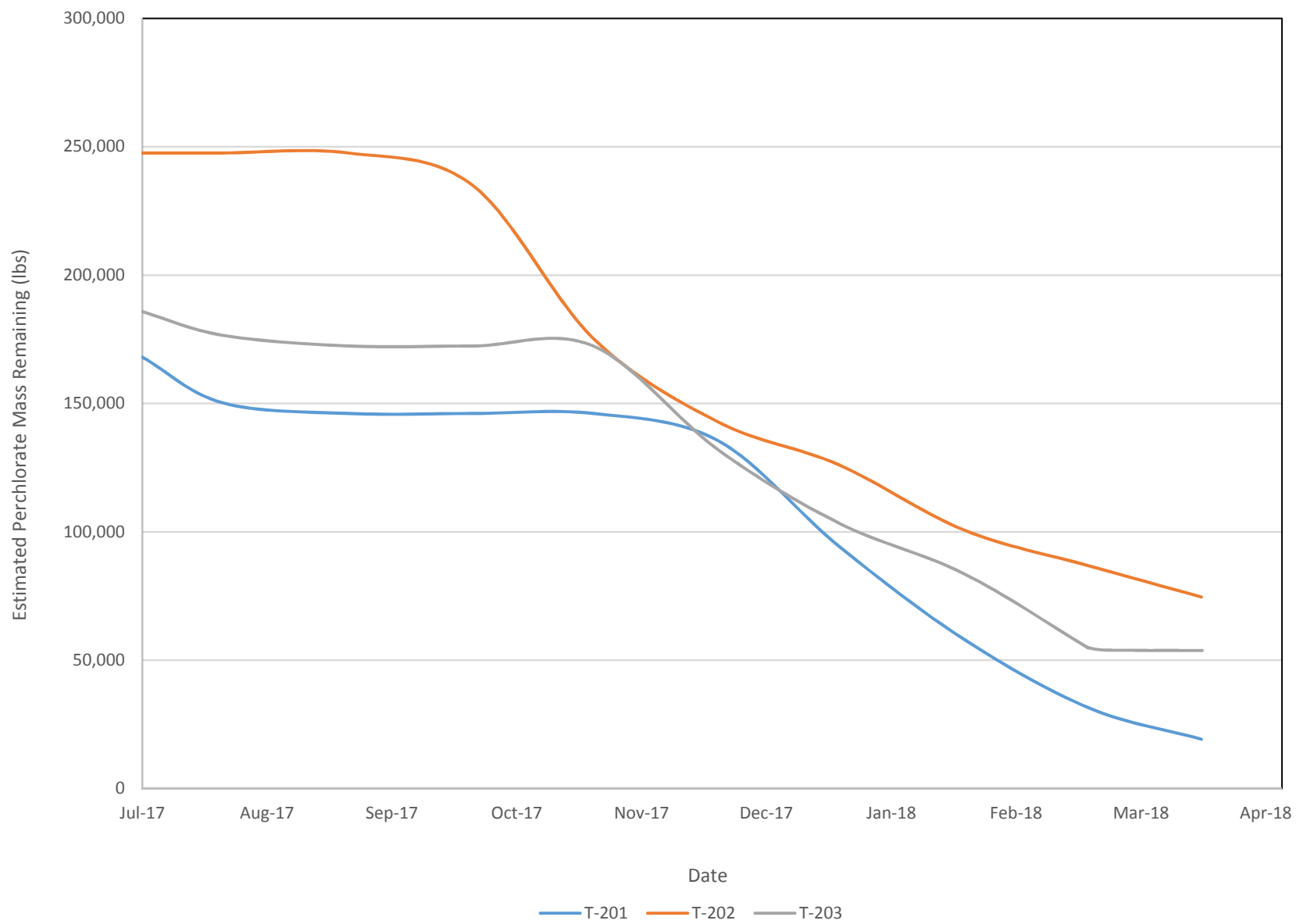


Figure 2. Estimate of Total Perchlorate Mass Remaining in Process Tanks

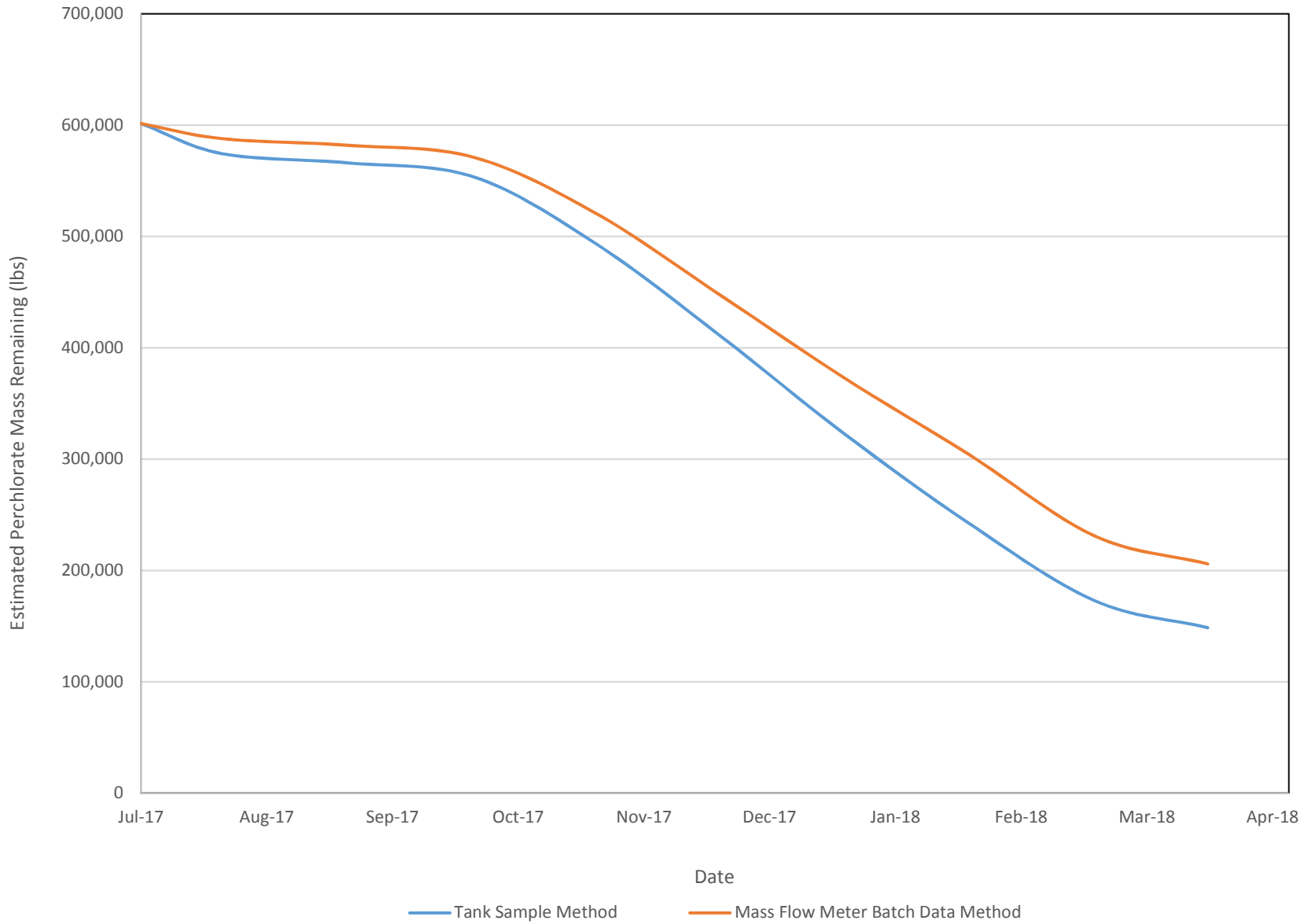
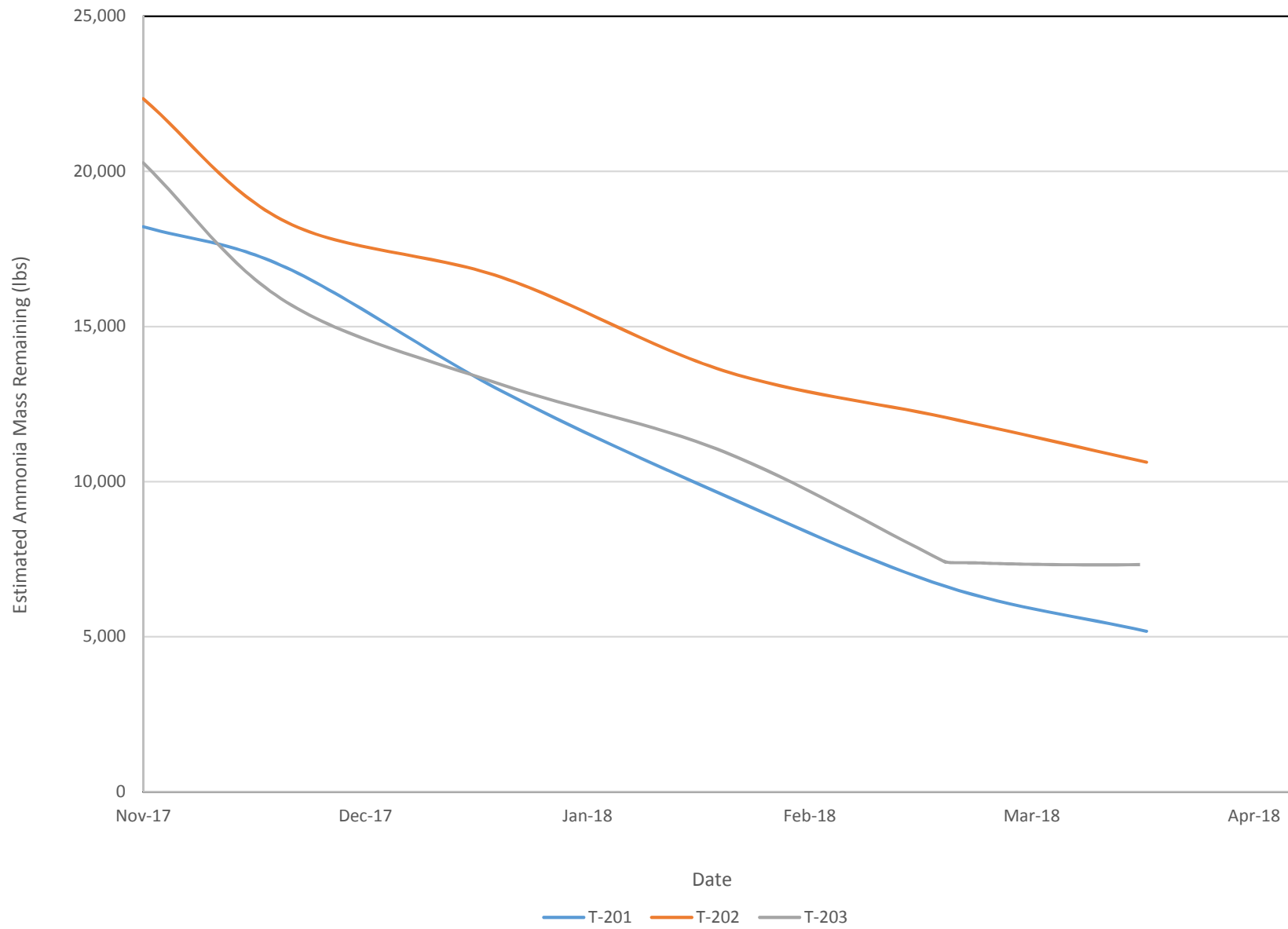


Figure 3. Estimate of Ammonia Mass Remaining in Process Tanks



Attachment A
Phase III O&M Routine Inspection Forms

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/1/18

Time: 0750

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 Tanks.
Flowmeter: 1,771, 315 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out?*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed?*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> 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 <u>51°</u> Oil temperature	73	57/43 ^{°F}	78	56/42 ^{°F}	78	56/49 ^{°F}

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/1/18

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.)

Operator Signature: Kyle S. Hansen

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/2/18

Time: 1700

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 Tanks.
Flowmeter: 1,812,190 (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?
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*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> 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 <u>68</u> Oil temperature	<u>82</u>	<u>66</u> °F	<u>96</u>	<u>67</u> °F	<u>98</u>	<u>66</u> °F
		<u>81</u>		<u>94</u>		<u>91</u>

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/2/18

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.)

Operator Signature: *Kyle J. Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/3/18

Time: 1550

Inspector Initials: JRTS

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 Tanks.
Flowmeter: 1,812,665 (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?
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. Air Temperature: 55 °F
8. 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?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

9. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Precipitate or crystals present on tank sides or mixer impeller? If yes, wash down with SLMW.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Is there adequate oil in Process Tank mixers?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Oil temperature	<u>82</u> °F		<u>78</u> °F		<u>86</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/3/18 Time: 1550 Inspector Initials: JRJ

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.)

Operator Signature:  _____

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/4/18 Time: 1705 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 Tanks.
Flowmeter: 1,813,080 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out?***	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed?***	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>59</u> Oil temperature	<u>101</u>	<u>60</u> <u>94</u> °F	<u>110</u>	<u>61</u> <u>92</u> °F	<u>109</u>	<u>59</u> <u>86</u> °F

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/4/18

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.)

Operator Signature: Kyle S. Hansen

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/5/18

Time: 1630

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 Tanks.
Flowmeter: 1,829,100 (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?
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*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out?*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed?*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>67°</u> Oil temperature	70	63 83 °F	117	93 67 °F	105	62 88 °F

Decanted from T-201 37K gallons

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/5/18

Time: _____

Inspector Initials: KGH

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.)

Operator Signature: *Kyle S. Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/6/18 Time: 1125 Inspector Initials: KSL

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 Tanks.
Flowmeter: 1,857,320 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out?***	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed?***	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>62°</u> Oil temperature	101	<u>69°</u> F 96	111	<u>64°</u> F 90	102	<u>65°</u> F 85

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/6/18 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.)

T-201 motor vibration is still an issue

Operator Signature: *Kyle S. Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/7/18

Time: 0835

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 Tanks.
Flowmeter: 1,857,740 (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?
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*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out?*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed?*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> 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 <u>52°</u> Oil temperature	107	$\frac{61}{86}$ °F	110	$\frac{56}{85}$ °F	109	$\frac{59}{81}$ °F

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/7/18 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.)

T-201 vibration in electrical motor

Operator Signature: *Kyle S. Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/8/18 Time: 1810 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 Tanks.
Flowmeter: 1,882,100 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out?***	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed?***	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>67°</u> Oil temperature	<u>110</u> °F		<u>138</u> °F		<u>115</u> °F	

Decant today

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/8/18

Time: _____

Inspector Initials: KGH

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.)

Operator Signature: *Kyle S. Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/9/18

Time: 0805

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 Tanks.
Flowmeter: 1888.850 (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?
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*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	No
All decant valves and transfer valves locked out?***	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed?***	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>55</u> Oil temperature	<u>108</u> °F		<u>102</u> °F		<u>102</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/9/18

Time: _____

Inspector Initials: KGH

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.)

Operator Signature: *Kyle S. Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/10/18

Time: 1430

Inspector Initials: KSIF

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 Tanks.
Flowmeter: 1,902,650 (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?
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*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <u>NA</u>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>68°</u> Oil temperature	<u>103 °F</u>		<u>106 °F</u>		<u>109 °F</u>	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/10/18

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.)

 T-201 motor vibration same.

Operator Signature: *Kyle Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/11/18 Time: 1545 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 Tanks.
Flowmeter: 1,903,470 (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? 9"
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
If Yes, pump storm water into one of the process tanks. *pumpies*

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*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	Yes	<input checked="" type="radio"/> No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes	No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	Yes	<input checked="" type="radio"/> No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <i>NA</i>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>69</u> Oil temperature	<u>108</u> °F		<u>72</u> °F		<u>114</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/11/18 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.)

Decant 38 K gallons from T-202

T-201 motor vibration same.

Operator Signature: Kyle S. Hansen

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/12/18

Time: 0950

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 Tanks.
Flowmeter: 1,932,350 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>60°</u> Oil temperature	<u>111</u> °F		<u>102</u> °F		<u>106</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/12/18 Time: _____ Inspector Initials: ESH

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 motor still has vibration issues.

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 7/13/18

Time: 0945

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 Tanks.
Flowmeter: 1,940,750 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>62°</u> Oil temperature	111 °F		106 °F		116 °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/13/18

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.)

T-201 Vibration is the same

Operator Signature: Kyle S. Hansen

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/14/18

Time: 1145

Inspector Initials: KSH

PROCESS PIPING INSPECTION

- 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: 1,940,760 (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
- Is there storm water accumulation greater than 1 foot? Yes No
If Yes, pump storm water into one of the Process Tanks.
- 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

- 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*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

- Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>72°</u> Oil temperature	<u>92</u> °F		<u>90</u> °F		<u>96</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/14/18

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.)

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/15/18 Time: 0955 Inspector Initials: ESH

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 Tanks.
Flowmeter: 1,940,760 (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?
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*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>57°</u> Oil temperature	<u>82</u> °F		<u>77</u> °F		<u>80</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/15/18

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.)

T-201 motor vibration has not gotten worse.

Operator Signature: *Kyle S. Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/16/18

Time: 0810

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 Tanks.
Flowmeter: 1,941,610 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <i>NA</i>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>48°</u> Oil temperature	<u>42</u> °F		<u>94</u> °F		<u>95</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/16/18

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.)

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/17/18

Time: 1156

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 Tanks.
Flowmeter: 1,941, Cors (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <u>NA</u>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>58</u> Oil temperature	<u>84</u> °F		<u>80</u> °F		<u>88</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/17/08

Time: _____

Inspector Initials: _____

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.)

Operator Signature: *Kyle S. Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/18/18 Time: 1240 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 Tanks.
Flowmeter: 1,941, 620 (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?
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*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>63</u> Oil temperature	91 °F		90 °F		89 °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/18/18 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.)

Operator Signature: Kyle S. Hansen

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/19/18 Time: 1205 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 Tanks.
Flowmeter: 1,942,030 (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?
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*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank: 4389 4245 4379

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <u>N/A</u>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>64°</u> Oil temperature	<u>95</u> °F		<u>108</u> °F		<u>107</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/19/18

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.)

Operator Signature: *Kyle S. Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/20/18 Time: 1030 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 Tanks.
Flowmeter: 1,942,035 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out?***	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed?***	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <u>NA</u>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>56</u> Oil temperature	<u>99</u>	°F	<u>106</u>	°F	<u>104</u>	°F

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 2/20/18

Time: _____

Inspector Initials: KGH

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.)

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/21/14 Time: 0825 Inspector Initials: KSL

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 Tanks.
Flowmeter: 1,942.060 (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?
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*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <u>NA</u>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>60°</u> Oil temperature	<u>104</u> °F		<u>107</u> °F		<u>103</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/21/18 Time: _____ Inspector Initials: RSI

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 still has vibration in motor

Operator Signature: Kyle S. Hansen

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/22/18

Time: _____

Inspector Initials: KSA

NOTES:

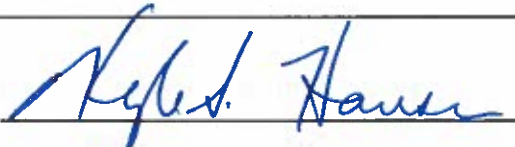
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

** - 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.)

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/22/18 Time: 1100 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 Tanks.
Flowmeter: 1,942,065 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> 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 <u>67°</u> Oil temperature	<u>103</u> °F		<u>109</u> °F		<u>107</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/23/18 Time: 1145 Inspector Initials: KGH

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 Tanks.
Flowmeter: 1,942.065 (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?
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	
	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>70°</u> Oil temperature	<u>99</u> °F		<u>97</u> °F		<u>101</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/23/18 Time: _____ Inspector Initials: RSH

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.)

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/24/18 Time: 0915 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 Tanks.
Flowmeter: 1,942,780 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <u>NA</u>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>65</u> Oil temperature	<u>98</u> °F		<u>96</u> °F		<u>99</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/24/18 Time: _____ Inspector Initials: KGH

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.)

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/25/18 Time: 1415 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 Tanks.
Flowmeter: 1942.785 (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
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-204	
	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	No
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>65</u> Oil temperature	<u>88</u> °F		<u>84</u> °F		<u>88</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/25/18

Time: _____

Inspector Initials: KSH

NOTES:

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** - 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.)

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/20/18 Time: 0910 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 Tanks.
Flowmeter: 1,942,810 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out?***	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed?***	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <u>NA</u>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>49°</u> Oil temperature	<u>83</u> °F		<u>77</u> °F		<u>78</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/20/18 Time: _____ Inspector Initials: RS H

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.)

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/27/18 Time: 0940 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 Tanks.
Flowmeter: 1,942, 845 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out?***	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed?***	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>59°</u> Oil temperature	<u>74</u>	°F	<u>74</u>	°F	<u>74</u>	°F

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/27/18 Time: _____ Inspector Initials: KH

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.)

Greased T-202 motor bearing - slight noise quieted.

Operator Signature: Kyle Hansen

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/28/18

Time: 1010

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 Tanks.
Flowmeter: 1942, 845 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed? **	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <u>NA</u>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>68°</u> Oil temperature	<u>103</u> °F		<u>108</u> °F		<u>101</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/28/18 Time: _____ Inspector Initials: KG A

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.)

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/29/18 Time: 1025 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 Tanks.
Flowmeter: 1,942,847 (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?
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*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
All decant valves and transfer valves locked out? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA
Are transfer pumps ready for service?	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No	Yes*	<input checked="" type="radio"/> No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No	<input checked="" type="radio"/> Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No	Yes	<input checked="" type="radio"/> No
Mixer running and turbulence/vortex observed? **	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*	<input checked="" type="radio"/> Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <i>N/A</i>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>76°</u> Oil temperature			<u>114</u> °F	<u>113</u> °F	<u>108</u> °F	

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/29/18 Time: _____ Inspector Initials: KEH

NOTES:

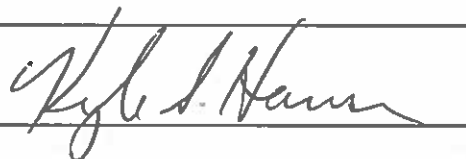
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

** - 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.)

Operator Signature: 

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/30/18 Time: 1000 Inspector Initials: K&H

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 Tanks.
Flowmeter: 1,942,847 (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?
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*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out?*	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed?*	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? <u>NA</u>	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>73°</u> Oil temperature	<u>111</u>	°F	<u>109</u>	°F	<u>109</u>	°F

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/30/18 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.)

Operator Signature: *Kyle S Hansen*

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

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/31/18 Time: 1220 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 Tanks.
Flowmeter: 1,943,720 (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
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-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
All decant valves and transfer valves locked out?***	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA
Are transfer pumps ready for service?	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	<u>No</u>	Yes*	<u>No</u>	Yes*	<u>No</u>
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	<u>Yes</u>	No	<u>Yes</u>	No	<u>Yes</u>	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	<u>No</u>	Yes	<u>No</u>	Yes	<u>No</u>
Mixer running and turbulence/vortex observed?***	<u>Yes</u>	No*	<u>Yes</u>	No*	<u>Yes</u>	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan? NA	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>91</u> Oil temperature	<u>118</u>	°F	<u>123</u>	°F	<u>118</u>	°F

K05 PHASE III O&M ROUTINE INSPECTION FORM

Date: 3/31/18 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.)

Operator Signature: 

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	
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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: 3/30/18

Time: 0810

Inspector Initials: JR

INSPECT MATERIALS AND PARTS

1. Are all spare parts present? Yes No
 If no, list which parts need to be ordered and inform Site Implementation Manager: _____

2. Are all safety materials, resources, and supplies to perform work present? Yes No
 If no, list what needs to be ordered and inform Site Implementation Manager: _____

PUMP OPERATION INSPECTION

3. Check if all AODD transfer pumps are in good condition and working order. Provide notes and contact the Site Implementation Manager if any repairs are required:

P-201	<input checked="" type="checkbox"/>	_____
P-202	<input checked="" type="checkbox"/>	_____
P-203	<input checked="" type="checkbox"/>	_____
P-204	<input checked="" type="checkbox"/>	_____
P-205	<input checked="" type="checkbox"/>	_____
P-206	<input checked="" type="checkbox"/>	_____

HIGH-HIGH LEVEL ALARMS INSPECTIONS

4. Check if the high-high level warning alarm system is in good condition for each tank. Provide notes and contact the Site Implementation Manager if any repairs are required:

	T-201		T-202		T-203		T-204	
Check what level the High-High alarm signals – is it consistent with the set points?	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*
Test reset procedure – were there any issues?	<input type="radio"/> Yes*	<input checked="" type="radio"/> No	<input type="radio"/> Yes*	<input checked="" type="radio"/> No	<input type="radio"/> Yes*	<input checked="" type="radio"/> No	<input type="radio"/> Yes*	<input checked="" type="radio"/> No
Are all alarm status lights in good working order?	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*
Are the shut-off devices in good working order?	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*
Visible damages to the alarm cords and cables?	<input type="radio"/> Yes*	<input checked="" type="radio"/> No	<input type="radio"/> Yes*	<input checked="" type="radio"/> No	<input type="radio"/> Yes*	<input checked="" type="radio"/> No	<input type="radio"/> Yes*	<input checked="" type="radio"/> No

Notes: _____

K05 PHASE III O&M MONTHLY INSPECTION FORM

Date: 3/30/18

Time: 0845

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?	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*	<input checked="" type="radio"/> Yes	<input type="radio"/> No*
Control panel mixer run time**	8649.0 hrs		8545.5 hrs		8639.6 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:

Activity	Date of Next Replacement or Maintenance	Comments
Replace 3" decant transfer hoses	Aug 1, 2018	
Replace 3" solid transfer hoses	Aug 1, 2018	
Replace 1.5" SLMW flush hose	Dec 15, 2018	
Replace 3" stainless steel doublesphere expansion joints	Aug 1, 2018	
Replace air compressor filter element	April 16, 2018	
Service air compressor	Jan 26, 2019	
Change process tank mixer gear box oil**	April 18, 2018	
Grease gear seals on process tank mixer	June 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 = 1,276.2 hours, M-202 = 1,253.2 hours, M-203 = 1,277.5 hours

COMMENTS:

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

Operator Signature: 

K05 PHASE III O&M MONTHLY INSPECTION FORM

Date: 3/30/18

Time: 0845

Inspector Initials: JR

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	
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Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334