Couvillion Group, LLC

MC 20 Hydrocarbon Pump-Off #4 Results Report

Document #: Couv-MC20-O&M-RPT-DOC-00013

7/9/19

Revision	Date	By	Check	Approve	Remarks
0	7/9/19	[redacted]			Initial Document

Summary:

Couvillion Group's Rapid Response Collection System initiated its fourth collection cycle on 5/12/2019 and completed the cycle on 6/13/2019 resulting in a collection duration of 31.5 days. Using the OSV Brandon Bordelon the collected hydrocarbon fluid recovered from the subsea oil containment vessels was taken to the Couvillion Dock in Venice, Louisiana. Dockside Transfer commenced on 6/14/2019, with 901.66 bbl of hydrocarbon fluids transferred to an onshore frac tank which had residuals from Pump Off, and according to strap measurements the tanks then had a total of 918.96 bbl. Over the next 5-day period water separated from the oil and was collected in the bottom of the frac tank. On the morning of 6/19/2019 Couvillion Group reconfirmed that 918.96 bbl of hydrocarbon fluid remained in the tank by strap measurement and transfer of fluids from the frac tank to transport trucks began. A total of 889.7 bbl of fluid was transferred from the Venice Yard to the Acadiana Oil Company in Berwick, Louisiana using seven tank trucks. A total of 0.6 bbl of residual fluid (mostly water with some hydrocarbon) remained in the frac tank. Total fluids reconciliation was within -1.8%.

After measuring the BS&W content and taking specific gravity and temperature into account at the Acadiana Oil Company site, the net crude oil collected during this collection cycle was 850.0 bbl.

Procedures Followed:

Couvillion Group and the associated companies participating in the collection and transportation of hydrocarbon fluids from the MC-20 site to the Acadiana Oil Company site have compiled a set of procedures that are followed throughout the process. The MC20 Response Disposal Plan with associated documentation pertaining to custody transfer and hydrocarbon fluids measurements for this report are in Appendix I. Appendix II includes the NRC waste handling documentation.

Execution:

Offshore Collection of Hydrocarbon Fluids at MC 20 Site:

The Brandon Bordelon OSV moved in place on location at MC20 on 6/13/2019 to begin pump off procedures. ROV's were launched on and shortly thereafter the hydraulic subsea pump and hoses were over boarded and at 23:50 hrs on 6/13/19 they were connected to the offload outlets on the subsea oil storage containers on the Rapid Response System. Pumping commenced at 00:00 hrs on 6/13/2019 and ended at 12:39 on 6/13/19. Fluid was sampled on the vessel every 20 minutes for field analysis to determine the estimated oil to water ratios until water breakthrough occurred and collection operations were then stopped. **A total of 901.66 bbl of hydrocarbon fluid was collected.** Upon pump off completion the hoses and pump are surfaced and flushed with saltwater that is sent to a filtration system for treatment and over boarding.

Vessel to Dockside Transfer

Upon arrival at the Couvillion Dock in Venice, Louisiana on 6/19/2019 hoses were run from the tanks on the vessel through a diaphragm pump which was on a Couvillion provided barge and then run to a 500 bbl frac tank. This pump-off process continued until all NPT tanks aboard the OSV Brandon Bordelon were empty. Tankermen from Team Services verified that the NPT tanks onboard the vessel are empty, then an NRC representative strapped the dockside frac tank to determine **the total quantity transferred which was 905.5 bbl.** With dockside transfer complete, the fluid was allowed to settle out water from the oil over a period of 5 days before transfer of the oil to tank trucks.

Dockside Frac Tanks to Truck Transfers

On the morning of 6/19/2019 at 08:00 hrs the first round of frac tanks to tank truck transfers commenced. An initial measurement was taken to verify that 918.96 bbl of hydrocarbon fluids remained in the tank. A hose was then attached to the frac tanks and ran through a diaphragm pump into a tank truck. Pumping commenced and the first truck received 139.38 bbl of hydrocarbon fluids. The second tank truck was loaded with 138.71 bbl. The second day of frac tank to tank truck transfers began on 6/20/19 at 8:00. The first truck was loaded with 137.73 bbl, the second truck was loaded with 140.7. The third and fourth trucks were loaded with 140.59 bbl and 144.1 bbl. The last day of frac tank to tank truck transfers began at 09:00 on 6/21/19 with the final truck loaded with 48.5 bbl of hydrocarbon fluids. At this time an NRC representative and a Couvillion Representative double checked all strap measurements in the trucks, and residual left in the frac tank (0.6 bbl). All values were recorded in the appropriate forms in the MC-20 Response Disposal Plan (see report Appendix I). Trucks were then released and began transport to the Acadiana Oil Company site in Berwick, Louisiana.

Truck to Facility Transfer

Upon arrival at the Acadiana Oil Company site each truck enters a loading bay. Before any fluids are transferred an Acadiana Oil Representative straps their tank for an initial measurement and then transfer of fluid begins. While the pump off is underway an Acadiana Oil Company Representative takes three fluid samples during the transfer process from the pump outlet from which hydrocarbon fluid is flowing. These samples are taken at the beginning of the transfer, mid-way through the transfer, and at the end of the transfer process. In other words when the tank truck volume is full, half-full and nearly empty. These readings are referred to as top, middle and bottom readings, respectively. These (3) samples are mixed together and then shaken vigorously to ensure a full mixture. The sample is then taken to their testing area where tests are run to determine: % BS&W content, temperature, and specific gravity. Temperature and specific gravity are recorded via the use of a hydrometer, while BS&W content is determined via the use of a centrifuge with a 50/50 mixture of the sample with mineral spirits. Once all sampling is completed and recorded (see copy in Appendix I) the Acadiana Oil Company Representative again straps their tank in order to obtain a post transfer level. The gross fluids that are recorded is determined by subtracting the initial pump off tank strap level from the post transfer tank strap level. This gross fluid value is corrected for temperature, specific gravity and BS&W content to determine the net oil value that is recorded. This process is repeated for each truck offload.

Summary Tally and Running Totals:

The tables below show an oil tally, a total fluid reconciliation and a flow rate calculation. In total 901.7 bbl of hydrocarbon fluid was transferred from the Brandon Bordelon into an onshore frac tank. Tank trucks transported 889.7 bbl to the Acadiana Oil Company site which netted out 850.0 bbl of crude oil.

From a total fluids reconciliation standpoint measurements at different site locations were within -1.8%.

The calculated flow rate during the 31.5-day collection cycle offshore was 27.0 bbl/day or 1132.3 gallon/day.

Oil Tally

					Truck 1				Truck 2				Truck 3				Truck 4					Running
Oil Tally	Date	Total Fluid Transfer by Cypress (bbl)	Total Fluid Frac Tank Strap by NRC (bbl)	% Diff	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluid at Acadiana by strap (bbl)	% Diff	Net Oil (bbl)	Total Net Oil (bbl)	Total Net Oil (bbl)
Pump Off #1	4/26/2019	220.0	215.7	-2.0																		
	5/6/2019				113.7	110.0	3.3	108.8	97.0	87.4	9.9	78.6									187.4	187.4
Pump Off #2	5/3/2019	246.3	223.5	-10.2																		
	5/8/2019				101.3	102.0	-0.7	99.7	82.8	83.8	-1.2	81.9									181.6	369.0
Pump Off #3	5/13/2019	335.0	331.2	-1.1																		
	5/16/2019				103.2	89.1	13.7	82.9	126.4	136.4	-7.9	132.1	108.5	99.5	8.3	80.7					295.7	664.8
Pump Off #4	6/19/2019	910.2	905.5	-0.5	139.4	145.8	-4.6	143.0	138.7	139.4	-0.5	137.4										
	6/20/2019				137.7	136.2	1.1	113.0	140.7	141.4	-0.5	139.4	140.6	141.4	-0.6	134.2	144.1	141.4	1.9	138.4		
	6/21/2019				48.5	47.1	2.8	44.6													850.0	1514.8

Total Fluid Reconciliation

				Truck 1	Truck 2	Truck 3	Truck 4			
	Date	Total Fluid Frac Tank Strap at Venice by NRC (bbl)	Water Decanted From Frac Tank Using Strap Measurement (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Total Fluids to Acadiana NRC Frac Strap (bbl)	Residual left in Frac Tanks (bbl)	Total of Fluid From Trucks, Residual & Decant (bbl)	% Diff
Pump Off #1	4/26/2019	215.7	0.0							
	5/6/2019			113.7	97.0	0.0	0.0	5.2	215.9	0.1
Pump Off #2	5/3/2019	223.5	15.6							
	5/8/2019			101.3	82.8	0	0	17.6	217.3	-2.8
Pump Off #3	5/13/2019	331.2	0.0							
	5/16/2019			103.2	126.4	108.5	0	16.2	354.3	-1.6
Pump Off #4	6/19/2019	905.5	32.5	139.4	138.7	0.0	0.0		310.6	
	6/20/2019			137.7	140.7	140.6	144.1		563.1	
	6/21/2019			48.5	0	0	0	0.6	49.1	
	PO4: Total								922.8	-1.8

Barrels of Oil Collected Daily

	Start Date	Start Time (hrs)	End Date	End Time (hrs)	Total Collection Duration (Days)	Net Oil Collected (bbl)	RRS Collection Rate Of Oil (bbl/day)	Collection Rate of Oil (gallon/day)
Collection Duration for 1st Trip	4/12/2019	0:00	4/23/2019	1:05	11.0	187.4	17.0	715.7 gallons/day
Collection Duration for 2nd Trip	4/23/2019	1:05	4/30/2019	21:09	7.9	181.6	23.0	965.6 gallons/day
Collection Duration for 3rd Trip	4/30/2019	21:09	5/12/2019	23:20	12.1	295.7	24.4	1,026.5 gallons/day
Collection Duration for 4th Trip	5/12/2019	23:20	6/13/2019	17:17	31.5	850.0	27.0	1132.3 gallons/day

Appendix1

MC20 Product Removal and Transportation with Completed Documentation

United States Coast Guard
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MC-20 Response Disposal Plan

Document #: Couv-O&M-Doc-00004

3/18/19

Revision	Date	By	Check	Approve	Remarks
Rev. 0	3/18/19	[redacted]			Initial Document

United States Coast Guard
U.S. Department of Homeland Security

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MC-20 Response Disposal Plan

USCG Contractor: Couvillion Group
Spilled Material: Crude OIL
Spill Volume (estimate): TBD
Spill Location: MC 20
Date: 01 April 2019

This plan covers the disposal of oily waste debris (including debris, sediment, absorbents, oily water and recovered oil) from the MC-20 site. It addresses the plan for disposal of waste debris after the maintenance vessel has collected and off-loaded these materials into storage tanks or lined storage boxes at the Couvillion Shore Base in Venice, LA. All applicable state, local and federal laws and regulations will be followed when recycling or disposing of the recovered material. Disposed material will be tracked to provide an accurate means of estimating total waste generated from response. All materials will be categorized and itemized for safe and efficient collection, staging, storage and recycling or disposal.

This plan may be amended as necessary to ensure compliance with all applicable laws and regulations, as new materials or waste streams are encountered, or alternative means of disposal are needed. Amendment may occur only upon mutual agreement of the USCG Contractor (Couvillion Group) and the Disposal Contractor (NRC).

Submitted By: [redacted] Date: 03/18/2019
Printed Name: [redacted]

Approved Couvillion Group, LLC: [redacted] Date: 03/18/2019
Printed Name: [redacted]

Approved by USCG: [redacted] e: 03/18/2019
Printed Name: [redacted]

SECTION I: WASTE MANAGER AND WASTE HANDLERS

This section lists the contractors assigned and key roles staffed to support disposal.

Name of Company	Disposal Functions	Company Representative (Name, Phone #)
NRC / OMI LLC	Waste Broker	[redacted]
OMI LLC	Waste Hauler	
Industrial Response Svcs.	Waste Hauler	
WWD – Waste Water Disposal	Water Treatment Facility	
River Birch Subtitle D Landfill	Non-Hazardous Disposal Landfill	

- Note that additional waste haulers may be used due to availability of trucks.
- Additional disposal facilities may be required pending analytical results. List above will be updated once waste classification is made and additional facilities are required.

SECTION II: INTERIM STORAGE, SEGREGATION, PROFILING, AND TRACKING

A. INTERIM STORAGE OF SOLID AND LIQUID MATERIAL

Interim storage will be located at: Couvillion Venice Shore Base;
433 McDermott Rd; Venice, LA 70091; (504) 912-4891 (24 HR)

A special purpose maintenance vessel with the appropriate processing equipment will go to the MC-20 site and take onboard hydrocarbons collected subsea from the Rapid Response System on a frequency to be determined after initial pump drawdowns. This vessel will then return to the Couvillion Shore Base at Venice where the collected hydrocarbons and associated water will be offloaded to 3 – 500 BBL Double Wall Frac Tanks or initially to 3-500 BBL single wall frac tanks with berms if needed until double walled Frac Tanks become available. Further details pertain to offloading and measurement of total liquids can be found in Maintenance Procedure 0004 entitled "Dockside Transfer" and are outside the scope of this document. This document addresses the disposal of oily waste material once the liquids have been offloaded from the vessel into interim storage tanks and any solid waste stored offloaded into interim lined storage baskets at the Venice Shore Base.

The collected hydrocarbons and associated water offloaded to each of the 3-500 BBL storage tanks will be measured using a calibrated turbine meter and recorded in Attachment A. During the initial offloading there will be no residual fluid in the tanks. However, on subsequent offloadings there may be residual fluid in the tanks from prior operations and this value should be recorded in Attachment A before any offloading begins. Once the offloading is complete the tanks will be strapped and comparison done between the meter offloading value and the strapped tank value. If there is a discrepancy of more than 2% then an attempt should be made to explain this discrepancy. After completion of this work the appropriate parties will sign-off on Attachment A.

After a minimum 12 hours from vessel offloading and prior to waste disposal liquid transfer, each storage tank will have it's total volume of liquid measured using a strap tape technique and recorded in Attachment B. The barrels of sediment and water (BS&W) will be measured by strap tape with "Kolor Kut" applied as well as the volume of oil. The appropriate parties will sign-off on Attachment B and the Couvillion representative will give approval to begin pump-off operations.

The oil will be pumped into tank trucks with appropriate metering and recorded in Attachment C with appropriate signatures. The residual oily water will be left in the interim storage tank and then periodically pumped back to the maintenance vessel storage tanks provided by Cypress for further filtration and discharge and recorded in Attachment D as well. The oil transferred to the NRC provided storage trucks will then be sent for recycle. Shipment of collected, segregated and custody transferred metered volumes of oil will be shipped to either Acadiana, PSC, Plains Pipeline or other reputable company.

No truck will leave the yard without written approval from Couvillion Group and without the appropriate paperwork completed and a copy provided to the Couvillion On-Site Representative.

All Trucks on site and utilized during these operations will be secured at the end of each shift by inspecting all valves, brakes, gauges, etc., and bleeding pressure from the system to prevent inadvertent opening of pneumatic valves.

B. SEGREGATION

Lined storage boxes delivered to the site will remain on site as interim solid waste storage pending analytical results, profile approval, and load scheduling. Boxes will be secured at the end of each working day to ensure roll tarps are in place preventing rainwater collection inside of box. NRC will seek written approval from the USCG Contractor Couvillion Group for disposal and will provide the appropriate paperwork include Attachment E.

All petroleum impacted solids (i.e., absorbents, vegetation, soil, debris, etc.) will be comingled into lined storage boxes for disposal at a landfill pending hazardous waste determination and profile approvals acquired by NRC on behalf of USCG Contractor. An up-to-date Waste Management Tracking form (See Attachment E) and the appropriate permits will be maintained by NRC and copies provided to USCG Contractor.

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C. PROFILING

Waste profiles will be generated by NRC upon proper hazardous waste determination based on the analytical results. All profiles are to be signed by NRC personnel via signed Broker Authorization Letter. Copies of profiles will be provided with billing tickets. Materials sent for recycle will not require a waste profile. Under no circumstances will NRC, OMI or USCG Contractor be listed as the Generator.

D. TRACKING

All waste will be tracked by NRC / OMI's Disposal Department with copies of documentation provided to the USCG Contractor. Tracking will include management of waste manifests with indication of box numbers or truck numbers, dates of shipment, manifested volumes, and scale tickets. . Waste load outs will be managed by site supervisors overseeing operations.

SECTION III: WASTE DISPOSITION

Liquids: Residual oily water will be left in the Frac tanks and then periodically pumped back to the maintenance vessel storage tanks provided by Cypress for further filtration and discharge. The collected oil will be sent to a recycle facility by NRC.

Solids: The solid waste will be manifested and shipped to River Birch Subtitle D Landfill for Land Disposal. The RP/UC must make the determination based on analysis and generator knowledge that the waste is below all RCRA hazardous waste limits.

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Attachment A: Dockside Transfer – Transfer of Liquid and Crude Oil in Accordance with Maintenance Procedure #0004

Date: 6-14-2019

Time Transfer Ended: 2235

	Column A	Column B	Column C	Column D	
	Residual Tank Volume from prior Operation bbls	**Tank Volume Measured from Offloading Meter bbls**	**Tank Strap Volume after Offloading bbls**	**Volume of Fluid (Column C-A) bbls**	**% Difference Column (D-B)/D * 100**
Tank 1	0	~~442~~ 442.26	349.06	349.06	
Tank 2	13.7	0	215.70	202.20	
Tank 3	0	459.40	354.20	354.20	
Total	13.7	901.66	918.96	905.46	0.41196

Note: If the % Difference is greater than 2% please attempt to explain the difference: We had to used the totals from the measurement Due to, Only having 2 Tanks for the Recovery

Sign-off by:

USCG Rep Signed Name [redacted] Printed Name [redacted] Date: 14JUNE2019

Couvillion Rep Signed Name: [redacted] Printed Name [redacted] Date: 6-14-19

Cypress Rep Signed Name [redacted] Printed Name [redacted] Date: 6/14/19

NRC Rep Signed Name: [redacted] Printed Name [redacted] Date: 6/14/2019

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Attachment B: Venice Shore Base On-Site Interim Tank Storage Measurements Before Offloading to Tank Trucks

Date: 6 - 19 - 19 Time: 0800

Time Measurements begin after Vessel Offloading in hours 918.96

Note that there must be a 12 hr minimum settlement time before these strapping measurements are taken

	Column A Tank Strap from Offloading (Use Column C from Attachment A) bbls	Column B Interim Tank Strap Measurement bbls	Column C BS&W Volume using Kolor Kut Strapping bbls	Oil Volume Column (B-C) bbls
Tank 1	349.06	343.9	1.5 / 1.9 bbl	342.2
Tank 2	215.70	215.7	5.0 / 13.7 bbl	202.0
Tank 3	354.20	351.2	2.3 / 3.4 bbl	347.8
Total	918.96	910.8	18.8	892

Sign-off by: USCG Rep Signed Name [redacted] Printed Name [redacted] Date 19 JUN 19

Couvillion Rep Signed Name [redacted] Printed Name [redacted] Date 6/19/2019

Cypress Rep Signed Name [redacted] Printed Name [redacted] Date

NRC Rep Signed Name [redacted] Printed Name [redacted] Date 19 Jun 19

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Attachment C: WASTE MANAGEMENT TRACKING FORM

Crude Oil

Start of Shipment Date: 6-19-2019 0830

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Tank Truck Strap (gallons/bbls)	Volume offloaded from Frac Tank Strap Measurement (gallons/bbls)	Shipment Received and Sign-Off
1	Kent	7461 Kent 4	6-19-19	AOC	139.38	140.6	
2	Kent	3913 Kent 8	6-19-19	AOC	138.71	138.0	
Total Volumes Shipped by Gallons/bbls							

End of Shipment Date: _____

6-19-19

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Attachment C: WASTE MANAGEMENT TRACKING FORM (Continued)

Residual Volume left in Tanks

T1	Strap Measurement after Trucks Loaded in each tank bbls
~~Tank 1~~	54.3
~~Tank 2~~	17.33
~~Tank 3~~	0

AD 6700 BW

Sign-off by:

USCG Rep Signed Name [redacted] Printed Name [redacted] Date 19 JUN 19

Couvillion Rep Signed Name [redacted] Printed Name [redacted] Date 6/19/2019

Cypress Rep Signed Name [redacted] Printed Name [redacted] Date

NRC Rep Signed Name [redacted] Printed Name [redacted] Date 19 Jun 19

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U.S. Department of Homeland Security

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Attachment D: Recycle of Oily Water from Frac Tanks to Maintenance Vessel

Date: 6-19-2019

	Total Tank Strap Measurement bbls	BS&W Volume using Kolor Kut Strapping bbls	Volume of oily water transferred to ~~Maintenance Vessel~~ Vac Truck using Strap Measurement bbls
Tank 1			1.7 bbl
Tank 2			13.7 bbl
Tank 3			3.4 bbl

All Tank ~~Strapped~~ Decanted At the same Time.

Residual Volume left in Tanks

	Strap Measurement bbls
Tank 1	
Tank 2	
Tank 3	

Sign-off by:

USCG Rep Signed Name: [redacted] Printed Name [redacted] Date: 20 JUN 2019

Couvillion Rep Signed Name: [redacted] Printed Name [redacted] Date: 6-20-19

Cypress Rep Signed Name: [redacted] Printed Name [redacted] Date:

NRC Rep Signed Name: [redacted] Printed Name [redacted] Date 06-20-2019

United States Coast Guard

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Attachment C: WASTE MANAGEMENT TRACKING FORM

Crude Oil

Start of Shipment Date: 6-20-19

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Tank Truck Strap (gallons/bbls)	Volume offloaded from Frac Tank Strap Measurement (gallons/bbls)	Shipment Received and Sign-Off
①	L+B	756 848	6/20/19	AOC	137.73	133.08	
②	Kent	Ke 62 kes 74	6/20/19	AOC	140.7	138.0	
③	L+B	7490 800356	6/20/19	AOC	140.59	143.3	
④	L+B	7548 8980	6/20/19	AOC	144.11	140.925	
				Total Volumes Shipped by Gallons bbls			

End of Shipment Date:

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Attachment C: WASTE MANAGEMENT TRACKING FORM (Continued)

Residual Volume left in Tanks

90.10

(1)	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	70.25" 267.18 bbl
Tank 2	32.33" 116 bbl
Tank 3	0 0 bbl

Sign-off by:

USCG Rep Signed Name: [redacted] Printed Name: [redacted] Date: 20 JUN 2019

Couvillion Rep Signed Name: [redacted] Printed Name: [redacted] Date: 6-20-19

Cypress Rep Signed Name: [redacted] Printed Name: [redacted] Date:

NRC Rep Signed Name: [redacted] Printed Name: [redacted] Date 06-20-19

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U.S. Department of Homeland Security

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Attachment C: WASTE MANAGEMENT TRACKING FORM

Crude Oil

Start of Shipment Date: 0900 06/21/2019

Manifest Number	Transporter	Truck Number	Date	Receiving Facility	Manifested Volume loaded from Tank Truck Strap (gallons/bbls)	Volume offloaded from Frac Tank Strap Measurement (gallons/bbls)	Shipment Received and Sign-Off
(1)	L23	7548 8480	6-21-19	AOC	48.5	47.92	
Total Volumes Shipped by Gallons/bbls							

End of Shipment Date: 06/21/2019

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Attachment C: WASTE MANAGEMENT TRACKING FORM (Continued)

Residual Volume left in Tanks

570

21	Strap Measurement after Trucks Loaded in each tank bbls
~~Tank 1~~	570 / 192.40
~~Tank 2~~	13.81 / 47.98
~~Tank 3~~	.175

Sign-off by:

USCG Rep Signed Name [redacted] Printed Name [redacted] Date: 21 JUN 19

Couvillion Rep Signed Name [redacted] Printed Name [redacted] Date 6-21-19

Cypress Rep Signed Name [redacted] Printed Name [redacted] Date:

NRC Rep Signed Name [redacted] Printed Name [redacted] Date 6-21-2019

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Attachment C: WASTE MANAGEMENT TRACKING FORM (Continued)

Residual Volume left in Tanks

	Strap Measurement after Trucks Loaded in each tank bbls
Tank 1	0.4 BBLs
Tank 2	
Tank 3	

* Tank 2 on the Morning of 6-21-19 was decanted into tank 1 which was empty.

Sign-off by:

USCG Rep Signed Name: [redacted], Printed Name [redacted] Date: 21 JUN 19

Couvillion Rep Signed Name: [redacted], Printed Name [redacted] Date: 6-21-19

Cypress Rep Signed Name: [redacted], Printed Name [redacted] Date:

NRC Rep Signed Name: [redacted], Printed Name [redacted] Date 6-21-19

ACADIANA OIL & ENVIRONMENTAL CORPORATION

P. O. Box 9088 • New Iberia, LA 70562
337-560-5573

TRANSPORT MANIFEST
Lease Run Ticket
12704

Date 6-19 20 19

Operator Cavillier Group Lease No. C G

Lease Name

Field

GAUGE	OIL LEVEL FEET	OIL LEVEL INCHES	BS&W LEVEL FT.	BS&W LEVEL INCHES	TANK TEMP
1st	03	09 3/4			
2nd	04	01 1/4			

TANK NO. | SIZE | SERIAL NUMBERS | EST. GROSS GALLONS @ °F

OLD

NEW

OBSERVED GRAVITY 30 @ 88 °F

PERCENT BS & W 3/10% | TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Berwick

TEMP FACTOR	BS & W FACTOR	X FACTOR
.9882	.9970	.9852

OFFICE USE ONLY

GRAVITY CORR. TO 60 °F	
1st	
2nd	
GROSS BARRELS	139.42
X FACTOR	.9852
NET BBLS PER RUN TIC.	137.36

GROSS

TARE

NET

OPEN

CLOSE

[redacted]

OPERATOR'S WITNESS

PROPER SHIPPING NAME	HAZARD CLASS		I.D. NUMBER	TOTAL QUANTITY
PETROLEUM CRUDE OIL	III	3	UN 1267	137.36 BBL
BS&W				.42
Temp.				1.64

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

CORPORATION

P. O. Box 9088 • New Iberia, LA 70562
337-560-5573

TRANSPORT MANIFEST

Lease Run Ticket

12703

Date June 15 20 19

Operator Consolidated Gathering G

Lease Name

Field Avoca Ltd.

GAUGE	OIL LEVEL FEET	OIL LEVEL INCHES	BS&W LEVEL FT.	BS&W LEVEL INCHES	TANK TEMP
1st	2 7	0 3 3/4			
2nd	2 7	0 8 3/4			

TANK NO.	SIZE	EST. GROSS GALLONS @ °F
6 2 0 0 6	125 BBL	

SERIAL NUMBERS

OLD

NEW

OBSERVED GRAVITY 28 @ 84 °F

PERCENT BS & W 5/10%

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Bennett

OFFICE USE ONLY

GRAVITY CORR TO 60 °F

1st

2nd

GROSS BARRELS 145.76

X FACTOR .9810

NET BBLS PER RUN TIC. 142.99

TEMP. FACTOR .9859 X BS & W FACTOR .9950 = X FACTOR .9810

GROSS

TARE

NET

OPEN

CLOSE

DRIVER

OPERATOR'S WITNESS

PROPER SHIPPING NAME	HAZARD CLASS		I.D. NUMBER	TOTAL QUANTITY
PETROLEUM CRUDE OIL	III	3	UN 1267	142.99
BS				.73
Tot				2.04

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

ACADIANA OIL & ENVIRONMENTAL CORPORATION
1206 Lemaire St. • New Iberia, LA 70560
337-560-5573

TRANSPORT MANIFEST
Lease Run Ticket
21327

EMERGENCY RESPONSE CONTACT:
ES & H
985-851-5055

Date 6-20 20 19

Operator Cawthon Group Lease No. C G

Lease Name Truck #1

Field

GAUGE	OIL LEVEL FEET		OIL LEVEL INCHES		
1st	0	4	1	0	3 4
2nd	0	5	0	2	

BS&W LEVEL FT.	BS&W LEVEL INCHES	TANK TEMP

TANK NO. | SIZE

EST GROSS GALLONS @ °F

SERIAL NUMBERS

OLD

NEW

OBSERVED GRAVITY 26 @ 90°F

PERCENT BS & W 16%

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Berwick

TEMP. FACTOR	x	BS & W FACTOR		X FACTOR
.9878		.8400		.8297

OFFICE USE ONLY	
GRAVITY CORR TO 60 °F	
1st	
2nd	
GROSS BARRELS	136.2
X FACTOR	.8297
NET BBLS PER RUN TIC	113.01

GROSS

TARE

NET

OPEN

CLOSE

[redacted]

OPERATOR'S WITNESS

I.D. NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PG	TOTAL BBLS
UN 1267	PETROLEUM CRUDE OIL	3	111	113.01 BBLS
BS&W				21.79
Temp.				1.4

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

Shipper: [redacted] **Date:**

ACADIANA OIL & ENVIRONMENTAL CORPORATION

[redacted]

337-560-5573

TRANSPORT MANIFEST

Lease Run Ticket

21328

EMERGENCY RESPONSE CONTACT:
ES&H
985-851-5055

Date 6-20 20 19

Operator Couvillion Group No. C G [redacted]

Lease Name Truck #2

Field

GAUGE	GAUGE FEET	GAUGE INCHES	
1st	05	02	
2nd	05	05	3/8

BS&W LEVEL FT.	BS&W LEVEL INCHES	TANK TEMP

TANK NO.	SIZE

EST GROSS GALLONS @ °F

SERIAL NUMBERS

OLD

NEW

OBSERVED GRAVITY 28 @92 °F

PERCENT BS & W 7/10%

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Berwick

OFFICE USE ONLY

GRAVITY CORR TO 60 °F	
1st	
2nd	
GROSS BARRELS	141.4
X FACTOR	.9860
NET BBLS PER RUN TIC	139.42

TEMP FACTOR	X	BS & W FACTOR	=	[illegible]
.9967		.9993		.9860

GROSS	OPEN	[redacted]
TARE		
NET	CLOSE	OPERATOR'S WITNESS

I.D. NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PG	TOTAL BBLS
UN 1267	PETROLEUM CRUDE OIL	3	111	139.42 BBLS
BS&W				.10
Temp				1.88

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE

ACADIANA OIL & ENVIRONMENTAL CORPORATION
1206 Lemaire St. • New Iberia, LA 70560
337-560-5573

TRANSPORT MANIFEST
Lease Run Ticket
21329

EMERGENCY RESPONSE CONTACT:
B S & H
985-851-5055

Date 6-20 20 19

Operator Couvillion Group | C | G |

Lease Name Truck #3

Field

Gauge	Oil Level Feet		Inches		
1st	0	5	0	5	3/8
2nd	0	5	0	8	3/4

BS&W LEVEL FT.	INCHES	TANK TEMP

Tank No. | SIZE

EST. GROSS GALLONS @ °F

SERIAL NUMBERS
OLD
NEW

OBSERVED GRAVITY 28 @ 92 °F

PERCENT BS & W 3.8%

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Berwick

OFFICE USE ONLY

GRAVITY CORR TO 60 °F

1st

2nd

GROSS BARRELS 141.4

X FACTOR .9492

NET BBLS PER RUN TIC 134.22

TEMP FACTOR .9867 x BS & W FACTOR .9620 = X FACTOR .9492

GROSS

TARE

NET

OPEN

CLOSE

[redacted]

OPERATOR'S WITNESS

I.D. NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PG	TOTAL BBLS
UN 1267	PETROLEUM CRUDE OIL	3	111	134.22BBLS
BS&W				5.37
Temp				1.81

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

CORPORATION

337-560-5573

TRANSPORT MANIFEST

Lease Run Ticket

21330

EMERGENCY RESPONSE CONTACT:
ES&H
985-851-5055

Date 6-20 20 19

Operator Courvillion Gr[illegible] C G

Lease Name Truck #4

Field

	OIL LEVEL FEET	OIL LEVEL INCHES
1st	05	08 3/4
2nd	06	00 1/8

BS&W LEVEL FT.	BS&W LEVEL INCHES	TANK TEMP

TANK NO. | SIZE

EST. GROSS GALLONS @ °F

SERIAL NUMBERS
OLD
NEW

OBSERVED GRAVITY 28 @ 88 °F

PERCENT BS & W 1 %

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Berwick

OFFICE USE ONLY

GRAVITY CORR TO 60 °F	
1st	
2nd	
GROSS BARRELS	141.43
X FACTOR	.9785
NET BBLS PER RUN TIC	138.39

TEMP FACTOR	X	BS & W FACTOR	=	X FACTOR
.9884	X	.9900	=	.9785

GROSS
TARE
NET

OPEN / CLOSE

[redacted]

DRIVER

OPERATOR'S WITNESS

I.D. NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PG	TOTAL BBLS
UN 1267	PETROLEUM CRUDE OIL	3	111	138.39 BBLS
BS&W				1.41
Temp				1.62

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

Shipper: [redacted] **Date:**

ACADIANA OIL & ENVIRONMENTAL CORPORATION
1206 Lemaire St. • New Iberia, LA 70560
337-560-5573

TRANSPORT MANIFEST
Lease Run Ticket
21331

EMERGENCY RESPONSE CONTACT:
E S & H
985-851-5055

Date 6-21 20 19

Operator Cawillion Energy Lease No. C G

Lease Name

Field

GAUGE	OIL LEVEL FEET		OIL LEVEL INCHES		
1st	0	6	0	0	8 1/
2nd	0	6	0	1	1/4

BS&W LEVEL FT.	INCHES	TANK TEMP

TANK NO.

SIZE

EST GROSS GALLONS @ °F

SERIAL NUMBERS
OLD
NEW

OBSERVED GRAVITY 26 @ 90 °F

PERCENT BS & W 4.2%

TEMPERATURE OF OIL IN TANK °F

LOG NUMBER

TIME ARRIVED AM PM

TIME DEPARTED AM PM

DELIVERY STATION Bewick

OFFICE USE ONLY

GRAVITY CORR. TO 60 °F	
1st	
2nd	
GROSS BARRELS	47.14
X FACTOR	.9463
NET BBLS PER RUN TIC.	44.61

TEMP FACTOR	x	BS & W FACTOR	=	X FACTOR
.9878		.9580		.9463

GROSS
TARE
NET

OPEN
CLOSE

[redacted]

OPERATOR'S WITNESS

I.D. NUMBER	PROPER SHIPPING NAME	HAZARD CLASS	PG	TOTAL BBLS
UN 1267	PETROLEUM CRUDE OIL	3	111	44.61 BBL
BSW				1.98
Temp.				0.55

"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION, ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION".

Shipper: [redacted] **Date:**

Appendix 2

NRC Procedures for Waste Handling and Documentation

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY
Form 8.1.7	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision: 04/2019

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS	
Shore side NRC Project Manager	[redacted]
Director of Marine Ops	
Director of Operations	
NRC HSEQ Manager	
NRC HSEQ Director	
Hospital / Medical Intervention	Plaquemines Medical Center – Port Sulfur, La (504)564-3344

Date: 6/19/2019	Start Time: 10:00 Am	Job Number: 19-0192

☐ Land Emergency Response ☐ Marine Emergency Response ☐ Land Service ☒ Marine Service

SITE DESCRIPTION / WORK SUMMARY

The site is the Couvillion Dockside Facility located at 433 McDermott Rd., Venice, La.

NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V Chloe Candies has been collecting crude oil from the location and storing it on frac tanks located on her deck. The M/V Chloe Candies will be moored to the dock at the above location and transfer the recovered crude from the frac tanks on her deck to double walled frac tanks on the dockside.

Once the frac tanks on the Couvillion docks are ready for transfer the crude will then be transferred into bulk transporter trailers to be sent to its final destination.

SCOPE OF WORK

The M/V Chloe Candies will send a 100' section of 2-inch petroleum duty hose to the dock where it will be connected to the hoses leading to the double walled frac tanks on the dock. Once the connections are secured and the declaration of inspection (DOI) is complete, the M/V Chloe Candies will transfer the crude oil in her tanks using a 3-inch pneumatic diaphragm pump. Once the transfer is complete a 1-inch airline with the proper fitting will be given to the M/V's crew to send compressed air up the hose to "blow down" any residual product left in the hoses to ensure no product is spilled when the hoses are disconnected.

After the crude oil sits in the frac tank at the Couvillion Dock for 12 to 24 hours the crude oil will be pumped using a 3-inch pneumatic diaphragm pump to transport trailers to be sent to final destination.

SAFETY PLAN APPROVAL

Site Safety Officer [redacted] Date 6/14/19

ACKNOWLEDGMENTS (signed by all NRC site personnel)

I have read and understand the topics outlined on all pages of this HASP and will follow all the required safety rules.
**I am aware that I am to sign in at the beginning of the shift and sign out at the end of my shift on the Daily Safety Meeting form.
I must notify the on site supervisor of any injury /accident/ near miss that I had or observed during my shift**
I understand that I have the right to stand down for Safety and report any potential hazards to the NRC Site Supervisor.
After an injury/accident/near miss is reported, the Site Supervisor must call the H & S Manager at

Date	Print Name	Signature
6/14/19	[redacted]	[redacted]
6/14/19		
6/14/19		
6/14/19		
6/14/19		
6/14/19		
6/14/19		
6-14-19		
6-14-19		
6/14/19		
6/14/19		
6/14/19		
6/14/19		
6/14/19		
14 JUNE 2019		
14 June 2019		
14 June 19		
14 JUNE 19		
6/14/19		
6/14/19		

DECLARATION OF INSPECTION

LOCATION & NAME OF FACILITY [illegible]

NAME OF VESSEL [illegible]

DATE TRANSFER OPERATIONS STARTS 6-14-19

An oil transfer operation may not commence to or from a vessel unless the following requirements are met and agreed upon by the respective transferring and receiving persons in charge.
Persons in charge indicate by a check (✓), in the appropriate spaces, that the specific requirement has been met.

VESSEL		FACILITY
JB	A. The mooring lines are adequate for all anticipated conditions.	TCH
JB	B. Cargo hoses and or loading arms are long enough for intended use	TCH
JB	C. Cargo hoses are adequately supported to prevent undue strain on the couplings.	TCH
JB	D. The transfer system is properly lined up for discharging or receiving oil. (Additional checks shall be performed each time a valve is repositioned.)	TCH
JB	E. Each flange connection on the cargo system not being used during the transfer operation is blanked or shut off.	TCH
JB	F. The cargo hoses and/or loading arms are connected to the manifolds using gaskets and a bolt in every other hole. (minimum of 4 bolts). Exception: Tanks without fixed loading systems per waiver from the Captain of the Port.	TCH
JB	G. The overboard or sea suction valves are sealed or lashed in the closed position.	TCH
JB	H. Adequate spill containments have been provided for couplings.	TCH
JB	I. All scuppers or other overboard drains are closed or plugged.	TCH
JB	J. A communications system is provided between the facility and the vessel.	TCH
JB	K. Emergency shutdown system is available and operable.	TCH
JB	L. Communication procedures are established and understood between persons in charge.	TCH
JB	M. Qualified and designated personnel are in charge and on duty at the terminal and vessel control stations.	TCH
JB	N. One person at the vessel control station is present who fluently speaks the language of the terminal control station.	TCH
JB	O. The owner of the cargo hoses will insure test requirements have been met and that the hose has no loose covers, kinks, bulges, soft spots or gouges, cuts and slashes which penetrate the hose reinforcement and that hoses are marked for identification and test data is maintained in a test log.	TCH
JB	P. Adequate lighting of the vessel and terminal work areas and manifold areas is provided.	TCH
	Q. Persons in charge have held a conference to assure the mutual understanding of the following transfer operations:	TCH
JB	1. Product identity to be transferred.	TCH
JB	2. Sequence of transfer operation.	TCH
JB	3. Transfer rate of flow	TCH
JB	4. Name or title and location of each person participating in the transfer operation	TCH
JB	5. Particulars of the transferring and receiving systems	TCH
JB	6. Starting, stripping, topping and shutdown have been discussed and understood	TCH
JB	7. Emergency procedures including notification, containment and cleanup of spills	TCH
JB	8. Watch and shift arrangements	TCH
JB	9. Notification before leaving stations	TCH

The following items are to be filled out by Vessel personnel only.

JB ...1. Warning signs and read warning signals (35.35-30).
JB ...2. Repair work authorization (35.35-30).
JB ...3. Boiler and galley fires safety (35.35-30).
JB ...4. Fires or open flames (35.35-30).
JB ...5. Safe smoking space (35.35-30).

I certify that I have read, understand and agree with the foregoing as marked and agree to begin continue the transfer operation.

PERSON IN CHARGE OF VESSEL	Signat[redacted] Title Time 1215 Date 06/14/19	PERSON IN CHARGE OF FACILITY	Signatu[redacted] Title Time 1440 Date 6-14-19

The operator of each facility and the operator of each vessel shall retain a signed copy for at least a month.

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

Date: 6-13-19	**Location:** MC-20		
Facility/Vehicle Number:		**Start Time**	**End Time**
Vessel Name: Brandon Borderline		0000	1215
Vessel Official Number:	**Vessel Capacity** (Total) (bbls):		
Product Transferred: Crude oil	***Est.* Transfer Volume** (bbls):		

Note For Emergency Notification Discharge amounts (Gallons):

Average most probable:

Maximum most probable:

Worst case discharge:

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30.

- The spaces on the left are to be reviewed by ALL PIC's involved in the transfer and checked in agreement.
- The right hand columns are to be initialed by the appropriate PIC and/or noted as not applicable with (N/A).
- Items on the list are provided to indicate that the detailed requirements have been met

☑	***TOPIC***	PIC Delivering	PIC Receiving
	Verify PIC designation/qualification 33 CFR 154.710, 154.730, 154.740(b)	SS	TS
	Person In Charge (PIC): In Immediate Vicinity and Available	SS	TS
	Personnel: Capable/Unimpaired	SS	TS
	Name, title and location of each person participating in the transfer operation	SS	TS
	MC 20 Subsea Storage Offloading Operations & Maintenance Manual present with procedures and particulars of the transfer and receiving systems to be followed and verified with key personnel involved in these operations	SS	TS
	Watch and shift arrangements discussed	SS	TS
	Cargo is Authorized for transfer ***to*** **or** ***from*** tanks	SS	TS
	Discuss if transfer will need to stopped to change tanks – *supply or receiving facility*	SS	TS
	Discuss transfer rates and max allowable to receiving facility	SS	TS
	(Facility/Vessel) properly vented (monitoring vacuum and positive tanks pressure)	SS	TS
	Communications & No Language Barrier	SS	TS
§	**Hoses and Connection - 33CFR 154.500**		
	Nonmetallic hoses usable for oil or hazardous material service	SS	TS
	Proper connections (must be one of the following):	SS	TS
	Fusion 100 hammer union connections	SS	TS
	Quick-disconnect coupling present on suction side of pump	SS	TS
	Examine transfer hose markings or records.	SS	TS
	Name of product handled; example "OIL SERVICE," or "HAZMAT SERVICE"	SS	TS
§	**Examine Transfer Hose condition - 33CFR 156.170**		
	No unrepaired kinks, bulges, soft spots, loose covers, other defects	SS	TS
	No cuts, slashes, or gouges that penetrate the first layer of hose reinforcement	SS	TS
	No external/internal deterioration	SS	TS
§	**Emergency shutdown - 33CFR 156.170**		
	Test emergency shutdown - 33CFR 154.550 - who controls the emergency shutdown	SS	TS
	Communication system continuously operated.	SS	TS
	Verify operating properly (Electric, pneumatic, or mechanical link to facility; electronic voice)	SS	TS
	Record test info in physical information.	SS	TS
§	**Examine closure device - 33CFR 154.520**		
	Verify enough to blank off ends of each hose /loading arm not connected for transfer	SS	TS
§	**Inspect Small Discharge Containment - 33CFR 154.530**		
	Inspect handling area and verify capacity (not less than 5 gallons).	SS	TS

COUVILLION **DECLARATION OF INSPECTION - DOI** 2019

Pre-Transfer Conference and Agreement (Continued)			
☑	**TOPIC**	PIC Delivering	PIC Receiving
§	**Inspect discharge containment equipment for oil & hazardous liquids - 33CFR 154.545**		
	Verify booming for oil or hazmat transfer (if required by COTP).	SS	TS
	Verify adequate amount of equipment and/or absorbent material for initial response	SS	TS
	Inspect condition of response equipment stored on facility (if applicable).	SS	TS
	Verify availability of at least 200 feet of containment boom onsite within 1 hour.	SS	TS
	Verify means of deployment.	SS	TS
§	**Means of Communication - 33 CFR 154.560**		
	Verify continuous two-way voice communication between vessel and facility PICs.	SS	TS
	Communications must meet the following requirements…		
	Portable Radio:		
	IF Flammable or Combustible Liquids	SS	TS
	1. Marked or documented as intrinsically safe.	SS	TS
	2. Certified as intrinsically safe by national testing labor certification organization.	SS	TS
	Voice		
	1. Be audible.	SS	TS
	Test communications. SAT ☐ UNSAT ☐	SS	TS
§	**Inspect lighting systems - 33 CFR 154.570**		
	Verify portable lighting for operations between sunrise and sunset *(if applicable).*	SS	TS
	At transfer operations work areas for facility and vessel	SS	TS
	At transfer connection points for facility and vessel	SS	TS
	Verify sufficient number or fire extinguishers.	SS	TS
	Verify protective equipment is ready to operate.	SS	TS
	Verify warning signs are adequate.	SS	TS
	§ **VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PROCEDURES** §		
	PIC for vessel/operator is required by §155.720 to have current transfer procedures		TS
	Require vessel personnel to use the transfer procedures for each transfer operation		TS
	Available for inspection by the COTP or OCMI whenever the vessel is in operation		TS
	Legibly printed language(s) understood by personnel engaged in transfer operation		TS
	Permanently posted or available and used by members of crew engaged in transfer operation		TS
	Appropriate tank level monitoring (visual, gauging, indicators, etc.)		TS
	Arrangements to monitor draft marks during transfer		TS
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, and overflow		TS
	Shutoff valve location or isolation device separating bilge or ballast from the transfer system		TS
	Adequate containment on the vessel at loading or discharge connection		TS
	Drains, Scuppers and overboard discharges closed		TS
	The number of persons required to be on duty during transfer operations;		TS
	Procedures for emptying discharge containment system required by §§155.310 and 155.320		TS
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous material		TS
	Procedures for emergency shutdown/communications required by §§155.780 and 155.785		TS
	Procedures for topping off tanks		TS
	Procedures ensuring all valves used during transfer are closed upon completion of transfer		TS

I do certify that I have personally inspected this facility or vessel with reference to the requirements aforementioned and that I have indicated that the regulations have been complied with if applicable.

[redacted] 6/13/19 DATE 0000 TIME

PIC RECEIVING – NAME TITLE 6-13-19 DATE 0000 TIME

TRANSFER COMPLETED: AMOUNT (GALLONS) DATE TIME

(FORM UPDATED April 15 2019)

DECLARATION OF INSPECTION

LOCATION & NAME OF FACILITY
Cavillon ... Venice, La.

NAME OF VESSEL
Bayou Boudreau(?)

DATE TRANSFER OPERATIONS STARTS
6-14-19

An oil transfer operation may not commence to or from a vessel unless the following requirements are met and agreed upon by the respective transferring and receiving persons in charge.

Persons in charge indicate by a check (√), in the appropriate spaces, that the specific requirement has been met.

VESSEL		FACILITY
JB	A. The mooring lines are adequate for all anticipated conditions.	TM
JB	B. Cargo hoses and/or loading arms are long enough for intended use	TM
JB	C. Cargo hoses are adequately supported to prevent undue strain on the couplings.	TM
JB	D. The transfer system is properly lined up for discharging or receiving oil. (Additional checks shall be performed each time a valve is repositioned.)	TM
JB	E. Each flange connection on the cargo system not being used during the transfer operation is blanked or shut off.	TM
JB	F. The cargo hoses and/or loading arms are connected to the manifolds using gaskets and a bolt in every other hole. (minimum of 4 bolts). Exception: Tanks without fixed loading systems per waiver from the Captain of the Port.	TM
JB	G. The overboard or sea suction valves are sealed or lashed in the closed position.	TM
JB	H. Adequate spill containments have been provided for couplings.	TM
JB	I. All scuppers or other overboard drains are closed or plugged.	TM
JB	J. A communications system is provided between the facility and the vessel.	TM
JB	K. Emergency shutdown system is available and operable.	TM
JB	L. Communication procedures are established and understood between persons in charge.	TM
JB	M. Qualified and designated personnel are in charge and on duty at the terminal and vessel control stations.	TM
JB	N. One person at the vessel control station is present who fluently speaks the language of the terminal control station.	TM
JB	O. The owner of the cargo hoses will insure test requirements have been met and that the hose has no loose covers, kinks, bulges, soft spots or gouges, cuts and slashes which penetrate the hose reinforcement and that hoses are marked for identification and test data is maintained in a test log.	TM
JB	P. Adequate lighting of the vessel and terminal work areas and manifold areas is provided.	TM
	Q. Persons in charge have held a conference to assure the mutual understanding of the following transfer operations:	TM
JB	...1. Product identity to be transferred.	TM
JB	...2. Sequence of transfer operation.	TM
JB	...3. Transfer rate of flow	TM
JB	...4. Name or title and location of each person participating in the transfer operation	TM
JB	...5. Particulars of the transferring and receiving systems	TM
JB	...6. Starting, stripping, topping and shutdown have been discussed and understood	TM
JB	...7. Emergency procedures including notification, containment and cleanup of spills	TM
JB	...8. Watch and shift arrangements	TM
JB	...9. Notification before leaving stations	TM

The following items are to be filled out by Vessel personnel only.

JB	...1. Warning signs and read warning signals (35.35-30).
JB	...2. Repair work authorization (35.35-30).
JB	...3. Boiler and galley fires safety (35.35-30).
JB	...4. Fires or open flames (35.35-30).
JB	...5. Safe smoking space (35.35-30).

I certify that I have read, understand and agree with the foregoing as marked and agree to begin/continue the transfer operation.

PERSON IN CHARGE OF VESSEL		PERSON IN CHARGE OF FACILITY	
	Signature [redacted]		Signature [redacted]
	Title [redacted]		Title [redacted]
	Time 1215 / Date 06/14/19		Time 1440 / Date 6/14/19

The operator of each facility and the operator of each vessel shall retain a signed copy for at least a month.

SAFETY PLAN APPROVAL

Site Safety Officer [redacted] Date 6-14-19

ACKNOWLEDGMENTS (signed by all NRC site personnel)

I have read and understand the topics outlined on all pages of this HASP and will follow all the required safety rules.
**I am aware that I am to sign in at the beginning of the shift and sign out at the end of my shift on the Daily Safety Meeting form.
I must notify the on site supervisor of any injury /accident/ near miss that I had or observed during my shift**
I understand that I have the right to stand down for Safety and report any potential hazards to the NRC Site Supervisor.
After an injury/accident/near miss is reported, the Site Supervisor must call the H & S Manager at_____

Date	Print Name	Signature
6/14/19	[redacted]	
6/14/19		
6/14/19		
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6/14/19		
6/14/19		
14 JUNE 2019		
14 June 2019		
14 June 19		
14 June 19		
6/14/19		
6/14/19		

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

Date:	**Location:**		
Facility/Vehicle Number: Couvillion		**Start Time**	**End Time**
Vessel Name: Brandon Borderlon		1540	2235
Vessel Official Number:	**Vessel Capacity (Total) (bbls):**		
Product Transferred: Crude Oil	***Est.* Transfer Volume (bbls):**		

Note For Emergency Notification Discharge amounts (Gallons):

Average most probable:

Maximum most probable:

Worst case discharge:

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30.

- The spaces on the left are to be reviewed by ALL PIC's involved in the transfer and checked in agreement.
- The right hand columns are to be initialed by the appropriate PIC and/or noted as not applicable with (N/A).
- Items on the list are provided to indicate that the detailed requirements have been met

☑	***TOPIC***	PIC Delivering	PIC Receiving
	Verify PIC designation/qualification 33 CFR 154.710, 154.730, 154.740(b)		TM
	Person In Charge (PIC): In Immediate Vicinity and Available		TM
	Personnel: Capable/Unimpaired		TM
	Name, title and location of each person participating in the transfer operation		TM
	MC 20 Subsea Storage Offloading Operations & Maintenance Manual present with procedures and particulars of the transfer and receiving systems to be followed and verified with key personnel involved in these operations		TM
	Watch and shift arrangements discussed		TM
	Cargo is Authorized for transfer ***to*** **or** ***from*** tanks		TM
	Discuss if transfer will need to stopped to change tanks – *supply or receiving facility*		TM
	Discuss transfer rates and max allowable to receiving facility		TM
	(Facility/Vessel) properly vented (monitoring vacuum and positive tanks pressure)		TM
	Communications & No Language Barrier		TM
§ Hoses and Connection - 33CFR 154.500			
	Nonmetallic hoses usable for oil or hazardous material service		TM
	Proper connections (must be one of the following):		TM
	Fusion 100 hammer union connections		TM
	Quick-disconnect coupling present on suction side of pump		TM
	Examine transfer hose markings or records.		TM
	Name of product handled; example "OIL SERVICE," or "HAZMAT SERVICE"		TM
§ Examine Transfer Hose condition - 33CFR 156.170			
	No unrepaired kinks, bulges, soft spots, loose covers, other defects		TM
	No cuts, slashes, or gouges that penetrate the first layer of hose reinforcement		TM
	No external/internal deterioration		TM
§ Emergency shutdown - 33CFR 156.170			
	Test emergency shutdown - 33CFR 154.550 - who controls the emergency shutdown		TM
	Communication system continuously operated.		TM
	Verify operating properly (Electric, pneumatic, or mechanical link to facility; electronic voice)		TM
	Record test info in physical information.		TM
§ Examine closure device - 33CFR 154.520			
	Verify enough to blank off ends of each hose /loading arm not connected for transfer		TM
§ Inspect Small Discharge Containment - 33CFR 154.530			
	Inspect handling area and verify capacity (not less than 5 gallons).		TM

COUVILLION **DECLARATION OF INSPECTION - DOI** 2019

☑	*Pre-Transfer Conference and Agreement (Continued)* TOPIC	PIC Delivering	PIC Receiving
§	**Inspect discharge containment equipment for oil & hazardous liquids - 33CFR 154.545**		
	Verify booming for oil or hazmat transfer (if required by COTP).		TM
	Verify adequate amount of equipment and/or absorbent material for initial response		TM
	Inspect condition of response equipment stored on facility (if applicable).		TM
	Verify availability of at least 200 feet of containment boom onsite within 1 hour.		TM
	Verify means of deployment.		TM
§	**Means of Communication - 33 CFR 154.560**		
	Verify continuous two-way voice communication between vessel and facility PICs.		TM
	Communications must meet the following requirements…		
	Portable Radio:		
	IF Flammable or Combustible Liquids		TM
	1. Marked or documented as intrinsically safe.		TM
	2. Certified as intrinsically safe by national testing labor certification organization.		TM
	Voice		
	1. Be audible.		TM
	Test communications. SAT ☐ UNSAT ☐		TM
§	**Inspect lighting systems - 33 CFR 154.570**		
	Verify portable lighting for operations between sunrise and sunset *(if applicable).*		TM
	At transfer operations work areas for facility and vessel		TM
	At transfer connection points for facility and vessel		TM
	Verify sufficient number or fire extinguishers.		TM
	Verify protective equipment is ready to operate.		TM
	Verify warning signs are adequate.		TM
	§ VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PROCEDURES §		
	PIC for vessel/operator is required by §155.720 to have current transfer procedures		
	Require vessel personnel to use the transfer procedures for each transfer operation		
	Available for inspection by the COTP or OCMI whenever the vessel is in operation		
	Legibly printed language(s) understood by personnel engaged in transfer operation		
	Permanently posted or available and used by members of crew engaged in transfer operation		
	Appropriate tank level monitoring (visual, gauging, indicators, etc.)		
	Arrangements to monitor draft marks during transfer		
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, and overflow		
	Shutoff valve location or isolation device separating bilge or ballast from the transfer system		
	Adequate containment on the vessel at loading or discharge connection		
	Drains, Scuppers and overboard discharges closed		
	The number of persons required to be on duty during transfer operations;		
	Procedures for emptying discharge containment system required by §§155.310 and 155.320		
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous material		
	Procedures for emergency shutdown/communications required by §§155.780 and 155.785		
	Procedures for topping off tanks		
	Procedures ensuring all valves used during transfer are closed upon completion of transfer		

I do certify that I have personally inspected this facility or vessel with reference to the requirements aforementioned and that I have indicated that the regulations have been complied with if applicable.

[redacted]		6-14-19 DATE	1540 TIME
PIC RECEIVING – NAME	TITLE	6-14-19 DATE	1540 TIME

TRANSFER COMPLETED: 915.56 AMOUNT (GALLONS) | 6-14-19 DATE | 2235 TIME

(FORM UPDATED April 15 2019)

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY
Form 8.1.7	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision: 04/2019

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS

Shore side NRC Project Manager	[redacted]
Director of Marine Ops	
Director of Operations	
NRC HSEQ Manager	
NRC HSEQ Director	
Hospital / Medical Intervention	Plaquemines Medical Center – Port Sulfur, La (504)564-3344

Date: 6/19/2019 **Start Time:** 0700 **Job Number:** 19-0192

☐ Land Emergency Response ☐ Marine Emergency Response ☐ Land Service ☒ Marine Service

SITE DESCRIPTION / WORK SUMMARY

The site is the Couvillion Dockside Facility located at 433 McDermott Rd., Venice, La.

NRC will facilitate removing recovered crude oil from the well located at MC20 project. The M/V Chloe Candies has been collecting crude oil from the location and storing it on frac tanks located on her deck. The M/V Chloe Candies will be moored to the dock at the above location and transfer the recovered crude from the frac tanks on her deck to double walled frac tanks on the dockside.

Once the frac tanks on the Couvillion docks are ready for transfer the crude will then be transferred into bulk transporter trailers to be sent to its final destination.

SCOPE OF WORK

The M/V Chloe Candies will send a 100' section of 2-inch petroleum duty hose to the dock where it will be connected to the hoses leading to the double walled frac tanks on the dock. Once the connections are secured and the declaration of inspection (DOI) is complete, the M/V Chloe Candies will transfer the crude oil in her tanks using a 3 inch pneumatic diaphragm pump. Once the transfer is complete a 1-inch airline with the proper fitting will be given to the M/V's crew to send compressed air up the hose to "blow down" any residual product left in the hoses to ensure no product is spilled when the hoses are disconnected.

After the crude oil sits in the frac tank at the Couvillion Dock for 12 to 24 hours the crude oil will be pumped using a 3-inch pneumatic diaphragm pump to transport trailers to be sent to final destination.

SAFETY PLAN APPROVAL

Site Safety Officer [redacted] Date 6-19-2019

ACKNOWLEDGMENTS (signed by all NRC site personnel)

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Date	Print Name	Signature
6-19-19	[redacted]	
6-19-19		
6-19-19		
6-19-19		
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6-19-19		
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6-19-19		

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY IT'S THE WAY TO GO!
Form 8.1.7	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision: 04/2019

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS

Shore side NRC Project Manager	[redacted]
Director of Marine Ops	
Director of Operations	
NRC HSEQ Manager	
NRC HSEQ Director	
Hospital / Medical Intervention	Plaquemines Medical Center – Port Sulfur, La (504)564-3344

Date: 6/30/2019 **Start Time:** 0780 **Job Number: 19-0192**

☐ Land Emergency Response ☐ Marine Emergency Response ☐ Land Service ☒ Marine Service

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SAFETY PLAN APPROVAL

Site Safety Officer [redacted] Date 6-20-19

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Date	Print Name	Signature
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6/20/19		
6-20-19		
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6-20-19		
6-20-19		
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6-20-19		

NRC	SAFETY MANAGEMENT SYSTEM	SAFETY IT'S THE WAY TO GO!
Form 8 1 7	Site Specific Safety Plan Project Name: MC20 Recovered Crude Oil Transfer	Revision 04/2019

NRC PROJECT PERSONNEL AND EMERGENCY CONTACTS	
Shore side NRC Project Manager	[redacted]
Director of Marine Ops	
Director of Operations	
NRC HSEQ Manager	
NRC HSEQ Director	
Hospital / Medical Intervention	Plaquemines Medical Center – Port Sulfur, La (504)564-3344

Date: 06/21/2019	**Start Time:** 0800	**Job Number:** 19-0192

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SAFETY PLAN APPROVAL

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Date	Print Name	Signature
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6-21-19		
6-21-19		
6-21-19		
6-21-19		
6-21-19		

COUVILLION **DECLARATION OF INSPECTION - DOI** 2019

Pre-Transfer Conference and Agreement (Continued)

☑	TOPIC	PIC Delivering	PIC Receiving
§	**Inspect discharge containment equipment for oil & hazardous liquids - 33CFR 154.545**		
	Verify booming for oil or hazmat transfer (if required by COTP).	D	TM
	Verify adequate amount of equipment and or absorbent material for initial response	D	TM
	Inspect condition of response equipment stored on facility (if applicable).	M	TM
	Verify availability of at least 200 feet of containment boom onsite within 1 hour.	M	TM
	Verify means of deployment.	M	TM
§	**Means of Communication - 33 CFR 154.560**		
	Verify continuous two-way voice communication between vessel and facility PICs.	D	TM
	Communications must meet the following requirements…		
	Portable Radio:		
	IF Flammable or Combustible Liquids		
	1. Marked or documented as intrinsically safe	M	TM
	2. Certified as intrinsically safe by national testing labor certification organization.	M	TM
	Voice	M	TM
	1. Be audible.		
	Test communications. SAT ☐ UNSAT ☐	D	TM
§	**Inspect lighting systems - 33 CFR 154.570**	M	TM
	Verify portable lighting for operations between sunrise and sunset *(if applicable).*	D	TM
	At transfer operations work areas for facility and vessel	D	TM
	At transfer connection points for facility and vessel	D	TM
	Verify sufficient number or fire extinguishers.	D	TM
	Verify protective equipment is ready to operate.	D	TM
	Verify warning signs are adequate.	D	TM
§	**VESSEL ONLY - 155.730 Compliance with VESSEL TRANSFER PROCEDURES §**		
	PIC for vessel/operator is required by §155.720 to have current transfer procedures		
	Require vessel personnel to use the transfer procedures for each transfer operation		
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	Legibly printed language(s) understood by personnel engaged in transfer operation		
	Permanently posted or available and used by members of crew engaged in transfer operation		
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	Arrangements to monitor draft marks during transfer		
	Transfer Piping Line diagram, location of each valve, pump, control device, vent, and overflow		
	Shutoff valve location or isolation device separating bilge or ballast from the transfer system		
	Adequate containment on the vessel at loading or discharge connection		
	Drains, Scuppers and overboard discharges closed		
	The number of persons required to be on duty during transfer operations:		
	Procedures for emptying discharge containment system required by §§155.310 and 155.320		
	Procedures for tending the vessel's moorings during the transfer of oil or hazardous material		
	Procedures for emergency shutdown/communications required by §§155.780 and 155.785		
	Procedures for topping off tanks		
	Procedures ensuring all valves used during transfer are closed upon completion of transfer		

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[redacted] 6-14-19 DATE 1540 TIME

[redacted] 6-14-19 DATE 1540 TIME

TRANSFER COMPLETED: 915.56 AMOUNT (GALLONS) 6-14-19 DATE 2235 TIME